SUMMARY MONTHLY SAFETY REPORT 1

ACTIVE SUBSTANCE: PF-07302048 (BNT162b2)

ATC CODE: J07BX031

AUTHORISATION PROCEDURE in the EU: Centralised

INTERNATIONAL BIRTH DATE (IBD)²: 19 December 2020

EUROPEAN UNION REFERENCE DATE (EURD): 21 December 2020

INTERVAL COVERED BY THIS REPORT:

01 DECEMBER 2020 through 31 DECEMBER 2020

DATE OF THIS REPORT: 13 JANUARY 2021

Report Prepared by: Worldwide Medical & Safety

Pfizer - BioNTech

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¹ Temporary ATC code.

² It corresponds to the earliest conditional approval date.

EXECUTIVE SUMMARY

This is the 1st Summary Monthly Safety Report (SMSR) for PF-07302048 (COVID-19 mRNA Vaccine, hereafter referred to as BNT162b2), covering the reporting interval 01 December 2020 through 31 December 2020.

BNT162b2 is a white to off-white frozen dispersion (pH: 6.9 - 7.9), provided as concentrate for dispersion for injection (sterile concentrate) as multidose vial to be diluted before use. The multidose vial contains 5 doses of 0.3 mL after dilution; use of 6 doses/vial was approved after the data-lock point of this report with the specification that low dead-volume syringes and/or needles should be used in order to extract 6 doses from a single vial. The low dead-volume syringe and needle combination should have a dead volume of no more than 35 microlitres. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial. Each dose contains 30 micrograms of BNT162b2 embedded in lipid nanoparticles (LPNs). The vaccine also contains (4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate) (ALC-0315), 2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide (ALC-0159), 1,2-Distearoyl-sn-glycero-3-phosphocholine (DSPC), cholesterol, potassium chloride, potassium dihydrogen phosphate, sodium chloride, disodium phosphate dihydrate, sucrose and water for injections as excipients.

BNT162b2 is single-stranded, 5'-capped mRNA produced using a cell-free in vitro transcription from the corresponding DNA templates, encoding the viral spike (S) protein of SARS-CoV-2. The nucleoside-modified mRNA is formulated in LNPs, which enable delivery of the RNA into host cells to allow expression of the SARS-CoV-2 S antigen. The vaccine elicits both neutralizing antibody and cellular immune responses to the spike (S) antigen, which may contribute to protection against COVID-19.

BNT162b2 is indicated for active immunisation to prevent COVID-19 caused by SARS-CoV-2 virus, in individuals 16 years of age and older. No dosage adjustment is required in elderly individuals ≥65 years of age. It is administered intramuscularly, preferably in the deltoid muscle of the upper arm, after dilution as a course of 2 doses (0.3 mL each) at least 21 days apart.

It is estimated that approximately 26,079,300 doses of BNT162b2 were shipped worldwide during the current reporting interval from 01 December 2020 through 31 December 2020; these are also equivalent to the estimated doses of BNT162b2 cumulatively shipped worldwide from the receipt of the first temporary authorisation for emergency supply on 01 December 2020 through 31 December 2020.

BNT162b2 has received temporary authorisation for emergency supply in 19 countries and conditional marketing authorisation approval in 32 countries globally.

The Core Data Sheet (CDS), currently in development, will be designated as unique reference safety information (RSI) for all the countries, once it will be finalized and effective.

For the European Union and other countries that use it as reference, the RSI for this SMSR is the BNT162b2 EU Summary of Product Characteristics (EU SmPC), dated 21 December 2020, in effect at the end of the reporting period.

For the United States and other countries that use it as reference, the RSI for this SMSR is the BNT162b2 combined Emergency Use Authorisation (EUA) Fact Sheet for the Healthcare Professionals (HCP) and EUA prescribing information (PI), dated 23 December 2020, in effect at the end of the reporting period. A previous version of the combined EUA Fact Sheet for the HCP and EUA PI, dated 11 December 2020, was in effect during the reporting period and it was updated on 23 December 2020; the safety-related changes were to add, in the warnings section of the Fact Sheet for HCP and the warnings and precautions section of the EUA PI, a statement to monitor vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines.

After the data-lock point of this report, both the RSIs (respectively, the combined EUA Fact Sheet for the HCP and EUA PI on 05 January 2021 and the EU SmPC on 08 January 2021) were updated to indicate that the use of 6 doses/vial in place of 5 doses/vial was approved.

During the reporting period, 12 validated signals (7 new signals and 5 ongoing before the start date of the reporting period) were evaluated and closed or still are undergoing evaluation:

- Anaphylaxis: closed to Important Identified Risk;
- Injection site redness, Injection site swelling, Malaise and Nausea: closed as Identified Risks (Not Important);
- Vomiting and Diarrhoea: closed as No Risks;
- Hypersensitivity (not Anaphylaxis)*, Insomnia*, Injection site pruritus*, Pain in extremity*, Facial paralysis*: ongoing under evaluation;
- * they were considered as Identified Risks (not important) and included in the EU SmPC as adverse reactions in Section 4.8 at the request of the EMA at the time of conditional approval of the vaccine. The relevant signals are currently still undergoing evaluation to determine if they will be included as adverse reactions also in the EUA PI and company CDS.

Based on the new safety and efficacy/effectiveness data from the reporting interval for BNT162b2, the benefit-risk profile of BNT162b2 remains favorable.

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LIST OF ABBREVIATIONS

Acronym	Term		
AE	adverse event		
AESI	adverse event of special interest		
BMI	body mass index		
CDS	core data sheet		
COPD	chronic obstructive pulmonary disease		
COVID-19	coronavirus disease 2019		
CT	computerised tomography		
DLP	data lock point		
DME	designed medically event		
DNA	deoxyribonucleic acid		
EMA	European Medicines Agency		
EU	European Union		
EUA	emergency use authorisation		
EURD	European Union Reference Date		
НА	health authority		
HCP	healthcare professional		
HLGT	(MedDRA) High Group Level Term		
HLT	(MedDRA) High Level Term		
IBD	international birth date		
ICH	International Conference on Harmonisation		
ICU	intensive care unit		
LLT	(MedDRA) Lowest Level Term		
LNP	lipid nanoparticle		
MAH	marketing authorisation holder		
MedDRA	medical dictionary for regulatory activities		
MHRA	(UK) Medicines and Healthcare products Regulatory Agency		
mRNA	messenger ribonucleic acid		
PI	prescribing information		
PT	(MedDRA) Preferred Term		
PVP	pharmacovigilance plan		
PY	person-years		
RMP	risk management plan		
RSI	reference safety information		
TME	targeted medically event		
SAE	serious adverse event		
SAR	serious adverse reactions		
SARS	severe acute respiratory syndrome		
SARS-CoV-2	severe acute respiratory syndrome coronavirus 2		
SmPC	Summary of Product Characteristics		
SMQ	standardised MedDRA query		
SMSR	R summary monthly safety report		

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SOC	(MedDRA) System Organ Class
UK	United Kingdom
US	United States
VAED	vaccine-associated enhanced disease
VAERD	vaccine-associated enhanced respiratory disease

1. INTRODUCTION

This is the 1st SMSR for PF-07302048 (COVID-19 mRNA Vaccine, hereafter referred to as BNT162b2), covering the reporting interval 01 December 2020 through 31 December 2020. The format and content of this SMSR is in accordance with the EMA coreRMP19 Guidance (EMA/544966/2020) and, as applicable, with ICH Guideline E2C (R2) Periodic Benefit-Risk Evaluation Report [Step 5, January 2013] considering the information for the evidence from post-EUA/conditional marketing authorisation approval data sources.

BNT162b2 is a white to off-white frozen dispersion (pH: 6.9 - 7.9), provided as concentrate for dispersion for injection (sterile concentrate) as multidose vial to be diluted before use. The multidose vial contains 5 doses of 0.3 mL after dilution; after the DLP of this report, the use of 6 doses/vial was approved with the specification that low dead-volume syringes and/or needles should be used in order to extract 6 doses from a single vial. The low dead-volume syringe and needle combination should have a dead volume of no more than 35 microlitres. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial (see Section 4). Each dose contains 30 micrograms of BNT162b2 (embedded in LNPs). The vaccine also contains ((4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate) (ALC-0315), 2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide (ALC-0159), 1,2-Distearoyl-sn-glycero-3-phosphocholine (DSPC), cholesterol, potassium chloride, potassium dihydrogen phosphate, sodium chloride, disodium phosphate dihydrate, sucrose and water for injections as excipients.

BNT162b2 is single-stranded, 5'-capped mRNA produced using a cell-free in vitro transcription from the corresponding DNA templates, encoding the viral spike (S) protein of SARS-CoV-2. The nucleoside-modified mRNA is formulated in LNPs, which enable delivery of the RNA into host cells to allow expression of the SARS-CoV-2 S antigen. The vaccine elicits both neutralizing antibody and cellular immune responses to the spike (S) antigen, which may contribute to protection against COVID-19.

BNT162b2 is indicated for active immunisation to prevent COVID-19 caused by SARS-CoV-2 virus, in individuals 16 years of age and older. No dosage adjustment is required in elderly individuals \geq 65 years of age. It is administered intramuscularly, preferably in the deltoid muscle of the upper arm, after dilution as a course of 2 doses (0.3 mL each) at least 21 days apart.

BNT162b2 received first temporary authorisation for emergency supply on 01 December 2020 in the UK and is currently authorised for emergency use in 19 countries.

BNT162b2 received first regulatory conditional marketing authorisation approval on 19 December 2020 in Switzerland and is currently conditionally approved in 32 countries.

Pfizer is responsible for the preparation of the SMSR on behalf of the MAH BioNTech according to the Pharmacovigilance Agreement in place. Data from BioNTech will be included in the report when applicable.

2. WORLDWIDE APPROVAL OR AUTHORISATION STATUS

BNT162b2 received first temporary authorisation for emergency supply under regulation 174 in the UK on 01 December 2020 and is currently authorised for emergency use in 19 countries.

BNT162b2 received first regulatory conditional marketing authorisation approval in Switzerland on 19 December 2020 and is currently conditionally approved in 32 countries.

Details of the current authorisation/approval status are presented in Appendix 4.

There were no withdrawals for safety reasons during the reporting interval.

3. ACTIONS TAKEN IN THE REPORTING INTERVAL FOR SAFETY REASONS

On 09 December 2020 UK MHRA proposed updated wording for the Regulation 174 UK Information for Healthcare Professionals and Information for Recipients document following assessment and expert consultation on reports of anaphylaxis and allergic reaction received following vaccine authorisation. Agreed changes to Section 4.4 were implemented by the MAH on 10 December 2020.

4. CHANGES TO REFERENCE SAFETY INFORMATION

The CDS, currently in development, will be designated as the unique RSI for all countries, once it is finalized and effective.

For the EU and other countries that use it as reference, the RSI for this SMSR is the BNT162b2 EU SmPC, dated 21 December 2020, in effect at the end of the reporting period which is located in Appendix 1. No changes were made to this RSI during this reporting interval.

For the US and other countries that use it as reference, the RSI for this SMSR is the BNT162b2 combined EUA Fact Sheet for the HCP and EUA PI, dated 23 December 2020, in effect at the end of the reporting period which is located in Appendix 1.1. A previous version of the combined EUA Fact Sheet for the HCP and EUA PI, dated 11 December 2020, was in effect during the reporting period and it was updated on 23 December 2020 to include a statement in the warnings and precautions sections to monitor vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines. The summary of changes made is presented in Appendix 1.2.

After the DLP of this report, both the RSIs (respectively, the combined EUA Fact Sheet for the HCP and EUA PI on 05 January 2021 and the EU SmPC on 08 January 2021) were updated to indicate that the use of 6 doses/vial in place of 5 doses/vial was approved. It was specified that low dead-volume syringes and/or needles should be used in order to extract 6 doses from a single vial. The low dead-volume syringe and needle combination should have a dead volume of no more than 35 microlitres. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial.

5. ESTIMATED EXPOSURE AND USE PATTERNS

5.1. Cumulative and Interval Exposure Data

It is not possible to determine with certainty the number of individuals who received BNT162b2 during the period of this review. Estimated worldwide shipped doses may serve as a reasonable indicator of patient exposure.

With these caveats in mind, it is estimated that approximately 26,079,300 doses of BNT162b2 were shipped worldwide during the current reporting interval from 01 December 2020 through 31 December 2020; these are also equivalent to the estimated doses of BNT162b2 cumulatively shipped worldwide from the receipt of the first temporary authorisation for emergency supply on 01 December 2020 through 31 December 2020.

The estimated interval/cumulative number of shipped doses of BNT162b2 considering the distribution by Region³ based on data provided in the shipment tracker (**(b) (4)**)⁴ from 01 December 2020 through 31 December 2020, are summarized in Table 1.

Table 1. Interval/Cumulative Estimated Shipped Doses of BNT162b2 by Region Worldwide

Region/Country/Other	% of Doses	Total Number of Shipped Doses
Europe		
European Union (27) ^a		
European Free Trade Association ^a (3)		
Switzerland ^a		
UK ^b		
Other Countries ^b		(4)
Commonwealth of Independent States ^c		
North America		
US^b		
Canada ^b		
Central and South America		
Asia		
Japan		
Other Countries ^b		
Oceania		
Australia/New Zealand		
Other Countries		
Africa		
Total	100.0%	26079300

³ Please note that currently there were no available data that allow to estimate exposure by gender and age group.

⁴ Please consider that (b) (4) is the most accurate tracker of shipment used as data source for all the Regions and Countries; US shipment data not available in the (b) (4) were taken from the (b) (4) (b) (4)

Table 1. Interval/Cumulative Estimated Shipped Doses of BNT162b2 by Region Worldwide

Region/Country/Other	% of Doses	Total Number of Shipped
		Doses

- . Please consider that in this Region BNT162b2 was conditionally approved;
- b. Please consider that in this Region BNT162b2 received authorisation for emergency supply;
- c. Includes: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan.

Table 2 provides the estimated interval/cumulative number of shipped doses of BNT162b2 from the receipt of the first conditional marketing authorisation approval through 31 December 2020 for the 27 European Countries and for the 3 of the European Free Trade Association.

Table 2. Interval/Cumulative Estimated Shipped Doses of BNT162b2 by EU Countries (30)

EU Country	Total Number of Shipped Doses
European Union (27)	
Austria	
Belgium	
Bulgaria	
Croatia	(b) (4)
Cyprus	
Czech Republic	
Denmark	
Estonia	
Finland	
France	
Germany	
Greece	
Hungary	
Ireland	
Italy	
Latvia	
Lithuania	
Luxembourg	
Malta	
Netherlands	
Poland	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
European Free Trade Association	
Iceland	
Liechtenstein	
Norway	

Table 2. Interval/Cumulative Estimated Shipped Doses of BNT162b2 by EU Countries (30)

EU Country	Total Number of Shipped Doses
Total	(b) (4)

6. DATA IN SUMMARY TABULATIONS

6.1. Reference Information

The MedDRA version 23.1 has been used to code adverse events/reactions in summary tabulations.

6.2 Cumulative and Interval Summary Tabulations from Post-Marketing Data Sources

Appendix 2 and Appendix 2.1 respectively provide interval and cumulative number of case reports (serious and non-serious, medically confirmed and non-medically confirmed) received from post-marketing data sources⁵, overall, by sex, country, age groups and in special populations.

The cumulative data include all data up to 31 December 2020 while the interval data are referred to the interval period from 01 December 2020 to 31 December 2020.

Appendix 2.2 provides an interval summary tabulation of case reports with DMEs from post-marketing data sources⁵.

Please refer to Appendices 2.3 and 2.4 for specific data stratified by country of incidence; in these appendices, data for spontaneous cases (including regulatory authority and literature cases) were presented separately from non-interventional sources.⁶ In details:

Appendix 2.3 provides a cumulative and interval summary tabulation of case reports organized as medically confirmed and non-medically confirmed (fatal, serious and non-serious).

Appendix 2.4 provides a cumulative and interval summary tabulation of fatal case reports.

Appendix 2.5⁷ and Appendix 2.6 provide a cumulative and interval summary tabulation of adverse drug reactions from post-marketing data sources⁵ respectively by PT and by HLT organized according to SOC. Please refer to Appendix 2.5.1 and Appendix 2.6.1 for specific data per country of incidence.

⁵ Correspond to post-EUA/conditional marketing authorisation approval data sources.

⁶ There were no cases from non-interventional sources during the current interval period.

⁷ Due to a technical formatting issue, 2 blank pages (page 5 and page 34) appear in this Appendix; the total data are however correctly displayed.

These tabulations in Appendix 2.5 and Appendix 2.6 include serious and non-serious adverse reactions from spontaneous sources, as well as serious adverse reactions from non-interventional studies and other non-interventional solicited sources⁶. Please note that adverse events totals presented in Appendix 2, Appendix 2.1 and for safety topic evaluations in Section 8.5 may differ from Appendix 2.5 and Appendix 2.6 adverse events totals, due to the fact that these Appendix 2.5 and Appendix 2.6 only display the number of serious and non-serious reactions from spontaneous sources, serious reactions from non-interventional studies and solicited sources as described above, whereas Appendix 2, Appendix 2.1 and the safety topic evaluation includes the total adverse events.

7. MEDICATION ERRORS

Cases potentially indicative of medication errors⁸ that occurred in the reporting period are summarized below.

- Number of cases: 323⁹ (8.9% of 3615 cases, the total PM dataset) of which 281 (87%) medically confirmed.
- Number of relevant medication error events: 473. 10
- Country of incidence: US (247), Israel (30), UK (23), Germany (12), Romania (6), Italy (3), Croatia and Poland (1 each).

⁸ MedDRA (version 23.1) Higher Level Terms: Accidental exposures to product; Product administration errors and issues; Product confusion errors and issues; Product dispensing errors and issues; Product label issues; Product monitoring errors and issues; Product preparation errors and issues; Product selection errors and issues; Product storage errors and issues in the product use system; Product transcribing errors and communication issues, OR Preferred Terms: Accidental poisoning: Circumstance or information capable of leading to device use error; Circumstance or information capable of leading to medication error; Contraindicated device used; Deprescribing error; Device use error; Dose calculation error; Drug titration error; Expired device used; Exposure via direct contact; Exposure via eye contact; Exposure via mucosa; Exposure via skin contact; Failure of child resistant product closure; Inadequate aseptic technique in use of product; Incorrect disposal of product; Intercepted medication error; Intercepted product prescribing error; Medication error; Multiple use of single-use product; Product advertising issue; Product distribution issue; Product prescribing error; Product prescribing issue; Product substitution error; Product temperature excursion issue; Product use in unapproved therapeutic environment; Radiation underdose; Underdose; Unintentional medical device removal; Unintentional use for unapproved indication; Vaccination error; Wrong device used; Wrong dosage form; Wrong dosage formulation; Wrong dose; Wrong drug; Wrong patient; Wrong product procured; Wrong product stored; Wrong rate; Wrong route; Wrong schedule; Wrong strength; Wrong technique in device usage process; Wrong technique in product usage process.

⁹ One (1) case from India reporting the PTs Product administered to patient of inappropriate age and Off label use has been excluded from the analysis in this section as no vaccine was shipped to India as of 31 December 2020. The case has been recoded after DLP with generic COVID-19 vaccine. This case appears in Appendix 2.3, Appendix 2.5 and Appendix 2.5.1.

¹⁰ This number of medication errors takes into account also the PT Incorrect route of product administration reported twice (one as serious and one as non-serious occurrence) in 1 case and the PT Product preparation error reported three times in another case (non-serious).

- Clusters of cases from the same reporter (mainly a health care professional) describing similar events in different individuals were reported in Germany (1 cluster of 8 cases), Israel (3 clusters of 5, 8 and 11 cases, respectively), the United Kingdom (2 clusters of 2 and 4 cases, respectively and 2 clusters of 3 cases each), the US (11 clusters, the largest one with 90 cases). In addition, information about multiple individuals (incorrect storage and vaccination to 105 individuals) was reported in a single German case.
- PTs indicative of medication errors: Poor quality product administered (136), Product temperature excursion issue (90), Circumstance or information capable of leading to medication error and Wrong technique in product usage process (37 each), Product preparation error (28), Incorrect route of product administration and Underdose (27), Accidental overdose (25), Product preparation issue (13), Product administered at inappropriate site (11), Inappropriate schedule of product administration (7), Accidental underdose and Incorrect dose administered (6 each), Accidental exposure to product and Product label confusion (4 each), Exposure via skin contact, Product prescribing error and Product storage error (2 each), Counterfeit product administered, Expired product administered, Exposure via eye contact, Medication error and Product administration error (1 each).
- Medication error seriousness: serious (7), non-serious (464)¹²; seriousness criteria were hospitalization (1 event) and important medical events (6 events); all serious events were medically confirmed.
- Case outcome: resolved/resolving (6, of which 2 serious), not resolved (28, of which 7 serious), unknown (289, of which 3 serious).
- Medication errors of special interest were:
 - a. The administration of undiluted vaccine (12 individuals):

Country	No. of Cases	Medication Error Analysis (Number of Events)	
US	4 (a1 through a4)	With harm	(6; Preparation 4, Administration 2)
Israel	1 (a5)	With harm – full undiluted vial	(1, Preparation)
US	6 (a6 through a11)	Without harm	(10; Preparation 6, Administration 4)
Israel	1 (a12)	Without harm	(1, Preparation)

b. The administration of a "full diluted vial" to an individual (8 individuals):

Country	No. of Cases	Medication Error Analysis (Number of Events)	
Germany	7 ¹³ (b1 through b7)	With harm	(7, Administration)
Germany	1 (b8)	Without harm	(1, Administration)

¹¹ After DLP, 1 case has been made invalid.

¹² In 1 case a medication error PT was reported twice, once as serious and once as non-serious occurrences.

¹³ An 8th case, after DLP, identified as duplicate of 1 of these 7 cases, has not been included.

Further details about these cases are available in the medication error analysis subsections.

Medication Errors Analysis

Among the medication error cases, the following scenarios, categorized according to the EMA guidance "Good practice guide on recording, coding, reporting and assessment of medication errors" (EMA/762563/2014) were encountered:

- Medication errors associated with harm [i.e., associated adverse reaction(s)] were reported in 17 cases;
- Medication errors without harm (without associated adverse reactions) were reported in 282 cases (in 59 of them there were co-reported AEs);
- Potential medication errors were reported in 24 cases.

Medication errors associated with harm (19 medication errors in 17 cases)

There were 12 individuals who were administered undiluted vaccine or who received an incorrect dosage, as detailed below and cross-referenced with medication errors of interest above.

Country/ Case Seriousness	No. of Cases	Volume of vaccine administered	Medication Error PTs	Associated Reaction(s)
US / Serious	a1	Unknown volume of undiluted vaccine	Product preparation error, Accidental overdose	Pain, Headache
Israel / Non- serious	a5	0.45 mL undiluted vaccine	Product preparation error	Overdose, Vaccination site pain, Vaccination site swelling, Vaccination site erythema, Vaccination site hypersensitivity
US / Serious	a2	0.3 mL undiluted vaccine	Product preparation issue	Feeling abnormal
US / Non- serious	a3	0.3 mL undiluted vaccine	Product preparation error, Incorrect dose administered	Blood pressure diastolic increased
US / Non- serious	a4	0.3 mL undiluted vaccine	Product preparation error	Pain, Fatigue, Overdose
Germany / Serious	b1	2.25 mL diluted vaccine	Accidental overdose	Headache, Asthenia, Pain, Asthenia
Germany / Serious	b2	2.25 mL diluted vaccine	Accidental overdose (Non- serious)	Vaccination site pain, Vaccination site swelling, Headache, Fatigue, Dyspnoea, Leukopenia
Germany / Non-serious	b3	2.25 mL diluted vaccine	Accidental overdose	Pyrexia, Pain in extremity, Headache, Dizziness
Germany / Non-serious	b4	2.25 mL diluted vaccine	Accidental overdose	Asthenia, Palpitations
Germany / Non-serious	b5	2.25 mL diluted vaccine	Accidental overdose	Headache, Vaccination site pain, Vaccination site swelling, Asthenia, Muscular weakness
Germany / Non-serious	b6	2.25 mL diluted vaccine	Accidental overdose	Agitation, Heart rate increased, Headache, Heart rate increased

Country/ Case Seriousness	No. of Cases	Volume of vaccine administered	Medication Error PTs	Associated Reaction(s)
Germany / Non-serious	b7	2.25 mL diluted vaccine	Accidental overdose	Vaccination site pain

In 5 cases the vaccine was not administered in the deltoid muscle (PT Product administered at inappropriate site, 5 all non-serious). The site of the vaccination was reported as "higher than normal" (2, and in 1 case "hit a nerve" was also specified), "into the subacromial space" (1), "under the shoulder bone" (1) and "right shoulder" (1). Associated non-serious reactions included: Burning sensation, Condition aggravated, Discomfort, Insomnia, Nerve injury, Vaccination site movement impairment, and Vaccination site pain (1 each).

Medication errors without harm (430 medication errors in 282 cases)

Four hundred thirty (430) medication errors without harm were reported in 282 cases. Medication errors PTs described errors occurring during 1 or more steps of the vaccination process: preparation, administration, or scheduling of second dose.

- Preparation (159 events all non-serious): events mainly described errors in storage conditions, during dilution before use, and presence of air bubbles in the vial.
 - Storage (94 events all non-serious): a cluster of 90 US non-serious cases referred to vaccine doses that had been through a temperature excursion; the 91st case described the administration of 105 doses after incorrect storage. The 92nd and 93rd cases described light signals on the shipping containers indicative of possible temperature excursion. In the 94th case, the vial was taken out of the fridge and heated in the hand for 30 seconds; it was unknown if the vaccine was administered. No lot/batch number were available for these cases.
 - O Dilution before use (35 events all non-serious): dilution was not performed (7 events, see table below and cross-referenced with medication errors of special interest above), or was performed either with a smaller volume of normal saline (15 events), or with a larger volume of normal saline (12 events) than instructed; in 2 cases, the total number of available doses after dilution in a single vial was less than 5.

Country/ Case Seriousness	No. of Cases	Volume of vaccine administered	Relevant Medication Error PTs (Underlined)
US / Non-serious	a6	Unknown volume of undiluted vaccine	Product preparation error, Accidental overdose
US / Non-serious	a7	Unknown volume of undiluted vaccine	Wrong technique in product usage process
US / Non-serious	a10	Unknown volume of undiluted vaccine	Overdose, <u>Product preparation error</u>
US / Non-serious (2 cases)	a8, a9	0.3 mL undiluted vaccine	Product preparation error, Accidental overdose
Israel / Non-serious	a12	0.3 mL undiluted vaccine	Product preparation error, Overdose
US / Non-serious	a11	0.45 mL undiluted vaccine	Accidental overdose, Product preparation error

- Presence of air bubbles (17 events all non-serious): air bubbles were noted in some vials; in some cases, due to the attempt to expel air a partial dose of vaccine was administered.
- *Vial inversion (3 events)*: inversion of the vial prior to dilution was not performed in accordance to instructions.
- Other preparation errors (10 events).
- Administration (268 events, 2 of which were serious): events mainly described errors in administration of vaccine after it had been through a temperature excursion, errors in the volume administered, error in route of administration, errors in the dosage of vaccine administered, and poor quality of vaccine administered due to the presence of particles after dilution.
 - O Administration after temperature excursion (93 events all non-serious): a cluster of 90 US non-serious cases referred to vaccine doses that had been administered after being through a temperature excursion. Additionally, a reporter described the administration of 3 doses from a vial (lot EJ1688) which had been through a temperature excursion.
 - o *Errors in the volume administered (31 events all non-serious)*: partial doses were administered due to leakage, presence of air bubbles, syringe or needle malfunction.
 - o Errors in the vaccine dosage (29 events all non-serious): depending on the amount of volume of normal saline used during dilution, errors in dosages were reported (less volume of normal saline than recommended led to higher concentration [18 events] or larger volume of normal saline than recommended led to lower concentration [6 events]), other errors in dosage including administration of a dose which was 5 times the recommended dose to single individuals (5 events, see table below and cross-referenced with medication errors of special interest above).

Country/ Case Seriousness	No. of Cases	Volume of vaccine administered	Relevant Medication Error PTs (Underlined)
US / Non-serious	а6	Unknown volume of undiluted vaccine	Product preparation error, <u>Accidental</u> overdose
US / Non-serious (2 cases)	a8, a9	0.3 mL undiluted vaccine	Product preparation error, <u>Accidental</u> overdose
US / Non-serious	a11	0.45 mL undiluted vaccine	Accidental overdose, Product preparation error
Germany / Non- serious	b8	2.25 mL diluted vaccine	Accidental overdose

- Errors in the route of administration (28 events, of which 1 serious): in 23 of the events the vaccine was administered subcutaneously¹⁴; in the remaining 5 it was administered parenterally without any further detail (2) or other than intramuscularly in the remaining ones (2, "in the sub acromial space, bumped her acromion", no further details were available for the second case).
- O Presence of particles¹⁵ in the vial after dilution (18 events, of which 1 serious¹⁶): the majority of the cases originated from Israel with 2 clusters of 8 and 5 cases respectively [when available (9), the lot/batch was EK4175]; 2 cases originated from the UK [lot/batch was EJ0553].
- O Vaccination site not in the deltoid muscle (9 events all non-serious). The vaccination site was reported "slightly off the muscle" (2), acromioclavicular joint area/subacromial space (2), as "not in the deltoid muscle" (1), "in the arm" (1), "in scapular space" (1), in the triceps (1), and "behind the deltoid muscle in the adipose/subcutaneous tissue" (1).
- Accidental exposure and presence of air bubbles (7 events each all non-serious).
- Other administration errors (46 events): including a 3-year-old girl (Section 8.5.4, Use in Paediatric Individuals <16 Years of Age) and 27 events which described a number of doses different from 5 from each reconstituted vial. In 7 cases (8 events), originated from Italy (3), Croatia, Poland, UK and US (1 each), 6 doses were administered from a vial; among the remaining 19 events, despite dilution being performed with the correct volume (1.8 mL) of normal saline, only 4 doses were drawn from the vial (2 clusters of 4 cases each from UK and US and 1 cluster of 11 cases from Israel).
- Scheduling (3 events all non-serious): the second dose of the vaccine was either administered on the same day (1st case) or in 5 days (2nd), while the second dose was not administered at the 21st day and appointment was not yet scheduled (3rd case).

Potential medication errors (24 medication errors in 24 cases)

Twenty-four (24) potential medication errors were reported in 24 cases and described mainly potential errors in scheduling the date for the administration of the second dose (14 events). Two (2) events referred to the recommended number of inversions of the vial (1)¹⁷ and the presence of air bubbles (1); and the use of the vaccine in populations with haematological

¹⁴ In 1 case the PT Incorrect route of product administration (serious), was assessed as non-serious following review assessment.

¹⁵ Products complaints were reported in 14 cases.

¹⁶ PT Poor quality product administered.

¹⁷ The EU SmPC states to gently invert the vial containing the Pfizer BioNTech COVID-19 Vaccine 10 times to mix.

diseases, with immunomodulating medications, in immunocompromised persons, in pregnant women, or possible interactions (8 events).

No new significant safety information was identified based on review of the medication error cases.

8. SIGNAL AND RISK EVALUATION

8.1. Literature Review

Please refer to Appendix 6 for a summary description of the interval literature review that is performed for the purpose of signal detection. There were no relevant literature results retrieved for the purpose of the signal detection for BNT162b2 during the reporting interval.

8.2. Overview of Signals During the Reporting Interval: New, Ongoing, or Closed

New signals detected for BNT162b2 during the reporting interval are presented below in Table 3 along with the ongoing signals and signals closed during the reporting interval.

Table 3. Overview of Signals

Signal	Signal Type	Source	Category
Hypersensitivity (not anaphylaxis)	New and ongoing	HA request (EMA)	Not yet determined ^a
Insomnia	New and ongoing	HA request (EMA)	Not yet determined ^a
Injection site pruritus	New and ongoing	HA request (EMA)	Not yet determined ^a
Pain in extremity	New and ongoing	HA request (EMA)	Not yet determined ^a
Anaphylaxis	New and closed	HAs request (EMA and FDA)	Important Identified Risk
Malaise	New and closed	Unblinded clinical study data review	Identified Risk (Not Important)
Facial paralysis	New and ongoing	Initially opened and closed following review of unblinded clinical study data (C4591001) (DLP 14 Nov 2020) Re-opened due to HA request (EMA)	Not yet determined ^a
Injection site redness	Closed	Unblinded clinical study data review	Identified Risk (Not Important)
Vomiting	Closed	Unblinded clinical study data review	No Risk
Nausea	Closed	Unblinded clinical study data review	Identified Risk (Not Important)
Injection Site Swelling	Closed	Unblinded clinical study data review	Identified Risk (Not Important)

Table 3. Overview of Signals

Signal	Signal Type	Source	Category
Diarrhoea	Closed	Unblinded clinical study data	No Risk
		review	

a. It was considered as an Identified Risk (Not Important) and included in the EU SmPC as adverse reaction in Section 4.8 at the request of the EMA at the time of conditional approval of the vaccine. The relevant signal is still currently undergoing evaluation to determine if it will be included as an adverse reaction also in the EUA PI and CDS.

Appendix 3 provides a summary of the safety signals that were new, ongoing, or closed during the reporting interval. Please refer to Appendix 3.1 for evaluation of signals during the reporting interval.

8.3. Summary of Safety Concerns

Table 4 summarises the important risks and missing information for BNT162b2.

Table 4. Ongoing Safety Concerns

Important Identified Risk	Anaphylaxis ^{a,d}
Important Potential Risk	Vaccine-Associated Enhanced Disease (VAED), Including Vaccine-Associated Enhanced Respiratory Disease (VAERD) ^b
Missing Information	Use in Pregnancy and While Breast Feeding ^b
	Use in Immunocompromised Patients ^a
	Use in Frail Patients With Co-Morbidities (e.g. COPD, Diabetes,
	Chronic Neurological Disease, Cardiovascular disorders) ^a
	Use in Patients With Autoimmune or Inflammatory Disorders ^a
	Interaction With Other Vaccines ^a
	Long-Term Safety Data ^a
	Use in Paediatric Individuals <16 Years of Age ^c
	Vaccine Effectiveness ^c

- a. As per the EU RMP Version 1.0, dated 21 December 2020;
- b. As per both the EU RMP Version 1.0, dated 21 December 2020 and the US PVP, Version 0.2, dated 05 December 2020;
- c. As per the US PVP, Version 0.2, dated 05 December 2020;
- d. The US PVP is being updated to include Anaphylaxis as an Important identified risk.

8.4. Summary of Adverse Events of Special Interest (AESIs)

Please refer to Appendix 5 for the list of the company's AESIs for BNT162b2. Please refer to Appendix 5.1 for the observed versus expected analysis for AESIs.

This list takes into consideration the lists of AESIs from the following expert groups and regulatory authorities: Brighton Collaboration (SPEAC), ACCESS protocol, US CDC (preliminary list of AESI for VAERS surveillance), MHRA (unpublished guideline).

The AESI terms are incorporated into a TME list and include events of interest due to their association with severe COVID-19 and terms of interest for vaccines in general.

The AESI list includes MedDRA PTs, HLTs, HLGTs or MedDRA SMQs and can be altered as directed by adverse events reports and the evolving safety profile of the vaccine.

8.5. Evaluation of Risks and New Information

Evaluation of new information collected from post-marketing data sources⁵ for BNT162b2 during the reporting period for previously recognised important identified and important potential risks, missing information, AESIs and special situations is provided below in Section 8.5.1, Section 8.5.2, Section 8.5.3 and Section 8.5.4, respectively.

8.5.1. Evaluation of Important Identified and Important Potential Risks

Table 5 below presents the evaluation of new information received during the current reporting period from post-marketing data sources⁵ for the important identified and important potential risks of BNT162b2.

Table 5. Risks Evaluation for BNT162b2

Safety Risk	Post-Marketing Cases Evaluation ^a Total Number of Cases in the Reporting Period (N=3615)
Important Identified Risk	
Anaphylaxis ^{b,d}	 Number of potentially relevant cases from the Anaphylactic reaction SMQ (Broad and Narrow) search strategy: 824 (22.8% of the total PM dataset), of which 613 were medically confirmed and 211 were non-medically confirmed; Number of potentially relevant events: 1245; Country of incidence: US (573), UK (224), Israel (8), Germany and Mexico (3 each), Canada and Romania (2 each) and Afghanistanh, Greece, Hungary, Portugal, Puerto Rico, Qatar, Spain, Sweden and Switzerland (1 each); Most frequently reported relevant PTs (≥2%): Pruritus (146), Rash (127), Dyspnoea (120), Cough (100), Urticaria (93), Flushing (90), Erythema (76), Chest discomfort (60), Throat tightness (38), Swelling face (37), Anaphylactic reaction (32), Lip swelling and Rash erythematous (31 each), Swollen tongue (27), Pharyngeal swelling and Swelling (26 each), Wheezing (20), Eye swelling (19) and Rash pruritic (17); Relevant event seriousness: serious (314), non-serious (931); Relevant event outcome^f: fatal (3), resolved/resolving (603), resolved with sequelae (31), not resolved (259), unknown (350). Two out of the 3 patients who died (for both, relevant fatal PT Cardiac arrest) were frail patients with multiple co-morbidities (see Table 8, Use in Frail Patients With Co-morbidities); for the remaining patient, limited information was provided preventing a meaningful medical assessment. Number of potentially relevant cases retrieved using the Anaphylaxis SMQ (Narrow) search strategy: 43 [relevant PTs Anaphylactic reaction (32), Anaphylactoid reaction (5), Anaphylactic shock (4), Circulatory collapse and Shock symptoms (1 each)]. Of note 13 out of these 43 patients were

Table 5. Risks Evaluation for BNT162b2

Safety Risk	Post-Marketing Cases Evaluation ^a	
	Total Number of Cases in the Reporting Period (N=3615)	
	allergic individuals with relevant medical histories of asthma, anaphylactic or anaphylactoid reaction, or hypersensitivity (seasonal, to drug or to contrast media); 2 of them also previously had COVID-19/suspected COVID-19.	
	Anaphylaxis is included as adverse reaction in Section 4.8 of the EU SmPC and is to be added as an adverse reaction to the EUA PI and CDS. It is also included as an Important identified risk in the EU RMP and is being added to the US PVP as an Important identified risk based on previous evaluation of cases using the Brighton Collaboration criteria for case assessment. Based upon review of the available information, no additional change to the RSIs is warranted at this time.	
	No new significant safety information was identified based on a review of these cases.	
Important Potential Risk		
Vaccine-Associated Enhanced Disease (VAED) Including Vaccine-Associated Enhanced Respiratory Disease (VAERD) ^{e,e}	As noted by the Brighton Collaboration, there is currently no uniformly accepted definition of VAED (or VAERD) and the working group considers that a definitive case of VAED (Level 1 diagnostic certainty) cannot be ascertained with current knowledge of the mechanisms of pathogenesis of the condition. ¹⁸ Given this, identifying an individual case as VAED/VAERD is currently impractical and an expected rate of VAED is difficult to establish and a meaningful observed/expected analysis cannot be conducted at this point based on available data. The feasibility of conducting such an analysis will be re-evaluated on an ongoing basis. The search criteria utilised to identify potential cases of VAED for this SMSR included terms noted in the VAED data capture aid and which take into account the clinical parameters considered of relevance to the condition.	
	 Number of cases based on search strategy: 4 (0.1% of the total PM dataset), all medically confirmed and serious^g; Country of incidence: US (4); Patient's Gender: female (1), males (3); Patients' Age: 35 to 56 years (n = 4), mean = 41.8, median = 38; Respiratory system involvement [relevant events coded to PTs Dyspnoea (4) and Hypoxia (1)] in all these cases; in 1 patient also Gastrointestinal system involvement (relevant PT Diarrhoea) was co-reported; Case outcome: not resolved (4). Three out of these 4 cases involved COVID-19 positive patients who experienced mild symptoms after short latency (respectively: 7 hours, 48 hours and 1 week after the vaccination). The remaining patient, a 	

¹⁸ Flor M Munoz, et al. Vaccine-associated Enhanced Disease: Case Definition and Guidelines for Data Collection, Analysis, and Presentation of Immunization Safety Data. Brighton Collaboration. September 2020, Vaccine Journal Draft Manuscript.

Table 5. Risks Evaluation for BNT162b2

Safety Risk	Post-Marketing Cases Evaluation ^a
	Total Number of Cases in the Reporting Period (N=3615)
	35-year-old male, exhibited severe symptoms within less than 24 hours after receiving the vaccine and was hospitalized moving to ICU 2 days later with an O ₂ saturation of 80%. CT scan showed extensive infiltration in the lungs; COVID test was positive.
	Because VAED may present as severe or unusual clinical manifestations of the known disease presentation, cases resulting from the search strategy are reviewed in this context. There is one case of a 35-year-old man who received 1 dose of vaccine and within 24 hours had symptoms of severe COVID-19. The patient did not receive the recommended 2 doses at least 21 days apart for maximum protection and therefore cannot be regarded as a vaccination failure. Additionally, this single case cannot be regarded as evidence for VAED/VAERD, particularly given the short latency between vaccination and COVID-19 symptoms and proposed immunological mechanisms for VAED/VAERD. Surveillance for this potential risk will continue.
	No new significant safety information was identified based on a review of these cases.

- a. Please note that this corresponds to evidence from post-EUA/conditional marketing authorisation approval data sources;
- b. As per the EU RMP Version 1.0, dated 21 December 2020;
- c. As per both the EU RMP Version 1.0, dated 21 December 2020 and the US PVP, Version 0.2, dated 05 December 2020;
- d. Search criteria: Anaphylactic reaction (SMQ Narrow and Broad);
- e. Search criteria: Standard Decreased Therapeutic Response Search AND PTs Dyspnoea; Tachypnoea; Hypoxia; COVID 19 pneumonia; Respiratory Failure; Acute Respiratory Distress Syndrome; Cardiac Failure; Cardiogenic shock; Acute myocardial infarction; Arrhythmia; Myocarditis; Vomiting; Diarrhoea; Abdominal pain; Jaundice; Acute hepatic failure; Deep vein thrombosis; Pulmonary embolism; Peripheral Ischaemia; Vasculitis; Shock; Acute kidney injury; Renal failure; Altered state of consciousness; Seizure; Encephalopathy; Meningitis; Cerebrovascular accident; Thrombocytopenia; Disseminated intravascular coagulation; Chillblains; Erythema multiforme; Multiple organ dysfunction syndrome; Multisystem inflammatory syndrome in children;
- dysfunction syndrome; Multisystem inflammatory syndrome in children; f. Please consider that a double episode of Flushing was reported with different clinical outcomes in 1 case
- hence the sum of the event outcomes exceeds the total number of PT events; g. One of the cases initially entered in the safety database as non-serious was upgraded to serious after DLP;
- h. The patient was vaccinated in the US.

8.5.2. Evaluation of AESIs

Table 6 below presents the evaluation of new information received during the current reporting period from post-marketing data sources⁵ with regard to the AESIs for BNT162b2. Where applicable, observed versus expected analysis is provided in Appendix 5.1.

Table 6. AESIs Evaluation for BNT162b2

AESIs ^a Category	Post-Marketing Cases Evaluation ^f Total Number of Cases in the Reporting Period (N=3615)
Anaphylactic Reactions Search criteria: Anaphylactic reaction SMQ (Narrow and Broad)	For relevant cases, please refer to the Risk 'Anaphylaxis' in Table 5.
Cardiovascular AESIs Search criteria: PTs Acute myocardial infarction; Arrhythmia; Cardiac failure; Cardiac failure acute; Cardiogenic shock; Coronary artery disease; Myocardial infarction; Postural orthostatic tachycardia syndrome; Stress cardiomyopathy; Tachycardia	 Number of cases: 85 (2.4% of the total PM dataset), of which 76 medically confirmed and 9 non-medically confirmed; Country of incidence: US (55), UK (26), Germany, Greece, Israel and Puerto Rico (1 each); Number of relevant events: 85, of which 24 serious, 61 non-serious; Reported relevant PTs: Tachycardia (78); Acute myocardial infarction, Arrhythmia and Myocardial infarction (2 each) and Cardiac failure (1); Relevant event onset latency (n = 69): Range from <24 hours to 4 days; Relevant event outcome: fatal (2), resolved/resolving (53), resolved with sequelae (1), not resolved (7) and unknown (22).
Covid-19 AESIs	No new significant safety information was identified based on a review of these cases. • Number of cases: 195 (5.4% of the total PM dataset), of which 151
Search criteria: Covid-19 SMQ (Narrow and Broad)	 medically confirmed and 44 non-medically confirmed; Country of incidence: US (172), UK (19), Bulgaria, Canada, Israel and Slovakia (1 each); Number of relevant events: 202, of which 97 serious, 105 non-serious; Most frequently reported relevant PTs (>1 occurrence): SARS-CoV-2 test positive (89), COVID-19 (71), Exposure to SARS-CoV-2 and Suspected COVID-19 (11 each), Coronavirus test positive (5), Coronavirus infection (4), Asymptomatic COVID-19 and SARS-CoV-2 antibody test positive (3 each) and SARS-CoV-2 test negative (2); Relevant event onset latency (n = 112): Range from <24 hours to 22 days, median 4.5 days; Relevant event outcome: not resolved (21), resolved/resolving (6) and unknown (175). No new significant safety information was identified based on a review of these cases.
Dermatological AESIs Search criteria: PT Chillblains	No cases.
Haematological AESIs Search criteria: Leukopenias NEC (HLT) (Primary Path) OR	 Number of cases: 3 (0.08% of the total PM dataset), of which 2 medically confirmed and 1 non-medically confirmed; Country of incidence: US (2) and Germany (1);

Table 6. AESIs Evaluation for BNT162b2

AESIs ^a Category	Post-Marketing Cases Evaluation ^f Total Number of Cases in the Reporting Period (N=3615)
Neutropenias (HLT) (Primary Path) OR PTs Haemorrhage; Haemorrhagic disorder; Thrombocytopenia	 Number of relevant events: 3, of which 1 serious, 2 non-serious; Reported relevant PTs: Haemorrhage (2) and Leukopenia (1); Relevant event onset latency (n = 3): Range from <24 hours to 2 days; Relevant event outcome: not resolved (2), and unknown (1). No new significant safety information was identified based on a review of these cases.
Hepatic AESIs Search criteria: Liver related investigations, signs and symptoms (SMQ) (Narrow and Broad) OR PT Liver Injury	 Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; Country of incidence: US; Number of relevant events: 1 non-serious event (relevant PT: Hepatic pain), occurred within 24 hours since vaccine administration, with outcome of resolving. No new significant safety information was identified based on a review
Facial Paralysis Search criteria: PT Facial Paralysis	 of this case. Number of cases: 21° (0.6% of the total PM dataset), of which 11 medically confirmed and 10 non-medically confirmed; Country of incidence: US (14), Germany and UK (2 each) and Afghanistanh, Canada and Israel (1 each); Number of events: 21, of which 14 serious, 7 non-serious; Relevant reported LLTs which encoded to the PT: Facial paralysis (21) were: Bell's palsy (13), Facial droop and Facial paralysis (3 each), Palsy Bells (2 each) and Facial palsy (1); there was 1 case reporting 2 different LLTs that coded to the same PT Facial paralysis; In all the cases, paralysis was unilateral; Relevant event onset latency (n = 13): Range from <24 hours to 10 days; Relevant event outcome: not resolved (7), resolved/resolving (4), resolved with sequelae (1) and unknown (9).
Immune-Mediated/Autoimmune	Please see Appendix 5.1 for Observed versus Expected analysis of Facial paralysis. An evaluation of facial paralysis events using the Brighton Collaboration criteria for individual case assessment is ongoing.
AESIs ^g Search criteria: Immune- mediated/autoimmune disorders (SMQ) (Broad and Narrow) OR Autoimmune disorders HLGT (Primary Path) OR PTs Cytokine release syndrome; Cytokine storm; Hypersensitivity	 Number of cases: 91 (2.5% of the total PM dataset), of which 68 medically confirmed and 23 non-medically confirmed; Country of incidence: US (59), UK (25), Israel and Mexico (2 each) and Bulgaria, Canada and Portugal (1 each); Number of events: 92, of which 27 serious, 65 non-serious; Most frequently reported relevant PTs (>1 occurrence): Hypersensitivity (42), Anosmia (31) and Autoimmune disorder, Facial paresis and Pericarditis* (2 each); Relevant event onset latency (n = 61): Range from <24 hours to 8 days, median 1 day; Relevant event outcome: resolved/resolving (31), resolved with sequelae (2), not resolved (24) and unknown (35).

Table 6. AESIs Evaluation for BNT162b2

AESIs ^a Category	Post-Marketing Cases Evaluation ^f Total Number of Cases in the Beneuting Paried (N=2615)
	* Observed/Expected analysis performed for Pericarditis. No new significant safety information was identified based on a review of these cases and of the Observed versus Expected analysis (see Appendix 5.1).
Musculoskeletal AESIs Search criteria: PTs Arthralgia; Arthritis; Chronic fatigue syndrome; Polyarthritis; Polyneuropathy; Post viral fatigue syndrome	 Number of cases: 205 (5.7% of the total PM dataset), of which 145 medically confirmed and 60 non-medically confirmed; Country of incidence: US (141), UK (60), Puerto Rico (2), Israel and Poland (1 each); Number of relevant events: 205, of which 27 serious, 178 non-serious; Reported relevant PTs: Arthralgia (203) and Arthritis and Chronic fatigue syndrome (1 each); Relevant event onset latency (n = 155): Range from <24 hours to 31 days, median 1 day; Relevant event outcomed: resolved/resolving (79), resolved with sequelae (5), not resolved (71), and unknown (52).
	No new significant safety information was identified based on a review of these cases.
Neurological AESIs (including demyelination) Search criteria: Convulsions (SMQ) (Broad and Narrow) OR Demyelination (SMQ) (Broad and Narrow) OR PTs Ataxia; Cataplexy; Cerebrovascular accident; Fibromyalgia; Intracranial pressure increased; Meningitis; Meningitis aseptic; Narcolepsy	 Number of cases: 18 (0.5% of the total PM dataset), of which 13 medically confirmed and 5 non-medically confirmed; Country of incidence: US (9), UK (5), Germany (3) and Mexico (1); Number of relevant events: 22, of which 18 serious, 4 non-serious; Most frequently reported relevant PTs (>1 occurrence) included: Seizure* (6), Cerebrovascular accident* (5) and Epilepsy, Generalised tonic-clonic seizure and Guillain-Barre syndrome* (2 each); Relevant event onset latency (n = 18): Range from <24 hours to 6 days; In 4 cases, the patient's medical history was relevant for Generalised tonic-clonic seizure (2), Cataplexy, Epilepsy and Familial risk factor (1 each). There was 1 case reporting 2 relevant medical history terms; Relevant events outcome: resolved/resolving (7), resolved with sequelae (3), not resolved (4) and unknown (8). * Observed/Expected analysis performed for seizure, stroke and Guillain-Barre syndrome. No new significant safety information was identified based on a review of these cases and of the Observed versus Expected analysis (see Appendix 5.1).
Other AESIs Search criteria: Herpes viral infections (HLT) (Primary Path) OR PTs Adverse event following immunisation; Ageusia; Inflammation; Manufacturing laboratory analytical testing issue; Manufacturing materials issue; Manufacturing production issue; MERS-CoV test; MERS-CoV test	 Number of cases: 552 (15.3% of the total PM dataset), of which 379 medically confirmed and 173 non-medically confirmed; Country of incidence: US (402), UK (138), Canada, Israel and Puerto Rico (2 each) and Bulgaria, Chile, Germany, Italy, Oman and Poland (1 each); Number of relevant events: 563, of which 76 serious, 487 non-serious;

Table 6. AESIs Evaluation for BNT162b2

**Most frequently reported relevant PTs (>1 occurrence) included: Pyrexia (503), Ageusia (30), Herpes zoster and Oral herpes (9) each), Inflammation (7) and Herpes virus infection (2); occupational exposure to communicable disease; Patient isolation; Product availability sissue; Product distribution issue; Product distribution issue; Product supply issue; Pyrexia; Quarantine; SMRS-CoV-1 test; SMRS-CoV-1 test negative; SARS-CoV-1 test negative; SARS-CoV-1 test negative; SARS-CoV-1 test negative; SARS-CoV-1 test positive pregnancy Related AESIs Search criteria: PTs Ammiotic cavity infection. Caesarean section: Congenital anomaly; Death neonatal; Eclampsia; Poetal distress syndrome; Low birth weight baby; Maternal exposure during pregnancy; Placenta praevia: Pre-eclampsia; Permature labour; Stillbirth; Uterine rupture; Vasa praevia Renal AESIs Search criteria: Lower respiratory tract infections NEC (HLI) (Primary Path) OR PTs: Acute respiratory) tract infections (HLI) (Primary Path) OR PTs: Acute respiratory tract infections (HLI) (Primary Path) OR PTs: Acute respiratory tract infections (HLI) (Primary Path) OR PTs: Acute respiratory disorder; Severe acute respiratory disorder; Severe acute respiratory Mispoxia; Pulmonary haemorrhage; Respiratory disorder; Severe acute respiratory sundramed introvascular coagulation; Embolism; tembolism and thrombosis (HLGT) (Primary Path) OR PTs Deep vein thrombosts) (BLGT) (Primary Path) (Prim	AESIs ^a Category	Post-Marketing Cases Evaluation ^f Total Number of Cases in the Reporting Period (N=3615)
For relevant cases, please refer to the subsection Use in Pregnancy and While Breast Feeding in Table 8. Search criteria: PTs Ammiotic cavity infection; Caesarean section; Congenital anomaly; Death neonatal; Eclampsia; Foetal distress syndrome; Low birth weight baby; Maternal exposure during pregnancy; Placenta praevia; Pre-eclampsia; Premature labour; Stillbirth; Uterine rupture; Vasa praevia No cases.	Middle East respiratory syndrome; Multiple organ dysfunction syndrome; Occupational exposure to communicable disease; Patient isolation; Product availability issue; Product distribution issue; Product supply issue; Pyrexia; Quarantine; SARS-CoV-1 test; SARS-CoV-1 test negative; SARS-	 Most frequently reported relevant PTs (>1 occurrence) included: Pyrexia (503), Ageusia (30), Herpes zoster and Oral herpes (9 each), Inflammation (7) and Herpes virus infection (2); Relevant event onset latency (n = 416): Range from <24 hours to 31 days, median 1 day; Relevant events outcome^e: resolved/resolving (249), resolved with sequelae (2), not resolved (143) and unknown (171). No new significant safety information was identified based on a review
Search criteria: PTs Acute kidney injury; Renal failure. Respiratory AESIs Search criteria: Lower respiratory tract infections NEC (HLT) (Primary Path) OR Respiratory failures (excl neonatal) (HLT) (Primary Path) OR Viral lower respiratory tract infections (HLT) (Primary Path) OR PTs: Acute respiratory distress syndrome; Endotracheal intubation; Hypoxia; Pulmonary haemorrhage; Respiratory disorder; Severe acute respiratory syndrome Thromboembolic Events Search criteria: Embolism and thrombosis (HLGT) (Primary Path) OR PTs Deep vein thrombosis; Disseminated intravascular coagulation; Embolism; Embolism venous; Pulmonary embolism Number of cases: 2 cases (0.06% of the total PM dataset) medically confirmed; Country of incidence: US; Number of relevant events: 2 serious events (relevant PT: Hypoxia), with onset latency respectively of <24 hours and 3 days, both with outcome of not resolved. One of these 2 cases was also reviewed among the potential relevant cases for the Risk 'VAED Including VAERD' in Table 5. No new significant safety information was identified based on a review of these cases: 1 case (0.03% of the total PM dataset), medically confirmed; Country of incidence: US; No new significant events: 1 serious event (relevant PT: Pulmonary embolism), with onset latency of 3 days and outcome of unknown. No new significant safety information was identified based on a review of this case.	Pregnancy Related AESIs Search criteria: PTs Amniotic cavity infection; Caesarean section; Congenital anomaly; Death neonatal; Eclampsia; Foetal distress syndrome; Low birth weight baby; Maternal exposure during pregnancy; Placenta praevia; Pre-eclampsia; Premature labour; Stillbirth;	
Search criteria: Lower respiratory tract infections NEC (HLT) (Primary Path) OR Respiratory failures (excl neonatal) (HLT) (Primary Path) OR Viral lower respiratory tract infections (HLT) (Primary Path) OR Viral lower respiratory tract infections (HLT) (Primary Path) OR PTs: Acute respiratory distress syndrome; Endotracheal intubation; Hypoxia; Pulmonary haemorrhage; Respiratory disorder; Severe acute respiratory syndrome Thromboembolic Events Search criteria: Embolism and thrombosis (HLGT) (Primary Path) OR PTs Deep vein thrombosis; Disseminated intravascular coagulation; Embolism; Embolism venous; Pulmonary embolism Number of cases: 2 cases (0.06% of the total PM dataset) Country of incidence: US; Number of relevant events: 2 serious events (relevant PT: Hypoxia), with onset latency respectively of <24 hours and 3 days, both with outcome of not resolved. One of these 2 cases was also reviewed among the potential relevant cases for the Risk 'VAED Including VAERD' in Table 5. No new significant safety information was identified based on a review of these cases. • Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; • Country of incidence: US; • Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; • Country of incidence: US; • Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; • Country of incidence: US; • Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; • Country of incidence: US; • Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; • Number of cases: 1 case (0.03% of the total PM dataset) and the properties of the Risk 'VAED of these cases.	Renal AESIs Search criteria: PTs Acute kidney	No cases.
 Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; Country of incidence: US; Number of relevant events: 1 serious event (relevant PT: Pulmonary embolism; Embolism venous; Pulmonary embolism Number of cases: 1 case (0.03% of the total PM dataset), medically confirmed; Country of incidence: US; Number of relevant events: 1 serious event (relevant PT: Pulmonary embolism), with onset latency of 3 days and outcome of unknown. 	Respiratory AESIs Search criteria: Lower respiratory tract infections NEC (HLT) (Primary Path) OR Respiratory failures (excl neonatal) (HLT) (Primary Path) OR Viral lower respiratory tract infections (HLT) (Primary Path) OR PTs: Acute respiratory distress syndrome; Endotracheal intubation; Hypoxia; Pulmonary haemorrhage; Respiratory disorder; Severe acute respiratory	 medically confirmed; Country of incidence: US; Number of relevant events: 2 serious events (relevant PT: Hypoxia), with onset latency respectively of <24 hours and 3 days, both with outcome of not resolved. One of these 2 cases was also reviewed among the potential relevant cases for the Risk 'VAED Including VAERD' in Table 5. No new significant safety information was identified based on a review
of this case.	Search criteria: Embolism and thrombosis (HLGT) (Primary Path) OR PTs Deep vein thrombosis; Disseminated intravascular coagulation;	 medically confirmed; Country of incidence: US; Number of relevant events: 1 serious event (relevant PT: Pulmonary embolism), with onset latency of 3 days and outcome
		of this case.

Table 6.	AESIS	Evaluation	for	BNT162b2	

AESIs ^a Category	Post-Marketing Cases Evaluation ^f
	Total Number of Cases in the Reporting Period (N=3615)
Search criteria: Vasculitides HLT	
(Primary Path) OR PTs	
Kawasaki's disease;	
Microangiopathy; Peripheral	
ischaemia	

- a. For the complete list of the AESIs, please refer to Appendix 5;
- b. An additional case reporting the PT Congenital anomaly has been excluded from the analysis since reevaluated upon review as invalid due to no adverse event; the case was accordingly invalidated in the safety database after DLP. In 5 additional cases the PT Maternal exposure during pregnancy was captured after DLP, please refer to Table 8, *Use in Pregnancy and While Breast Feeding*;
- c. Two additional cases reporting the PT Facial paralysis have been excluded from the analysis since re-evaluated upon review as invalid as the reporter had no first-hand knowledge of the event; the cases were accordingly invalidated in the safety database after DLP;
- d. A double episode of Arthralgia was reported with different clinical outcome in 2 cases hence the sum of the events outcome exceeds the total number of PT events;
- e. A double episode of Pyrexia was reported with different clinical outcome in 2 cases hence the sum of the events outcome exceeds the total number of PT events;
- f. Please note that this corresponds to evidence from post-EUA/conditional marketing authorisation approval data sources;
- g. Cases reporting the PT Guillain-Barre syndrome overlapping in this category were described in the Neurological category;
- h. The patient was vaccinated in the US.

8.5.3. Evaluation of Special Situations

Table 7 below presents the evaluation of new information received during the current reporting period from post-marketing data sources⁵ for BNT162b2 in relation to special situations (Death, Lack of Efficacy and Vaccine Interactions).

Table 7. Evaluation of Special Situations for BNT162b2

Topic	Post-Marketing Cases Evaluation ^a
	Total Number of Cases in the Reporting Period (N=3615)
Death	 Number of Cases in the Reporting Period (N=3615) Number of fatal cases: 10 (0.3% of the total PM dataset) of which 7 were medically confirmed and 3 non-medically confirmed; Country of incidence: Israel (3), UK and US (2 each) and Cyprus, Sweden and Switzerland (1 each); Patient's Gender: females (3), males (4), unknown (3); Patients' Age: 41 to 95 years (n = 8), mean = 74.3, median = 79; Adults (3), Elderly (7); Relevant causes of death: Death (5), Cardiac arrest (3), Cardiac failure, Diarrhoea and Myocardial infarction (1 each); for 1 patient both Cardiac arrest and Cardiac failure were reported as causes of death; Out of 10 cases: 5 cases involved frail patients with co-morbidities (4) and an immunocompromised patient (1) (see also Table 8, respective subsections); 1 case involved a 63-year-old male patient treated with atenolol and
	chlorthalidone due to underlying hypertension who died due to myocardial
	infarction;

Table 7. Evaluation of Special Situations for BNT162b2

Topic	Post-Marketing Cases Evaluation ^a
Lack of Efficacy	Total Number of Cases in the Reporting Period (N=3615) 4 cases in which a meaningful assessment was precluded by the limited information provided (cause of death was unknown in 3 cases, while diarrhea with unknown onset latency and fatal outcome was reported in the remaining case). Please see Appendix 5.1 for Observed versus Expected analysis of Death. No new significant safety information was identified based on a review of these cases and of the Observed versus Expected analysis (see Appendix 5.1). Number of cases: 134 (3.7%) of which 105 were medically confirmed and 29 non-medically confirmed; Country of incidence: US (118), UK (14), Canada and Israel (1 each); Case outcome: resolved/resolving (8), not resolved (25) and unknown (101); There were 55 cases in which physicians, pharmacists, nurses and hospital workers reported about themselves; Number of lack of efficacy events: 134; PTs indicative of lack of therapeutic efficacy included: Drug ineffective (132), Therapeutic product ineffective and Vaccination failure (1 each); Lack of efficacy seriousness: serious (91), non-serious (43) ²¹ ; seriousness criterion was important medical event (91), hospitalization (2) and life-threatening, disability or permanent damage (1 each); there were 73 serious events medically confirmed; Lack of efficacy term was reported in 69 cases after the 1st dose of the vaccine, while in the remaining cases it was unknown after which dose the lack of efficacy was reported. According to the EU SmPC and EUA PI, individuals may not be fully
	reported. According to the EU SmPC and EUA PI, individuals may not be fully protected until 7 days after their second dose of vaccine, therefore for the above 69 cases, the reported events may represent signs and symptoms of intercurrent and not earlier diagnosed COVID-19 infection or infection in an individual who has not become immune due to an incomplete vaccination regimen rather than vaccine ineffectiveness;
	 Latency of the events was known for 83 events: 66 patients were COVID-19 positive within the 7th day after vaccination (in 38 cases after the 1st dose); 14 patients were COVID-19 positive from 8 to 13 days after the 1st dose of the vaccine; in the last 3 cases, individuals were COVID positive at the 8th and 9th day after vaccination (dose number unknown).
	No new significant safety information was identified based on a review of these cases.
Vaccine Interactions	 Number of cases: 1 (0.03%) serious and medically confirmed, involving a 33-year-old female patient; Country of incidence: UK;

¹⁹ As per case processing procedure, in the vaccine lack of effect cases, the reported vaccine preventable illness (e.g., Covid-19 infection) and the Lack of effect term (Drug Ineffective) are linked and dates, outcomes and listedness, are the same for both events. So, outcome refers to the recovery from the vaccine preventable illness.

²⁰ After DLP, the 2 PTs Therapeutic product ineffective and Vaccination failure were recoded as Drug ineffective.

²¹ Event seriousness of PTs indicative of possible lack of therapeutic effect captured at the DLP, was upgraded to serious as per case processing convention at completion of the case.

Table 7. Evaluation of Special Situations for BNT162b2

Topic	Post-Marketing Cases Evaluation ^a
	Total Number of Cases in the Reporting Period (N=3615)
	Relevant reported interaction PT: Alcohol interaction;
	Co-reported events coded to the PTs: Diarrhoea, Headache;
	Case outcome: not resolved.
	No new significant safety information was identified based on a review of this case.

a. Please note that this corresponds to evidence from post-EUA/conditional marketing authorisation approval data sources.

8.5.4. Evaluation of Missing Information

Table 8 below summarises the evaluation of new information received during the current reporting period from post-marketing data sources⁵ in relation to the Missing information associated with the use of BNT162b2.

Table 8. Evaluation of Missing Information for BNT162b2

Missing Information	Post-Marketing Cases Evaluation ^a
	Total Number of Cases in the Reporting Period (N=3615)
Use in Pregnancy and While Breast Feeding ^b	 Number of cases: 67^k (1.9% of the total PM dataset) of which 42 medically confirmed and 25 non-medically confirmed; Country of incidence: US (62), Israel (3) and Portugal and UK (1 each). Pregnancy cases: 28 cases including: 26 cases indicative of exposure to vaccine during pregnancy [relevant PT events Maternal exposure during pregnancy (21), Exposure during pregnancy (3) and Maternal exposure timing unspecified (2)^l], of which: 17 cases reporting exposure in utero only without the occurrence of any clinical event; 9 cases, all non-serious, reporting overall 12 additional clinical events, which occurred in the vaccinated mothers; these events encoded to the PTs Vaccination site pain (4), Headache and Pain in extremity (2 each), Bloody discharge, Myalgia, Pain and Rhinorrhoea (1 each); 2 additional cases reporting off-label prescription to pregnant women (vaccine not administered yet).
	Breast Feeding baby cases: 39, of which: • 35 cases reporting exposure to vaccine during breastfeeding without the occurrence of any clinical event; • 4 cases, all non-serious, reporting overall 12 additional clinical events occurred, all as single occurrences, in the patients exposed to vaccine via breastfeeding; these events encoded to the PTs: Abdominal discomfort, Decreased appetite, Hypersensitivity, Illness, Infantile vomiting, Infant irritability, Insomnia, Irritability, Lethargy, Pyrexia, Rash and Vomiting. No new significant safety information was identified based on a review of these
	cases.
Use in Immunocompromised Patients ^{c,e,h}	 Number of cases: 61 (1.7% of the total PM dataset) of which 42 were medically confirmed and 19 non-medically confirmed; Case Seriousness: Serious (11), Non-Serious (50);

Table 8. Evaluation of Missing Information for BNT162b2

•	Country of incidence: US (43), UK (14), Israel (2), Canada and Puerto Rico (1
	each);

- Gender: Females (50) and Males (11);
- Age (n = 58) ranged from 23 to 88 years, mean = 53.2, median = 55.5;
- Relevant patients' medical histories most frequently reported (>2 cases) coded to the PTs: Breast cancer (13), Radiotherapy (7), Thyroidectomy, Prostate cancer, Chemotherapy, Breast conserving surgery and Breast cancer female (4 each) and Neoplasm malignant, Immunodeficiency, Hysterectomy and Cervix carcinoma (3 each);
- Of the 279 clinical events overall reported, the most frequent (>2 occurrences) coded to the PTs: Headache (19), Nausea and Pyrexia (14 each), Chills and Fatigue (12 each), Pain and Pain in extremity (10 each), Malaise (8), Arthralgia and Myalgia (7 each), Cough and Dizziness (6 each), Flushing and Oropharyngeal pain (5 each), Asthenia, Chest discomfort, Heart rate increased, Lymphadenopathy and Vomiting (4 each), Dysgeusia, Throat tightness and Vaccination site pain (3 each);
- Case outcome: fatal (1, see Table 7, *Death*), resolved/resolving (22), resolved with sequelae (2), not resolved (23), unknown (13).
- The fatal case involved a 61-year-old male patient who died due to an unknown cause of death 4 days after having received the vaccine. Of note the patient, a very heavy smoker for almost 50 years, with medical history of emphysema and tumor resection in the bladder, did not have any complaints in the days following the vaccination.

Overall, the review of these cases did not reveal any new safety information in immunocompromised patients that has not been identified in the overall population.

Use in Patients With Autoimmune or Inflammatory Disorders^{c,f,h}

- Number of cases: 235 (6.5% of the total PM dataset) of which 180 were medically confirmed and 55 non-medically confirmed;
- Case Seriousness: Serious (55), Non-Serious (180);
- Country of incidence: US (181), UK (48), Puerto Rico (2), Hungary, Mexico, Portugal and United Arab Emirates (1 each);
- Gender: Females (207), Males (26) and Unknown (2);
- Age (n = 227) ranged from 22 to 93 years, mean = 46.3, median = 47;
- Relevant patients' medical histories most frequently reported (>4 cases) coded to the PTs: Hypothyroidism (69), Rheumatoid arthritis (22), Autoimmune thyroiditis (17), Arthritis (16), Colitis ulcerative (11), Psoriasis and Type 1 diabetes mellitus (10 each), Coeliac disease (9), Multiple sclerosis, Chron's disease and Thyroid disorder (8 each), Raynaud's phenomenon (7) and Autoimmune disorder, Basedow's disease, Hyperthyroidism and Psoriatic arthropathy (5 each);
- Of the 1005 events overall reported, the most frequent (>20 occurrences) coded to the PTs: Headache (68), Fatigue (43), Pyrexia (42), Nausea (35), Chills (33), Dizziness (32), Myalgia (29), Arthralgia and Pain (28), Pain in extremity (27) and Vaccination site pain (26);
- Case outcome: resolved/resolving (127), resolved with sequelae (2), not resolved (78) and unknown (28).

Overall, the review of these cases did not reveal any new safety information in patients with autoimmune or inflammatory disorders that has not been identified in the overall population.

Table 8. Evaluation of Missing Information for BNT162b2

 Use in Frail Patients With Co-morbidities (e.g. COPD, Number of cases: 274 (7.6% of the total PM dataset) of which 197 were medically confirmed and 77 non-medically confirmed; Case Seriousness: Serious (69), Non-Serious (205); 	
 Diabetes, Chronic Neurological Disease, Cardiovascular Disorders)^{e,g,h} Gender: Females (211), Males (61) and Unknown (2); Age (n = 269) ranged from 3 to 93 years, mean = 48.8, median = 49; Relevant patients' medical histories most frequently reported (>4 cases) to the PTs: Asthma (157), Diabetes mellitus (55), Type 2 diabetes mellitus (COPD (7), Dementia and Chronic kidney disease (6 each) and Pulmonate embolism (5); Of the 1182 events overall reported, the most frequent (>20 occurrences to the PTs: Headache (77), Fatigue (59), Chills, Nausea and Pyrexia (46 Vaccination site pain (35), Dizziness (32), Myalgia, Pain and Pain extret (28 each), Malaise (27), Arthralgia (23) and Diarrhoea (21); Case outcome: fatal (4, see Table 7 Death and Table 5 Anaphylaxis), resolved/resolving (130), resolved with sequelae (6), not resolved (92) a unknown (42); Fatal cases involved: A 41-year-old female patient with severe cardiac and pulmonate history who died due to cardiac arrest; A 74-year-old male patient with medical history of heart attack active heart disease and malignancy who died due to cardiac arrest; Two elderly female patients respectively of 84 years and of 91 with medical history of dementia who died due to an unknown of death. 	coded cus (26), ry) coded each), mity nd ry ss, rrest and
Overall, the review of these cases did not reveal any new safety information	
patients with co-morbidities that has not been identified in the overall popular	
Interaction With Other Vaccines ^c There were no cases reporting an interaction with other vaccines during the r interval (please refer to Table 7, <i>Vaccine Interactions</i>).	eporting
Other Vaccines ^c interval (please refer to Table 7, <i>Vaccine Interactions</i>). Long-Term Safety Not applicable	
Data ^c Not applicable	
 Use in Paediatric Individuals <16 Years of Age^d Number of cases: 3 (0.08% of the total PM dataset), all medically confir and indicative of erroneous administration in paediatric subjects <16 Ye Age (relevant PT Product administered to patient of inappropriate ageⁱ, section 7 Medication Errors); Country of incidence: UK (2) and US (1). Cases Seriousness: Serious (1), Non-Serious (2); Gender: Females (3); Patients' Age: 22 months, 3 years and 4 years; Eight events overall co-reported, all as single occurrences, encoded to P 	ars of see
Abdominal pain upper, Fatigue, Feeling of body temperature change, Fleedaache, Malaise, Pruritus, Vaginal infection; Case outcome: resolved/resolving (2) and not resolved (1). No new significant safety information was identified based on a review of these	
Headache, Malaise, Pruritus, Vaginal infection; • Case outcome: resolved/resolving (2) and not resolved (1).	

a. Please note that this corresponds to evidence from post-EUA/conditional marketing authorisation approval data sources;

Table 8. Evaluation of Missing Information for BNT162b2

- b. Missing information as per both the EU-RMP Version 1.0, dated 21 December 2020 and the US PVP, Version 0.2, dated 05 December 2020;
- c. Missing information as per the EU-RMP Version 1.0, dated 21 December 2020;
- d. Missing information as per the US PVP, Version 0.2, dated 05 December 2020;
- e. Search criteria: Patients with Medical history of PTs included in SMQ Malignancy related conditions (Narrow and Broad); SMQ Malignancy related therapeutic and diagnostic procedures; SMQ Malignant or unspecified tumours; HLGT Immunodeficiency syndromes (Primary Path); HLT Retroviral infections (Primary Path); or of PTs Heart transplant; Pancreas islet cell transplant; Small intestine transplant; Allogenic bone marrow transplantation therapy; Allogenic stem cell transplantation; Autologous bone marrow transplantation therapy; Autologous haematopoietic stem cell transplant; Cord blood transplant therapy; Bone marrow transplant; Stem cell transplant; Liver transplant; Renal transplant; Lung transplant;
- f. Search Criteria: Patients with Medical history of PTs included in HLGT Autoimmune disorders (Primary Path); Immune disorders NEC (Primary Path); in HLT Neuromuscular junction dysfunction (Primary Path); in SMQ Immune-mediated/autoimmune disorders (Narrow and Broad);
- g. Search Criteria: Patients with Medical history of PTs included in HLGTs (Primary Path when applicable) Bronchial disorders (excl neoplasms), Heart failures, Mental impairment disorders, Movement disorders (incl parkinsonism), Nephropathies, Pulmonary vascular disorders and Renal disorders (excl nephropathies) and in HLTs (Primary Path when applicable) Autonomic nervous system disorders, Diabetes mellitus (incl subtypes), Hepatic failure and associated disorders, Hepatic fibrosis and cirrhosis, Motor neurone diseases, Muscle tone abnormal, Neuromuscular disorders NEC, Pulmonary hypertensions, Respiratory failures (excl. neonatal);
- h. One hundred and thirty-three cases, retrieved applying the established Search criteria but overlapping among the 3 different categories (Immunocompromised, Autoimmune/Inflammatory, Frail Patients with Comorbidities), were discussed only once in the category for which they were evaluated to be more consistent;
- i. Appropriate Medication Error PT Product administered to patient of inappropriate age added in 2 out of these 3 cases after DLP;
- j. In 2 cases the appropriate PT Exposure via breast milk was coded after the DLP in place of the initial incorrectly coded PT Foetal exposure timing unspecified;
- k. An additional case reporting the PT Congenital anomaly has been excluded from the analysis since reevaluated upon review as invalid due to no adverse event; the case was accordingly invalidated in the safety database after DLP.
- l. All the events indicative of vaccine exposure during pregnancy (Exposure during pregnancy and Maternal exposure timing unspecified) were re-coded to the unique PT Maternal exposure during pregnancy in the safety database after DLP.

9. OVERALL BENEFIT-RISK EVALUATION

9.1. Benefits

BNT162b2 is indicated for active immunisation to prevent COVID-19 caused by SARS-CoV-2 virus, in individuals 16 years of age and older.

In the Phase 2/3 portion, approximately 44,000 participants were randomised equally and were to receive 2 doses of COVID-19 mRNA Vaccine or placebo (normal saline) separated by 21 days. The efficacy analyses included participants that received their second vaccination within 19 to 42 days after their first vaccination. Participants are planned to be followed for up to 24 months after Dose 2, for assessments of safety and efficacy against COVID-19.

The population for the analysis of the primary efficacy endpoint included 36,621 participants 12 years of age and older (18,242 in the COVID-19 mRNA Vaccine group and 18,379 in the placebo group) who did not have evidence of prior infection with SARS-CoV-2 through 7 days after the second dose. In addition, 134 participants were between the ages of 16 to 17 years of age (66 in the COVID-19 mRNA Vaccine group and 68 in the placebo group) and 1616 participants 75 years of age and older (804 in the COVID-19 mRNA Vaccine group and 812 in the placebo group).

At the time of the primary efficacy analysis, participants had been followed for symptomatic COVID-19 for in total 2,214 person-years for the COVID-19 mRNA Vaccine and in total 2,222 person-years in the placebo group. There were no meaningful clinical differences in overall vaccine efficacy in participants who were at risk of severe COVID-19 including those with 1 or more comorbidities that increase the risk of severe COVID-19 (e.g. asthma, body mass index (BMI) \geq 30 kg/m2, chronic pulmonary disease, diabetes mellitus, hypertension).

The vaccine efficacy information is presented in Table 9.

Table 9. Vaccine efficacy – First COVID-19 occurrence from 7 days after Dose 2, by age subgroup – participants without evidence of infection prior to 7 days after Dose 2 – evaluable efficacy (7 days) population

First COVID-19 occ	currence from 7 days after prior SARS-Co		without evidence of
Subgroup	COVID-19 mRNA Vaccine N ^a = 18,198 Cases $n1^b$ Surveillance time ^c $(n2^d)$	Placebo $N^a = 18,325$ Cases $n1^b$ Surveillance time ^c $(n2^d)$	Vaccine efficacy % (95% CI) ^f
All subjects ^e	8 2.214 (17,411)	162 2.222 (17,511)	95.0 (90.0, 97.9)
16 to 64 years	7 1.706 (13,549)	143 1.710 (13,618)	95.1 (89.6, 98.1)
65 years and older	1 0.508 (3848)	19 0.511 (3880)	94.7 (66.7, 99.9)
65 to 74 years	1 0.406 (3074)	14 0.406 (3095)	92.9 (53.1, 99.8)
75 years and older	0 0.102 (774)	5 0.106 (785)	100.0 (-13.1, 100.0)

Note: Confirmed cases were determined by Reverse Transcription-Polymerase Chain Reaction (RT-PCR) and at least 1 symptom consistent with COVID-19 [*Case definition: (at least 1 of) fever, new or increased cough, new or increased shortness of breath, chills, new or increased muscle pain, new loss of taste or smell, sore throat, diarrhoea or vomiting.]

- * Participants who had no serological or virological evidence (prior to 7 days after receipt of the last dose) of past SARS-CoV-2 infection (i.e., N-binding antibody [serum] negative at Visit 1 and SARS-CoV-2 not detected by nucleic acid amplification tests (NAAT) [nasal swab] at Visits 1 and 2), and had negative NAAT (nasal swab) at any unscheduled visit prior to 7 days after Dose 2 were included in the analysis.
- a. N = number of participants in the specified group.
- b. n1 = Number of participants meeting the endpoint definition.
- c. Total surveillance time in 1000 person-years for the given endpoint across all subjects within each group at risk for the endpoint. Time period for COVID-19 case accrual is from 7 days after Dose 2 to the end of the surveillance period.
- d. n2 = Number of subjects at risk for the endpoint.
- e. No confirmed cases were identified in participants 12 to 15 years of age.
- f. Confidence interval (CI) for vaccine efficacy is derived based on the Clopper and Pearson method adjusted to the surveillance time. CI not adjusted for multiplicity.

In the second primary analysis, compared to placebo, efficacy of COVID-19 mRNA Vaccine in participants from first COVID-19 occurrence from 7 days after Dose 2 compared to participants with or without evidence of prior infection with SARS-CoV-2 was 94.6% (95% credible interval of 89.9% to 97.3%) in participants 16 years of age and older.

Additionally, subgroup analyses of the primary efficacy endpoint showed similar efficacy point estimates across genders, racial and ethnic groups, and participants with medical comorbidities associated with high risk of severe COVID-19.

9.2. Risks

An assessment of the important risks, identified and potential, was performed using the following data sources: post-EUA/conditional marketing authorisation approval experience, and literature as applicable. Interval findings are summarized in Table 5. A review of signals identified, evaluated, closed and ongoing was presented (see Table 3, Appendix 3 and Appendix 3.1).

Based on pharmacovigilance monitoring activities, since first authorisation, anaphylaxis has been recognised as an important identified risk. Facial paralysis, pain in extremity, insomnia, injection site pruritus and hypersensitivity (less severe than anaphylaxis) were included as Identified Risks (not important) in the EU SmPC as adverse reactions in Section 4.8 at the request of the EMA at the time of conditional approval of the vaccine; the relevant signals are currently undergoing evaluation to determine if they will be included as adverse reactions in the EUA PI and CDS.

Based on all available safety and efficacy data for BNT162b2 the benefit-risk profile of the vaccine remains favorable.

9.3. Overall Benefit-Risk

The identified risks associated with the use of BNT162b2 are minimized through provision of relevant product information in the RSI to support safe use of the product. Risks have been evaluated in the context of the enumerated benefits of the product. Based on the available safety and efficacy data for BNT162b2, the overall benefit-risk profile of BNT162b2 remains favourable.

10. CONCLUSION AND ACTIONS

The MAH will continue to review the safety of BNT162b2, including all reports of adverse experiences and will revise the product documents if an evaluation of the safety data yields significant new information.

ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS

This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. NAME OF THE MEDICINAL PRODUCT

Comirnaty concentrate for dispersion for injection COVID-19 mRNA Vaccine (nucleoside modified)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

This is a multidose vial and must be diluted before use.

One vial (0.45 mL) contains 5 doses of 0.3 mL after dilution.

1 dose (0.3 mL) contains 30 micrograms of COVID-19 mRNA Vaccine (embedded in lipid nanoparticles).

Single-stranded, 5'-capped messenger RNA (mRNA) produced using a cell-free *in vitro* transcription from the corresponding DNA templates, encoding the viral spike (S) protein of SARS-CoV-2.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate for dispersion for injection (sterile concentrate). The vaccine is a white to off-white frozen dispersion (pH: 6.9 - 7.9).

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Comirnaty is indicated for active immunisation to prevent COVID-19 caused by SARS-CoV-2 virus, in individuals 16 years of age and older.

The use of this vaccine should be in accordance with official recommendations.

4.2 Posology and method of administration

Posology

Individuals 16 years of age and older

Comirnaty is administered intramuscularly after dilution as a course of 2 doses (0.3 mL each) at least 21 days apart (see sections 4.4 and 5.1).

There are no data available on the interchangeability of Comirnaty with other COVID-19 vaccines to complete the vaccination course. Individuals who have received 1 dose of Comirnaty should receive a second dose of Comirnaty to complete the vaccination course.

Paediatric population

The safety and efficacy of Comirnaty in children and adolescents aged less than 16 years of age have not yet been established. Limited data are available.

Elderly population

No dosage adjustment is required in elderly individuals \geq 65 years of age.

Method of administration

Comirnaty should be administered intramuscularly.

The preferred site is the deltoid muscle of the upper arm.

Do not inject the vaccine intravascularly, subcutaneously or intradermally.

The vaccine should not be mixed in the same syringe with any other vaccines or medicinal products.

For precautions to be taken before administering the vaccine, see section 4.4.

For instructions regarding thawing, handling and disposal of the vaccine, see section 6.6.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

General recommendations

Hypersensitivity and anaphylaxis

Events of anaphylaxis have been reported. Appropriate medical treatment and supervision should always be readily available in case of an anaphylactic reaction following the administration of the vaccine.

Close observation for at least 15 minutes is recommended following vaccination. A second dose of the vaccine should not be given to those who have experienced anaphylaxis to the first dose of Comirnaty.

Anxiety-related reactions

Anxiety-related reactions, including vasovagal reactions (syncope), hyperventilation or stress-related reactions may occur in association with vaccination as a psychogenic response to the needle injection. It is important that precautions are in place to avoid injury from fainting.

Concurrent illness

Vaccination should be postponed in individuals suffering from acute severe febrile illness or acute infection. The presence of a minor infection and/or low-grade fever should not delay vaccination.

Thrombocytopenia and coagulation disorders

As with other intramuscular injections, the vaccine should be given with caution in individuals receiving anticoagulant therapy or those with thrombocytopenia or any coagulation disorder (such as haemophilia) because bleeding or bruising may occur following an intramuscular administration in these individuals.

Immunocompromised individuals

The efficacy, safety and immunogenicity of the vaccine has not been assessed in immunocompromised individuals, including those receiving immunosuppressant therapy. The efficacy of Comimaty may be lower in immunosuppressed individuals.

Duration of protection

The duration of protection afforded by the vaccine is unknown as it is still being determined by ongoing clinical trials.

Limitations of vaccine effectiveness

As with any vaccine, vaccination with Comirnaty may not protect all vaccine recipients. Individuals may not be fully protected until 7 days after their second dose of vaccine.

Excipients:

This vaccine contains less than 1 mmol potassium (39 mg) per dose, that is to say essentially 'potassium-free'.

This vaccine contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

No interaction studies have been performed.

Concomitant administration of Comirnaty with other vaccines has not been studied.

4.6 Fertility, pregnancy and lactation

Pregnancy

There is limited experience with use of Comirnaty in pregnant women. Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryo/foetal development, parturition or post-natal development (see section 5.3). Administration of Comirnaty in pregnancy should only be considered when the potential benefits outweigh any potential risks for the mother and foetus.

Breast-feeding

It is unknown whether Comirnaty is excreted in human milk.

Fertility

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3)

4.7 Effects on ability to drive and use machines

Comirnaty has no or negligible influence on the ability to drive and use machines. However, some of the effects mentioned under section 4.8 may temporarily affect the ability to drive or use machines.

4.8 Undesirable effects

Summary of safety profile

The safety of Comirnaty was evaluated in participants 16 years of age and older in 2 clinical studies that included 21,744 participants that have received at least one dose of Comirnaty.

In Study 2, a total of 21,720 participants 16 years of age or older received at least 1 dose of Comirnaty and a total of 21,728 participants 16 years of age or older received placebo (including 138 and 145 adolescents 16 and 17 years of age in the vaccine and placebo groups, respectively). A total of 20,519 participants 16 years of age or older received 2 doses of Comirnaty.

At the time of the analysis of Study 2, a total of 19,067 (9,531 Comirnaty and 9,536 placebo) participants 16 years of age or older were evaluated for safety for at least 2 months after the second dose of Comirnaty. This included a total of 10,727 (5,350 Comirnaty and 5,377 placebo) participants 16 to 55 years of age and a total of 8,340 (4,181 Comirnaty and 4,159 placebo) participants 56 years and older.

The most frequent adverse reactions in participants 16 years of age and older were injection site pain (> 80%), fatigue (> 60%), headache (> 50%), myalgia and chills (> 30%), arthralgia (> 20%), pyrexia and injection site swelling (> 10%) and were usually mild or moderate in intensity and resolved within a few days after vaccination. A slightly lower frequency of reactogenicity events was associated with greater age.

Tabulated list of adverse reactions from clinical studies

Adverse reactions observed during clinical studies are listed below according to the following frequency categories:

Very common ($\geq 1/10$), Common ($\geq 1/100$ to < 1/10), Uncommon ($\geq 1/1,000$ to < 1/100), Rare ($\geq 1/10,000$ to < 1/1,000), Very rare (< 1/10,000), Not known (cannot be estimated from the available data).

Table 1: Adverse reactions from Comirnaty clinical trials

System Organ Class	Very common (≥ 1/10)	Common (≥ 1/100 to < 1/10)	Uncommon (≥ 1/1,000 to < 1/100)	Rare (≥ 1/10,000 to < 1/1,000)	Not known (cannot be estimated from the available data)
Blood and lymphatic system disorders			Lymphadenopathy		
Immune system disorders					Anaphylaxis; hypersensitivity
Psychiatric disorders			Insomnia		

System Organ Class	Very common (≥ 1/10)	Common (≥ 1/100 to < 1/10)	Uncommon (≥ 1/1,000 to < 1/100)	Rare (≥ 1/10,000 to < 1/1,000)	Not known (cannot be estimated from the available data)
Nervous system disorders	Headache			Acute peripheral facial paralysis [†]	
Gastrointestinal disorders		Nausea			
Musculoskeletal and connective tissue disorders	Arthralgia; myalgia		Pain in extremity		
General disorders and administration site conditions	Injection site pain; fatigue; chills; pyrexia*; injection site swelling	Injection site redness	Malaise; injection site pruritus		

^{*}A higher frequency of pyrexia was observed after the 2nd dose.

The safety profile in 545 subjects receiving Comirnaty, that were seropositive for SARS-CoV-2 at baseline, was similar to that seen in the general population.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V and include batch/Lot number if available.

4.9 Overdose

Overdose data is available from 52 study participants included in the clinical trial that due to an error in dilution received 58 micrograms of Comirnaty. The vaccine recipients did not report an increase in reactogenicity or adverse reactions.

In the event of overdose, monitoring of vital functions and possible symptomatic treatment is recommended.

[†]Throughout the safety follow-up period to date, acute peripheral facial paralysis (or palsy) was reported by four participants in the COVID-19 mRNA Vaccine group. Onset was Day 37 after Dose 1 (participant did not receive Dose 2) and Days 3, 9, and 48 after Dose 2. No cases of acute peripheral facial paralysis (or palsy) were reported in the placebo group.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: vaccines, ATC code: J07BX

Mechanism of action

The nucleoside-modified messenger RNA in Comirnaty is formulated in lipid nanoparticles, which enable delivery of the non replicating RNA into host cells to direct transient expression of the SARS-CoV-2 S antigen. The mRNA codes for membrane-anchored, full-length S with two point mutations within the central helix. Mutation of these two amino acids to proline locks S in an antigenically preferred prefusion conformation. The vaccine elicits both neutralizing antibody and cellular immune responses to the spike (S) antigen, which may contribute to protection against COVID-19.

Efficacy

Study 2 is a multicentre, multinational, Phase 1/2/3 randomised, placebo-controlled, observer-blind dose-finding, vaccine candidate selection and efficacy study in participants 12 years of age and older. Randomisation was stratified by age: 12 through 15 years of age, 16 through 55 years of age, or 56 years of age and older, with a minimum of 40% of participants in the ≥ 56-year stratum. The study excluded participants who were immunocompromised and those who had previous clinical or microbiological diagnosis of COVID-19. Participants with pre-existing stable disease, defined as disease not requiring significant change in therapy or hospitalization for worsening disease during the 6 weeks before enrolment, were included as were participants with known stable infection with human immunodeficiency virus (HIV), hepatitis C virus (HCV) or hepatitis B virus (HBV). At the time of the analysis of Study 2, information presented is based on participants 16 years and older.

Efficacy in participants 16 years of age and older

In the Phase 2/3 portion, approximately 44,000 participants were randomised equally and were to receive 2 doses of COVID-19 mRNA Vaccine or placebo separated by 21 days. The efficacy analyses included participants that received their second vaccination within 19 to 42 days after their first vaccination. Participants are planned to be followed for up to 24 months after Dose 2, for assessments of safety and efficacy against COVID-19. In the clinical study, participants were required to observe a minimum interval of 14 days before and after administration of an influenza vaccine in order to receive either placebo or COVID-19 mRNA Vaccine. In the clinical study, participants were required to observe a minimum interval of 60 days before or after receipt of blood/plasma products or immunoglobulins within through conclusion of the study in order to receive either placebo or COVID-19 mRNA Vaccine.

The population for the analysis of the primary efficacy endpoint included, 36,621 participants 12 years of age and older (18,242 in the COVID-19 mRNA Vaccine group and 18,379 in the placebo group) who did not have evidence of prior infection with SARS-CoV-2 through 7 days after the second dose. In addition, 134 participants were between the ages of 16 to 17 years of age (66 in the COVID-19 mRNA Vaccine group and 68 in the placebo group) and 1616 participants 75 years of age and older (804 in the COVID-19 mRNA Vaccine group and 812 in the placebo group).

Efficacy against COVID-19

At the time of the primary efficacy analysis, participants had been followed for symptomatic COVID-19 for in total 2,214 person-years for the COVID-19 mRNA Vaccine and in total 2,222 person-years in the placebo group.

There were no meaningful clinical differences in overall vaccine efficacy in participants who were at risk of severe COVID-19 including those with 1 or more comorbidities that increase the risk of severe

COVID-19 (e.g. asthma, body mass index (BMI) \geq 30 kg/m², chronic pulmonary disease, diabetes mellitus, hypertension).

The vaccine efficacy information is presented in Table 2.

Table 2: Vaccine efficacy – First COVID-19 occurrence from 7 days after Dose 2, by age subgroup – participants without evidence of infection prior to 7 days after Dose 2 – evaluable efficacy (7 days) population

First COVID-19 occurrence from 7 days after Dose 2 in participants without evidence of prior					
	SARS-CoV-2 infection*				
	COVID-19 mRNA	Placebo			
	Vaccine				
	$N^a = 18,198$	$N^a = 18,325$	Vaccino offica ex		
Subgroup	Cases	Cases	Vaccine efficacy % (95% CI) ^f		
	n1 ^b	n1 ^b	70 (9370 C1) ²		
	Surveillance time ^c	Surveillance time ^c			
	$(n2^d)$	(n2 ^d)			
All subjects ^e	8	162	95.0 (90.0, 97.9)		
	2.214 (17,411)	2.222 (17,511)	93.0 (90.0, 97.9)		
16 to 64 years	7	143	95.1 (89.6, 98.1)		
· ·	1.706 (13,549)	1.710 (13,618)	93.1 (89.0, 98.1)		
65 years and older	1	19	94.7 (66.7, 99.9)		
·	0.508 (3848)	0.511 (3880)	94.7 (00.7, 99.9)		
65 to 74 years	1	14	92.9 (53.1, 99.8)		
	0.406 (3074)	0.406 (3095)	92.9 (33.1, 99.8)		
75 years and older	0	5	100.0 (-13.1, 100.0)		
	0.102 (774)	0.106 (785)			

Note: Confirmed cases were determined by Reverse Transcription-Polymerase Chain Reaction (RT-PCR) and at least 1 symptom consistent with COVID-19 [*Case definition: (at least 1 of) fever, new or increased cough, new or increased shortness of breath, chills, new or increased muscle pain, new loss of taste or smell, sore throat, diarrhoea or vomiting.]

- * Participants who had no serological or virological evidence (prior to 7 days after receipt of the last dose) of past SARS-CoV-2 infection (i.e., N-binding antibody [serum] negative at Visit 1 and SARS-CoV-2 not detected by nucleic acid amplification tests (NAAT) [nasal swab] at Visits 1 and 2), and had negative NAAT (nasal swab) at any unscheduled visit prior to 7 days after Dose 2 were included in the analysis.
- a. N = number of participants in the specified group.
- b. n1 = Number of participants meeting the endpoint definition.
- c. Total surveillance time in 1000 person-years for the given endpoint across all subjects within each group at risk for the endpoint. Time period for COVID-19 case accrual is from 7 days after Dose 2 to the end of the surveillance period.
- d. n2 = Number of subjects at risk for the endpoint.
- e. No confirmed cases were identified in participants 12 to 15 years of age.
- f. Confidence interval (CI) for vaccine efficacy is derived based on the Clopper and Pearson method adjusted to the surveillance time. CI not adjusted for multiplicity.

In the second primary analysis, compared to placebo, efficacy of COVID-19 mRNA Vaccine in participants from first COVID-19 occurrence from 7 days after Dose 2 compared to participants with or without evidence of prior infection with SARS-CoV-2 was 94.6% (95% credible interval of 89.9% to 97.3%) in participants 16 years of age and older.

Additionally, subgroup analyses of the primary efficacy endpoint showed similar efficacy point estimates across genders, racial and ethnic groups, and participants with medical comorbidities associated with high risk of severe COVID-19.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Comirnaty in the paediatric population in prevention of COVID-19 (see section 4.2 for information on paediatric use).

This medicinal product has been authorised under a so-called 'conditional approval' scheme. This means that further evidence on this medicinal product is awaited. The European Medicines Agency will review new information on this medicinal product at least every year and this SmPC will be updated as necessary.

5.2 Pharmacokinetic properties

Not applicable.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of repeat dose toxicity and reproductive and developmental toxicity.

General toxicity

Rats intramuscularly administered Comirnaty (receiving 3 full human doses once weekly, generating relatively higher levels in rats due to body weight differences) demonstrated some_injection site oedema and erythema and increases in white blood cells (including basophils and eosinophils) consistent with an inflammatory response as well as vacuolation of portal hepatocytes without evidence of liver injury. All effects were reversible.

Genotoxicity/Carcinogenicity

Neither genotoxicity nor carcinogenicity studies were performed. The components of the vaccine (lipids and mRNA) are not expected to have genotoxic potential.

Reproductive toxicity

Reproductive and developmental toxicity were investigated in rats in a combined fertility and developmental toxicity study where female rats were intramuscularly administered Comirnaty prior to mating and during gestation (receiving 4 full human doses that generate relatively higher levels in rat due to body weight differences, spanning between pre-mating day 21 and gestational day 20). SARS-CoV-2 neutralizing antibody responses were present in maternal animals from prior to mating to the end of the study on postnatal day 21 as well as in foetuses and offspring. There were no vaccine-related effects on female fertility, pregnancy, or embryo-foetal or offspring development. No Comirnaty data are available on vaccine placental transfer or excretion in milk.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

((4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate) (ALC-0315)

2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide (ALC-0159)

1,2-Distearoyl-sn-glycero-3-phosphocholine (DSPC)

Cholesterol

Potassium chloride

Potassium dihydrogen phosphate

Sodium chloride

Disodium phosphate dihydrate

Sucrose

Water for injections

6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 Shelf life

Unopened vial: 6 months at -90 °C to -60 °C'.

Once removed from the freezer, the unopened vaccine can be stored for up to 5 days at $2\,^{\circ}$ C to $8\,^{\circ}$ C, and up to 2 hours at temperatures up to $30\,^{\circ}$ C, prior to use.

Once thawed, the vaccine should not be re-frozen.

Closed-lid vial trays containing 195 vials removed from frozen storage (< -60 °C) may be at room temperature (< 25 °C) for up to 5 minutes for transfer between ultra-low-temperature environments. After vial trays are returned to frozen storage following room temperature exposure, they must remain in frozen storage for at least 2 hours before they can be removed again.

Diluted medicinal product

Chemical and physical in-use stability has been demonstrated for 6 hours at 2 $^{\circ}$ C to 30 $^{\circ}$ C after dilution in sodium chloride 9 mg/mL (0.9%) solution for injection. From a microbiological point of view, the product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

6.4 Special precautions for storage

Store in a freezer at -90 °C to -60 °C.

Store in the original package in order to protect from light.

During storage, minimise exposure to room light, and avoid exposure to direct sunlight and ultraviolet light.

Thawed vials can be handled in room light conditions.

When you are ready to thaw or use the vaccine

- Open-lid vial trays, or vial trays containing less than 195 vials removed from frozen storage (< -60 °C) may be at room temperature (< 25 °C) for up to 3 minutes to remove vials or for transfer between ultra-low-temperature environments.
- Once a vial is removed from the vial tray, it should be thawed for use.
- After vial trays are returned to frozen storage following room temperature exposure, they must remain in frozen storage for at least 2 hours before they can be removed again.

For storage conditions after thawing and dilution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

2 mL clear multidose vial (type I glass) with a stopper (synthetic bromobutyl rubber) and a flip-off plastic cap with aluminium seal. Each vial contains 5 doses.

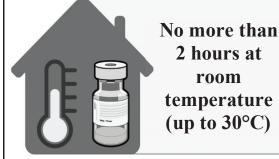
Pack size: 195 vials

6.6 Special precautions for disposal and other handling

Handling instructions

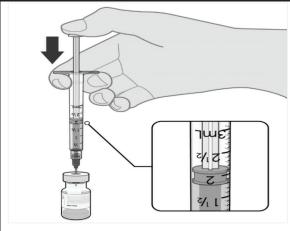
Comirnaty should be prepared by a healthcare professional using aseptic technique to ensure the sterility of the prepared dispersion.

THAWING PRIOR TO DILUTION



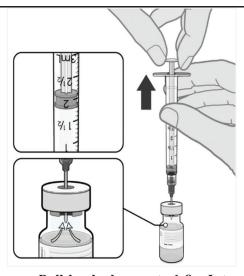
- The multidose vial is stored frozen and must be thawed prior to dilution. Frozen vials should be transferred to an environment of 2 °C to 8 °C to thaw; a 195 vial pack may take 3 hours to thaw. Alternatively, frozen vials may also be thawed for 30 minutes at temperatures up to 30 °C for immediate use.
- Allow the thawed vial to come to room temperature and gently invert it 10 times prior to dilution. Do not shake.
- Prior to dilution, the thawed dispersion may contain white to off-white opaque amorphous particles.

DILUTION



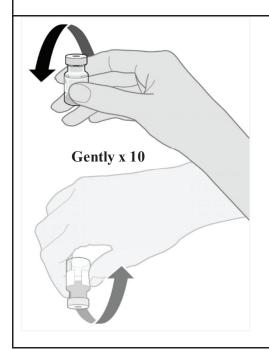
1.8 mL of 0.9% sodium chloride injection

 The thawed vaccine must be diluted in its original vial with 1.8 mL sodium chloride 9 mg/mL (0.9%) solution for injection, using a 21 gauge or narrower needle and aseptic techniques.



Pull back plunger to 1.8 mL to remove air from vial

• Equalise vial pressure before removing the needle from the vial stopper by withdrawing 1.8 mL air into the empty diluent syringe.



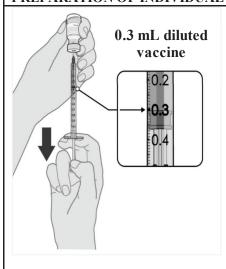
- Gently invert the diluted dispersion 10 times. Do not shake.
- The diluted vaccine should present as an off-white dispersion with no particulates visible. Discard the diluted vaccine if particulates or discolouration are present.



Record appropriate date and time. Use within 6 hours after dilution

- The diluted vials should be marked with the appropriate date and time.
- Do not freeze or shake the diluted dispersion. If refrigerated, allow the diluted dispersion to come to room temperature prior to use.

PREPARATION OF INDIVIDUAL 0.3 mL DOSES OF COMIRNATY



- After dilution, the vial contains
 2.25 mL corresponding to 5 doses of
 0.3 mL. Withdraw the required 0.3 mL dose of diluted vaccine using a sterile needle.
- Discard any unused vaccine within 6 hours after dilution.

Disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

BioNTech Manufacturing GmbH An der Goldgrube 12 55131 Mainz Germany Phone: +49 6131 90840

Fax: +49 6131 9084390 info@biontech.de

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1528

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: {DD month YYYY}

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.

ANNEX II

- A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCES AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
- E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION

A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCES AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers of the biological active substance(s)

BioNTech Manufacturing GmbH An der Goldgrube 12 55131 Mainz Germany

Rentschler Biopharma SE Erwin-Rentschler-Strasse 21 88471 Laupheim Germany

Wyeth BioPharma Division of Wyeth Pharmaceuticals LLC 1 Burtt Road Andover, MA 01810 USA

Name and address of the manufacturers responsible for batch release

BioNTech Manufacturing GmbH Kupferbergterrasse 17 - 19 55116 Mainz Germany

Pfizer Manufacturing Belgium NV Rijksweg 12 2870 Puurs Belgium

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

In view of the declared Public Health Emergency of International Concern and in order to ensure early supply this medicinal product is subject to a time-limited exemption allowing reliance on batch control testing conducted in the registered site(s) that are located in a third country. This exemption ceases to be valid on 31 August 2021. Implementation of EU based batch control arrangements, including the necessary variations to the terms of the marketing authorisation, has to be completed by 31 August 2021 at the latest, in line with the agreed plan for this transfer of testing. Progress reports have to be submitted on 31 March 2021 and included in the annual renewal application.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

• Official batch release

In accordance with Article 114 of Directive 2001/83/EC, the official batch release will be undertaken by a state laboratory or a laboratory designated for that purpose.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder (MAH) shall submit the first PSUR for this product within 6 months following authorisation.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk management plan (RMP)

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION

This being a conditional marketing authorisation and pursuant to Article 14-a of Regulation (EC) No 726/2004, the MAH shall complete, within the stated timeframe, the following measures:

Description	Due date
In order to complete the characterisation of the active substance and finished	July 2021.
product, the MAH should provide additional data.	Interim reports:
	31 March 2021
In order to ensure consistent product quality, the MAH should provide	July 2021.
additional information to enhance the control strategy, including the active	Interim reports:
substance and finished product specifications.	March 2021
In order to confirm the consistency of the finished product manufacturing process, the MAH should provide additional validation data.	March 2021
In order to confirm the purity profile and ensure comprehensive quality control	July 2021.
and batch-to-batch consistency throughout the lifecycle of the finished product,	Interim reports:
the MAH should provide additional information about the synthetic process and	January 2021,
control strategy for the excipient ALC-0315.	April 2021
In order to confirm the purity profile and ensure comprehensive quality control	July 2021.
and batch-to-batch consistency throughout the lifecycle of the finished product,	Interim reports:
the MAH should provide additional information about the synthetic process and	January 2021,
control strategy for the excipient ALC-0159.	April 2021

Description	Due date
In order to confirm the efficacy and safety of Comirnaty, the MAH should submit the final Clinical Study Report for the randomized, placebo-controlled,	December 2023
observer-blind study C4591001.	
·	

ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON BOX LABEL

1. NAME OF THE MEDICINAL PRODUCT

COMIRNATY concentrate for dispersion for injection COVID-19 mRNA Vaccine (nucleoside modified)

2. STATEMENT OF ACTIVE SUBSTANCE(S)

After dilution each vial contains 5 doses of 0.3 mL.

3. LIST OF EXCIPIENTS

Excipients: ALC-0315, ALC-0159, DSPC, cholesterol, potassium chloride, potassium dihydrogen phosphate, sodium chloride, disodium phosphate dihydrate, sucrose, water for injections

4. PHARMACEUTICAL FORM AND CONTENTS

Concentrate for dispersion for injection 195 multidose vials

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Intramuscular use after dilution. Read the package leaflet before use.

Scan QR code for more information.

Dilute before use: Dilute each vial with 1.8 mL sodium chloride 9 mg/mL (0.9%) solution for injection.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9.	SPECIAL STORAGE CONDITIONS
Pric	rage: or to dilution, store at -90 °C to -60 °C in the original package in order to protect from lighter dilution, store the vaccine at 2 °C to 30 °C and use within 6 hours. Discard any unused value
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODU OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, APPROPRIATE
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
An o	NTech Manufacturing GmbH der Goldgrube 12 31 Mainz, Germany
12.	MARKETING AUTHORISATION NUMBER(S)
EU/	1/20/1528
13.	BATCH NUMBER
LOT	
20.	
14.	GENERAL CLASSIFICATION FOR SUPPLY
14.	GENERAL CLASSIFICATION FOR SUPPLY
14. 15.	GENERAL CLASSIFICATION FOR SUPPLY INSTRUCTIONS ON USE
14. 15.	GENERAL CLASSIFICATION FOR SUPPLY INSTRUCTIONS ON USE INFORMATION IN BRAILLE
14. 15. 16. Just	GENERAL CLASSIFICATION FOR SUPPLY INSTRUCTIONS ON USE INFORMATION IN BRAILLE ification for not including Braille accepted.

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
VIAL LABEL
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
COMIRNATY sterile concentrate COVID-19 mRNA Vaccine IM
2. METHOD OF ADMINISTRATION
3. EXPIRY DATE
EXP
4. BATCH NUMBER
LOT
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
5 doses after dilution
6. OTHER
Discard date/time:

B. PACKAGE LEAFLET

Package leaflet: Information for the user

Comirnaty concentrate for dispersion for injection COVID-19 mRNA Vaccine (nucleoside modified)

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you receive this vaccine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Comirnaty is and what it is used for
- 2. What you need to know before you receive Comirnaty
- 3. How Comirnaty is given
- 4. Possible side effects
- 5. How to store Comirnaty
- 6. Contents of the pack and other information

1. What Comirnaty is and what it is used for

Comirnaty is a vaccine used for preventing COVID-19 caused by SARS-CoV-2 virus.

Comirnaty is given to adults and adolescents from 16 years of age and older.

The vaccine causes the immune system (the body's natural defences) to produce antibodies and blood cells that work against the virus, so giving protection against COVID-19.

As Comirnaty does not contain the virus to produce immunity, it cannot give you COVID-19.

2. What you need to know before you receive Comirnaty

Comirnaty should not be given

• if you are allergic to the active substance or any of the other ingredients of this medicine (listed in section 6)

Warnings and precautions

Talk to your doctor, pharmacist or nurse before you are given the vaccine if:

- you have ever had a severe allergic reaction or breathing problems after any other vaccine injection or after you were given Comirnaty in the past.
- you have ever fainted following any needle injection.
- you have a severe illness or infection with high fever. However, you can have your vaccination if you have a mild fever or upper airway infection like a cold.
- you have a bleeding problem, you bruise easily or you use a medicine to prevent blood-clots.
- you have a weakened immune system, because of a disease such as HIV infection or a medicine such as corticosteroid that affects your immune system

As with any vaccine, the 2-dose vaccination course of Comirnaty may not fully protect all those who receive it and it is not known how long you will be protected.

Children and adolescents

Comirnaty is not recommended for children aged under 16 years.

Other medicines and Comirnaty

Tell your doctor or pharmacist if you are using, have recently used or might use any other medicines or have recently received any other vaccine.

Pregnancy and breast-feeding

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before you receive this vaccine.

Driving and using machines

Some of the effects of vaccination mentioned in section 4 (Possible side effects) may temporarily affect your ability to drive or use machines. Wait until these effects have worn off before you drive or use machines.

Comirnaty contains potassium and sodium

This vaccine contains less than 1 mmol potassium (39 mg) per dose, that is to say essentially 'potassium-free'.

This vaccine contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.

3. How Comirnaty is given

Comirnaty is given after dilution as an injection of 0.3 mL into a muscle of your upper arm.

You will receive 2 injections, given at least 21 days apart.

After the first dose of Comirnaty, you should receive a second dose of the same vaccine after 21 days to complete the vaccination course.

If you have any further questions on the use of Comirnaty, ask your doctor, pharmacist or nurse.

4. Possible side effects

Like all vaccines, Comirnaty can cause side effects, although not everybody gets them.

Very common side effects: may affect more than 1 in 10 people

- injection site: pain, swelling
- tiredness
- headache
- muscle pain
- joint pain
- chills, fever

Common side effects: may affect up to 1 in 10 people

- injection site redness
- nausea

Uncommon side effects: may affect up to 1 in 100 people

- enlarged lymph nodes
- feeling unwell

- pain in limb
- insomnia
- injection site itching

Rare side effects: may affect up to 1 in 1,000 people

temporary one sided facial drooping

Not known (cannot be estimated from the available data)

severe allergic reaction

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u> and include batch/Lot number if available. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Comirnaty

Keep this medicine out of the sight and reach of children.

The following information about storage, expiry and use and handling is intended for healthcare professionals.

Do not use this medicine after the expiry date which is stated on the carton and label after EXP. The expiry date refers to the last day of that month.

Store in freezer at -90 °C to -60 °C.

Store in the original package in order to protect from light.

After thawing, the vaccine should be diluted and used immediately. However, in-use stability data have demonstrated that once removed from freezer, the undiluted vaccine can be stored for up to 5 days at 2 °C to 8 °C, or up to 2 hours at temperatures up to 30 °C, prior to use.

After dilution, store the vaccine at 2 °C to 30 °C and use within 6 hours. Discard any unused vaccine.

Once removed from the freezer and diluted, the vials should be marked with the new discard date and time. Once thawed, the vaccine cannot be re-frozen.

Do not use this vaccine if you notice particulates in the dilution or discolouration.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Comirnaty contains

- The active substance is COVID-19 mRNA Vaccine. After dilution, the vial contains 5 doses of 0.3 mL with 30 micrograms mRNA each.
- The other ingredients are:
 - ((4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate) (ALC-0315)
 - 2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide (ALC-0159)
 - 1,2-Distearoyl-sn-glycero-3-phosphocholine (DSPC)
 - cholesterol

- potassium chloride
- potassium dihydrogen phosphate
- sodium chloride
- disodium phosphate dihydrate
- sucrose
- water for injections

What Comirnaty looks like and contents of the pack

The vaccine is a white to off-white dispersion (pH: 6.9 - 7.9) provided in a multidose vial of 5 doses in a 2 mL clear vial (type I glass), with a rubber stopper and a flip-off plastic cap with aluminium seal.

Pack size: 195 vials

Marketing Authorisation Holder

BioNTech Manufacturing GmbH An der Goldgrube 12 55131 Mainz Germany Phone: +49 6131 90840

Fax: +49 6131 9084390 info@biontech.de

Manufacturers

BioNTech Manufacturing GmbH Kupferbergterrasse 17 - 19 55116 Mainz Germany

Pfizer Manufacturing Belgium NV Rijksweg 12 2870 Puurs Belgium

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

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This leaflet was last revised in

This medicine has been given 'conditional approval'. This means that there is more evidence to come about this medicine. The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

Scan the code with a mobile device to get the package leaflet in different languages.



URL: www.comirnatyglobal.com

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu.

This package leaflet is available in all EU/EEA languages on the European Medicines Agency website.

The following information is intended for healthcare professionals only:

Administer Comirnaty intramuscularly after dilution as a course of 2 doses (0.3 mL each) at least 21 days apart.

Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

Handling instructions

- Comirnaty should be prepared by a healthcare professional using aseptic technique to ensure the sterility of the prepared dispersion.
- The multidose vial is stored frozen and must be thawed prior to dilution. Frozen vials should be transferred to an environment of 2 °C to 8 °C to thaw; a 195 vial pack may take 3 hours to thaw. Alternatively, frozen vials may also be thawed for 30 minutes at temperatures up to 30 °C for immediate use.
- Allow the thawed vial to come to room temperature and gently invert it 10 times prior to dilution.
 Do not shake.
- Prior to dilution, the thawed dispersion may contain white to off-white opaque amorphous particles.
- The thawed vaccine must be diluted in its original vial with 1.8 mL sodium chloride 9 mg/mL (0.9%) solution for injection, using a 21 gauge or narrower needle and aseptic techniques.
- Equalise vial pressure before removing the needle from the vial stopper by withdrawing 1.8 mL air into the empty diluent syringe.
- Gently invert the diluted dispersion 10 times. Do not shake.
- The diluted vaccine should present as an off-white dispersion with no particulates visible. Discard the diluted vaccine if particulates or discolouration are present.
- The diluted vials should be marked with the appropriate date and time.
- Do not freeze or shake the diluted dispersion. If refrigerated, allow the diluted dispersion to come to room temperature prior to use.
- After dilution, the vial contains 2.25 mL corresponding to 5 doses of 0.3 mL. Withdraw the required 0.3 mL dose of diluted vaccine using a sterile needle.
- Discard any unused vaccine within 6 hours after dilution.

Disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

Annex IV

Conclusions on the granting of the conditional marketing authorisation presented by the European Medicines Agency

Conclusions presented by the European Medicines Agency on:

• Conditional marketing authorisation

The CHMP having considered the application is of the opinion that the risk-benefit balance is favourable to recommend the granting of the conditional marketing authorisation as further explained in the European Public Assessment Report.

FACT SHEET FOR HEALTHCARE PROVIDERS ADMINISTERING VACCINE (VACCINATION PROVIDERS)

EMERGENCY USE AUTHORIZATION (EUA) OF THE PFIZER-BIONTECH COVID-19 VACCINE TO PREVENT CORONAVIRUS DISEASE 2019 (COVID-19)

The U.S. Food and Drug Administration (FDA) has issued an Emergency Use Authorization (EUA) to permit the emergency use of the unapproved product, **Pfizer-BioNTech COVID-19 Vaccine**, for active immunization to prevent COVID-19 in individuals 16 years of age and older.

SUMMARY OF INSTRUCTIONS FOR COVID-19 VACCINATION PROVIDERS

Vaccination providers enrolled in the federal COVID-19 Vaccination Program must report all vaccine administration errors, all serious adverse events, cases of Multisystem Inflammatory Syndrome (MIS) in adults and children, and cases of COVID-19 that result in hospitalization or death following administration of Pfizer-BioNTech COVID-19 Vaccine. See "MANDATORY REQUIREMENTS FOR PFIZER-BIONTECH COVID-19 VACCINE ADMINISTRATION UNDER EMERGENCY USE AUTHORIZATION" for reporting requirements.

The Pfizer-BioNTech COVID-19 Vaccine is a suspension for intramuscular injection administered as a series of two doses (0.3 mL each) 3 weeks apart.

See this Fact Sheet for instructions for preparation and administration. This Fact Sheet may have been updated. For the most recent Fact Sheet, please see www.cvdvaccine.com.

For information on clinical trials that are testing the use of the Pfizer-BioNTech COVID-19 Vaccine for active immunization against COVID-19, please see www.clinicaltrials.gov.

DESCRIPTION OF COVID-19

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by the novel coronavirus, SARS-CoV-2, that appeared in late 2019. It is predominantly a respiratory illness that can affect other organs. People with COVID-19 have reported a wide range of symptoms, ranging from mild symptoms to severe illness. Symptoms may appear 2 to 14 days after exposure to the virus. Symptoms may include: fever or chills; cough; shortness of breath; fatigue; muscle or body aches; headache; new loss of taste or smell; sore throat; congestion or runny nose; nausea or vomiting; diarrhea.

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DOSAGE AND ADMINISTRATION

Storage and Handling

During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light.

Do not refreeze thawed vials.

Frozen Vials Prior to Use

Cartons of Pfizer-BioNTech COVID-19 Vaccine Multiple Dose Vials arrive in thermal containers with dry ice. Once received, remove the vial cartons immediately from the thermal container and store in an ultra-low temperature freezer between -80°C to -60°C (-112°F to -76°F). Vials must be kept frozen between -80°C to -60°C (-112°F to -76°F) and protected from light until ready to use.

If an ultra-low temperature freezer is not available, the thermal container in which the Pfizer-BioNTech COVID-19 Vaccine arrives may be used as <u>temporary</u> storage when consistently re-filled to the top of the container with dry ice. <u>Refer to the re-icing guidelines packed in the original thermal container for instructions regarding the use of the thermal container for temporary storage</u>. The thermal container maintains a temperature range of -90°C to -60°C (-130°F to -76°F). Storage within this temperature range is not considered an excursion from the recommended storage condition.

Thawed Vials Before Dilution

Thawed Under Refrigeration

Thaw and then store undiluted vials in the refrigerator [2°C to 8°C (35°F to 46°F)] for up to 5 days (120 hours). A carton of 25 vials or 195 vials may take up to 2 or 3 hours, respectively, to thaw in the refrigerator, whereas a fewer number of vials will thaw in less time.

Thawed at Room Temperature

For immediate use, thaw undiluted vials at room temperature [up to 25°C (77°F)] for 30 minutes. Thawed vials can be handled in room light conditions. Vials must reach room temperature before dilution.

Undiluted vials may be stored at room temperature for no more than 2 hours.

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Vials After Dilution

- After dilution, store vials between 2°C to 25°C (35°F to 77°F) and use within 6 hours from the time of dilution.
- During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light.
- Any vaccine remaining in vials must be discarded after 6 hours.
- Do not refreeze.

Dosing and Schedule

The Pfizer-BioNTech COVID-19 Vaccine is administered intramuscularly as a series of two doses (0.3 mL each) 3 weeks apart.

There are no data available on the interchangeability of the Pfizer-BioNTech COVID-19 Vaccine with other COVID-19 vaccines to complete the vaccination series. Individuals who have received one dose of Pfizer-BioNTech COVID-19 Vaccine should receive a second dose of Pfizer-BioNTech COVID-19 Vaccine to complete the vaccination series.

Dose Preparation

Prior to Dilution

- The Pfizer-BioNTech COVID-19 Vaccine Multiple Dose Vial contains a volume of 0.45 mL, supplied as a frozen suspension that does not contain preservative. Each vial must be thawed and diluted prior to administration.
- Vials may be thawed in the refrigerator [2°C to 8°C (35°F to 46°F)] or at room temperature [up to 25°C (77°F)] (see Storage and Handling).
- Refer to thawing instructions in the panels below.

Dilution

Dilute the vial contents using 1.8 mL of 0.9% Sodium Chloride Injection, USP (not provided) to form the Pfizer-BioNTech COVID-19 Vaccine. ONLY use 0.9% Sodium Chloride Injection, USP as the diluent. This diluent is not packaged with the vaccine and must be sourced separately. Do not use bacteriostatic 0.9% Sodium Chloride Injection or any other diluent. Do not use more than 1.8 mL of diluent.

After dilution, one vial contains up to 6 doses of 0.3 mL. Vial labels and cartons may state that after dilution, a vial contains 5 doses of 0.3 mL. The information on the number of doses per vial after dilution in this Fact Sheet supersedes the number of doses stated on vial labels and cartons.

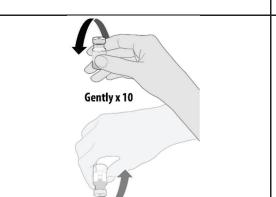
Refer to dilution and dose preparation instructions in the panels below.

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THAWING PRIOR TO DILUTION

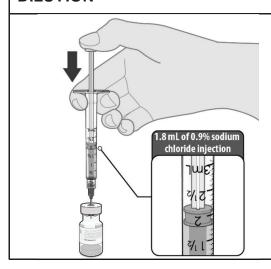


- Thaw vial(s) of Pfizer-BioNTech COVID-19 Vaccine before use either by:
 - Allowing vial(s) to thaw in the refrigerator [2°C to 8°C (35°F to 46°F)]. A carton of vials may take up to 3 hours to thaw, and thawed vials can be stored in the refrigerator for up to five days (120 hours).
 - Allowing vial(s) to sit at room temperature [up to 25°C (77°F)] for 30 minutes.
- Using either thawing method, vials must reach room temperature before dilution and must be diluted within 2 hours.



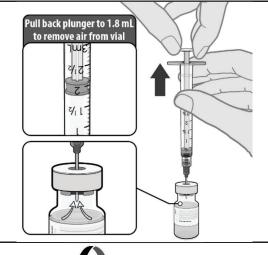
- Before dilution invert vaccine vial gently 10 times.
- Do not shake.
- Inspect the liquid in the vial prior to dilution. The liquid is a white to offwhite suspension and may contain white to off-white opaque amorphous particles.
- Do not use if liquid is discolored or if other particles are observed.

DILUTION

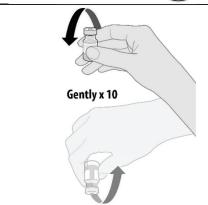


- Obtain sterile 0.9% Sodium Chloride Injection, USP. Use only this as the diluent.
- Using aseptic technique, withdraw
 1.8 mL of diluent into a transfer syringe
 (21-gauge or narrower needle).
- Cleanse the vaccine vial stopper with a single-use antiseptic swab.
- Add 1.8 mL of 0.9% Sodium Chloride Injection, USP into the vaccine vial.

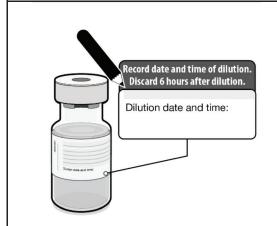
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 Equalize vial pressure before removing the needle from the vial by withdrawing 1.8 mL air into the empty diluent syringe.

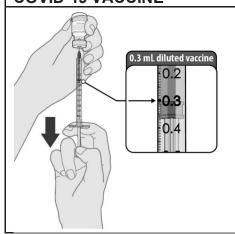


- Gently invert the vial containing the Pfizer-BioNTech COVID-19 Vaccine 10 times to mix.
- Do not shake.
- Inspect the vaccine in the vial.
- The vaccine will be an off-white suspension. Do not use if vaccine is discolored or contains particulate matter.



- Record the date and time of dilution on the Pfizer-BioNTech COVID-19 Vaccine vial label.
- Store between 2°C to 25°C (35°F to 77°F).
- Discard any unused vaccine 6 hours after dilution.

PREPARATION OF INDIVIDUAL 0.3 mL DOSES OF PFIZER-BIONTECH COVID-19 VACCINE



- Using aseptic technique, cleanse the vial stopper with a single-use antiseptic swab, and withdraw <u>0.3 mL</u> of the Pfizer-BioNTech COVID-19 Vaccine preferentially using a low dead-volume syringe and/or needle.
- Administer immediately.

Administration

Visually inspect each dose in the dosing syringe prior to administration. The vaccine will be an off-white suspension. During the visual inspection,

- verify the final dosing volume of 0.3 mL.
- confirm there are no particulates and that no discoloration is observed.
- do not administer if vaccine is discolored or contains particulate matter.

Administer the Pfizer-BioNTech COVID-19 Vaccine intramuscularly.

After preparation, vials of Pfizer-BioNTech COVID-19 Vaccine contain up to six doses of 0.3mL. Low dead-volume syringes and/or needles can be used to extract up to six doses from a single vial. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial. Irrespective of the type of syringe and needle:

- Each dose must contain 0.3 mL of vaccine.
- If the amount of vaccine remaining in the vial cannot provide a full dose of 0.3 mL, discard the vial and content.
- Do not pool excess vaccine from multiple vials.

Contraindications

Do not administer Pfizer-BioNTech COVID-19 Vaccine to individuals with known history of a severe allergic reaction (e.g., anaphylaxis) to any component of the Pfizer-BioNTech COVID-19 Vaccine (see Full EUA Prescribing Information).

Warnings

Appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs following administration of Pfizer-BioNTech COVID-19 Vaccine.

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Monitor Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines (https://www.cdc.gov/vaccines/covid-19/).

Immunocompromised persons, including individuals receiving immunosuppressant therapy, may have a diminished immune response to the Pfizer-BioNTech COVID-19 Vaccine.

Pfizer-BioNTech COVID-19 Vaccine may not protect all vaccine recipients.

Adverse Reactions

Adverse reactions following the Pfizer-BioNTech COVID-19 Vaccine that have been reported in clinical trials include injection site pain, fatigue, headache, muscle pain, chills, joint pain, fever, injection site swelling, injection site redness, nausea, malaise, and lymphadenopathy (see Full EUA Prescribing Information).

Severe allergic reactions have been reported following the Pfizer-BioNTech COVID-19 Vaccine during mass vaccination outside of clinical trials.

Additional adverse reactions, some of which may be serious, may become apparent with more widespread use of the Pfizer-BioNTech COVID-19 Vaccine.

Use with Other Vaccines

There is no information on the co-administration of the Pfizer-BioNTech COVID-19 Vaccine with other vaccines.

INFORMATION TO PROVIDE TO VACCINE RECIPIENTS/CAREGIVERS

As the vaccination provider, you must communicate to the recipient or their caregiver, information consistent with the "Fact Sheet for Recipients and Caregivers" (and provide a copy or direct the individual to the website www.cvdvaccine.com to obtain the Fact Sheet) prior to the individual receiving Pfizer-BioNTech COVID-19 Vaccine, including:

- FDA has authorized the emergency use of the Pfizer-BioNTech COVID-19 Vaccine, which is not an FDA-approved vaccine.
- The recipient or their caregiver has the option to accept or refuse Pfizer-BioNTech COVID-19 Vaccine.
- The significant known and potential risks and benefits of Pfizer-BioNTech COVID-19 Vaccine, and the extent to which such risks and benefits are unknown.
- Information about available alternative vaccines and the risks and benefits of those alternatives.

For information on clinical trials that are testing the use of the Pfizer-BioNTech COVID-19 Vaccine to prevent COVID-19, please see www.clinicaltrials.gov.

Revised: 12/2020 7 FDA-CBER-2021-5683-1078952 Provide a vaccination card to the recipient or their caregiver with the date when the recipient needs to return for the second dose of Pfizer-BioNTech COVID-19 Vaccine.

Provide the **v-safe** information sheet to vaccine recipients/caregivers and encourage vaccine recipients to participate in **v-safe**. **V-safe** is a new voluntary smartphone-based tool that uses text messaging and web surveys to check in with people who have been vaccinated to identify potential side effects after COVID-19 vaccination. **V-safe** asks questions that help CDC monitor the safety of COVID-19 vaccines. **V-safe** also provides second-dose reminders if needed and live telephone follow-up by CDC if participants report a significant health impact following COVID-19 vaccination. For more information, visit: www.cdc.gov/vsafe.

MANDATORY REQUIREMENTS FOR PFIZER-BIONTECH COVID-19 VACCINE ADMINISTRATION UNDER EMERGENCY USE AUTHORIZATION

In order to mitigate the risks of using this unapproved product under EUA and to optimize the potential benefit of Pfizer-BioNTech COVID-19 Vaccine, the following items are required. Use of unapproved Pfizer-BioNTech COVID-19 Vaccine for active immunization to prevent COVID-19 under this EUA is limited to the following (all requirements **must** be met):

- 1. Pfizer-BioNTech COVID-19 Vaccine is authorized for use in individuals 16 years of age and older.
- 2. The vaccination provider must communicate to the individual receiving the Pfizer-BioNTech COVID-19 Vaccine or their caregiver, information consistent with the "Fact Sheet for Recipients and Caregivers" prior to the individual receiving Pfizer-BioNTech COVID-19 Vaccine.
- 3. The vaccination provider must include vaccination information in the state/local jurisdiction's Immunization Information System (IIS) or other designated system.
- 4. The vaccination provider is responsible for mandatory reporting of the following to the Vaccine Adverse Event Reporting System (VAERS):
 - vaccine administration errors whether or not associated with an adverse event,
 - serious adverse events* (irrespective of attribution to vaccination),
 - cases of Multisystem Inflammatory Syndrome (MIS) in adults and children, and
 - cases of COVID-19 that result in hospitalization or death.

Complete and submit reports to VAERS online at https://vaers.hhs.gov/reportevent.html. For further assistance with reporting to VAERS call 1-800-822-7967. The reports should include the words

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- "Pfizer-BioNTech COVID-19 Vaccine EUA" in the description section of the report.
- 5. The vaccination provider is responsible for responding to FDA requests for information about vaccine administration errors, adverse events, cases of MIS in adults and children, and cases of COVID-19 that result in hospitalization or death following administration of Pfizer-BioNTech COVID-19 Vaccine to recipients.
- * Serious adverse events are defined as:
 - Death:
 - A life-threatening adverse event;
 - Inpatient hospitalization or prolongation of existing hospitalization;
 - A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions;
 - A congenital anomaly/birth defect;
 - An important medical event that based on appropriate medical judgement may jeopardize the individual and may require medical or surgical intervention to prevent one of the outcomes listed above.

OTHER ADVERSE EVENT REPORTING TO VAERS AND PFIZER INC.

Vaccination providers may report to VAERS other adverse events that are not required to be reported using the contact information above.

To the extent feasible, report adverse events to Pfizer Inc. using the contact information below or by providing a copy of the VAERS form to Pfizer Inc.

Website	Fax number	Telephone number
www.pfizersafetyreporting.com	1-866-635-8337	1-800-438-1985

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ADDITIONAL INFORMATION

For general questions, visit the website or call the telephone number provided below.

To access the most recent Pfizer-BioNTech COVID-19 Vaccine Fact Sheets, please scan the QR code provided below.

Global website	Telephone number
www.cvdvaccine.com	1-877-829-2619 (1-877-VAX-CO19)

AVAILABLE ALTERNATIVES

There is no approved alternative vaccine to prevent COVID-19. There may be clinical trials or availability under EUA of other COVID-19 vaccines.

AUTHORITY FOR ISSUANCE OF THE EUA

The Secretary of Health and Human Services (HHS) has declared a public health emergency that justifies the emergency use of drugs and biological products during the COVID-19 pandemic. In response, FDA has issued an EUA for the unapproved product, Pfizer-BioNTech COVID-19 Vaccine, for active immunization against COVID-19 in individuals 16 years of age and older.

FDA issued this EUA, based on Pfizer-BioNTech's request and submitted data.

Although limited scientific information is available, based on the totality of the scientific evidence available to date, it is reasonable to believe that the Pfizer-BioNTech COVID-19 Vaccine may be effective for the prevention of COVID-19 in individuals as specified in the *Full EUA Prescribing Information*.

This EUA for the Pfizer-BioNTech COVID-19 Vaccine will end when the Secretary of HHS determines that the circumstances justifying the EUA no longer exist or when there is a change in the approval status of the product such that an EUA is no longer needed.

For additional information about Emergency Use Authorization visit FDA at: https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization.

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The Countermeasures Injury Compensation Program

The Countermeasures Injury Compensation Program (CICP) is a federal program that has been created to help pay for related costs of medical care and other specific expenses to compensate people injured after use of certain medical countermeasures. Medical countermeasures are specific vaccines, medications, devices, or other items used to prevent, diagnose, or treat the public during a public health emergency or a security threat. For more information about CICP regarding the Pfizer-BioNTech COVID-19 Vaccine used to prevent COVID-19, visit www.hrsa.gov/cicp, email cicp@hrsa.gov, or call: 1-855-266-2427.



Manufactured for
BioNTech Manufacturing GmbH
An der Goldgrube 12
55131 Mainz, Germany

LAB-1450-3.0

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END SHORT VERSION FACT SHEET

Long Version (Full EUA Prescribing Information) Begins On Next Page

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FULL EMERGENCY USE AUTHORIZATION (EUA) PRESCRIBING INFORMATION

PFIZER-BIONTECH COVID-19 VACCINE

FULL EMERGENCY USE AUTHORIZATION PRESCRIBING INFORMATION: CONTENTS*

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FULL EMERGENCY USE AUTHORIZATION (EUA) PRESCRIBING INFORMATION

1 AUTHORIZED USE

Pfizer-BioNTech COVID-19 Vaccine is authorized for use under an Emergency Use Authorization (EUA) for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 16 years of age and older.

2 DOSAGE AND ADMINISTRATION

For intramuscular injection only.

2.1 Preparation for Administration

Prior to Dilution

- The Pfizer-BioNTech COVID-19 Vaccine Multiple Dose Vial contains a volume of 0.45 mL, supplied as a frozen suspension that does not contain preservative. Each vial must be thawed and diluted prior to administration.
- Vials may be thawed in the refrigerator [2°C to 8°C (35°F to 46°F)] or at room temperature [up to 25°C (77°F)] [see How Supplied/Storage and Handling (19)].
- Refer to thawing instructions in the panels below.

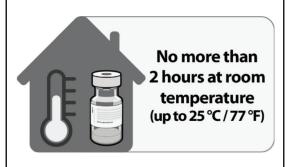
Dilution

- Dilute the vial contents using 1.8 mL of 0.9% Sodium Chloride Injection, USP (not provided) to form the Pfizer-BioNTech COVID-19 Vaccine. Do not use more than 1.8 mL of diluent.
- ONLY use 0.9% Sodium Chloride Injection, USP as the diluent. This diluent is not packaged with the vaccine and must be sourced separately. <u>Do not use bacteriostatic 0.9% Sodium Chloride Injection or any other diluent.</u>
- After dilution, one vial contains up to 6 doses of 0.3 mL. Vial labels and cartons may state that after dilution, a vial contains 5 doses of 0.3 mL. The information on the number of doses per vial after dilution in this Fact Sheet supersedes the number of doses stated on vial labels and cartons.
- Refer to dilution and dose preparation instructions in the panels below.

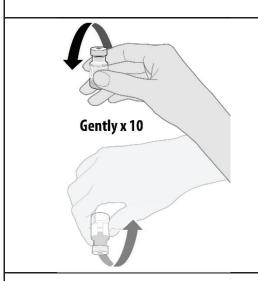
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THAWING PRIOR TO DILUTION

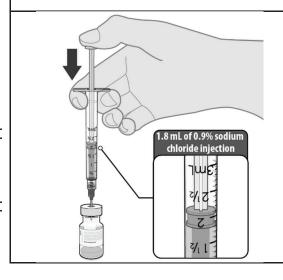


- Thaw vial(s) of Pfizer-BioNTech COVID-19 Vaccine before use either by:
 - O Allowing vial(s) to thaw in the refrigerator [2°C to 8°C (35°F to 46°F)]. A carton of vials may take up to 3 hours to thaw, and thawed vials can be stored in the refrigerator for up to five days (120 hours).
 - Allowing vial(s) to sit at room temperature [up to 25°C (77°F)] for 30 minutes.
- Using either thawing method, vials must reach room temperature before dilution and must be diluted within 2 hours.



- Before dilution invert vaccine vial gently 10 times.
- Do not shake.
- Inspect the liquid in the vial prior to dilution. The liquid is a white to off-white suspension and may contain white to off-white opaque amorphous particles.
- Do not use if liquid is discolored or if other particles are observed.

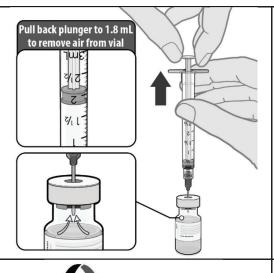
DILUTION



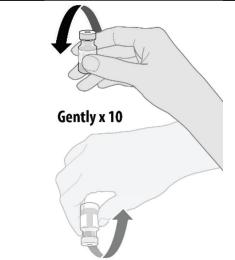
- Obtain sterile 0.9% Sodium Chloride Injection, USP. Use only this as the diluent.
- Using aseptic technique, withdraw 1.8 mL of diluent into a transfer syringe (21-gauge or narrower needle).
- Cleanse the vaccine vial stopper with a single-use antiseptic swab.
- Add 1.8 mL of 0.9% Sodium Chloride Injection, USP into the vaccine vial.

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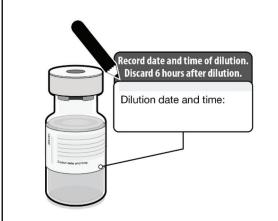
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Equalize vial pressure before removing the needle from the vial by withdrawing 1.8 mL air into the empty diluent syringe.



- Gently invert the vial containing the Pfizer-BioNTech COVID-19 Vaccine 10 times to mix.
- <u>Do not shake</u>.
- Inspect the vaccine in the vial.
- The vaccine will be an off-white suspension. Do not use if vaccine is discolored or contains particulate matter.



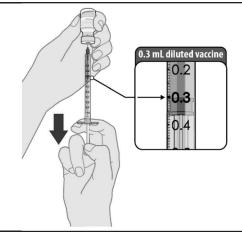
- Record the date and time of dilution on the Pfizer-BioNTech COVID-19 Vaccine vial label.
- Store between 2°C to 25°C (35°F to 77°F).
- Discard any unused vaccine 6 hours after dilution.

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PREPARATION OF INDIVIDUAL 0.3 mL DOSES OF PFIZER-BIONTECH COVID-19 VACCINE



- Using aseptic technique, cleanse the vial stopper with a single-use antiseptic swab, and withdraw 0.3 mL of the Pfizer-BioNTech COVID-19 Vaccine preferentially using low dead-volume syringes and/or needles.
- Administer immediately.

2.2 Administration Information

Visually inspect each dose in the dosing syringe prior to administration. The vaccine will be an off-white suspension. During the visual inspection,

- verify the final dosing volume of 0.3 mL.
- confirm there are no particulates and that no discoloration is observed.
- do not administer if vaccine is discolored or contains particulate matter.

Administer the Pfizer-BioNTech COVID-19 Vaccine intramuscularly.

After preparation, vials of Pfizer-BioNTech COVID-19 Vaccine contain up to six doses of 0.3 mL. Low dead-volume syringes and/or needles can be used to extract up to six doses from a single vial. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial. Irrespective of the type of syringe and needle:

- Each dose must contain 0.3 mL of vaccine.
- If the amount of vaccine remaining in the vial cannot provide a full dose of 0.3 mL, discard the vial and any excess volume.
- Do not pool excess vaccine from multiple vials.

2.3 Vaccination Schedule for Individuals 16 Years of Age and Older

The Pfizer-BioNTech COVID-19 Vaccine is administered intramuscularly as a series of two doses (0.3 mL each) three weeks apart.

There are no data available on the interchangeability of the Pfizer-BioNTech COVID-19 Vaccine with other COVID-19 vaccines to complete the vaccination series. Individuals who have received one dose of Pfizer-BioNTech COVID-19 Vaccine should receive a second dose of Pfizer-BioNTech COVID-19 Vaccine to complete the vaccination series.

3 DOSAGE FORMS AND STRENGTHS

Pfizer-BioNTech COVID-19 Vaccine is a suspension for injection. After preparation, a single dose is 0.3 mL.

4 CONTRAINDICATIONS

Do not administer Pfizer-BioNTech COVID-19 Vaccine to individuals with known history of a severe allergic reaction (e.g., anaphylaxis) to any component of the Pfizer-BioNTech COVID-19 Vaccine [see Description (13)].

5 WARNINGS AND PRECAUTIONS

5.1 Management of Acute Allergic Reactions

Appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs following administration of Pfizer-BioNTech COVID-19 Vaccine.

Monitor Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines (https://www.cdc.gov/vaccines/covid-19/).

5.2 Altered Immunocompetence

Immunocompromised persons, including individuals receiving immunosuppressant therapy, may have a diminished immune response to the Pfizer-BioNTech COVID-19 Vaccine.

5.3 Limitation of Effectiveness

The Pfizer-BioNTech COVID-19 Vaccine may not protect all vaccine recipients.

6 OVERALL SAFETY SUMMARY

It is MANDATORY for vaccination providers to report to the Vaccine Adverse Event Reporting System (VAERS) all vaccine administration errors, all serious adverse events, cases of Multisystem Inflammatory Syndrome (MIS) in adults and children, and hospitalized or fatal cases of COVID-19 following vaccination with the Pfizer-BioNTech COVID-19 Vaccine. To the extent feasible, provide a copy of the VAERS form to Pfizer Inc. Please see the REQUIREMENTS AND INSTRUCTIONS FOR REPORTING ADVERSE EVENTS AND VACCINE ADMINISTRATION ERRORS section for details on reporting to VAERS and Pfizer Inc.

In clinical studies, adverse reactions in participants 16 years of age and older included pain at the injection site (84.1%), fatigue (62.9%), headache (55.1%), muscle pain (38.3%), chills (31.9%), joint pain (23.6%), fever (14.2%), injection site swelling (10.5%), injection site redness (9.5%), nausea (1.1%), malaise (0.5%), and lymphadenopathy (0.3%).

Severe allergic reactions have been reported following the Pfizer-BioNTech COVID-19 Vaccine during mass vaccination outside of clinical trials.

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

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The safety of Pfizer-BioNTech COVID-19 Vaccine was evaluated in participants 16 years of age and older in two clinical studies conducted in the United States, Europe, Turkey, South Africa, and South America. Study BNT162-01 (Study 1) was a Phase 1/2, two-part, dose-escalation trial that enrolled 60 participants, 18 through 55 years of age. Study C4591001 (Study 2) is a Phase 1/2/3, multicenter, multinational, randomized, saline placebo-controlled, observer-blind, dose-finding, vaccine candidate-selection (Phase 1) and efficacy (Phase 2/3) study that has enrolled approximately 44,000 participants, 12 years of age or older. Of these, approximately 43,448 participants (21,720 Pfizer-BioNTech COVID-19 Vaccine; 21,728 placebo) in Phase 2/3 are 16 years of age or older (including 138 and 145 adolescents 16 and 17 years of age in the vaccine and placebo groups, respectively).

At the time of the analysis of Study 2 for the EUA, 37,586 (18,801 Pfizer-BioNTech COVID-19 Vaccine and 18,785 placebo) participants 16 years of age or older have been followed for a median of 2 months after the second dose of Pfizer-BioNTech COVID-19 Vaccine.

The safety evaluation in Study 2 is ongoing. The safety population includes participants enrolled by October 9, 2020, and includes safety data accrued through November 14, 2020. Participants 18 years and older in the reactogenicity subset are monitored for solicited local and systemic reactions and use of antipyretic medication after each vaccination in an electronic diary. Participants are being monitored for unsolicited adverse events, including serious adverse events, throughout the study [from Dose 1 through 1 month (all unsolicited adverse events) or 6 months (serious adverse events) after the last vaccination].

Demographic characteristics in Study 2 were generally similar with regard to age, gender, race, and ethnicity among participants who received Pfizer-BioNTech COVID-19 Vaccine and those who received placebo. Overall, among the total participants who received either the Pfizer-BioNTech COVID-19 Vaccine or placebo, 50.6% were male and 49.4% were female, 83.1% were White, 9.1% were Black or African American, 28.0% were Hispanic/Latino, 4.3% were Asian, and 0.5% were American Indian/Alaska Native.

Local and Systemic Adverse Reactions Solicited in the Study 2

Table 1 and Table 2 present the frequency and severity of solicited local and systemic reactions, respectively, within 7 days following each dose of Pfizer-BioNTech COVID-19 Vaccine and placebo in the subset of participants 18 to 55 years of age included in the EUA safety population who were monitored for reactogenicity with an electronic diary.

Table 3 and Table 4 present the frequency and severity of reported solicited local and systemic reactions, respectively, within 7 days of each dose of Pfizer-BioNTech COVID-19 Vaccine and placebo for participants 56 years of age and older.

Across both age groups, the mean duration of pain at the injection site after Dose 2 was 2.5 days (range 1 to 36 days), for redness 2.6 days (range 1 to 34 days), and for swelling 2.3 days (range 1 to 34 days) for participants in the Pfizer-BioNTech COVID-19 Vaccine group.

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Solicited reactogenicity data in 16 and 17 year-old participants are limited.

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Table 1: Study 2 – Frequency and Percentages of Participants with Solicited Local Reactions, by Maximum Severity, Within 7 Days After Each Dose – Participants 18-55 Years of Age[‡] – Reactogenicity Subset of the Safety Population*

<u> </u>	Subset of the Safety 1	opuntion		
	Pfizer-BioNTech		Pfizer-BioNTech	
	COVID-19 Vaccine	Placebo	COVID-19 Vaccine	Placebo
	Dose 1	Dose 1	Dose 2	Dose 2
	$N^a = 2291$	$N^a = 2298$	$N^a = 2098$	$N^a = 2103$
	n ^b (%)	n ^b (%)	n ^b (%)	n ^b (%)
Redness ^c				
Any (>2 cm)	104 (4.5)	26 (1.1)	123 (5.9)	14 (0.7)
Mild	70 (3.1)	16 (0.7)	73 (3.5)	8 (0.4)
Moderate	28 (1.2)	6 (0.3)	40 (1.9)	6 (0.3)
Severe	6 (0.3)	4 (0.2)	10 (0.5)	0 (0.0)
Swelling ^c				
Any (>2 cm)	132 (5.8)	11 (0.5)	132 (6.3)	5 (0.2)
Mild	88 (3.8)	3 (0.1)	80 (3.8)	3 (0.1)
Moderate	39 (1.7)	5 (0.2)	45 (2.1)	2 (0.1)
Severe	5 (0.2)	3 (0.1)	7 (0.3)	0 (0.0)
Pain at the injection sited				
Any	1904 (83.1)	322 (14.0)	1632 (77.8)	245 (11.7)
Mild	1170 (51.1)	308 (13.4)	1039 (49.5)	225 (10.7)
Moderate	710 (31.0)	12 (0.5)	568 (27.1)	20 (1.0)
Severe	24 (1.0)	2 (0.1)	25 (1.2)	0 (0.0)

Note: Reactions were collected in the electronic diary (e-diary) from Day 1 to Day 7 after vaccination.

Table 2: Study 2 – Frequency and Percentages of Participants with Solicited Systemic Reactions, by Maximum Severity, Within 7 Days After Each Dose – Participants 18-55 Years of Age[‡] – Safety Population*

	Pfizer-BioNTech		Pfizer-BioNTech	
	COVID-19 Vaccine	Placebo	COVID-19 Vaccine	Placebo
	Dose 1	Dose 1	Dose 2	Dose 2
	$N^a = 2291$	$N^a = 2298$	$N^a=2098$	$N^a = 2103$
	n ^b (%)	n ^b (%)	n ^b (%)	n ^b (%)
Fever				
≥38.0°C	85 (3.7)	20 (0.9)	331 (15.8)	10 (0.5)
\geq 38.0°C to 38.4°C	64 (2.8)	10 (0.4)	194 (9.2)	5 (0.2)
>38.4°C to 38.9°C	15 (0.7)	5 (0.2)	110 (5.2)	3 (0.1)
>38.9°C to 40.0°C	6 (0.3)	3 (0.1)	26 (1.2)	2 (0.1)
>40.0°C	0 (0.0)	2 (0.1)	1 (0.0)	0 (0.0)
Fatigue ^c				
Any	1085 (47.4)	767 (33.4)	1247 (59.4)	479 (22.8)
Mild	597 (26.1)	467 (20.3)	442 (21.1)	248 (11.8)
Moderate	455 (19.9)	289 (12.6)	708 (33.7)	217 (10.3)
Severe	33 (1.4)	11 (0.5)	97 (4.6)	14 (0.7)
Headachec				

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 $a.\ \ N = Number\ of\ participants\ reporting\ at\ least\ 1\ yes\ or\ no\ response\ for\ the\ specified\ reaction\ a\ fter\ the\ specified\ dose.$

b. n = Number of participants with the specified reaction.

c. Mild: >2.0 to ≤ 5.0 cm; Moderate: >5.0 to ≤ 10.0 cm; Severe: >10.0 cm.

d. Mild: does not interfere with activity; Moderate: interferes with activity; Severe: prevents daily activity.

[‡] Eight participants were between 16 and 17 years of age.

^{*} Randomized participants in the safety analysis population who received at least 1 dose of the study intervention.

	Pfizer-BioNTech COVID-19 Vaccine Dose 1	Placebo Dose 1	Pfizer-BioNTech COVID-19 Vaccine Dose 2	Placebo Dose 2
	Na=2291	$N^a = 2298$	Na=2098	$N^a = 2103$
	n ^b (%)	n ^b (%)	n ^b (%)	n ^b (%)
Any	959 (41.9)	775 (33.7)	1085 (51.7)	506 (24.1)
Mild	628 (27.4)	505 (22.0)	538 (25.6)	321 (15.3)
Moderate	308 (13.4)	251 (10.9)	480 (22.9)	170 (8.1)
Severe	23 (1.0)	19 (0.8)	67 (3.2)	15 (0.7)
Chills ^c				
Any	321 (14.0)	146 (6.4)	737 (35.1)	79 (3.8)
Mild	230 (10.0)	111 (4.8)	359 (17.1)	65 (3.1)
Moderate	82 (3.6)	33 (1.4)	333 (15.9)	14 (0.7)
Severe	9 (0.4)	2 (0.1)	45 (2.1)	0(0.0)
Vomitingd				
Any	28 (1.2)	28 (1.2)	40 (1.9)	25 (1.2)
Mild	24 (1.0)	22 (1.0)	28 (1.3)	16 (0.8)
Moderate	4 (0.2)	5 (0.2)	8 (0.4)	9 (0.4)
Severe	0 (0.0)	1 (0.0)	4 (0.2)	0(0.0)
Diarrheae				
Any	255 (11.1)	270 (11.7)	219 (10.4)	177 (8.4)
Mild	206 (9.0)	217 (9.4)	179 (8.5)	144 (6.8)
Moderate	46 (2.0)	52 (2.3)	36 (1.7)	32 (1.5)
Severe	3 (0.1)	1 (0.0)	4 (0.2)	1 (0.0)
New or worsened muscle pain ^c				
Any	487 (21.3)	249 (10.8)	783 (37.3)	173 (8.2)
Mild	256 (11.2)	175 (7.6)	326 (15.5)	111 (5.3)
Moderate	218 (9.5)	72 (3.1)	410 (19.5)	59 (2.8)
Severe	13 (0.6)	2 (0.1)	47 (2.2)	3 (0.1)
New or worsened joint pain ^c				
Any	251 (11.0)	138 (6.0)	459 (21.9)	109 (5.2)
Mild	147 (6.4)	95 (4.1)	205 (9.8)	54 (2.6)
Moderate	99 (4.3)	43 (1.9)	234 (11.2)	51 (2.4)
Severe	5 (0.2)	0 (0.0)	20 (1.0)	4 (0.2)
Use of antipyretic or pain medication ^f	638 (27.8)	332 (14.4)	945 (45.0)	266 (12.6)

Note: Events and use of antipyretic or pain medication were collected in the electronic diary (e-diary) from Day 1 to Day 7 after each dose.

- a. N = Number of participants reporting at least 1 yes or no response for the specified event after the specified dose.
- b. n = Number of participants with the specified reaction.
- c. Mild: does not interfere with a ctivity; Moderate: some interference with a ctivity; Severe: prevents daily a ctivity.
- d. Mild: 1 to 2 times in 24 hours; Moderate: >2 times in 24 hours; Severe: requires intravenous hydration.
- e. Mild: 2 to 3 loose stools in 24 hours; Moderate: 4 to 5 loose stools in 24 hours; Severe: 6 or more loose stools in 24 hours.
- f. Severity was not collected for use of antipyretic or pain medication.
- ‡ Eight participants were between 16 and 17 years of age.
- * Randomized participants in the safety analysis population who received at least 1 dose of the study intervention.

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Table 3: Study 2 – Frequency and Percentages of Participants with Solicited Local Reactions, by Maximum Severity, Within 7 Days After Each Dose – Participants 56 Years of Age and Older – Safety Population*

	Pfizer-BioNTech COVID-19 Vaccine Dose 1 Na=1802 nb (%)	Placebo Dose 1 N ^a =1792 n ^b (%)	Pfizer-BioNTech COVID-19 Vaccine Dose 2 Na=1660 nb (%)	Placebo Dose 2 N ^a =1646 n ^b (%)
Rednessc		· ·		
Any (>2 cm)	85 (4.7)	19 (1.1)	120 (7.2)	12 (0.7)
Mild	55 (3.1)	12 (0.7)	59 (3.6)	8 (0.5)
Moderate	27 (1.5)	5 (0.3)	53 (3.2)	3 (0.2)
Severe	3 (0.2)	2 (0.1)	8 (0.5)	1 (0.1)
Swelling ^c				
Any (>2 cm)	118 (6.5)	21 (1.2)	124 (7.5)	11 (0.7)
Mild	71 (3.9)	10 (0.6)	68 (4.1)	5 (0.3)
Moderate	45 (2.5)	11 (0.6)	53 (3.2)	5 (0.3)
Severe	2 (0.1)	0(0.0)	3 (0.2)	1 (0.1)
Pain at the injection site ^d				
Any (>2 cm)	1282 (71.1)	166 (9.3)	1098 (66.1)	127 (7.7)
Mild	1008 (55.9)	160 (8.9)	792 (47.7)	125 (7.6)
Moderate	270 (15.0)	6 (0.3)	298 (18.0)	2 (0.1)
Severe	4 (0.2)	0 (0.0)	8 (0.5)	0(0.0)

Note: Reactions were collected in the electronic diary (e-diary) from Day 1 to Day 7 a fter vaccination.

Table 4: Study 2 – Frequency and Percentages of Participants with Solicited Systemic Reactions, by Maximum Severity, Within 7 Days After Each Dose – Participants 56 Years of Age and Older – Reactogenicity Subset of the Safety Population*

	Pfizer-BioNTech COVID-19 Vaccine Dose 1 Na=1802 n ^b (%)	Placebo Dose 1 N ^a =1792 n ^b (%)	Pfizer-BioNTech COVID-19 Vaccine Dose 2 Na=1660 nb (%)	Placebo Dose 2 Na=1646 nb (%)
Fever				
≥38.0°C	26 (1.4)	7 (0.4)	181 (10.9)	4 (0.2)
≥38.0°C to 38.4°C	23 (1.3)	2 (0.1)	131 (7.9)	2 (0.1)
>38.4°C to 38.9°C	1 (0.1)	3 (0.2)	45 (2.7)	1 (0.1)
>38.9°C to 40.0°C	1 (0.1)	2 (0.1)	5 (0.3)	1 (0.1)
>40.0°C	1 (0.1)	0 (0.0)	0 (0.0)	0 (0.0)
Fatigue ^c				
Any	615 (34.1)	405 (22.6)	839 (50.5)	277 (16.8)
Mild	373 (20.7)	252 (14.1)	351 (21.1)	161 (9.8)
Moderate	240 (13.3)	150 (8.4)	442 (26.6)	114 (6.9)
Severe	2 (0.1)	3 (0.2)	46 (2.8)	2 (0.1)

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a. N = Number of participants reporting at least 1 yes or no response for the specified reaction after the specified dose.

b. n = Number of participants with the specified reaction.

c. Mild: >2.0 to ≤ 5.0 cm; Moderate: >5.0 to ≤ 10.0 cm; Severe: >10.0 cm.

d. Mild: does not interfere with activity; Moderate: interferes with activity; Severe: prevents daily activity.

^{*} Randomized participants in the safety analysis population who received at least 1 dose of the study intervention.

	Pfizer-BioNTech COVID-19 Vaccine Dose 1 Na=1802 nb (%)	Placebo Dose 1 N ^a =1792 n ^b (%)	Pfizer-BioNTech COVID-19 Vaccine Dose 2 Na=1660 nb (%)	Placebo Dose 2 N ^a =1646 n ^b (%)
Headachec	- (/-)	(, -,		(,-,
Any	454 (25.2)	325 (18.1)	647 (39.0)	229 (13.9)
Mild	348 (19.3)	242 (13.5)	422 (25.4)	165 (10.0)
Moderate	104 (5.8)	80 (4.5)	216 (13.0)	60 (3.6)
Severe	2 (0.1)	3 (0.2)	9 (0.5)	4 (0.2)
Chills ^c		,		`
Any	113 (6.3)	57 (3.2)	377 (22.7)	46 (2.8)
Mild	87 (4.8)	40 (2.2)	199 (12.0)	35 (2.1)
Moderate	26 (1.4)	16 (0.9)	161 (9.7)	11 (0.7)
Severe	0 (0.0)	1 (0.1)	17 (1.0)	0 (0.0)
Vomitingd	, , ,	· · ·	ì	·
Any	9 (0.5)	9 (0.5)	11 (0.7)	5 (0.3)
Mild	8 (0.4)	9 (0.5)	9 (0.5)	5 (0.3)
Moderate	1 (0.1)	0 (0.0)	1 (0.1)	0 (0.0)
Severe	0 (0.0)	0(0.0)	1 (0.1)	0 (0.0)
Diarrheae				
Any	147 (8.2)	118 (6.6)	137 (8.3)	99 (6.0)
Mild	118 (6.5)	100 (5.6)	114 (6.9)	73 (4.4)
Moderate	26 (1.4)	17 (0.9)	21 (1.3)	22 (1.3)
Severe	3 (0.2)	1 (0.1)	2 (0.1)	4 (0.2)
New or worsened				
muscle pain ^c				
Any	251 (13.9)	149 (8.3)	477 (28.7)	87 (5.3)
Mild	168 (9.3)	100 (5.6)	202 (12.2)	57 (3.5)
Moderate	82 (4.6)	46 (2.6)	259 (15.6)	29 (1.8)
Severe	1 (0.1)	3 (0.2)	16 (1.0)	1 (0.1)
New or worsened joint pain ^c				
Any	155 (8.6)	109 (6.1)	313 (18.9)	61 (3.7)
Mild	101 (5.6)	68 (3.8)	161 (9.7)	35 (2.1)
Moderate	52 (2.9)	40 (2.2)	145 (8.7)	25 (1.5)
Severe	2 (0.1)	1 (0.1)	7 (0.4)	1 (0.1)
Use of antipyretic or pain medication	358 (19.9)	213 (11.9)	625 (37.7)	161 (9.8)

Note: Events and use of antipyretic or pain medication were collected in the electronic diary (e-diary) from Day 1 to Day 7 after each dose.

- a. N = Number of participants reporting at least 1 yes or no response for the specified event after the specified dose.
- b. n = Number of participants with the specified reaction.
- c. Mild: does not interfere with a ctivity; Moderate: some interference with a ctivity; Severe: prevents daily a ctivity.
- d. Mild: 1 to 2 times in 24 hours; Moderate: >2 times in 24 hours; Severe: requires intravenous hydration.
- e. Mild: 2 to 3 loose stools in 24 hours; Moderate: 4 to 5 loose stools in 24 hours; Severe: 6 or more loose stools in 24 hours.
- * Randomized participants in the safety analysis population who received at least 1 dose of the study intervention.

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Unsolicited Adverse Events

Serious Adverse Events

In Study 2, among participants 16 to 55 years of age who had received at least 1 dose of vaccine or placebo (Pfizer-BioNTech COVID-19 Vaccine = 10,841; placebo = 10,851), serious adverse events from Dose 1 through up to 30 days after Dose 2 in ongoing follow-up were reported by 0.4% of Pfizer-BioNTech COVID-19 Vaccine recipients and by 0.3% of placebo recipients. In a similar analysis, in participants 56 years of age and older (Pfizer-BioNTech COVID-19 Vaccine = 7960, placebo = 7934), serious adverse events were reported by 0.8% of Pfizer-BioNTech COVID-19 Vaccine recipients and by 0.6% of placebo recipients who received at least 1 dose of Pfizer-BioNTech COVID-19 Vaccine or placebo, respectively. In these analyses, 91.6% of study participants had at least 30 days of follow-up after Dose 2. Appendicitis was reported as a serious adverse event for 12 participants, and numerically higher in the vaccine group, 8 vaccine participants and 4 placebo participants. Currently available information is insufficient to determine a causal relationship with the vaccine. There were no other notable patterns or numerical imbalances between treatment groups for specific categories of serious adverse events (including neurologic, neuro-inflammatory, and thrombotic events) that would suggest a causal relationship to Pfizer-BioNTech COVID-19 Vaccine.

Non-Serious Adverse Events

Overall in Study 2 in which 10,841 participants 16 to 55 years of age received Pfizer-BioNTech COVID-19 Vaccine and 10,851 participants received placebo, non-serious adverse events from Dose 1 through up to 30 days after Dose 2 in ongoing follow-up were reported in 29.3% of participants who received Pfizer-BioNTech COVID-19 Vaccine and 13.2% of participants in the placebo group, for participants who received at least 1 dose. Overall in a similar analysis in which 7960 participants 56 years of age and older received Pfizer-BioNTech COVID-19 Vaccine, non-serious adverse events within 30 days were reported in 23.8% of participants who received Pfizer-BioNTech COVID-19 Vaccine and 11.7% of participants in the placebo group, for participants who received at least 1 dose. In these analyses, 91.6% of study participants had at least 30 days of follow-up after Dose 2. The higher frequency of reported unsolicited non-serious adverse events among Pfizer BioNTech COVID-19 Vaccine recipients compared to placebo recipients was primarily attributed to local and systemic adverse events reported during the first 7 days following vaccination that are consistent with adverse reactions solicited among participants in the reactogenicity subset and presented in Tables 3 and 4. From Dose 1 through 30 days after Dose 2, reports of lymphadenopathy were imbalanced with notably more cases in the Pfizer-BioNTech COVID-19 Vaccine group (64) vs. the placebo group (6), which is plausibly related to vaccination. Throughout the safety follow-up period to date, Bell's palsy (facial paralysis) was reported by four participants in the Pfizer-BioNTech COVID-19 Vaccine group. Onset of facial paralysis was Day 37 after Dose 1 (participant did not receive Dose 2) and Days 3, 9, and 48 after Dose 2. No cases of Bell's palsy were reported in the placebo group. Currently available information is insufficient to determine a causal relationship with the vaccine. There were no other notable patterns or numerical imbalances between treatment groups for specific categories of non-serious adverse events (including other neurologic or neuroinflammatory, and thrombotic events) that would suggest a causal relationship to Pfizer-BioNTech COVID-19 Vaccine.

8 REQUIREMENTS AND INSTRUCTIONS FOR REPORTING ADVERSE EVENTS AND VACCINE ADMINISTRATION ERRORS

See Overall Safety Summary (Section 6) for additional information.

The vaccination provider enrolled in the federal COVID-19 Vaccination Program is responsible for MANDATORY reporting of the listed events following Pfizer-BioNTech COVID-19 Vaccine to the Vaccine Adverse Event Reporting System (VAERS):

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- Vaccine administration errors whether or not associated with an adverse event
- Serious adverse events* (irrespective of attribution to vaccination)
- Cases of Multisystem Inflammatory Syndrome (MIS) in children and adults
- Cases of COVID-19 that result in hospitalization or death

*Serious adverse events are defined as:

- Death
- A life-threatening adverse event
- Inpatient hospitalization or prolongation of existing hospitalization
- A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions
- A congenital anomaly/birth defect
- An important medical event that based on appropriate medical judgement may jeopardize the individual and may require medical or surgical intervention to prevent one of the outcomes listed above

Instructions for Reporting to VAERS

The vaccination provider enrolled in the federal COVID-19 Vaccination Program should complete and submit a VAERS form to FDA using one of the following methods:

- Complete and submit the report online: https://vaers.hhs.gov/reportevent.html, or
- If you are unable to submit this form electronically, you may fax it to VAERS at 1-877-721-0366. If you need additional help submitting a report you may call the VAERS toll-free information line at 1-800-822-7967 or send an email to info@vaers.org.

IMPORTANT: When reporting adverse events or vaccine administration errors to VAERS, please complete the entire form with detailed information. It is important that the information reported to FDA be as detailed and complete as possible. Information to include:

- Patient demographics (e.g., patient name, date of birth)
- Pertinent medical history
- Pertinent details regarding admission and course of illness
- Concomitant medications
- Timing of adverse event(s) in relationship to administration of the Pfizer-BioNTech COVID-19 Vaccine
- Pertinent laboratory and virology information
- Outcome of the event and any additional follow-up information if it is available at the time of the VAERS report. Subsequent reporting of follow-up information should be completed if additional details become available.

The following steps are highlighted to provide the necessary information for safety tracking:

- 1. In Box 17, provide information on Pfizer-BioNTech COVID-19 Vaccine and any other vaccines administered on the same day; and in Box 22, provide information on any other vaccines received within one month prior.
- 2. In Box 18, description of the event:
 - a. Write "Pfizer-BioNTech COVID-19 Vaccine EUA" as the first line.
 - b. Provide a detailed report of vaccine administration error and/or adverse event. It is important to provide detailed information regarding the patient and adverse event/medication error for ongoing safety evaluation of this unapproved vaccine. Please see information to include listed above.

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3. Contact information:

- a. In Box 13, provide the name and contact information of the prescribing healthcare provider or institutional designee who is responsible for the report.
- b. In Box 14, provide the name and contact information of the best doctor/healthcare professional to contact about the adverse event.
- c. In Box 15, provide the address of the facility where vaccine was given (NOT the healthcare provider's office address).

Other Reporting Instructions

Vaccination providers may report to VAERS other adverse events that are not required to be reported using the contact information above.

To the extent feasible, report adverse events to Pfizer Inc. using the contact information below or by providing a copy of the VAERS form to Pfizer Inc.

Website	Fax number	Telephone number	
www.pfizersafetyreporting.com	1-866-635-8337	1-800-438-1985	

10 DRUG INTERACTIONS

There are no data to assess the concomitant administration of the Pfizer-BioNTech COVID-19 Vaccine with other vaccines.

11 USE IN SPECIFIC POPULATIONS

11.1 Pregnancy

Risk Summary

All pregnancies have a risk of birth defect, loss, or other adverse outcomes. In the US general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. Available data on Pfizer-BioNTech COVID-19 Vaccine administered to pregnant women are insufficient to inform vaccine-associated risks in pregnancy.

11.2 Lactation

Risk Summary

Data are not available to assess the effects of Pfizer-BioNTech COVID-19 Vaccine on the breastfed infant or on milk production/excretion.

11.3 Pediatric Use

Emergency Use Authorization of Pfizer-BioNTech COVID-19 Vaccine in adolescents 16 and 17 years of age is based on extrapolation of safety and effectiveness from adults 18 years of age and older. Emergency Use Authorization of Pfizer BioNTech COVID-19 Vaccine does not include use in individuals younger than 16 years of age.

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11.4 Geriatric Use

Clinical studies of Pfizer-BioNTech COVID-19 Vaccine include participants 65 years of age and older and their data contributes to the overall assessment of safety and efficacy [see Overall Safety Summary (6.1) and Clinical Trial Results and Supporting Data for EUA (18.1)]. Of the total number of Pfizer-BioNTech COVID-19 Vaccine recipients in Study 2 (N=20,033), 21.4% (n=4,294) were 65 years of age and older and 4.3% (n=860) were 75 years of age and older.

13 DESCRIPTION

The Pfizer-BioNTech COVID-19 Vaccine is supplied as a frozen suspension in multiple dose vials; each vial must be diluted with 1.8 mL of sterile 0.9% Sodium Chloride Injection, USP prior to use to form the vaccine. Each dose of the Pfizer-BioNTech COVID-19 Vaccine contains 30 mcg of a nucleoside-modified messenger RNA (modRNA) encoding the viral spike (S) glycoprotein of SARS-CoV-2.

Each dose of the Pfizer-BioNTech COVID-19 Vaccine also includes the following ingredients: lipids (0.43 mg (4-hydroxybutyl)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate), 0.05 mg 2[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide, 0.09 mg 1,2-distearoyl-sn-glycero-3-phosphocholine, and 0.2 mg cholesterol), 0.01 mg potassium chloride, 0.01 mg monobasic potassium phosphate, 0.36 mg sodium chloride, 0.07 mg dibasic sodium phosphate dihydrate, and 6 mg sucrose. The diluent (0.9% Sodium Chloride Injection, USP) contributes an additional 2.16 mg sodium chloride per dose.

The Pfizer-BioNTech COVID-19 Vaccine does not contain preservative. The vial stoppers are not made with natural rubber latex.

14 CLINICAL PHARMACOLOGY

14.1 Mechanism of Action

The modRNA in the Pfizer-BioNTech COVID-19 Vaccine is formulated in lipid particles, which enable delivery of the RNA into host cells to allow expression of the SARS-CoV-2 S antigen. The vaccine elicits an immune response to the S antigen, which protects against COVID-19.

18 CLINICAL TRIAL RESULTS AND SUPPORTING DATA FOR EUA

18.1 Efficacy in Participants 16 Years of Age and Older

Study 2 is a multicenter, multinational, Phase 1/2/3, randomized, placebo-controlled, observer-blind, dose-finding, vaccine candidate—selection, and efficacy study in participants 12 years of age and older. Randomization was stratified by age: 12 through 15 years of age, 16 through 55 years of age, or 56 years of age and older, with a minimum of 40% of participants in the ≥56-year stratum. The study excluded participants who were immunocompromised and those who had previous clinical or microbiological diagnosis of COVID-19. Participants with preexisting stable disease, defined as disease not requiring significant change in therapy or hospitalization for worsening disease during the 6 weeks before enrollment, were included as were participants with known stable infection with human immunodeficiency virus (HIV), hepatitis C virus (HCV), or hepatitis B virus (HBV).

In the Phase 2/3 portion approximately 44,000 participants 12 years of age and older were randomized equally and received 2 doses of Pfizer-BioNTech COVID-19 Vaccine or placebo separated by 21 days. Participants are planned to be followed for up to 24 months, for assessments of safety and efficacy against COVID-19.

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The population for the analysis of the primary efficacy endpoint included, 36,621 participants 12 years of age and older (18,242 in the Pfizer-BioNTech COVID-19 Vaccine group and 18,379 in the placebo group) who did not have evidence of prior infection with SARS-CoV-2 through 7 days after the second dose. Table 5 presents the specific demographic characteristics in the studied population.

Table 5: Demographics (population for the primary efficacy endpoint)^a

	Pfizer-BioNTech COVID-19 Vaccine (N=18,242) n (%)	Placebo (N=18,379) n (%)
Sex	(1.1)	(**)
Male	9318 (51.1)	9225 (50.2)
Female	8924 (48.9)	9154 (49.8)
Age (years)		
Mean (SD)	50.6 (15.70)	50.4 (15.81)
Median	52.0	52.0
Min, max	(12, 89)	(12, 91)
Age group		
≥12 through 15 years	46 (0.3)	42 (0.2)
≥16 through 17 years	66 (0.4)	68 (0.4)
≥16 through 64 years	14,216 (77.9)	14,299 (77.8)
≥65 through 74 years	3176 (17.4)	3226 (17.6)
≥75 years	804 (4.4)	812 (4.4)
Race		
White	15,110 (82.8)	15,301 (83.3)
Black or African American	1617 (8.9)	1617 (8.8)
American Indian or Alaska Native	118 (0.6)	106 (0.6)
Asian	815 (4.5)	810 (4.4)
Native Hawaiian or other Pacific Islander	48 (0.3)	29 (0.2)
Other ^b	534 (2.9)	516 (2.8)
Ethnicity		
Hispanic or Latino	4886 (26.8)	4857 (26.4)
Not Hispanic or Latino	13,253 (72.7)	13,412 (73.0)
Not reported	103 (0.6)	110 (0.6)
Comorbidities ^c		
Yes	8432 (46.2)	8450 (46.0)
No	9810 (53.8)	9929 (54.0)

- a. All eligible randomized participants who receive all vaccination(s) as randomized within the predefined window, have no other important protocol deviations as determined by the clinician, and have no evidence of SARS-CoV-2 infection prior to 7 days after Dose 2.
- b. Includes multiracial and not reported.
- c. Number of participants who have 1 or more comorbidities that increase the risk of severe COVID-19 disease
 - Chronic lung disease (e.g., emphysema and chronic bronchitis, idiopathic pulmonary fibrosis, and cystic fibrosis) or moderate to severe asthma
 - Significant cardia c disease (e.g., heart failure, coronary artery disease, congenital heart disease, cardiomyopathies, and pulmonary hypertension)
 - Obesity (body mass index ≥ 30 kg/m²)
 - Diabetes (Type 1, Type 2 or gestational)
 - Liver disease
 - Human Immunodeficiency Virus (HIV) in fection (not included in the efficacy evaluation)

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The population in the primary efficacy analysis included all participants 12 years of age and older who had been enrolled from July 27,2020, and followed for the development of COVID-19 through November 14,2020. Participants 18 to 55 years of age and 56 years of age and older began enrollment from July 27,2020, 16 to 17 years of age began enrollment from September 16, 2020 and 12 to 15 years of age began enrollment from October 15, 2020.

The vaccine efficacy information is presented in Table 6.

Table 6: Vaccine Efficacy – First COVID-19 Occurrence From 7 Days After Dose 2, by Age Subgroup – Participants Without Evidence of Infection and Participants With or Without Evidence of Infection Prior to 7 Days After Dose 2 – Evaluable Efficacy (7 Days) Population

•	First COVID-19 occurrence from 7 days after Dose 2 in participants without evidence of prior					
	SARS-CoV	-2 infection*				
	Pfizer-BioNTech Placebo COVID-19 Vaccine					
	N ^a =18,198	$N^a=18,325$				
	Cases	Cases				
n1 ^b n1 ^b Vaccine Efficacy						
Subgroup	Surveillance Time ^c (n2 ^d)	Surveillance Time ^c (n2 ^d)	(95% CI)			
All subjects ^e	8	162	95.0 (90.3, 97.6) ^f			
	2.214 (17,411)	2.222 (17,511)				
16 to 64 years	7	143	95.1 (89.6, 98.1) ^g			
	1.706 (13,549)	1.710 (13,618)				
	())					
65 years and older	1	19	94.7 (66.7, 99.9) ^g			

First COVID-19 occurrence from 7 days after Dose 2 in participants with or without evidence of prior SARS-CoV-2 infection

SARS-COV-2 infection					
	Pfizer-BioNTech	Placebo			
	COVID-19 Vaccine				
	$N^a=19,965$	$N^a=20,172$			
	Cases	Cases			
	n1 ^b	n1 ^b	Vaccine Efficacy %		
Subgroup	Surveillance Time ^c (n2 ^d)	Surveillance Time ^c (n2 ^d)	(95% CI)		
All subjects ^e	9	169	94.6 (89.9, 97.3) ^f		
	2.332 (18,559)	2.345 (18,708)			
16 to 64 years	8	150	94.6 (89.1, 97.7) ^g		
-	1.802 (14,501)	1.814 (14,627)			
65 years and older	1	19	94.7 (66.8, 99.9) ^g		
	0.530 (4044)	0.532 (4067)			

Note: Confirmed cases were determined by Reverse Transcription-Polymerase Chain Reaction (RT-PCR) and at least 1 symptom consistent with COVID-19 (symptoms included: fever; new or increased cough; new or increased shortness of breath; chills; new or increased muscle pain; new loss of taste or smell; sore throat; diarrhea; vomiting).

- * Participants who had no evidence of past SARS-CoV-2 infection (i.e., N-binding antibody [serum] negative at Visit 1 and SARS-CoV-2 not detected by NAAT [nasal swab] at Visits 1 and 2), and had negative NAAT (nasal swab) at any unscheduled visit prior to 7 days after Dose 2 were included in the analysis.
- a. N = number of participants in the specified group.
- b. n1 = Number of participants meeting the endpoint definition.
- c. Total surveillance time in 1000 person-years for the given endpoint across all participants within each group a trisk for the endpoint. Time period for COVID-19 case accrual is from 7 days after Dose 2 to the end of the surveillance period.

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d. n2 = Number of participants a trisk for the endpoint.

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- e. No confirmed cases were identified in participants 12 to 15 years of age.
- f. Credible interval for VE was calculated using a beta-binomial model with a beta (0.700102, 1) prior for $\theta = r(1-VE)/(1+r(1-VE))$, where r is the ratio of surveillance time in the active vaccine group over that in the placebo group.
- g. Confidence interval (CI) for vaccine efficacy is derived based on the Clopper and Pearson method adjusted to the surveillance time.

19 HOW SUPPLIED/STORAGE AND HANDLING

Pfizer-BioNTech COVID-19 Vaccine Suspension for Intramuscular Injection, Multiple Dose Vials are supplied in a carton containing 25 multiple dose vials (NDC 59267-1000-3) or 195 multiple dose vials (NDC 59267-1000-2). After dilution, one vial contains up to 6 doses of 0.3 mL. Vial labels and cartons may state that after dilution, a vial contains 5 doses of 0.3 mL. The information on the number of doses per vial after dilution in this Fact Sheet supersedes the number of doses stated on vial labels and cartons.

During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light.

Do not refreeze thawed vials.

Frozen Vials Prior to Use

Cartons of Pfizer-BioNTech COVID-19 Vaccine Multiple Dose Vials arrive in thermal containers with dry ice. Once received, remove the vial cartons immediately from the thermal container and store in an ultra-low temperature freezer between -80°C to -60°C (-112°F to -76°F). Vials must be kept frozen between -80°C to -60°C (-112°F to -76°F) and protected from light, in the original cartons, until ready to use.

If an ultra-low temperature freezer is not available, the thermal container in which the Pfizer-BioNTech COVID-19 Vaccine arrives may be used as <u>temporary</u> storage when consistently re-filled to the top of the container with dry ice. <u>Refer to the re-icing guidelines packed in the original thermal container for instructions regarding the use of the thermal container for temporary storage</u>. The thermal container maintains a temperature range of -90°C to -60°C (-130°F to -76°F). Storage within this temperature range is not considered an excursion from the recommended storage condition.

Thawed Vials Before Dilution

Thawed Under Refrigeration

Thaw and then store undiluted vials in the refrigerator [2°C to 8°C (35°F to 46°F)] for up to 5 days (120 hours). A carton of 25 vials or 195 vials may take up to 2 or 3 hours, respectively, to thaw in the refrigerator, whereas a fewer number of vials will thaw in less time.

Thawed at Room Temperature

For immediate use, thaw undiluted vials at room temperature [up to 25°C (77°F)] for 30 minutes. Thawed vials can be handled in room light conditions.

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Vials must reach room temperature before dilution.

Undiluted vials may be stored at room temperature for no more than 2 hours.

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Vials After Dilution

After dilution, store vials between 2°C to 25°C (35°F to 77°F) and use within 6 hours from the time of dilution. During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. Any vaccine remaining in vials must be discarded after 6 hours. Do not refreeze.

20 PATIENT COUNSELING INFORMATION

Advise the recipient or caregiver to read the Fact Sheet for Recipients and Caregivers.

The vaccination provider must include vaccination information in the state/local jurisdiction's Immunization Information System (IIS) or other designated system. Advise recipient or caregiver that more information about IISs can be found at: https://www.cdc.gov/vaccines/programs/iis/about.html.

21 CONTACT INFORMATION

For general questions, visit the website or call the telephone number provided below.

Website	Telephone number	
www.cvdvaccine.com		
	1-877-829-2619 (1-877-VAX-CO19)	

This Full EUA Prescribing Information may have been updated. For the most recent Full EUA Prescribing Information, please see www.cvdvaccine.com.



Pfizer Inc., New York, NY 10017

Manufactured for BioNTech Manufacturing GmbH An der Goldgrube 12 55131 Mainz, Germany

LAB-1457-3.0

Revised: December 2020

Revised: 12/2020

PRODUCT NAME: Pfizer-BioNTech COVID-19 Vaccine

Emergency Use Authorization (EUA) Fact Sheet for Healthcare Providers and Full EUA Prescribing Information Version History for the Reporting Period 1 December 2020 to 31 December 2020:

Version	Effective	Sections Changed
number	Date	
Emergency Use Authorization (EUA) Fact Sheet for Healthcare Providers		
LAB-1450-3.0	23-Dec-2020	Warnings
		INFORMATION TO PROVIDE TO VACCINE
		RECIPIENTS/CAREGIVERS
Full EUA Prescribing Information		
LAB-1457-3.0	23-Dec-2020	WARNINGS AND PRECAUTIONS

Emergency Use Authorization Fact Sheet for Healthcare Providers

EMERGENCY USE AUTHORIZATION (EUA) OF THE PFIZER-BIONTECH COVID-19 VACCINE TO PREVENT CORONAVIRUS DISEASE 2019 (COVID-19)

No safety changes during the reporting period

SUMMARY OF INSTRUCTIONS FOR COVID-19 VACCINATION PROVIDER

No safety changes during the reporting period

DESCRIPTION OF COVID-19

No safety changes during the reporting period

DOSAGE AND ADMINISTRATION - Storage and Handling

No safety changes during the reporting period

DOSAGE AND ADMINISTRATION - Dosing and Schedule

No safety changes during the reporting period

DOSAGE AND ADMINISTRATION - Administration

No safety changes during the reporting period

Contraindications

No safety changes during the reporting period

PFIZER CONFIDENTIAL

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PRODUCT NAME: Pfizer-BioNTech COVID-19 Vaccine

Warnings

LAB-1450-3.0 23-Dec-2020 2020-0066762

Safety/Non-safety: Safety

Content change:

Monitor Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines (https://www.cdc.gov/vaccines/covid-19/).

Adverse Reactions

No safety changes during the reporting period

Use with Other Vaccines

No safety changes during the reporting period

INFORMATION TO PROVIDE TO VACCINE RECIPIENTS/CAREGIVERS

LAB-1450-3.0 23-Dec-2020 2020-0066762

<u>Safety/Non-safety:</u> Safety (included per local Health Authority requirement for COVID-19 Vaccines)

Content change:

Provide the **v-safe** information sheet to vaccine recipients/caregivers and encourage vaccine recipients to participate in **v-safe**. **V-safe** is a new voluntary smartphone-based tool that uses text messaging and web surveys to check in with people who have been vaccinated to identify potential side effects after COVID-19 vaccination. **V-safe** asks questions that help CDC monitor the safety of COVID-19 vaccines. **V-safe** also provides second-dose reminders if needed and live telephone follow-up by CDC if participants report a significant health impact following COVID-19 vaccination. For more information, visit: www.cdc.gov/vsafe.

MANDATORY REQUIREMENTS FOR PFIZER-BIONTECH COVID-19 VACCINE ADMINISTRATION UNDER EMERGENCY USE AUTHORIZATION

No safety changes during the reporting period

PFIZER CONFIDENTIAL

Page 2 of 4

PRODUCT NAME: Pfizer-BioNTech COVID-19 Vaccine

OTHER ADVERSE EVENT REPORTING TO VAERS AND PFIZER INC.

No safety changes during the reporting period

ADDITIONAL INFORMATION

No safety changes during the reporting period

AVAILABLE ALTERNATIVES

No safety changes during the reporting period

AUTHORITY FOR ISSUANCE OF THE EUA

No safety changes during the reporting period

The Countermeasures Injury Compensation Program

No safety changes during the reporting period

Full Emergency Use Authorization Prescribing Information

1 AUTHORIZED USE

No safety changes during the reporting period

2 DOSAGE AND ADMINISTRATION

No safety changes during the reporting period

3 DOSAGE FORMS AND STRENGTHS

No safety changes during the reporting period

4 CONTRAINDICATIONS

No safety changes during the reporting period

5 WARNINGS AND PRECAUTIONS

LAR-1	457-3.0	23-Dec-20	20
	T.) / T.) .U	1 43-17-0-40	/ _ U

2020-0066762

Safety/Non-safety: Safety

Content change:

5.1 Management of Acute Allergic Reactions

PFIZER CONFIDENTIAL

Page 3 of 4

PRODUCT NAME: Pfizer-BioNTech COVID-19 Vaccine

Appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs following administration of Pfizer-BioNTech COVID-19 Vaccine.

Monitor Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions according to the Centers for Disease Control and Prevention guidelines (https://www.cdc.gov/vaccines/covid-19/).

6 OVERALL SAFETY SUMMARY

No safety changes during the reporting period

8 REQUIREMENTS AND INSTRUCTIONS FOR REPORTING ADVERSE EVENTS AND VACCINE ADMINISTRATION ERROR

No safety changes during the reporting period

10 DRUG INTERACTIONS

No safety changes during the reporting period

11 USE IN SPECIFIC POPULATION

No safety changes during the reporting period

13 DESCRIPTION

No safety changes during the reporting period

14 CLINICAL PHARMACOLOGY

No safety changes during the reporting period

18 CLINICAL TRIAL RESULTS AND SUPPORTING DATA FOR EUA

No safety changes during the reporting period

19 HOW SUPPLIED/STORAGE AND HANDLING

No safety changes during the reporting period

20 PATIENT COUNSELING INFORMATION

No safety changes during the reporting period

21 CONTACT INFORMATION

No safety changes during the reporting period

PFIZER CONFIDENTIAL

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As of Date: 01-JAN-2021



APPENDIX 2 Interval Number of Case Reports (Serious and Non-Serious, Medically Confirmed and Non-Medically Confirmed) from Post-Marketing Data Sources, Overall, by Sex, Country, Age Groups and in Special Populations

PF-07302048 - ALL

Reporting Period: 01-DEC-2020 Through 31-DEC-2020 Total Number of Cases: 3615 (100%) (ALL) / 3615 (OVERALL) Total Number of Adverse Events (PT): 11828 (ALL)

NON CT

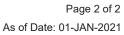
Total Number of Cases: 3615

Total Number of Adverse Events (PT): 11828

	Total Number of Adverse Events (PT):		Deventors (9/1
Sex		Number of Cases	Percentage (%)
	FEMALE	2478	68.5 %
	MALE	679	18.8 %
	NO DATA	458	12.7 %
Age Range			
Min = 0.12 Years	0 to 27 days	1	0.0 %
Max = 98.0 Years	28 days to 23 months	15	0.4 %
	2 to 11 years	3	0.1 %
Mean = 44.5	12 to 17 years	3	0.1 %
Median = 43.0	18 - 30 years	480	13.3 %
Standard Deviation = 15.17	31 - 50 years	1299	35.9 %
n = 2703	51 - 64 years	685	18.9 %
	65 - 74 years	112	3.1 %
n = 2703	Greater than or equal to 75 years	113	3.1 %
	Unknown	904	25.0 %
Country Where Event Occured	UNITED STATES	2526	69.9 %
	UNITED KINGDOM	891	24.6 %
	ISRAEL	81	2.2 %
	GERMANY	19	0.5 %
	ROMANIA	17	0.5 %
	CANADA	14	0.4 %
	PUERTO RICO	14	0.4 %
	CHILE	8	0.2 %
	MEXICO	6	0.2 %
	CROATIA	5	0.1 %
	ITALY	5	0.1 %
	POLAND	3	0.1 %
	PORTUGAL	3	0.1 %
	SPAIN	3	0.1 %
	BULGARIA	2	0.1 %
	GREECE	2	0.1 %
	HUNGARY	2	0.1 %
	INDIA	2	0.1 %
	QATAR	2	0.1 %
	AFGHANISTAN	1	0.0 %
		1	0.0 %
	CYPRUS	FDA-CBER-2021-568	

FDA-CBER-2021-3003-1070900

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		Number of Cases	Percentage (%
Country Where Event Occured			
	MALTA	1	0.0
	OMAN	1	0.0
	SLOVAKIA	1	0.0
	SLOVENIA	1	0.0
	SWEDEN	1	0.0
	SWITZERLAND	1	0.0
	UNITED ARAB EMIRATES	1	0.0
	UNITED STATES MINOR OUTLYING ISLANDS	1	0.0
Source			
	Spontaneous	3615	100.0
Case Seriousness			
	SERIOUS	654	18.1
	NONSERIOUS	2961	81.9
HP/Medically Confirmed			
	Yes	2588	71.6
	No	1027	28.4
Special Populations	Pregnant/Breastfeeding Women		
	Yes	68	1.9
	Pediatric Non EIU		
	Yes	7	0.2
	Elderly		
	Yes	225	6.2
	Race/Ethnicity		0.
	ASIAN - HISPANIC OR LATINO	2	0.
	ASIAN - NO DATA	110	3.
	ASIAN - NOT HISPANIC OR LATINO	75	2.
	BLACK - HISPANIC OR LATINO	3	0.
	BLACK - NO DATA	50	1.4
	BLACK - NOT HISPANIC OR LATINO	29	0.
	BLACK - OTHER	1	0.0
	CAUCASIAN - HISPANIC OR LATINO	66	1.4
	CAUCASIAN - NO DATA	634	17.
	CAUCASIAN - NOT HISPANIC OR LATINO	479	13.
	NATIVE AMERICAN - HISPANIC OR LATINO	1	0.
	NATIVE AMERICAN - NO DATA	14	0
	NATIVE AMERICAN - NOT HISPANIC OR LATINO	5	0.
	NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - HISPANIC OR LATINO	1	0.0
	NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - NO DATA	2	0.1
	NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - NOT HISPANIC OR LATINO	5	0.
	NO DATA - HISPANIC OR LATINO	93	2.0
	NO DATA - NO DATA	2022	55.9
	NO DATA - NOT HISPANIC OR LATINO	17	0.0
	NO DATA - OTHER	6	0.:

FDA-CBER-2021-5683-1078981

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Page 1 of 3 As of Date: 01-JAN-2021

APPENDIX 2.1 Cumulative Number of Case Reports (Serious and Non-Serious, Medically Confirmed and Non Medically-Confirmed) from Post-Marketing Data Sources, Overall, by Sex, Country, Age Groups and in Special Populations

PF-07302048 - ALL

Reporting Period: Through 31-DEC-2020
Total Number of Cases: 3615 (100%) (ALL) / 3615 (OVERALL)
Total Number of Adverse Events (PT): 11828 (ALL)

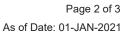
NON CT

Total Number of Cases: 3615
Total Number of Adverse Events (PT): 11828

	Total Number of Adverse Events (P	·	
		Number of Cases	Percentage (%)
Sex			
	FEMALE	2478	68.5 %
	MALE	679	18.8 %
	NO DATA	458	12.7 %
Age Range			
Min = 0.12 Years	0 to 27 days	1	0.0 %
Max = 98.0 Years	28 days to 23 months	15	0.4 %
Mean = 44.5	2 to 11 years	3	0.1 %
	12 to 17 years	3	0.1 %
Median = 43.0	18 - 30 years	480	13.3 %
Standard Deviation = 15.17 n = 2703	31 - 50 years	1299	35.9 %
n = 2703	51 - 64 years	685	18.9 %
	65 - 74 years	112	3.1 %
	Greater than or equal to 75 years	113	3.1 %
	Unknown	904	25.0 %
Country Where Event Occured			
	UNITED STATES	2526	69.9 %
	UNITED KINGDOM	891	24.6 %
	ISRAEL	81	2.2 %
	GERMANY	19	0.5 %
	ROMANIA	17	0.5 %
	CANADA	14	0.4 %
	PUERTO RICO	14	0.4 %
	CHILE	8	0.2 %
	MEXICO	6	0.2 %
	CROATIA	5	0.1 %
-	ITALY	5	0.1 %
	POLAND	3	0.1 %
	PORTUGAL	3	0.1 %
	SPAIN	3	0.1 %
	BULGARIA	2	0.1 %
	GREECE	2	0.1 %
	HUNGARY	2	0.1 %
	INDIA	2	0.1 %
	QATAR	2	0.1 %
	AFGHANISTAN	1	0.0 %
	A GIANOTAN	 FDA-CBER-2021-5683	

FDA-CBER-2021-5683-1078982

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Number of Cases Percentage (%) **Country Where Event Occured CYPRUS** 1 0.0 % 1 MALTA 0.0 % 1 0.0 % OMAN SLOVAKIA 1 0.0 % 1 SLOVENIA 0.0 % **SWEDEN** 1 0.0 % SWITZERLAND 1 0.0 % UNITED ARAB EMIRATES 1 0.0 % UNITED STATES MINOR OUTLYING ISLANDS 1 0.0 % Source 3615 100.0 % Spontaneous Case Seriousness **SERIOUS** 654 18.1 % **NONSERIOUS** 2961 81.9 % HP/Medically Confirmed 2588 Yes 71.6 % No 1027 28.4 % 090177e1960238b8\Approved\Approved On: 14-Jan-2021 07:46 (GMT Special Populations Pregnant/Breastfeeding Women 68 1.9 % **Pediatric Non EIU** 7 0.2 % Elderly Yes 225 6.2 %



	Number of Cases	Percentage (%)
Race/Ethnicity		
ASIAN - HISPANIC OR LATINO	2	0.1 %
ASIAN - NO DATA	110	3.0 %
ASIAN - NOT HISPANIC OR LATINO	75	2.1 %
BLACK - HISPANIC OR LATINO	3	0.1 %
BLACK - NO DATA	50	1.4 %
BLACK - NOT HISPANIC OR LATINO	29	0.8 %
BLACK - OTHER	1	0.0 %
CAUCASIAN - HISPANIC OR LATINO	66	1.8 %
CAUCASIAN - NO DATA	634	17.5 %
CAUCASIAN - NOT HISPANIC OR LATINO	479	13.3 %
NATIVE AMERICAN - HISPANIC OR LATINO	1	0.0 %
NATIVE AMERICAN - NO DATA	14	0.4 %
NATIVE AMERICAN - NOT HISPANIC OR LATINO	5	0.1 %
NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - HISPANIC OR LATINO	1	0.0 %
NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - NO DATA	2	0.1 %
NATIVE HAWAIIAN / OTHER PACIFIC ISLANDER - NOT HISPANIC OR LATINO	5	0.1 %
NO DATA - HISPANIC OR LATINO	93	2.6 %
NO DATA - NO DATA	2022	55.9 %
NO DATA - NOT HISPANIC OR LATINO	17	0.5 %
NO DATA - OTHER	6	0.2 %



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Appendix 2.2 Interval Summary Tabulation of Case Reports with DME Events from Post-Marketing Data Sources

PF-07302048 - ALL

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval)

Total Number of Cases with DME 76 (Interval)

Total Number of Adverse Events (PT) (DME only) 84 (Interval)

MedDRA Version: v.23.1J

SOC and PT	Number of Events	Percentage (%)
On a track a through the condense	4	
Gastrointestinal disorders	1	
Pancreatitis	1	0.0 %
General disorders and administration site conditions	2	
Face oedema	2	0.1 %
Immune system disorders	41	
Anaphylactic reaction	32	0.9 %
Anaphylactic shock	4	0.1 %
Anaphylactoid reaction	5	0.1 %
Investigations	1	
Electrocardiogram QT prolonged	1	0.0 %
Respiratory, thoracic and mediastinal disorders	28	
Laryngeal oedema	2	0.1 %
Pharyngeal swelling	26	0.7 %
Skin and subcutaneous tissue disorders	11	
Angioedema	11	0.3 %



As of Date: 01-JAN-2021



APPENDIX 2.3: Cumulative and Interval Summary Tabulation of Serious and Non-Serious Case Reports From Post-Marketing Data Sources by Medically Confirmed and Non Medically Confirmed, Region and Country

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval) / 3,615 (Cumulative)

MedDRA Version: v.23.1J

Medically Confirmed

Region: European Countries (27 EU)			Spontaneous					
	Interval Total #	Cumulative Total #	Nonserious		Serious Fatal		Serious Non Fatal	
Country where Event Occurred	Spontaneous Cases	Spontaneous Cases	1	С	I	С	I	С
BULGARIA	2	2	2	2				
CROATIA	4	4	4	4				
GERMANY	16	16	11	11			5	5
GREECE	2	2	1	1			1	1
HUNGARY	2	2	1	1			1	1
ITALY	5	5	5	5				
MALTA	1	1					1	1
POLAND	3	3	3	3				
PORTUGAL	3	3	3	3				
ROMANIA	17	17	17	17				
SLOVENIA	1	1	1	1				
SPAIN	3	3	2	2			1	1
SWEDEN	1	1			1	1		
	60	60	50	50	1	1	9	9

^{*} I=Interval, C=Cumulative





Medically Confirmed

Region: Non-European Countries	n: Non-European Countries			Spontaneous						
	Interval Total #	Cumulative Total #	Nonserious		Serious Fatal		Serious Non Fatal			
Country where Event Occurred	Spontaneous Cases	Spontaneous Cases	I	С	ı	С	I	С		
AFGHANISTAN	1	1					1	1		
CANADA	10	10	8	8			2	2		
CHILE	8	8	8	8						
NDIA	1	1	1	1						
SRAEL	41	41	36	36	2	2	3	3		
MEXICO	5	5	4	4			1	1		
PUERTO RICO	11	11	11	11	,					
QATAR	2	2	1	1			1	1		
SWITZERLAND	1	1			1	1				
UNITED KINGDOM	624	624	464	464	2	2	158	158		
UNITED STATES	1,823	1,823	1564	1564	1	1	258	258		
UNITED STATES MINOR OUTLYING ISLANDS	1	1	1	1						
	2,528	2,528	2098	2098	6	6	424	424		

^{*} I=Interval, C=Cumulative





Non Medically Confirmed

Region: European Countries (27 EU)				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Serious Non Fatal	
Country where Event Occurred	Spontaneous Cases	Spontaneous Cases	I	С	I	С
CROATIA	1	1	1	1		
GERMANY	3	3	1	1	2	2
SLOVAKIA	1	1	1	1		
	5	5	3	3	2	2

Region: Non-European Countries					Sponta	aneous		
	Interval Total #	Cumulative Total #	Nons	serious	Seriou	s Fatal	Serious I	Non Fatal
Country where Event Occurred	Spontaneous Cases	Spontaneous Cases	- 1	С	1	С	1	С
CANADA	4	4	3	3			1	1
CYPRUS	1	1			1	1		
INDIA	1	1	1	1				
ISRAEL	40	40	36	36	1	1	3	3
MEXICO	1	1	1	1				
OMAN	1	1	1	1				,
PUERTO RICO	3	3	3	3				
UNITED ARAB EMIRATES	1	1	1	1				
UNITED KINGDOM	267	267	141	141			126	126
UNITED STATES	703	703	623	623	1	1	79	79
	1,022	1,022	810	810	3	3	209	209

^{*} I=Interval, C=Cumulative



Appendix 2.4: Cumulative and Interval Summary Tabulation of Fatal Case Reports From Post-Marketing Data Sources by Country

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 10 (Interval) / 10 (Cumulative)

MedDRA Version: v.23.1J

			Spontaneous Serious Fatal		
	Interval Total #	Cumulative Total #			
Country where Event Occurred	Spontaneous Cases	Spontaneous Cases	I	С	
CYPRUS	1	1	1	1	
ISRAEL	3	3	3	3	
SWEDEN	1	1	1	1	
SWITZERLAND	1	1	1	1	
UNITED KINGDOM	2	2	2	2	
UNITED STATES	2	2	2	2	
	10	10	10	10	



As of Date: 01-JAN-2021



APPENDIX 2.5: Cumulative and Interval Summary Tabulation of Serious and Non-Serious Adverse Reactions From Post-Marketing Data Sources Organized per MedDRA System Organ Class by Preferred Term

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval) / 3,615 (Cumulative)

Total Number of Adverse Events (PT): 11,824 (Interval) / 11,824 (Cumulative)

MedDRA Version: v.23.1J

System Organ Class

Blood and lymphatic system disorders	lood and lymphatic system disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious				
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С			
Leukopenia	1	1	1	1					
Lymphadenitis	2	2	2	2					
Lymphadenopathy	118	118	95	95	23	23			
Lymph node pain	25	25	20	20	5	5			
Thrombotic thrombocytopenic purpura	1	1			1	1			
	147	147	118	118	29	29			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Cardiac disorders		Cumulative Total #	Spontaneous				
	Interval Total #		Nons	Nonserious		ious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С	
Acute myocardial infarction	2	2			2	2	
Arrhythmia	2	2	1	1	1	1	
Atrial f brillation	1	1			1	1	
Bradycardia	1	1			1	1	
Cardiac arrest	5	5			5	5	
Cardiac discomfort	1	1	1	1			
Cardiac disorder	2	2	2	2			
Cardiac failure	1	1			1	1	
Cardiac flutter	1	1			1	1	
Extrasystoles	1	1			1	1	
Myocardial infarction	2	2	1	1	1	1	
Palpitations	71	71	54	54	17	17	
Pericarditis	2	2	2	2			
Sinus bradycardia	1	1			1	1	
Sinus tachycardia	4	4	3	3	1	1	
Supraventricular tachycardia	4	4			4	4	
Tachycardia	78	78	59	59	19	19	
/entricular extrasystoles	5	5	3	3	2	2	
/entricular fibrillation	1	1			1	1	
Ventricular tachycardia	1	1	1	1			
	186	186	127	127	59	59	

System Organ Class

Congenital, familial and genetic disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С		
Congenital anomaly	1	1			1	1		
Muscular dystrophy	1	1	1	1				
	2	2	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Ear and labyrinth disorders				Spont	Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С	
Deafness	4	4	3	3	1	1	
Deafness neurosensory	2	2			2	2	
Deafness unilateral	1	1			1	1	
Ear discomfort	6	6	5	5	1	1	
Ear disorder	1	1	1	1			
Ear pain	18	18	14	14	4	4	
Ear swelling	4	4	3	3	1	1	
Hyperacusis	2	2	1	1	1	1	
Hypoacusis	4	4	3	3	1	1	
Motion sickness	2	2	2	2			
Paraesthesia ear	1	1	1	1			
Tinnitus	26	26	18	18	8	8	
Vertigo	21	21	16	16	5	5	
	92	92	67	67	25	25	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Eye disorders					Spontaneous				
	Interval Total #	Cumulative Total # Spontaneous AE	Nonserious		Serious				
Preferred Term	Spontaneous AE		1	С	1	С			
Abnormal sensation in eye	1	1	1	1					
Asthenopia	3	3	3	3					
Blepharospasm	1	1	1	1					
Blindness transient	1	1			1	1			
Conjunctival haemorrhage	1	1			1	1			
Diplopia	2	2	2	2					
Ory eye	1	1	1	1					
Erythema of eyelid	1	1	1	1					
Eye discharge	2	2	2	2					
Eye disorder	5	5	5	5					
Eye haemorrhage	2	2			2	2			
Eye inflammation	1	1	1	1					
Eye irritation	3	3	3	3					
Eyelids pruritus	2	2	2	2					
Eye pain	17	17	15	15	2	2			
Eye pruritus	9	9	7	7	2	2			
Eye swelling	19	19	17	17	2	2			
acrimation increased	2	2	2	2					
Maculopathy	1	1			1	1			
Metamorphopsia	1	1			1	1			
Ocular discomfort	3	3	3	3					
Ocular hyperaemia	7	7	7	7					
Periorbital discomfort	1	1	1	1					
Periorbital oedema	1	1	1	1					
Periorbital swelling	9	9	7	7	2	2			
Photophobia	13	13	8	8	5	5			
Photopsia	1	1	1	1					
Swelling of eyelid	10	10	9	9	1	1			
/ision blurred	22	22	17	17	5	5			
/isual impairment	9	9	7	7	2	2			
Vitreous floaters	1	1	1	1					
	152	152	125	125	27	27			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Abdominal discomfort	16	16	16	16		
Abdominal distension	5	5	4	4	1	1
Abdominal pain	30	30	26	26	4	4
Abdominal pain lower	6	6	4	4	2	2
Abdominal pain upper	26	26	21	21	5	5
Abdominal rigidity	1	1			1	1
Abnormal faeces	1	1	1	1		
Anaesthesia oral	1	1	1	1		
Anal haemorrhage	1	1			1	1
Aptyalism	1	1	1	1		
Cheilitis	1	1	1	1		
Constipation	1	1	1	1		
Defaecation urgency	2	2	1	1	1	1
Dental paraesthesia	2	2	2	2		
Diarrhoea	134	134	111	111	23	23
Diarrhoea haemorrhagic	2	2	1	1	1	1
Dry mouth	30	30	24	24	6	6
Dyspepsia	5	5	5	5		
Dysphagia	12	12	9	9	3	3
Enlarged uvula	1	1			1	1
Enteritis	1	1	1	1		
Faeces discoloured	1	1	1	1		
Faeces pale	1	1	1	1		
Flatulence	2	2	2	2		
Food poisoning	1	1	1	1		
Frequent bowel movements	3	3	2	2	1	1
Gastritis	2	2	2	2		
Gastrointestinal disorder	6	6	6	6		
Gastrointestinal hypermotility	1	1			1	1
Gastrointestinal pain	2	2	1	1	1	1
Gingival bleeding	2	2	2	2		
Gingival discolouration	1	1			1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Gastrointestinal	disorders
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	Interval Total #	Cumulativa Tatal #
Drafa read Tarm	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE
Preferred Term		
Gingival discomfort	1	1
Gingival pain	3	3
Glossodynia	4	4
Haematemesis	1	1
Haematochezia	1	1
Hypoaesthesia oral	38	38
Infantile vomiting	1	1
Lip blister	2	2
Lip disorder	3	3
Lip dry	1	1
Lip erythema	2	2
Lip oedema	2	2
Lip pain	3	3
Lip pruritus	3	3
Lip swelling	31	31
Mouth swelling	6	6
Mouth ulceration	5	5
Mucous stools	1	1
Nausea	407	407
Odynophagia	2	2
Oral discomfort	5	5
Oral disorder	2	2
Oral mucosa erosion	1	1
Oral mucosal blistering	1	1
Oral mucosal eruption	3	3
Oral mucosal erythema	1	1
Oral pain	5	5
Oral pruritus	3	3
Palatal swelling	1	1
Pancreatitis	1	1
Paraesthesia oral	78	78
Retching	3	3
· ·		

	Sponta	aneous	
Nons	erious	Seri	ous
1	С	I	С
		1	1
1	1	2	2
3	3	1	1
		1	1
		1	1
33	33	5	5
1	1		
1	1	1	1
3	3		
1	1		
2	2		
1	1	1	1
2	2	1	1
2	2	1	1
20	20	11	11
4	4	2	2
5	5		
1	1		
349	349	58	58
2	2		
4	4	1	1
2	2		
1	1		
1	1		
3	3		
1	1		
4	4	1	1
3	3		
		1	1
		1	1
65	65	13	13
3	3		

^{*} I=Interval, C=Cumulative

^{*} AE=Adverse Event

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Gastrointestinal disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Salivary hypersecretion	3	3	3	3			
Small intestinal obstruction	1	1			1	1	
Stiff tongue	1	1	1	1			
Stomatitis	1	1	1	1			
Strawberry tongue	1	1	1	1			
Swollen tongue	27	27	16	16	11	11	
Tongue coated	1	1	1	1			
Tongue discolouration	1	1	1	1			
Tongue discomfort	4	4	4	4			
Tongue disorder	3	3	3	3			
Tongue dry	2	2	2	2			
Tongue haematoma	1	1	1	1			
Tongue pruritus	3	3	2	2	1	1	
Toothache	6	6	6	6			
Vomiting	118	118	103	103	15	15	
Vomiting projectile	1	1	1	1			
	1,096	1,096	912	912	184	184	

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AE=Adverse Event

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General disorders and administration sit conditions	te		Spontaneous		taneous	
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Administration site pain	3	3	3	3		
Alcohol interaction	1	1			1	1
Asthenia	104	104	91	91	13	13
Axillary pain	19	19	15	15	4	4
Chest discomfort	59	59	43	43	16	16
Chest pain	42	42	32	32	10	10
Chills	435	435	401	401	34	34
Chronic fatigue syndrome	1	1	1	1		
Condition aggravated	28	28	23	23	5	5
Crying	2	2	2	2		
Death	5	5			5	5
Discomfort	12	12	11	11	1	1
Disease recurrence	4	4	4	4		
Drug ineffective	132	132	42	42	90	90
Enanthema	1	1	1	1		
Energy increased	1	1	1	1		
Face oedema	2	2	1	1	1	1
Facial discomfort	3	3	2	2	1	1
⁼ acial pain	5	5	4	4	1	1
⁼ atigue	566	566	506	506	60	60
Feeling abnormal	85	85	74	74	11	11
Feeling cold	30	30	24	24	6	6
eeling drunk	3	3			3	3
eeling hot	93	93	76	76	17	17
eeling jittery	5	5	3	3	2	2
eeling of body temperature change	14	14	13	13	1	1
Gait disturbance	12	12	10	10	2	2
General physical health deterioration	2	2	1	1	1	1
Glassy eyes	1	1	1	1		
Hangover	1	1	1	1		
Hunger	2	2	2	2		
Illness	34	34	29	29	5	5

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System Organ Class

General disorders and administration site conditions

	Interval Total #	Cumulative Total #
Preferred Term	Spontaneous AE	Spontaneous AE
Induration	2	2
Inflammation	7	7
Influenza like illness	49	49
Injection site bruising	2	2
Injection site coldness	1	1
Injection site discomfort	2	2
Injection site erythema	13	13
Injection site extravasation	1	1
Injection site haemorrhage	2	2
Injection site hypersensitivity	1	1
Injection site hypoaesthesia	4	4
Injection site induration	2	2
Injection site inflammation	1	1
Injection site mass	2	2
Injection site oedema	1	1
Injection site pain	81	81
Injection site pruritus	5	5
Injection site rash	4	4
Injection site reaction	1	1
Injection site swelling	14	14
Injection site urticaria	1	1
Injection site warmth	4	4
Injury associated with device	1	1
Localised oedema	1	1
Local reaction	3	3
Malaise	197	197
Mass	2	2
Mucosal dryness	1	1
No adverse event	1	1
Nodule	2	2
Nonspecific reaction	1	1
Oedema	1	1

	Spont	aneous	
Nons	erious	Ser	rious
1	С	I	С
2	2		
6	6	1	1
42	42	7	7
2	2		
1	1		
2	2		
13	13		
1	1		
2	2		
1	1		
4	4		
2	2		
1	1		
2	2		
1	1		
79	79	2	2
5	5		
4	4		
1	1		
14	14		
1	1		
4	4		
1	1		
1	1		
3	3		
170	170	27	27
2	2		
		1	1
1	1		
2	2		
		1	1
1	1		

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AE=Adverse Event

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General disorders and administration site conditions

conditions		
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE
Preferred Term	Spontaneous AL	Spontaneous AL
Oedema peripheral	1	1
Pain	343	343
Peripheral swelling	51	51
Potentiating drug interaction	1	1
Pre-existing condition improved	1	1
Pyrexia	503	503
Secretion discharge	1	1
Sensation of foreign body	6	6
Sluggishness	1	1
Swelling	26	26
Swelling face	37	37
Symptom recurrence	1	1
Tenderness	12	12
Therapeutic product ineffective	1	1
Therapeutic response unexpected	1	1
Thirst	5	5
Vaccination site bruising	5	5
Vaccination site coldness	1	1
Vaccination site discomfort	11	11
Vaccination site erythema	55	55
Vaccination site haemorrhage	7	7
Vaccination site hypersensitivity	1	1
Vaccination site hypoaesthesia	3	3
Vaccination site induration	8	8
Vaccination site inflammation	3	3
Vaccination site joint discomfort	1	1
Vaccination site joint erythema	1	1
Vaccination site joint movement impairment	1	1
Vaccination site joint pain	4	4
Vaccination site macule	1	1
Vaccination site mass	7	7
Vaccination site movement impairment	12	12

	Sponta	aneous	
Nons	erious	Ser	ious
1	С	I	С
1	1		
317	317	26	26
44	44	7	7
1	1		
1	1		
434	434	69	69
1	1		
4	4	2	2
1	1		
23	23	3	3
29	29	8	8
1	1		
12	12		
1	1		
1	1		
4	4	1	1
4	4	1	1
1	1		
11	11		
48	48	7	7
7	7		
1	1		
3	3		
8	8		
2	2	1	1
1	1		
		1	1
		1	1
2	2	2	2
1	1		
6	6	1	1
10	10	2	2

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General disorders and administration si conditions	ite			Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Vaccination site nodule	2	2	2	2		
Vaccination site oedema	1	1	1	1		
Vaccination site pain	401	401	370	370	31	31
Vaccination site paraesthesia	10	10	8	8	2	2
Vaccination site pruritus	17	17	15	15	2	2
Vaccination site rash	11	11	10	10	1	1
Vaccination site reaction	4	4	4	4		
Vaccination site swelling	60	60	51	51	9	9
Vaccination site urticaria	5	5	5	5		
Vaccination site vesicles	2	2	2	2		
Vaccination site warmth	23	23	20	20	3	3
Vessel puncture site haemorrhage	1	1	1	1		
Vessel puncture site injury	1	1	1	1		
	3,767	3,767	3258	3258	509	509

System Organ Class

Hepatobiliary disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Gal bladder disorder	1	1	1	1
Hepatic pain	1	1	1	1
	2	2	2	2

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AE=Adverse Event

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Immune system disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Allergy to vaccine	16	16	13	13	3	3	
Anaphylactic reaction	32	32	3	3	29	29	
Anaphylactic shock	4	4	1	1	3	3	
Anaphylactoid reaction	5	5	1	1	4	4	
Autoimmune disorder	2	2			2	2	
Drug hypersensitivity	13	13	11	11	2	2	
Food allergy	1	1	1	1			
Hypersensitivity	42	42	28	28	14	14	
Immune-mediated adverse reaction	1	1	1	1			
Immune system disorder	2	2			2	2	
Immunodeficiency	1	1			1	1	
Reaction to excipient	1	1	1	1			
Serum sickness	1	1			1	1	
Type IV hypersensitivity reaction	1	1			1	1	
	122	122	60	60	62	62	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Infections and infestations				Spont	taneous	
	Interval Total #	Cumulative Total #	Nons	serious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Appendicitis	2	2	1	1	1	1
Asymptomatic COVID-19	3	3			3	3
Bronchitis	1	1			1	1
Cellulitis	4	4	1	1	3	3
Conjunctivitis	1	1	1	1		
Coronavirus infection	4	4	1	1	3	3
COVID-19	71	71	20	20	51	51
ar infection	1	1	1	1		
ye infection	1	1	1	1		
olliculitis	1	1	1	1		
Sastroenteritis	1	1	1	1		
Sastroenteritis viral	1	1			1	1
lerpes simplex	1	1	1	1		
lerpes virus infection	2	2	1	1	1	1
lerpes zoster	9	9	9	9		
lordeolum	3	3	3	3		
nfection	2	2	2	2		
nfluenza	12	12	11	11	1	1
abyrinthitis	1	1			1	1
aryngitis	1	1	1	1		
/lastitis	1	1			1	1
1eningitis	1	1			1	1
lasopharyngitis	23	23	22	22	1	1
Pral candidiasis	1	1	1	1		
Oral herpes	9	9	6	6	3	3
oral viral infection	1	1	1	1		
ertussis	1	1			1	1
haryngitis	1	1	1	1		
neumonia	3	3			3	3
ustule	1	1	1	1		
ash pustular	1	1	1	1		
Rhinitis	2	2	2	2		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Infections and infestations				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Sinusitis	6	6	6	6		
Sputum purulent	1	1			1	1
Streptococcal infection	1	1			1	1
Suspected COVID-19	11	11	5	5	6	6
Sweating fever	1	1			1	1
Tonsillitis	1	1			1	1
Tuberculosis	1	1	1	1		
Upper respiratory tract infection	1	1	1	1		
Urinary tract infection	2	2	2	2		
Vaccination site cellulitis	2	2	1	1	1	1
Vaginal infection	1	1	1	1		
Varicella	1	1	1	1		
Varicella zoster virus infection	1	1	1	1		
Vestibular neuronitis	1	1			1	1
	198	198	110	110	88	88

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AE=Adverse Event

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Injury, poisoning and procedural complications			Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Accidental exposure to product	4	4	4	4		
Accidental overdose	25	25	23	23	2	2
Accidental underdose	6	6	6	6		
Circumstance or information capable of leading of medication error	37	37	36	36	1	1
Contusion	5	5	4	4	1	1
Counterfeit product administered	1	1	1	1		
xpired product administered	1	1	1	1		
xposure during pregnancy	3	3	3	3		
xposure to SARS-CoV-2	11	11	11	11		
xposure via breast milk	33	33	33	33		
xposure via eye contact	1	1	1	1		
xposure via skin contact	2	2	2	2		
ace injury	1	1			1	1
all	6	6	4	4	2	2
oetal exposure timing unspecified	2	2	2	2		
racture	1	1			1	1
nappropriate schedule of product administration	7	7	7	7		
cision site pain	1	1			1	1
correct dose administered	6	6	6	6		
ncorrect route of product administration	28	28	27	27	1	1
oint dislocation	1	1			1	1
imb injury	2	2	2	2		
laternal exposure during breast feeding	4	4	4	4		
laternal exposure during pregnancy	21	21	21	21		
laternal exposure timing unspecified	2	2	2	2		
ledication error	1	1	1	1		
luscle strain	2	2	2	2		
leck injury	1	1	1	1		
erve injury	1	1	1	1		
occupational exposure to product	1	1	1	1		
Occupational exposure to SARS-CoV-2	1	1	1	1		

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AE=Adverse Event

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njury, poisoning and procedural complications			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Off label use	77	77	77	77			
Overdose	15	15	15	15			
Poor quality product administered	136	136	135	135	1	1	
Product administered at inappropriate site	11	11	11	11			
Product administered to patient of inappropriate age	2	2	2	2			
Product administration error	1	1	1	1			
Product label confusion	4	4	4	4			
Product preparation error	28	28	27	27	1	1	
Product preparation issue	13	13	12	12	1	1	
Product prescribing error	2	2	2	2			
Product storage error	2	2	2	2			
Product use issue	75	75	75	75			
Stoma site discharge	1	1			1	1	
Stoma site extravasation	1	1	1	1			
Stoma site haemorrhage	1	1	1	1			
Thermal burns of eye	1	1	1	1			
Underdose	27	27	27	27			
Vaccination failure	1	1			1	1	
Wrong technique in product usage process	37	37	37	37			
	653	653	637	637	16	16	

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AE=Adverse Event

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System Organ Class						
Investigations			Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Seri	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Blood glucose decreased	1	1	1	1		
Blood glucose increased	2	2	2	2		
Blood pressure abnormal	6	6	6	6		
Blood pressure decreased	9	9	6	6	3	3
Blood pressure diastolic increased	2	2	1	1	1	1
Blood pressure increased	50	50	35	35	15	15
Blood pressure systolic increased	2	2	1	1	1	1
Blood test abnormal	1	1			1	1
Blood urine present	1	1	1	1		
Body temperature abnormal	3	3	3	3		
Body temperature decreased	2	2	2	2		
Body temperature fluctuation	2	2	2	2		
Body temperature increased	25	25	22	22	3	3
Capillary nail refill test abnormal	1	1	1	1		
Coronavirus test positive	5	5	5	5		
Drug level increased	1	1			1	1
Ejection fraction abnormal	1	1	1	1		
Electrocardiogram QT prolonged	1	1			1	1
Epinephrine increased	1	1	1	1		
Fibrin D dimer increased	1	1	1	1		
Grip strength decreased	1	1	1	1		
Heart rate abnormal	4	4	4	4		
Heart rate decreased	5	5	3	3	2	2
Heart rate increased	103	103	86	86	17	17
Heart rate irregular	2	2	1	1	1	1
Influenza virus test positive	1	1	1	1		
Lipids increased	1	1	1	1		
Myocardial necrosis marker increased	1	1			1	1
Oxygen saturation decreased	5	5	1	1	4	4
Platelet count decreased	1	1	1	1		
Pulse abnormal	3	3	3	3		
Respiratory rate decreased	1	1			1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Investigations				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Respiratory rate increased	5	5	4	4	1	1	
SARS-CoV-2 ant body test positive	3	3	3	3			
SARS-CoV-2 test false positive	1	1	1	1			
SARS-CoV-2 test negative	2	2	2	2			
SARS-CoV-2 test positive	89	89	55	55	34	34	
Sinus rhythm	1	1	1	1			
Streptococcus test positive	1	1	1	1			
Weight decreased	3	3	3	3			
Weight increased	1	1	1	1			
	351	351	264	264	87	87	

System Organ Class

Metabolism and nutrition disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	ı	С	
Appetite disorder	1	1	1	1			
Decreased appetite	31	31	22	22	9	9	
Dehydration	8	8	8	8			
Diabetes mellitus	1	1			1	1	
Diabetes mellitus inadequate control	1	1			1	1	
Diabetic ketoacidosis	1	1			1	1	
Feeding disorder	1	1	1	1			
Fluid retention	2	2	2	2			
Hyperglycaemia	2	2	1	1	1	1	
Hypoglycaemia	3	3	2	2	1	1	
	51	51	37	37	14	14	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spontaneous			
410014010	Interval Total #	Cumulative Total #	Nons	Nonserious S		erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Arthralgia	203	203	176	176	27	27	
Arthritis	1	1	1	1			
Arthritis reactive	1	1			1	1	
Arthropathy	2	2	2	2			
axillary mass	2	2	2	2			
Back disorder	1	1	1	1			
Back pain	48	48	44	44	4	4	
Bone pain	11	11	10	10	1	1	
Bone swelling	2	2	2	2			
acial asymmetry	1	1	1	1			
lank pain	1	1	1	1			
oint instability	1	1			1	1	
oint range of motion decreased	10	10	9	9	1	1	
oint stiffness	4	4	3	3	1	1	
oint swelling	13	13	12	12	1	1	
oint warmth	1	1	1	1			
imb discomfort	46	46	37	37	9	9	
Mobility decreased	11	11	9	9	2	2	
luscle discomfort	1	1	1	1			
luscle fatigue	7	7	4	4	3	3	
/luscle spasms	19	19	16	16	3	3	
luscle tightness	9	9	8	8	1	1	
fluscle twitching	3	3	3	3			
luscular weakness	24	24	20	20	4	4	
lusculoskeletal chest pain	7	7	7	7			
lusculoskeletal discomfort	8	8	8	8			
lusculoskeletal disorder	1	1	1	1			
lusculoskeletal pain	4	4	3	3	1	1	
lusculoskeletal stiffness	20	20	14	14	6	6	
⁄lyalgia	315	315	274	274	41	41	
/lyofascial pain syndrome	1	1	1	1			
leck pain	52	52	45	45	7	7	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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System Organ Class

Musculoskeletal and connective tissue disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Pain in extremity	343	343	311	311	32	32	
Pain in jaw	11	11	11	11			
Sjogren's syndrome	1	1			1	1	
Soft tissue swelling	1	1	1	1			
Spinal pain	3	3	3	3			
Tendonitis	1	1	1	1			
Tenosynovitis	1	1	1	1			
	1,191	1,191	1044	1044	147	147	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Ser	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Acoustic neuritis	1	1			1	1	
Ageusia	30	30	28	28	2	2	
mnesia	1	1	1	1			
naesthesia	2	2	2	2			
nosmia	31	31	28	28	3	3	
phasia	2	2	2	2			
taxia	1	1			1	1	
alance disorder	12	12	8	8	4	4	
asal ganglia haemorrhage	1	1			1	1	
urning sensation	20	20	16	16	4	4	
ataplexy	1	1			1	1	
erebellar infarction	1	1			1	1	
erebral disorder	1	1	1	1			
erebral infarction	1	1			1	1	
erebrovascular accident	5	5	1	1	4	4	
ognitive disorder	2	2	2	2			
epressed level of consciousness	1	1	1	1			
isturbance in attention	10	10	8	8	2	2	
izziness	342	342	283	283	59	59	
izziness postural	8	8	5	5	3	3	
ysaesthesia	1	1	1	1			
ysarthria	4	4	4	4			
ysgeusia	54	54	50	50	4	4	
yskinesia	2	2	2	2			
yslexia	1	1	1	1			
ysstasia	1	1			1	1	
pilepsy	2	2			2	2	
acial paralysis	23	23	8	8	15	15	
acial paresis	2	2	2	2			
acial spasm	1	1	1	1			
ine motor skill dysfunction	1	1	1	1			
ormication	1	1			1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Nervous	system	disorders
---------	--------	-----------

	Interval Total #	Cumulative Total #
Preferred Term	Spontaneous AE	Spontaneous AE
Freezing phenomenon	1	1
Generalised tonic-clonic seizure	2	2
Guillain-Barre syndrome	2	2
Headache	753	753
Head discomfort	9	9
Hemiparesis	2	2
Hyperaesthesia	4	4
Hypersomnia	6	6
Hypertonia	1	1
Hypoaesthesia	106	106
Hypogeusia	1	1
Hypokinesia	1	1
Hyposmia	1	1
Infant irritability	1	1
Irregular sleep wake rhythm disorder	1	1
Ischaemic stroke	2	2
Lethargy	31	31
Loss of consciousness	10	10
Memory impairment	4	4
Mental impairment	6	6
Migraine	26	26
Migraine with aura	1	1
Movement disorder	4	4
Myelitis transverse	1	1
Neuralgia	4	4
Neuropathy peripheral	1	1
Paraesthesia	137	137
Paraesthesia mucosal	1	1
Paralysis	2	2
Paresis	1	1
Parosmia	7	7
Peroneal nerve palsy	1	1

	Spon	taneous	
Nons	erious	Ser	rious
- 1	С	I	С
1	1		
		2	2
1	1	1	1
660	660	93	93
8	8	1	1
		2	2
4	4		
6	6		
1	1		
93	93	13	13
1	1		
1	1		
1	1		
1	1		
1	1		
		2	2
22	22	9	9
1	1	9	9
3	3	1	1
4	4	2	2
23	23	3	3
1	1		
4	4		
		1	1
3	3	1	1
		1	1
119	119	18	18
1	1		
		2	2
1	1		
6	6	1	1
1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

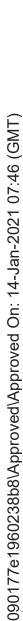


Nervous system disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С
Poor quality sleep	8	8	8	8		
Postictal state	1	1	1	1		
Presyncope	20	20	14	14	6	6
Reduced facial expression	1	1	1	1		
Sedation	1	1	1	1		
Seizure	6	6	1	1	5	5
Sensory disturbance	4	4	3	3	1	1
Sensory loss	2	2	2	2		
Sinus headache	3	3	3	3		
Slow response to stimuli	1	1	1	1		
Somnolence	35	35	32	32	3	3
Speech disorder	8	8	7	7	1	1
Syncope	28	28	6	6	22	22
Taste disorder	17	17	16	16	1	1
Tension headache	1	1	1	1		
Transient ischaemic attack	2	2			2	2
Tremor	44	44	31	31	13	13
Tunnel vision	1	1			1	1
Unresponsive to stimuli	2	2	1	1	1	1
	1,881	1,881	1553	1553	328	328

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Product issues				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Liquid product physical issue	8	8	8	8		
Needle issue	3	3	3	3		
Product complaint	4	4	4	4		
Product counterfeit	1	1	1	1		
Product formulation issue	1	1	1	1		
Product leakage	4	4	4	4		
Product packaging quantity issue	18	18	18	18		
Product physical issue	2	2	2	2		
Product quality issue	8	8	7	7	1	1
Product temperature excursion issue	90	90	90	90		
Suspected counterfeit product	1	1	1	1		
Syringe issue	1	1	1	1		
	141	141	140	140	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Psychiatric disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	ı	С	
Abnormal dreams	5	5	5	5			
Agitation	5	5	5	5			
Anxiety	28	28	24	24	4	4	
Confusional state	9	9	5	5	4	4	
Delirium	1	1			1	1	
Depressed mood	3	3	3	3			
Depression	1	1			1	1	
Disorientation	6	6	5	5	1	1	
Dissociation	1	1	1	1			
Eating disorder	5	5	5	5			
Emotional disorder	2	2	2	2			
Fear	2	2	1	1	1	1	
Hallucination	1	1			1	1	
Hallucination, olfactory	1	1	1	1			
Initial insomnia	2	2	2	2			
Insomnia	26	26	24	24	2	2	
Irritability	2	2	2	2			
Laziness	1	1	1	1			
Mental status changes	1	1	1	1			
Middle insomnia	1	1	1	1			
Nervousness	15	15	12	12	3	3	
Nightmare	3	3	3	3			
Panic attack	4	4	3	3	1	1	
Panic reaction	1	1			1	1	
Paranoia	1	1	1	1			
Post-traumatic stress disorder	1	1	1	1			
Restlessness	6	6	4	4	2	2	
Sleep disorder	11	11	9	9	2	2	
Sleep disorder due to a general medical condition	1	1	1	1			
Sleep disorder due to general medical condition, insomnia type	1	1	1	1			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Psychiatric disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Somatic symptom disorder	1	1			1	1	
Staring	1	1			1	1	
Stress	2	2	2	2			
Terminal insomnia	1	1	1	1			
Thinking abnormal	4	4	4	4			
	156	156	130	130	26	26	

System Organ Class

Renal and urinary disorders				Spon	taneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Chromaturia	1	1	1	1		
Dysuria	1	1	1	1		
Haematuria	2	2	1	1	1	1
Hypertonic bladder	1	1	1	1		
Incontinence	1	1			1	1
Pollakiuria	1	1	1	1		
Renal pain	1	1	1	1		
Urethral pain	1	1	1	1		
Urinary incontinence	1	1	1	1		
	10	10	8	8	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Reproductive system and breast disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Sei	ious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С
Breast pain	1	1	1	1		
Breast swelling	1	1	1	1		
Breast tenderness	1	1			1	1
Dysmenorrhoea	2	2	2	2		
Menorrhagia	2	2	2	2		
Menstrual disorder	1	1	1	1		
Metrorrhagia	2	2	2	2		
Nipple pain	2	2	2	2		
Nipple swelling	3	3	3	3		
Scrotal erythema	1	1			1	1
Scrotal exfoliation	1	1			1	1
Scrotal pain	1	1			1	1
Scrotal swelling	1	1			1	1
	19	19	14	14	5	5

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Aphonia	4	4	3	3	1	1	
Asthma	4	4	3	3	1	1	
Bronchospasm	1	1	1	1			
Catarrh	1	1	1	1			
Choking	1	1	1	1			
Cough	100	100	84	84	16	16	
Dry throat	10	10	8	8	2	2	
Dysphonia	14	14	7	7	7	7	
Dyspnoea	119	119	75	75	44	44	
Dyspnoea exertional	4	4	4	4			
Epistaxis	8	8	5	5	3	3	
Hiccups	1	1	1	1			
Hyperventilation	4	4	2	2	2	2	
Hypoxia	2	2			2	2	
ncreased upper airway secretion	2	2	1	1	1	1	
ntranasal paraesthesia	1	1	1	1			
_aryngeal oedema	2	2	2	2			
_aryngospasm	1	1	1	1			
ower respiratory tract congestion	1	1	1	1			
ung infiltration	1	1			1	1	
Nasal congestion	51	51	49	49	2	2	
Nasal discomfort	4	4	3	3	1	1	
Nasal disorder	1	1	1	1			
Nasal dryness	1	1	1	1			
Nasal oedema	2	2	1	1	1	1	
Obstructive airways disorder	1	1			1	1	
Organising pneumonia	1	1	1	1			
Oropharyngeal discomfort	11	11	8	8	3	3	
Oropharyngeal pain	95	95	87	87	8	8	
Painful respiration	2	2	1	1	1	1	
Paranasal sinus discomfort	2	2	2	2			
Pharyngeal disorder	1	1	1	1			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

Spontaneous



System Organ Class

Respiratory, thoracic and mediastinal disorders

Nonserious Serious Interval Total # Cumulative Total # Spontaneous AE Spontaneous AE С С Preferred Term Pharyngeal hypoaesthesia Pharyngeal mass Pharyngeal paraesthesia Pharyngeal swelling Pleuritic pain Productive cough Pulmonary congestion Pulmonary embolism Pulmonary oedema Pulmonary pain Respiration abnormal Respiratory distress Respiratory tract congestion Rhinalgia Rhinorrhoea Sinus congestion Sinus disorder Sinus pain Sneezing Suffocation feeling Tachypnoea Throat clearing Throat irritation Throat tightness Tonsillar hypertrophy Tracheomalacia Upper-airway cough syndrome Upper respiratory tract congestion Wheezing

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Acne	1	1	1	1			
ngioedema	11	11	6	6	5	5	
lister	6	6	6	6			
Cold sweat	21	21	12	12	9	9	
ermatitis allergic	12	12	10	10	2	2	
rug eruption	1	1	1	1			
ry skin	1	1	1	1			
czema	2	2	2	2			
rythema	76	76	66	66	10	10	
idradenitis	1	1	1	1			
lyperhidrosis	67	67	59	59	8	8	
liopathic urticaria	1	1	1	1			
vedo reticularis	2	2	1	1	1	1	
lechanical urticaria	1	1	1	1			
liliaria	2	2			2	2	
ight sweats	11	11	9	9	2	2	
ain of skin	6	6	4	4	2	2	
almar erythema	1	1	1	1			
apule	2	2	2	2			
etechiae	1	1	1	1			
hotosensitivity reaction	4	4	3	3	1	1	
iloerection	3	3	2	2	1	1	
ruritus	146	146	125	125	21	21	
seudofolliculitis	1	1	1	1			
soriasis	1	1	1	1			
ash	127	127	103	103	24	24	
ash erythematous	31	31	22	22	9	9	
ash macular	19	19	15	15	4	4	
ash maculo-papular	3	3	2	2	1	1	
ash papular	7	7	6	6	1	1	
ash pruritic	17	17	14	14	3	3	
cab	1	1	1	1			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue dis	orders			Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Skin burning sensation	2	2	2	2		
Skin discolouration	6	6	4	4	2	2
Skin disorder	4	4	3	3	1	1
Skin irritation	1	1	1	1		
Skin mass	1	1	1	1		
Skin reaction	2	2	2	2		
Skin swelling	1	1	1	1		
Skin tightness	3	3	2	2	1	1
Skin warm	4	4	1	1	3	3
Urticaria	93	93	83	83	10	10
	703	703	580	580	123	123

System Organ Class

Social circumstances				Spontaneous			
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nonserious Serio			rious	
Preferred Term			1	С	1	С	
Impaired driving ability	1	1	1	1			
Impaired work ability	3	3	3	3			
Loss of personal independence in daily activities	9	9	8	8	1	1	
	13	13	12	12	1	1	

System Organ Class

SOC Not Yet Coded			Sponta	aneous
	Interval Total #	Cumulative Total #	Nonse	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Surgical and medical procedures	Spontaneous			
	Interval Total #	Cumulative Total #	Nonse	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
COVID-19 immunisation	1	1	1	1
	1	1	1	1

System Organ Class

Vascular disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Blood pressure fluctuation	1	1	1	1		
Bloody discharge	1	1	1	1		
Circulatory collapse	1	1			1	1
Cyanosis	1	1	1	1		
Diastolic hypotension	1	1			1	1
Flushing	90	90	73	73	17	17
Haemorrhage	2	2	1	1	1	1
Hot flush	30	30	23	23	7	7
Hyperaemia	2	2	2	2		
Hypertension	34	34	21	21	13	13
Hypertensive crisis	1	1	1	1		
Hypertensive emergency	2	2			2	2
Hypotension	8	8	4	4	4	4
Pallor	16	16	9	9	7	7
Peripheral circulatory failure	1	1			1	1
Peripheral coldness	19	19	15	15	4	4
Poor peripheral circulation	1	1	1	1		
Raynaud's phenomenon	1	1	1	1		
Shock symptom	1	1			1	1
Vasodilatation	1	1	1	1		
	214	214	155	155	59	59

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



APPENDIX 2.5.1: Cumulative and Interval Summary Tabulation of Serious and Non-Serious Adverse Reactions From Post-Marketing Data Sources Organized per MedDRA System Organ Class by Preferred Term per Country

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval) / 3,615 (Cumulative)

Total Number of Adverse Events (PT): 11,824 (Interval) / 11,824 (Cumulative)

MedDRA Version: v.23.1J

Country Where Event Occurred

AFGHANISTAN

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Chills	1	1	1	1
Feeling of body temperature change	1	1	1	1
Swelling face	1	1	1	1
	3	3	3	3

System Organ Class

Musculoskeletal and connective tissue disorders	Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Muscle tightness	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders				Sponta	aneous	
	Interval Total # Cumulative Total #		Nons	erious	Se	rious
Preferred Term Spontaneous AE		Spontaneous AE	I	С	I	С
Facial paralysis	1	1			1	1
Paraesthesia	1	1	1	1		
	2	2	1	1	1	1

Skin and subcutaneous tissue disorders	Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Erythema	1	1	1	1	
Pruritus	1	1	1	1	
Rash	1	1	1	1	
	3	3	3	3	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



BULGARIA

System Organ Class

General disorders and administration site conditions	Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	
Chills	1	1	1	1	
	1	1	1	1	

System Organ Class

Investigations	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
SARS-CoV-2 test positive	1	1	1	1
	1	1	1	1

System Organ Class

Musculoskeletal and connective tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Pain in extremity	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Ageusia	1	1	1	1
Anosmia	1	1	1	1
	2	2	2	2

Skin and subcutaneous tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Hyperhidrosis	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



CANADA

System Organ Class

Blood and lymphatic system disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	
Lymphadenopathy	1	1	1	1	
	1	1	1	1	

System Organ Class

Gastrointestinal disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Diarrhoea	2	2	2	2
Dysphagia	1	1	1	1
Nausea	2	2	2	2
Odynophagia	1	1	1	1
Paraesthesia oral	2	2	2	2
Swollen tongue	1	1	1	1
Tongue pruritus	1	1	1	1
	10	10	10	10

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



General disorders and administration site conditions			Spontaneous		
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Asthenia	1	1	1	1	
Chills	2	2	2	2	
Drug ineffective	1	1	1	1	
Fatigue	2	2	2	2	
Pain	1	1	1	1	
Pyrexia	2	2	2	2	
Swelling	1	1	1	1	
Thirst	1	1	1	1	
Vaccination site pain	1	1	1	1	
	12	12	12	12	

System Organ Class

Immune system disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Drug hypersensitivity	1	1	1	1
Hypersensitivity	1	1	1	1
	2	2	2	2

System Organ Class

Investigations	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Heart rate increased	1	1	1	1
SARS-CoV-2 test positive	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Metabolism and nutrition disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Decreased appetite	1	1	1	1	
Fluid retention	1	1	1	1	
	2	2	2	2	

System Organ Class

Musculoskeletal and connective tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Myalgia	1	1	1	1
Pain in extremity	1	1	1	1
	2	2	2	2

System Organ Class

Nervous system disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Sei	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Disturbance in attention	1	1	1	1			
Dysgeusia	1	1	1	1			
Facial paralysis	1	1			1	1	
Headache	3	3	3	3			
Hypersomnia	1	1	1	1			
Paraesthesia	1	1	1	1			
Syncope	2	2			2	2	
	10	10	7	7	3	3	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Oropharyngeal pain	1	1	1	1
	1	1	1	1

System Organ Class

Skin and subcutaneous tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE Spontane	Spontaneous AE	1	С	
Urticaria	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



CHILE

System Organ Class

Blood and lymphatic system disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Lymphadenopathy	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Dry mouth	1	1	1	1
Nausea	1	1	1	1
	2	2	2	2

System Organ Class

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General disorders and administration site conditions				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Crying	1	1	1	1	
Fatigue	1	1	1	1	
Malaise	1	1	1	1	
Pain	1	1	1	1	
Pyrexia	1	1	1	1	
Vaccination site pain	1	1	1	1	
	6	6	6	6	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



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System Organ Class

Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Myalgia	1	1	1	1
	1	1	1	1

System Organ Class

Nervous system disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Dizziness	1	1	1	1
Headache	1	1	1	1
Paraesthesia	1	1	1	1
	3	3	3	3

System Organ Class

Skin and subcutaneous tissue disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Dermatitis allergic	4	4	4	4
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





CROATIA

System Organ Class

General disorders and administration site conditions				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	
Fatigue	2	2	2	2	
Vaccination site pain	2	2	2	2	
	4	4	4	4	

System Organ Class

Injury, poisoning and procedural complications			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Product administration error	1	1	1	1
	1	1	1	1

Investigations			Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Body temperature increased	3	3	3	3	
	3	3	3	3	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Pain in extremity	1	1	1	1
	1	1	1	1

System Organ Class

Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Headache	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



Country Where Event Occurred

CYPRUS

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Death	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





GERMANY

System Organ Class

Blood and lymphatic system disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С
Leukopenia	1	1	1	1
	1	1	1	1

System Organ Class

Cardiac disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Sei	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Palpitations	1	1	1	1		
Tachycardia	1	1			1	1
	2	2	1	1	1	1

Gastrointestinal disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С
Nausea	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



General disorders and administration site conditions			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Asthenia	3	3	2	2	1	1
Fatigue	1	1	1	1		
Malaise	1	1			1	1
Pain	1	1			1	1
Pyrexia	1	1	1	1		
Vaccination site pain	3	3	3	3		
Vaccination site swelling	2	2	2	2		
	12	12	9	9	3	3

System Organ Class

Immune system disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Anaphylactic reaction	1	1	1	1
	1	1	1	1

System Organ Class

Injury, poisoning and procedural complications				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	ı	С
Accidental overdose	9	9	8	8	1	1
Circumstance or information capable of leading to medication error	2	2	2	2		
Product storage error	1	1	1	1		
	12	12	11	11	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Investigations	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Heart rate increased	1	1	1	1
	1	1	1	1

System Organ Class

Musculoskeletal and connective tissue disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С		
Muscular weakness	1	1	1	1		
Pain in extremity	2	2	2	2		
	3	3	3	3		

System Organ Class

Nervous system disorders				Spon	taneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE Spontaneous AE	I	С	I	С
Dizziness	2	2	2	2		
Epilepsy	1	1			1	1
Facial paralysis	2	2			2	2
Headache	6	6	5	5	1	1
Movement disorder	1	1	1	1		
Paresis	1	1	1	1		
Seizure	2	2			2	2
	15	15	9	9	6	6

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Product issues			Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Product complaint	1	1	1	1	
	1	1	1	1	

System Organ Class

Psychiatric disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Agitation	1	1	1	1
	1	1	1	1

System Organ Class

Respiratory, thoracic and mediastinal disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С	1	С
Cough	1	1			1	1
Dyspnoea	2	2	1	1	1	1
	3	3	1	1	2	2

System Organ Class

Skin and subcutaneous tissue disorders			Spontaneous	
	Interval Total # Cumulative Tota			erious
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С
Hyperhidrosis	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Vascular disorders				Spontaneous		
	Interval Total # Cumulative Total #					
Preferred Term	Spontaneous AE	Spontaneous AE	I	С		
Flushing	1	1	1	1		
Hypertension	1	1	1	1		
	2	2	2	2		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





GREECE

System Organ Class

Cardiac disorders				aneous
	Interval Total #	Cumulative Total #	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Tachycardia	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders				aneous
	Interval Total #	Cumulative Total #	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Defaecation urgency	1	1	1	1
Gastrointestinal hypermotility	1	1	1	1
	2	2	2	2

General disorders and administration site conditions			Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Mucosal dryness	1	1			1	1	
Vaccination site discomfort	1	1	1	1			
	2	2	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



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System Organ Class

Immune system disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Se	rious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С		
Anaphylactic reaction	1	1	1	1		
	1	1	1	1		

System Organ Class

Vascular disorders				aneous	
	Interval Total #	Cumulative Total #	al # Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Flushing	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





HUNGARY

System Organ Class

Gastrointestinal disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Se	rious		
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С		
Dry mouth	1	1	1	1		
	1	1	1	1		

System Organ Class

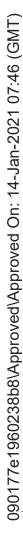
General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Feeling hot	1	1	1	1
Nonspecific reaction	1	1	1	1
Thirst	1	1	1	1
	3	3	3	3

Investigations			Spontaneous		
	Interval Total #	Cumulative Total #	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	
Blood pressure increased	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Ser	ious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Paraesthesia	1	1	1	1		
Tremor	1	1	1	1		
	2	2	2	2		

Skin and subcutaneous tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Urticaria	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





INDIA

System Organ Class

Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Off label use	1	1	1	1
Product administered to patient of inappropriate age	1	1	1	1
	2	2	2	2

Product issues			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Suspected counterfeit product	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



ISRAEL

System Organ Class

Blood and lymphatic system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Lymphadenopathy	1	1	1	1
	1	1	1	1

System Organ Class

Cardiac disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Sei	rious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С	
Cardiac arrest	1	1			1	1	
Cardiac failure	1	1			1	1	
Pericarditis	1	1	1	1			
	3	3	1	1	2	2	

System Organ Class

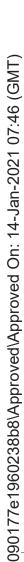
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Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Abdominal pain	2	2	2	2
Anaesthesia oral	1	1	1	1
Hypoaesthesia oral	2	2	2	2
Lip pruritus	1	1	1	1
Nausea	3	3	3	3
Paraesthesia oral	2	2	2	2
Swollen tongue	1	1	1	1
Vomiting	1	1	1	1
	13	13	13	13

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions				Spon	aneous	
	Interval Total # Cumulative Total #	Nons	erious	Ser	ious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Asthenia	6	6	6	6		
Chest discomfort	1	1	1	1		
Chills	1	1	1	1		
Death	2	2			2	2
Drug ineffective	1	1			1	1
Fatigue	7	7	7	7		
Feeling abnormal	2	2	1	1	1	1
Feeling cold	2	2	2	2		
Feeling hot	2	2	2	2		
Feeling of body temperature change	1	1	1	1		
Injection site pain	1	1	1	1		
Local reaction	1	1	1	1		
Malaise	2	2	2	2		
Pain	1	1	1	1		
Pyrexia	2	2	2	2		
Vaccination site erythema	1	1	1	1		
Vaccination site hypersensitivity	1	1	1	1		
Vaccination site movement impairment	1	1	1	1		
Vaccination site pain	14	14	14	14		
Vaccination site swelling	2	2	2	2		
	51	51	47	47	4	4

^{*} I=Interval, C=Cumulative

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Infections and infestations				Spont	taneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С
Coronavirus infection	1	1			1	1
Eye infection	1	1	1	1		
Influenza	1	1	1	1		
	3	3	2	2	1	1

System Organ Class

Injury, poisoning and procedural complications				Spon	taneous	
	Interval Total #	Cumulative Total #	Nons	serious	Sei	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С
Exposure via breast milk	2	2	2	2		
Maternal exposure during pregnancy	1	1	1	1		
Overdose	2	2	2	2		
Poor quality product administered	25	25	24	24	1	1
Product preparation error	2	2	2	2		
Underdose	1	1	1	1		
Wrong technique in product usage process	2	2	2	2		
	35	35	34	34	1	1

Investigations			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Blood pressure increased	1	1	1	1
Heart rate increased	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	Nonserious		rious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С
Arthralgia	1	1	1	1		
Bone pain	1	1	1	1		
Mobility decreased	1	1			1	1
Myalgia	2	2	2	2		
Neck pain	1	1	1	1		
Pain in extremity	3	3	3	3		
	9	9	8	8	1	1

System Organ Class

Nervous system disorders				Spon	taneous	
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	ı	С
Anosmia	1	1	1	1		
Balance disorder	1	1	1	1		
Dizziness	6	6	6	6		
Dysgeusia	1	1	1	1		
Facial paralysis	1	1			1	1
Headache	2	2	2	2		
Hypoaesthesia	4	4	4	4		
oss of consciousness	1	1			1	1
Paraesthesia	4	4	4	4		
Paralysis	1	1			1	1
Poor quality sleep	1	1	1	1		
Sensory loss	1	1	1	1		
Syncope	1	1	1	1		
Ггетог	1	1	1	1		
	26	26	23	23	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Product issues				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С
Liquid product physical issue	6	6	6	6		
Product complaint	2	2	2	2		
Product packaging quantity issue	11	11	11	11		
Product physical issue	2	2	2	2		
Product quality issue	6	6	5	5	1	1
	27	27	26	26	1	1

System Organ Class

Psychiatric disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Initial insomnia	1	1	1	1
Insomnia	1	1	1	1
Sleep disorder due to general medical condition, insomnia type	1	1	1	1
	3	3	3	3

System Organ Class

Respiratory, thoracic and mediastinal disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	
Dyspnoea	2	2	2	2	
Oropharyngeal discomfort	1	1	1	1	
Pharyngeal paraesthesia	1	1	1	1	
Pharyngeal swelling	1	1	1	1	
Rhinalgia	1	1	1	1	
	6	6	6	6	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Skin and subcutaneous tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Erythema	1	1	1	1
Rash	2	2	2	2
Urticaria	1	1	1	1
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





ITALY

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Abdominal pain	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Asthenia	1	1	1	1
Influenza like illness	1	1	1	1
Injection site pain	1	1	1	1
Pyrexia	1	1	1	1
	4	4	4	4

Injury, poisoning and procedural complications				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Circumstance or information capable of leading to medication error	1	1	1	1
Medication error	1	1	1	1
Product label confusion	2	2	2	2
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



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System Organ Class

Nervous system disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Headache	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





MALTA

System Organ Class

Cardiac disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Palpitations	1	1	1	1
	1	1	1	1

System Organ Class

Investigations				Spontaneous		
	Interval Total #	Cumulative Total #	Se	rious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Blood pressure increased	1	1	1	1		
Heart rate increased	1	1	1	1		
	2	2	2	2		

Nervous system disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С		
Dizziness	1	1	1	1		
Lethargy	1	1	1	1		
	2	2	2	2		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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System Organ Class

Vascular disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Hot flush	1	1	1	1
	1	1	1	1

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MEXICO

System Organ Class

Eye disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Eye swelling	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Fatigue	1	1	1	1	
Vaccination site pain	1	1	1	1	
	2	2	2	2	

System Organ Class

Immune system disorders				Spont	taneous	
	Interval Total #	Cumulative Total # Spontaneous AE	Nonserious Serious			erious
Preferred Term	Spontaneous AE		I	С	1	С
Anaphylactic shock	1	1			1	1
Hypersensitivity	1	1	1	1		
	2	2	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Musculoskeletal and connective tissue disorders			Spontaneous				
	Interval Total #	Cumulative Total # Spontaneous AE	Nonserious Serio			rious	
Preferred Term	Spontaneous AE		- 1	С	1	С	
Muscle spasms	1	1			1	1	
Pain in extremity	1	1	1	1			
	2	2	1	1	1	1	

System Organ Class

Nervous system disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Guillain-Barre syndrome	1	1			1	1
Headache	1	1	1	1		
Myelitis transverse	1	1			1	1
Paraesthesia	1	1			1	1
Paralysis	1	1			1	1
Seizure	1	1			1	1
	6	6	1	1	5	5

System Organ Class

Respiratory, thoracic and mediastinal disorders			Spontaneous			
		Cumulative Total #	Nonserious		Serious	
Preferred Term		Spontaneous AE	1	С	1	С
Dyspnoea	1	1	1	1		
aryngospasm	1	1	1	1		
lasal congestion	1	1	1	1		
Respiratory distress	1	1			1	1
Sneezing	1	1	1	1		
hroat irritation	1	1	1	1		
	6	6	5	5	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Skin and subcutaneous tissue disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Angioedema	1	1			1	1		
Pruritus	1	1	1	1				
Rash	1	1			1	1		
	3	3	1	1	2	2		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





OMAN

System Organ Class

Gastrointestinal disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Diarrhoea	1	1	1	1
Gastritis	1	1	1	1
	2	2	2	2

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	None	С
Fatigue	1	1	1	1
Pain	1	1	1	1
Pyrexia	1	1	1	1
	3	3	3	3

Nervous system disorders	Spontaneous					
	Interval Total #	Cumulative Total #	Total # Nonser			
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С		
Headache	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





POLAND

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Toothache	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Asthenia	1	1	1	1
Pyrexia	1	1	1	1
Vaccination site pain	1	1	1	1
	3	3	3	3

Injury, poisoning and procedural complications				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Product label confusion	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Musculoskeletal and connective tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Arthralgia	1	1	1	1
Pain in extremity	1	1	1	1
	2	2	2	2

Nervous system disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Headache	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



PORTUGAL

System Organ Class

Cardiac disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Sinus tachycardia	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders			Sponta	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Odynophagia	1	1	1	1	
	1	1	1	1	

System Organ Class

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General disorders and administration site conditions				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С		
Malaise	1	1	1	1		
	1	1	1	1		

Immune system disorders			Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	
Hypersensitivity	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Exposure via breast milk	1	1	1	1
	1	1	1	1

System Organ Class

Nervous system disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Dizziness	1	1	1	1
Headache	1	1	1	1
	2	2	2	2

System Organ Class

Skin and subcutaneous tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С	
Erythema	1	1	1	1	
Pruritus	1	1	1	1	
	2	2	2	2	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



PUERTO RICO

System Organ Class

Blood and lymphatic system disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Lymphadenopathy	1	1	1	1
Lymph node pain	1	1	1	1
	2	2	2	2

System Organ Class

Cardiac disorders		Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Palpitations	1	1	1	1
Tachycardia	1	1	1	1
	2	2	2	2

System Organ Class

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Gastrointestinal disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- I	С
Abdominal pain	1	1	1	1
Diarrhoea	1	1	1	1
Nausea	3	3	3	3
	5	5	5	5

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Asthenia	1	1	1	1
Fatigue	1	1	1	1
Gait disturbance	1	1	1	1
Malaise	1	1	1	1
Pain	2	2	2	2
Pyrexia	2	2	2	2
Swelling face	1	1	1	1
Vaccination site discomfort	1	1	1	1
Vaccination site induration	1	1	1	1
Vaccination site pain	2	2	2	2
Vaccination site swelling	1	1	1	1
	14	14	14	14

Metabolism and nutrition disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Decreased appetite	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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Musculoskeletal and connective tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Arthralgia	2	2	2	2
Joint range of motion decreased	1	1	1	1
Limb discomfort	1	1	1	1
Musculoskeletal stiffness	1	1	1	1
Pain in extremity	4	4	4	4
	9	9	9	9

System Organ Class

Nervous system disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Headache	4	4	4	4
Hypoaesthesia	3	3	3	3
Neuralgia	1	1	1	1
Paraesthesia	1	1	1	1
Speech disorder	1	1	1	1
Taste disorder	1	1	1	1
	11	11	11	11

System Organ Class

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Respiratory, thoracic and mediastinal disorders			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Dysphonia	1	1	1	1	
	1	1	1	1	

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System Organ Class

Vascular disorders		Sponta	Spontaneous	
	Interval Total #	Cumulative Total #	Nonserious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Hypertension	1	1	1	1
	1	1	1	1

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QATAR

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Ser	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Nausea	1	1	1	1
	1	1	1	1

System Organ Class

Musculoskeletal and connective tissue disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Myalgia	1	1	1	1
	1	1	1	1

System Organ Class

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Nervous system disorders			Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious	
Preferred Term	Spontaneous AE Spontaneous AE	I	С		
Dizziness	1	1	1	1	
	1	1	1	1	

Skin and subcutaneous tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Erythema	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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ROMANIA

System Organ Class

General disorders and administration site conditions				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	
Chills	1	1	1	1	
General physical health deterioration	1	1	1	1	
Vaccination site pain	2	2	2	2	
	4	4	4	4	

System Organ Class

Injury, poisoning and procedural complications	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Product preparation error	4	4	4	4
Product preparation issue	1	1	1	1
Wrong technique in product usage process	1	1	1	1
	6	6	6	6

Investigations		Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Blood pressure increased	1	1	1	1
	1	1	1	1

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Musculoskeletal and connective tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	
Myalgia	1	1	1	1	
Pain in extremity	6	6	6	6	
	7	7	7	7	

System Organ Class

Nervous system disorders			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	ı	С
Headache	1	1	1	1
	1	1	1	1

System Organ Class

Product issues	oduct issues		Sponta	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Product quality issue	1	1	1	1	
	1	1	1	1	

System Organ Class

Psychiatric disorders		Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Panic attack	1	1	1	1
	1	1	1	1

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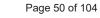


Skin and subcutaneous tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Erythema	1	1	1	1
Urticaria	1	1	1	1
	2	2	2	2

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AE=Adverse Event

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Country Where Event Occurred

SLOVAKIA

System Organ Class

Surgical and medical procedures			Sponta	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
COVID-19 immunisation	1	1	1	1	
	1	1	1	1	

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AE=Adverse Event

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Country Where Event Occurred

SLOVENIA

System Organ Class

Product issues			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Product counterfeit	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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SPAIN

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Diarrhoea	1	1	1	1
Vomiting	1	1	1	1
	2	2	2	2

System Organ Class

Immune system disorders	Spont	aneous		
	Interval Total #	Cumulative Total #	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Anaphylactic reaction	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Country Where Event Occurred

SWEDEN

System Organ Class

Cardiac disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Cardiac arrest	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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SWITZERLAND

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Abdominal pain	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Ser	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Death	1	1	1	1
General physical health deterioration	1	1	1	1
	2	2	2	2

Investigations				taneous
	Interval Total #	Cumulative Total #	Nons	serious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Blood pressure decreased	1	1	1	1
Heart rate increased	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



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System Organ Class

Psychiatric disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С
Restlessness	1	1	1	1
	1	1	1	1

System Organ Class

Renal and urinary disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Urethral pain	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





UNITED ARAB EMIRATES

Injury, poisoning and procedural complications			Sponta	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Off label use	1	1	1	1
Product use issue	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



UNITED KINGDOM

System Organ Class

Blood and lymphatic system disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Lymphadenopathy	45	45	28	28	17	17
Lymph node pain	13	13	8	8	5	5
	58	58	36	36	22	22

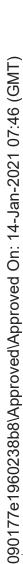
System Organ Class

Cardiac disorders	ardiac disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Acute myocardial infarction	2	2			2	2	
Arrhythmia	1	1			1	1	
Atrial f brillation	1	1			1	1	
Bradycardia	1	1			1	1	
Cardiac arrest	3	3			3	3	
Extrasystoles	1	1			1	1	
Palpitations	17	17	10	10	7	7	
Sinus bradycardia	1	1			1	1	
Sinus tachycardia	3	3	2	2	1	1	
Supraventricular tachycardia	2	2			2	2	
Tachycardia	23	23	16	16	7	7	
Ventricular fibrillation	1	1			1	1	
	56	56	28	28	28	28	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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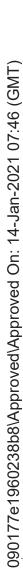


Ear and labyrinth disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	ı	С
Ear pain	4	4	1	1	3	3
Ear swelling	1	1			1	1
Hyperacusis	1	1	1	1		
Hypoacusis	1	1			1	1
Motion sickness	1	1	1	1		
Tinnitus	8	8	4	4	4	4
Vertigo	6	6	3	3	3	3
	22	22	10	10	12	12

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Eye disorders				Spont	taneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Asthenopia	1	1	1	1		
Conjunctival haemorrhage	1	1			1	1
Diplopia	2	2	2	2		
Dry eye	1	1	1	1		
Eye disorder	1	1	1	1		
Eye irritation	1	1	1	1		
Eye pain	5	5	3	3	2	2
Eye pruritus	2	2	1	1	1	1
Eye swelling	5	5	3	3	2	2
Maculopathy	1	1			1	1
Metamorphopsia	1	1			1	1
Ocular hyperaemia	1	1	1	1		
Periorbital swelling	2	2	2	2		
Photophobia	7	7	2	2	5	5
Photopsia	1	1	1	1		
Swelling of eyelid	3	3	2	2	1	1
Vision blurred	8	8	5	5	3	3
Visual impairment	1	1			1	1
Vitreous floaters	1	1	1	1		
	45	45	27	27	18	18

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С	
Abdominal discomfort	3	3	3	3			
Abdominal distension	2	2	1	1	1	1	
Abdominal pain	10	10	8	8	2	2	
Abdominal pain lower	1	1	1	1			
Abdominal pain upper	13	13	8	8	5	5	
Abnormal faeces	1	1	1	1			
anal haemorrhage	1	1			1	1	
Diarrhoea	48	48	28	28	20	20	
Diarrhoea haemorrhagic	1	1			1	1	
Ory mouth	10	10	6	6	4	4	
)ysphagia	2	2	1	1	1	1	
interitis	1	1	1	1			
aeces discoloured	1	1	1	1			
aeces pale	1	1	1	1			
requent bowel movements	3	3	2	2	1	1	
Gastritis	1	1	1	1			
Sastrointestinal pain	1	1			1	1	
Gingival pain	1	1	1	1			
Glossodynia	2	2	1	1	1	1	
łaematemesis	1	1			1	1	
lypoaesthesia oral	10	10	7	7	3	3	
ip blister	1	1			1	1	
ip disorder	2	2	2	2			
ip dry	1	1	1	1			
ip pain	1	1	1	1			
ip swelling	15	15	10	10	5	5	
outh swelling	1	1	1	1			
Nouth ulceration	4	4	4	4			
lausea	139	139	97	97	42	42	
Oral mucosa erosion	1	1	1	1			
Oral pain	1	1			1	1	
Paraesthesia oral	33	33	25	25	8	8	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Gastrointestinal disorders				Spontaneous				
	Interval Total # Spontaneous AE	Cumulative Total #	Nons	erious	Serious			
Preferred Term		Spontaneous AE	I	С	I	С		
Retching	1	1	1	1				
Salivary hypersecretion	3	3	3	3				
Swollen tongue	7	7	3	3	4	4		
Tongue discomfort	1	1	1	1				
Tongue dry	1	1	1	1				
Vomiting	40	40	28	28	12	12		
	366	366	251	251	115	115		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



System Organ Class						
General disorders and administration si conditions	te				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	Ser	rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Alcohol interaction	1	1			1	1
Asthenia	14	14	6	6	8	8
Axillary pain	13	13	9	9	4	4
Chest discomfort	15	15	8	8	7	7
Chest pain	11	11	6	6	5	5
Chills	81	81	59	59	22	22
Chronic fatigue syndrome	1	1	1	1		
Condition aggravated	4	4	3	3	1	1
Discomfort	1	1			1	1
Drug ineffective	14	14	3	3	11	11
Facial discomfort	1	1			1	1
Facial pain	1	1			1	1
Fatigue	159	159	105	105	54	54
Feeling abnormal	8	8	4	4	4	4
Feeling cold	10	10	6	6	4	4
Feeling drunk	3	3			3	3
Feeling hot	35	35	26	26	9	9
Feeling jittery	2	2	1	1	1	1
Feeling of body temperature change	8	8	7	7	1	1
Gait disturbance	2	2	1	1	1	1
Illness	6	6	2	2	4	4
Influenza like illness	16	16	10	10	6	6
Injection site erythema	1	1	1	1		
Injection site inflammation	1	1	1	1		
Injection site pain	9	9	8	8	1	1
njection site pruritus	1	1	1	1		
Injection site reaction	1	1	1	1		
Injection site swelling	1	1	1	1		
Injury associated with device	1	1	1	1		
Local reaction	1	1	1	1		
Malaise	60	60	35	35	25	25
Nodule	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

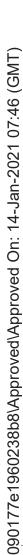


General	disorders	and	adminis	stration s	site
conditio	ns				

General disorders and administration site conditions				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Pain	48	48	31	31	17	17
Peripheral swelling	15	15	11	11	4	4
Pre-existing condition improved	1	1	1	1		
Pyrexia	132	132	80	80	52	52
Swelling	4	4	4	4		
Swelling face	7	7	2	2	5	5
Tenderness	3	3	3	3		
Thirst	1	1	1	1		
Vaccination site bruising	1	1			1	1
Vaccination site discomfort	1	1	1	1		
Vaccination site erythema	21	21	14	14	7	7
Vaccination site haemorrhage	1	1	1	1		
Vaccination site hypoaesthesia	2	2	2	2		
Vaccination site induration	2	2	2	2		
Vaccination site inflammation	3	3	2	2	1	1
Vaccination site joint erythema	1	1			1	1
Vaccination site joint movement impairment	1	1			1	1
Vaccination site joint pain	4	4	2	2	2	2
Vaccination site mass	6	6	5	5	1	1
Vaccination site movement impairment	4	4	2	2	2	2
Vaccination site oedema	1	1	1	1		
Vaccination site pain	106	106	75	75	31	31
Vaccination site paraesthesia	1	1			1	1
Vaccination site pruritus	5	5	3	3	2	2
Vaccination site rash	3	3	2	2	1	1
Vaccination site reaction	3	3	3	3		
Vaccination site swelling	28	28	19	19	9	9
Vaccination site urticaria	1	1	1	1		
Vaccination site warmth	16	16	13	13	3	3
	905	905	589	589	316	316

^{*} I=Interval, C=Cumulative

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Immune system disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Allergy to vaccine	5	5	4	4	1	1	
Anaphylactic reaction	5	5			5	5	
Anaphylactic shock	1	1			1	1	
Anaphylactoid reaction	3	3			3	3	
Drug hypersensitivity	1	1	1	1			
Hypersensitivity	16	16	9	9	7	7	
Immune-mediated adverse reaction	1	1	1	1			
Type IV hypersensitivity reaction	1	1			1	1	
	33	33	15	15	18	18	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Infections and infestations				Spont	aneous	
	Interval Total #	Interval Total # Cumulative Total #	Nons	serious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Cellulitis	2	2			2	2
Coronavirus infection	2	2			2	2
COVID-19	7	7	1	1	6	6
Folliculitis	1	1	1	1		
Gastroenteritis	1	1	1	1		
Herpes virus infection	1	1			1	1
Herpes zoster	2	2	2	2		
Infection	1	1	1	1		
Influenza	4	4	4	4		
Labyrinthitis	1	1			1	1
Nasopharyngitis	6	6	5	5	1	1
Oral herpes	2	2			2	2
Pneumonia	2	2			2	2
Rhinitis	1	1	1	1		
Sputum purulent	1	1			1	1
Suspected COVID-19	4	4	2	2	2	2
Sweating fever	1	1			1	1
Tonsillitis	1	1			1	1
Vaccination site cellulitis	2	2	1	1	1	1
Vestibular neuronitis	1	1			1	1
	43	43	19	19	24	24

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Injury, poisoning and procedural complications				Spon	taneous	
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Circumstance or information capable of leading to medication error	2	2	2	2		
Contusion	2	2	1	1	1	1
Expired product administered	1	1	1	1		
Inappropriate schedule of product administration	1	1	1	1		
Incision site pain	1	1			1	1
Incorrect dose administered	1	1	1	1		
Incorrect route of product administration	4	4	4	4		
Maternal exposure during pregnancy	1	1	1	1		
Occupational exposure to product	1	1	1	1		
Off label use	13	13	13	13		
Overdose	2	2	2	2		
Poor quality product administered	8	8	8	8		
Product administered to patient of inappropriate age	1	1	1	1		
Product label confusion	1	1	1	1		
Product preparation error	3	3	3	3		
Product use issue	12	12	12	12		
Stoma site discharge	1	1			1	1
Stoma site extravasation	1	1	1	1		
Stoma site haemorrhage	1	1	1	1		
Underdose	4	4	4	4		
	61	61	58	58	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Investigations			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Blood pressure abnormal	1	1	1	1			
Blood pressure decreased	3	3	1	1	2	2	
Blood pressure increased	9	9	5	5	4	4	
Blood pressure systolic increased	1	1	1	1			
Blood test abnormal	1	1			1	1	
Body temperature abnormal	1	1	1	1			
Body temperature fluctuation	2	2	2	2			
Body temperature increased	7	7	4	4	3	3	
Heart rate increased	9	9	5	5	4	4	
Oxygen saturation decreased	4	4			4	4	
Respiratory rate increased	1	1	1	1			
SARS-CoV-2 test positive	6	6	3	3	3	3	
	45	45	24	24	21	21	

System Organ Class

Metabolism and nutrition disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious			
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	ı	С		
Decreased appetite	10	10	3	3	7	7		
Dehydration	1	1	1	1				
Diabetes mellitus inadequate control	1	1			1	1		
Diabetic ketoacidosis	1	1			1	1		
Fluid retention	1	1	1	1				
Hyperglycaemia	2	2	1	1	1	1		
Hypoglycaemia	2	2	1	1	1	1		
	18	18	7	7	11	11		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





SV	stem	Organ	Class

Musculoskeletal and connective tissue disorders				aneous		
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С
Arthralgia	59	59	38	38	21	21
Arthritis reactive	1	1			1	1
Axillary mass	1	1	1	1		
Back pain	9	9	8	8	1	1
Bone pain	2	2	1	1	1	1
Flank pain	1	1	1	1		
Joint range of motion decreased	1	1			1	1
Joint stiffness	2	2	1	1	1	1
Joint swelling	3	3	2	2	1	1
Joint warmth	1	1	1	1		
Limb discomfort	22	22	14	14	8	8
Mobility decreased	2	2	1	1	1	1
Muscle fatigue	5	5	2	2	3	3
Muscle spasms	4	4	2	2	2	2
Muscle tightness	1	1			1	1
Muscle twitching	1	1	1	1		
Muscular weakness	9	9	7	7	2	2
Musculoskeletal discomfort	1	1	1	1		
Musculoskeletal stiffness	9	9	4	4	5	5
Myalgia	112	112	76	76	36	36
Myofascial pain syndrome	1	1	1	1		
Neck pain	21	21	16	16	5	5
Pain in extremity	96	96	69	69	27	27
Pain in jaw	1	1	1	1		
Sjogren's syndrome	1	1			1	1

366

248

248

118

118

366

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system disorders			Spontaneous			
	Interval Total #	Cumulative Total # Spontaneous AE	Nons	Nonserious		rious
Preferred Term	Spontaneous AE		1	С	1	С
Ageusia	6	6	5	5	1	1
Anosmia	3	3	3	3		
Balance disorder	3	3	1	1	2	2
Burning sensation	3	3	1	1	2	2
Cataplexy	1	1			1	1
Cerebellar infarction	1	1			1	1
Cerebral infarction	1	1			1	1
Cerebrovascular accident	2	2			2	2
Disturbance in attention	2	2	1	1	1	1
Dizziness	84	84	53	53	31	31
Dizziness postural	7	7	4	4	3	3
Dysgeusia	22	22	18	18	4	4
Epilepsy	1	1			1	1
Facial paralysis	2	2	1	1	1	1
acial paresis	2	2	2	2		
acial spasm	1	1	1	1		
Formication	1	1			1	1
Generalised tonic-clonic seizure	2	2			2	2
leadache	210	210	136	136	74	74
lead discomfort	1	1	1	1		
Hemiparesis	1	1			1	1
Hypersomnia	1	1	1	1		
Hypoaesthesia	22	22	17	17	5	5
schaemic stroke	2	2			2	2
ethargy	17	17	9	9	8	8
Memory impairment	1	1	1	1		
nental impairment	1	1	1	1		
∕ligraine	8	8	6	6	2	2
Migraine with aura	1	1	1	1		
Neuralgia	1	1			1	1
Paraesthesia	31	31	25	25	6	6
Poor quality sleep	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		rious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Presyncope	9	9	5	5	4	4	
Sensory disturbance	2	2	1	1	1	1	
Sinus headache	1	1	1	1			
Somnolence	8	8	5	5	3	3	
Speech disorder	1	1	1	1			
Syncope	12	12	3	3	9	9	
Taste disorder	1	1	1	1			
Tension headache	1	1	1	1			
Transient ischaemic attack	1	1			1	1	
Tremor	16	16	7	7	9	9	
Unresponsive to stimuli	2	2	1	1	1	1	
	496	496	315	315	181	181	

Product issues	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Liquid product physical issue	2	2	2	2
Product packaging quantity issue	3	3	3	3
Product quality issue	1	1	1	1
	6	6	6	6

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Psychiatric disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		rious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Abnormal dreams	3	3	3	3			
Anxiety	11	11	7	7	4	4	
Confusional state	4	4	1	1	3	3	
Depressed mood	1	1	1	1			
Depression	1	1			1	1	
Disorientation	4	4	3	3	1	1	
Dissociation	1	1	1	1			
Hallucination, olfactory	1	1	1	1			
Insomnia	7	7	5	5	2	2	
Mental status changes	1	1	1	1			
Nervousness	2	2			2	2	
Nightmare	2	2	2	2			
Restlessness	3	3	1	1	2	2	
Sleep disorder	3	3	3	3			
Somatic symptom disorder	1	1			1	1	
	45	45	29	29	16	16	

System Organ Class

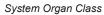
Renal and urinary disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Haematuria	1	1	1	1
Hypertonic bladder	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Reproductive system and breast disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Ser	rious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С	
Breast pain	1	1	1	1			
Dysmenorrhoea	1	1	1	1			
Menorrhagia	2	2	2	2			
Metrorrhagia	1	1	1	1			
Nipple pain	1	1	1	1			
Nipple swelling	1	1	1	1			
Scrotal erythema	1	1			1	1	
Scrotal exfoliation	1	1			1	1	
Scrotal pain	1	1			1	1	
Scrotal swelling	1	1			1	1	
	11	11	7	7	4	4	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Aphonia	2	2	1	1	1	1	
Asthma	1	1			1	1	
Catarrh	1	1	1	1			
Cough	15	15	10	10	5	5	
Dry throat	2	2	2	2			
Dysphonia	3	3			3	3	
Dyspnoea	34	34	16	16	18	18	
Dyspnoea exertional	1	1	1	1			
Epistaxis	5	5	2	2	3	3	
Increased upper airway secretion	1	1	1	1			
Nasal congestion	2	2	2	2			
Nasal discomfort	1	1	1	1			
Oropharyngeal pain	22	22	17	17	5	5	
Painful respiration	2	2	1	1	1	1	
Pharyngeal hypoaesthesia	2	2	2	2			
Pharyngeal paraesthesia	1	1			1	1	
Pharyngeal swelling	2	2	1	1	1	1	
Productive cough	1	1	1	1			
Pulmonary pain	2	2	1	1	1	1	
Respiration abnormal	2	2	1	1	1	1	
Rhinorrhoea	2	2	1	1	1	1	
Sinus pain	1	1			1	1	
Sneezing	1	1	1	1			
Throat irritation	5	5	2	2	3	3	
Throat tightness	7	7	2	2	5	5	
Tonsillar hypertrophy	1	1			1	1	
Wheezing	10	10	8	8	2	2	
	129	129	75	75	54	54	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disor	rders		Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Angioedema	3	3	2	2	1	1
Cold sweat	12	12	3	3	9	9
Dermatitis allergic	7	7	5	5	2	2
Erythema	26	26	21	21	5	5
Hyperhidrosis	17	17	13	13	4	4
Livedo reticularis	1	1	1	1		
Miliaria	2	2			2	2
Night sweats	2	2	2	2		
Pain of skin	3	3	1	1	2	2
Papule	1	1	1	1		
Petechiae	1	1	1	1		
Photosensitivity reaction	1	1			1	1
Piloerection	1	1			1	1
Pruritus	41	41	26	26	15	15
Rash	31	31	21	21	10	10
Rash erythematous	19	19	12	12	7	7
Rash macular	8	8	6	6	2	2
Rash maculo-papular	1	1			1	1
Rash papular	5	5	4	4	1	1
Rash pruritic	5	5	2	2	3	3
Skin mass	1	1	1	1		
Skin reaction	1	1	1	1		
Skin swelling	1	1	1	1		
Skin tightness	1	1			1	1
Skin warm	4	4	1	1	3	3
Urticaria	18	18	15	15	3	3
	213	213	140	140	73	73

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Social circumstances			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	
Impaired work ability	1	1	1	1	
	1	1	1	1	

System Organ Class

SOC Not Yet Coded			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
	1	1	1	1
	1	1	1	1

System Organ Class

Vascular disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Circulatory collapse	1	1			1	1	
Flushing	18	18	12	12	6	6	
Hot flush	11	11	6	6	5	5	
Hypertension	10	10	5	5	5	5	
Hypotension	5	5	2	2	3	3	
Pallor	11	11	4	4	7	7	
Peripheral circulatory failure	1	1			1	1	
Peripheral coldness	5	5	2	2	3	3	
	62	62	31	31	31	31	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

UNITED STATES

System Organ Class

Blood and lymphatic system disorders			Spontaneous					
	Interval Total #	Cumulative Total #	Nonserious Serious					
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Lymphadenitis	2	2	2	2				
Lymphadenopathy	69	69	63	63	6	6		
Lymph node pain	11	11	11	11				
Thrombotic thrombocytopenic purpura	1	1			1	1		
	83	83	76	76	7	7		

System Organ Class

Cardiac disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Arrhythmia	1	1	1	1		
Cardiac discomfort	1	1	1	1		
Cardiac disorder	2	2	2	2		
Cardiac flutter	1	1			1	1
Myocardial infarction	2	2	1	1	1	1
Palpitations	51	51	41	41	10	10
Pericarditis	1	1	1	1		
Supraventricular tachycardia	2	2			2	2
Tachycardia	52	52	42	42	10	10
Ventricular extrasystoles	5	5	3	3	2	2
Ventricular tachycardia	1	1	1	1		
	119	119	93	93	26	26

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Congenital, familial and genetic disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious		
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С		
Congenital anomaly	1	1			1	1		
Muscular dystrophy	1	1	1	1				
	2	2	1	1	1	1		

System Organ Class

Ear and labyrinth disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Deafness	4	4	3	3	1	1
Deafness neurosensory	2	2			2	2
Deafness unilateral	1	1			1	1
Ear discomfort	6	6	5	5	1	1
Ear disorder	1	1	1	1		
Ear pain	14	14	13	13	1	1
Ear swelling	3	3	3	3		
Hyperacusis	1	1			1	1
Hypoacusis	3	3	3	3		
Motion sickness	1	1	1	1		
Paraesthesia ear	1	1	1	1		
Tinnitus	18	18	14	14	4	4
Vertigo	15	15	13	13	2	2
	70	70	57	57	13	13

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Eye disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Abnormal sensation in eye	1	1	1	1			
Asthenopia	2	2	2	2			
Blepharospasm	1	1	1	1			
Blindness transient	1	1			1	1	
Erythema of eyelid	1	1	1	1			
Eye discharge	2	2	2	2			
Eye disorder	4	4	4	4			
Eye haemorrhage	2	2			2	2	
Eye inflammation	1	1	1	1			
Eye irritation	2	2	2	2			
Eyelids pruritus	2	2	2	2			
Eye pain	12	12	12	12			
Eye pruritus	7	7	6	6	1	1	
Eye swelling	13	13	13	13			
Lacrimation increased	2	2	2	2			
Ocular discomfort	3	3	3	3			
Ocular hyperaemia	6	6	6	6			
Periorbital discomfort	1	1	1	1			
Periorbital oedema	1	1	1	1			
Periorbital swelling	7	7	5	5	2	2	
Photophobia	6	6	6	6			
Swelling of eyelid	7	7	7	7			
Vision blurred	14	14	12	12	2	2	
Visual impairment	8	8	7	7	1	1	
	106	106	97	97	9	9	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Abdominal discomfort	13	13	13	13		
Abdominal distension	3	3	3	3		
Abdominal pain	15	15	13	13	2	2
Abdominal pain lower	5	5	3	3	2	2
Abdominal pain upper	13	13	13	13		
Abdominal rigidity	1	1			1	1
Aptyalism	1	1	1	1		
Cheilitis	1	1	1	1		
Constipation	1	1	1	1		
Defaecation urgency	1	1	1	1		
Dental paraesthesia	2	2	2	2		
Diarrhoea	81	81	78	78	3	3
iarrhoea haemorrhagic	1	1	1	1		
ry mouth	18	18	17	17	1	1
Dyspepsia	5	5	5	5		
)ysphagia	9	9	7	7	2	2
nlarged uvula	1	1			1	1
Flatulence	2	2	2	2		
Food poisoning	1	1	1	1		
Sastrointestinal disorder	6	6	6	6		
Sastrointestinal pain	1	1	1	1		
Gingival bleeding	2	2	2	2		
Gingival discolouration	1	1			1	1
Gingival discomfort	1	1			1	1
Gingival pain	2	2			2	2
Glossodynia	2	2	2	2		
łaematochezia	1	1			1	1
łypoaesthesia oral	26	26	24	24	2	2
nfantile vomiting	1	1	1	1		
ip blister	1	1	1	1		
.ip disorder	1	1	1	1		
ip erythema	2	2	2	2		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal	disorders
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	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE
Preferred Term	•	
Lip oedema	2	2
Lip pain	2	2
Lip pruritus	2	2
Lip swelling	16	16
Mouth swelling	5	5
Mouth ulceration	1	1
Mucous stools	1	1
Nausea	257	257
Oral discomfort	5	5
Oral disorder	2	2
Oral mucosal blistering	1	1
Oral mucosal eruption	3	3
Oral mucosal erythema	1	1
Oral pain	4	4
Oral pruritus	3	3
Palatal swelling	1	1
Pancreatitis	1	1
Paraesthesia oral	41	41
Retching	2	2
Small intestinal obstruction	1	1
Stiff tongue	1	1
Stomatitis	1	1
Strawberry tongue	1	1
Swollen tongue	18	18
Tongue coated	1	1
Tongue discolouration	1	1
Tongue discomfort	3	3
Tongue disorder	3	3
Tongue dry	1	1
Tongue haematoma	1	1
Tongue pruritus	2	2
Toothache	5	5

Spontaneous				
Nons	erious	Serious		
- 1	С	I	С	
1	1	1	1	
1	1	1	1	
1	1	1	1	
10	10	6	6	
3	3	2	2	
1	1			
1	1			
242	242	15	15	
4	4	1	1	
2	2			
1	1			
3	3			
1	1			
4	4			
3	3			
		1	1	
		1	1	
36	36	5	5	
2	2			
		1	1	
1	1			
1	1			
1	1			
11	11	7	7	
1	1			
1	1			
3	3			
3	3			
1	1			
1	1			
1	1	1	1	
5	5			

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Gastrointestinal disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С
Vomiting	76	76	73	73	3	3
Vomiting projectile	1	1	1	1		
	687	687	622	622	65	65

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AE=Adverse Event

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General disorders and administration site conditions			Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	ı	С
Administration site pain	3	3	3	3		
Asthenia	77	77	73	73	4	4
Axillary pain	6	6	6	6		
Chest discomfort	43	43	34	34	9	9
Chest pain	31	31	26	26	5	5
Chills	348	348	336	336	12	12
Condition aggravated	24	24	20	20	4	4
Crying	1	1	1	1		
Death	1	1		1	1	1
Discomfort	11	11	11	11		
Disease recurrence	4	4	4	4		
Orug ineffective	116	116	38	38	78	78
Enanthema	1	1	1	1		
Energy increased	1	1	1	1		
ace oedema	2	2	1	1	1	1
Facial discomfort	2	2	2	2		
Facial pain	4	4	4	4		
atigue	391	391	385	385	6	6
Feeling abnormal	75	75	69	69	6	6
Feeling cold	18	18	16	16	2	2
Feeling hot	55	55	48	48	7	7
Feeling jittery	3	3	2	2	1	1
Feeling of body temperature change	4	4	4	4		
Gait disturbance	9	9	8	8	1	1
Glassy eyes	1	1	1	1		
Hangover	1	1	1	1		
lunger	2	2	2	2		
liness	28	28	27	27	1	1
nduration	2	2	2	2		
nflammation	7	7	6	6	1	1
nfluenza like illness	32	32	31	31	1	1
njection site bruising	2	2	2	2		

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AE=Adverse Event

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General disorders and administration site conditions

Preferred Term	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE
Injection site coldness	1	1
Injection site discomfort	2	2
Injection site erythema	12	12
Injection site extravasation	1	1
Injection site haemorrhage	2	2
Injection site hypersensitivity	1	1
Injection site hypoaesthesia	4	4
Injection site induration	2	2
Injection site mass	2	2
Injection site oedema	1	1
Injection site pain	70	70
Injection site pruritus	4	4
Injection site rash	4	4
Injection site swelling	13	13
Injection site urticaria	1	1
Injection site warmth	4	4
Localised oedema	1	1
Local reaction	1	1
Malaise	131	131
Mass	2	2
No adverse event	1	1
Nodule	1	1
Oedema	1	1
Oedema peripheral	1	1
Pain	288	288
Peripheral swelling	36	36
Potentiating drug interaction	1	1
Pyrexia	360	360
Secretion discharge	1	1
Sensation of foreign body	6	6
Sluggishness	1	1
Swelling	21	21

Spontaneous				
Nons	Nonserious Serious			
- 1	С	I	С	
1	1			
2	2			
12	12			
1	1			
2	2			
1	1			
4	4			
2	2			
2	2			
1	1			
69	69	1	1	
4	4			
4	4			
13	13			
1	1			
4	4			
1	1			
1	1			
130	130	1	1	
2	2			
1	1			
1	1			
1	1			
1	1			
280	280	8	8	
33	33	3	3	
1	1			
343	343	17	17	
1	1			
4	4	2	2	
1	1			
18	18	3	3	

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Spontaneous



System Organ Class

General	disorders	and	administ	tration s	ite
conditio	ns				

conditions				Орон	arioodo	
	Interval Total #	Cumulative Total #	Nons	serious	Ser	ious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Swelling face	28	28	25	25	3	3
Symptom recurrence	1	1	1	1		
Tenderness	9	9	9	9		
Therapeutic product ineffective	1	1	1	1		
Therapeutic response unexpected	1	1	1	1		
Thirst	2	2	2	2		
Vaccination site bruising	4	4	4	4		
Vaccination site coldness	1	1	1	1		
Vaccination site discomfort	8	8	8	8		
Vaccination site erythema	33	33	33	33		
Vaccination site haemorrhage	6	6	6	6		
Vaccination site hypoaesthesia	1	1	1	1		
Vaccination site induration	5	5	5	5		
Vaccination site joint discomfort	1	1	1	1		
Vaccination site macule	1	1	1	1		
Vaccination site mass	1	1	1	1		
Vaccination site movement impairment	7	7	7	7		
Vaccination site nodule	2	2	2	2		
Vaccination site pain	267	267	267	267		
Vaccination site paraesthesia	9	9	8	8	1	1
Vaccination site pruritus	12	12	12	12		
Vaccination site rash	8	8	8	8		
Vaccination site reaction	1	1	1	1		
Vaccination site swelling	27	27	27	27		
Vaccination site urticaria	4	4	4	4		
Vaccination site vesicles	2	2	2	2		
Vaccination site warmth	7	7	7	7		
Vessel puncture site haemorrhage	1	1	1	1		
Vessel puncture site injury	1	1	1	1		
	2,733	2,733	2554	2554	179	179

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Hepatobiliary disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С
Gal bladder disorder	1	1	1	1
Hepatic pain	1	1	1	1
	2	2	2	2

Immune system disorders	nmune system disorders			Spont	taneous				
	Interval Total #	Cumulative Total #	Nonserious		Se	rious			
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С			
Allergy to vaccine	11	11	9	9	2	2			
Anaphylactic reaction	24	24	3	3	21	21			
Anaphylactic shock	2	2	1	1	1	1			
Anaphylactoid reaction	2	2	1	1	1	1			
Autoimmune disorder	2	2			2	2			
Drug hypersensitivity	11	11	9	9	2	2			
Food allergy	1	1	1	1					
Hypersensitivity	23	23	16	16	7	7			
Immune system disorder	2	2			2	2			
Immunodeficiency	1	1			1	1			
Reaction to excipient	1	1	1	1					
Serum sickness	1	1			1	1			
	81	81	41	41	40	40			

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AE=Adverse Event

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Infections and infestations				Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Appendicitis	2	2	1	1	1	1
Asymptomatic COVID-19	3	3			3	3
Bronchitis	1	1			1	1
Cellulitis	2	2	1	1	1	1
Conjunctivitis	1	1	1	1		
Coronavirus infection	1	1	1	1		
COVID-19	64	64	19	19	45	45
ar infection	1	1	1	1		
Sastroenteritis viral	1	1			1	1
lerpes simplex	1	1	1	1		
lerpes virus infection	1	1	1	1		
lerpes zoster	7	7	7	7		
lordeolum	3	3	3	3		
nfection	1	1	1	1		
nfluenza	7	7	6	6	1	1
aryngitis	1	1	1	1		
<i>l</i> astitis	1	1			1	1
<i>l</i> leningitis	1	1			1	1
lasopharyngitis	17	17	17	17		
Oral candidiasis	1	1	1	1		
Oral herpes	7	7	6	6	1	1
Oral viral infection	1	1	1	1		
Pertussis	1	1			1	1
Pharyngitis	1	1	1	1		
Pneumonia	1	1			1	1
Pustule	1	1	1	1		
Rash pustular	1	1	1	1		
Rhinitis	1	1	1	1		
Sinusitis	6	6	6	6		
Streptococcal infection	1	1			1	1
Suspected COVID-19	7	7	3	3	4	4
uberculosis	1	1	1	1		

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Infections and infestations				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Upper respiratory tract infection	1	1	1	1		
Urinary tract infection	2	2	2	2		
Vaginal infection	1	1	1	1		
Varicella	1	1	1	1		
Varicella zoster virus infection	1	1	1	1		
	152	152	89	89	63	63

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AE=Adverse Event

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Injury, poisoning and procedural complications				Spon	taneous	
·	Interval Total #	Cumulative Total #	Nons	Nonserious		rious
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Accidental exposure to product	4	4	4	4		
Accidental overdose	16	16	15	15	1	1
Accidental underdose	6	6	6	6		
Circumstance or information capable of leading to medication error	32	32	31	31	1	1
Contusion	3	3	3	3		
Counterfeit product administered	1	1	1	1		
Exposure during pregnancy	3	3	3	3		
Exposure to SARS-CoV-2	11	11	11	11		
Exposure via breast milk	30	30	30	30		
Exposure via eye contact	1	1	1	1		
Exposure via skin contact	2	2	2	2		
Face injury	1	1			1	1
Fall	6	6	4	4	2	2
Foetal exposure timing unspecified	2	2	2	2		
Fracture	1	1			1	1
Inappropriate schedule of product administration	6	6	6	6		
Incorrect dose administered	5	5	5	5		
Incorrect route of product administration	24	24	23	23	1	1
Joint dislocation	1	1			1	1
Limb injury	2	2	2	2		
Maternal exposure during breast feeding	4	4	4	4		
Maternal exposure during pregnancy	19	19	19	19		
Maternal exposure timing unspecified	2	2	2	2		
Muscle strain	2	2	2	2		
Neck injury	1	1	1	1		
Nerve injury	1	1	1	1		
Occupational exposure to SARS-CoV-2	1	1	1	1		
Off label use	62	62	62	62		
Overdose	11	11	11	11		
Poor quality product administered	103	103	103	103		
Product administered at inappropriate site	11	11	11	11		

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Injury, poisoning and procedural complications				Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious Serious			rious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Product preparation error	19	19	18	18	1	1
Product preparation issue	12	12	11	11	1	1
Product prescribing error	2	2	2	2		
Product storage error	1	1	1	1		
Product use issue	62	62	62	62		
Thermal burns of eye	1	1	1	1		
Underdose	22	22	22	22		
Vaccination failure	1	1			1	1
Wrong technique in product usage process	34	34	34	34		
	528	528	517	517	11	11

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Investigations				Spont	aneous	
	Interval Total #	Cumulative Total # Spontaneous AE	Nonserious		Serious	
Preferred Term	Spontaneous AE		1	С	1	С
Blood glucose decreased	1	1	1	1		
Blood glucose increased	2	2	2	2		
Blood pressure abnormal	5	5	5	5		
Blood pressure decreased	5	5	4	4	1	1
Blood pressure diastolic increased	2	2	1	1	1	1
Blood pressure increased	37	37	28	28	9	9
Blood pressure systolic increased	1	1			1	1
Blood urine present	1	1	1	1		
Body temperature abnormal	2	2	2	2		
Body temperature decreased	2	2	2	2		
Body temperature increased	15	15	15	15		
Capillary nail refill test abnormal	1	1	1	1		
Coronavirus test positive	5	5	5	5		
Orug level increased	1	1			1	1
Ejection fraction abnormal	1	1	1	1		
Electrocardiogram QT prolonged	1	1			1	1
Epinephrine increased	1	1	1	1		
Fibrin D dimer increased	1	1	1	1		
Grip strength decreased	1	1	1	1		
leart rate abnormal	4	4	4	4		
leart rate decreased	5	5	3	3	2	2
leart rate increased	89	89	77	77	12	12
leart rate irregular	2	2	1	1	1	1
nfluenza virus test positive	1	1	1	1		
ipids increased	1	1	1	1		
/lyocardial necrosis marker increased	1	1			1	1
Oxygen saturation decreased	1	1	1	1		
Platelet count decreased	1	1	1	1		
Pulse abnormal	3	3	3	3		
Respiratory rate decreased	1	1			1	1
Respiratory rate increased	4	4	3	3	1	1
SARS-CoV-2 ant body test positive	3	3	3	3		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Investigations				Spont	aneous				
	Interval Total #	Cumulative Total #	Nonserious		Se	Serious			
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С			
SARS-CoV-2 test false positive	1	1	1	1					
SARS-CoV-2 test negative	2	2	2	2					
SARS-CoV-2 test positive	81	81	50	50	31	31			
Sinus rhythm	1	1	1	1					
Streptococcus test positive	1	1	1	1					
Weight decreased	3	3	3	3					
Weight increased	1	1	1	1					
	291	291	228	228	63	63			

Metabolism and nutrition disorders				Spont	aneous				
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious			
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	ı	С			
Appetite disorder	1	1	1	1					
Decreased appetite	19	19	17	17	2	2			
Dehydration	7	7	7	7					
Diabetes mellitus	1	1	,		1	1			
Feeding disorder	1	1	1	1					
Hypoglycaemia	1	1	1	1					
	30	30	27	27	3	3			

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Arthralgia	140	140	134	134	6	6
Arthritis	1	1	1	1		
Arthropathy	2	2	2	2		
Axillary mass	1	1	1	1		
Back disorder	1	1	1	1		
Back pain	39	39	36	36	3	3
Bone pain	8	8	8	8		
Bone swelling	2	2	2	2		
Facial asymmetry	1	1	1	1		
Joint instability	1	1			1	1
Joint range of motion decreased	8	8	8	8		
Joint stiffness	2	2	2	2		
Joint swelling	10	10	10	10		
Limb discomfort	23	23	22	22	1	1
Mobility decreased	8	8	8	8		
Muscle discomfort	1	1	1	1		
Muscle fatigue	2	2	2	2		
Muscle spasms	14	14	14	14		
Muscle tightness	7	7	7	7		
Muscle twitching	2	2	2	2		
Muscular weakness	14	14	12	12	2	2
Musculoskeletal chest pain	7	7	7	7		
Musculoskeletal discomfort	7	7	7	7		
Musculoskeletal disorder	1	1	1	1		
Musculoskeletal pain	4	4	3	3	1	1
Musculoskeletal stiffness	10	10	9	9	1	1
Myalgia	197	197	192	192	5	5
Neck pain	30	30	28	28	2	2
Pain in extremity	227	227	222	222	5	5
Pain in jaw	10	10	10	10		
Soft tissue swelling	1	1	1	1		
Spinal pain	3	3	3	3		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Musculoskeletal and connective tissue disorders			Spontaneous					
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С		
Tendonitis	1	1	1	1				
Tenosynovitis	1	1	1	1				
	786	786	759	759	27	27		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Acoustic neuritis	1	1			1	1	
Ageusia	23	23	22	22	1	1	
Amnesia	1	1	1	1			
Anaesthesia	2	2	2	2			
Anosmia	26	26	23	23	3	3	
Aphasia	2	2	2	2			
Ataxia	1	1			1	1	
Balance disorder	8	8	6	6	2	2	
Basal ganglia haemorrhage	1	1			1	1	
Burning sensation	17	17	15	15	2	2	
Cerebral disorder	1	1	1	1			
Cerebrovascular accident	3	3	1	1	2	2	
Cognitive disorder	2	2	2	2			
Depressed level of consciousness	1	1	1	1			
Disturbance in attention	7	7	6	6	1	1	
Dizziness	246	246	219	219	27	27	
Dizziness postural	1	1	1	1			
)ysaesthesia	1	1	1	1			
)ysarthria	4	4	4	4			
ysgeusia	30	30	30	30			
Dyskinesia	2	2	2	2			
Dyslexia	1	1	1	1			
ysstasia	1	1			1	1	
acial paralysis	16	16	7	7	9	9	
ine motor skill dysfunction	1	1	1	1			
reezing phenomenon	1	1	1	1			
Guillain-Barre syndrome	1	1	1	1			
leadache	520	520	502	502	18	18	
lead discomfort	8	8	7	7	1	1	
Hemiparesis	1	1			1	1	
Hyperaesthesia	4	4	4	4			
lypersomnia	4	4	4	4			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system	disorders
----------------	-----------

	Interval Total #	Cumulative Total #
Preferred Term	Spontaneous AE	Spontaneous AE
Hypertonia	1	1
Hypoaesthesia	77	77
Hypogeusia	1	1
Hypokinesia	1	1
Hyposmia	1	1
Infant irritability	1	1
Irregular sleep wake rhythm disorder	1	1
Lethargy	13	13
Loss of consciousness	9	9
Memory impairment	3	3
Mental impairment	5	5
Migraine	18	18
Movement disorder	3	3
Neuralgia	2	2
Neuropathy peripheral	1	1
Paraesthesia	96	96
Paraesthesia mucosal	1	1
Parosmia	7	7
Peroneal nerve palsy	1	1
Poor quality sleep	6	6
Postictal state	1	1
Presyncope	11	11
Reduced facial expression	1	1
Sedation	1	1
Seizure	3	3
Sensory disturbance	2	2
Sensory loss	1	1
Sinus headache	2	2
Slow response to stimuli	1	1
Somnolence	27	27
Speech disorder	6	6
Syncope	13	13

	Sponta	aneous		
Nons	erious	Serious		
- 1	С	I	С	
1	1			
69	69	8	8	
1	1			
1	1			
1	1			
1	1			
1	1			
12	12	1	1	
1	1	8	8	
2	2	1	1	
3	3	2	2	
17	17	1	1	
3	3			
2	2			
		1	1	
86	86	10	10	
1	1			
6	6	1	1	
1	1			
6	6			
1	1			
9	9	2	2	
1	1			
1	1			
1	1	2	2	
2	2			
1	1			
2	2			
1	1			
27	27			
5	5	1	1	
2	2	11	11	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders				Spontaneous				
	Interval Total #	Cumulative Total # Spontaneous AE	Nons	erious	Ser	rious		
Preferred Term	Spontaneous AE		- 1	С	1	С		
Taste disorder	15	15	14	14	1	1		
Transient ischaemic attack	1	1			1	1		
Tremor	26	26	23	23	3	3		
Tunnel vision	1	1			1	1		
	1.298	1.298	1172	1172	126	126		

Product issues	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Needle issue	3	3	3	3
Product complaint	1	1	1	1
Product formulation issue	1	1	1	1
Product leakage	4	4	4	4
Product packaging quantity issue	4	4	4	4
Product temperature excursion issue	90	90	90	90
Syringe issue	1	1	1	1
	104	104	104	104

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Psychiatric disorders	atric disorders		Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	1	С	
Abnormal dreams	2	2	2	2			
Agitation	4	4	4	4			
Anxiety	17	17	17	17			
Confusional state	5	5	4	4	1	1	
Delirium	1	1			1	1	
Depressed mood	2	2	2	2			
Disorientation	2	2	2	2			
Eating disorder	5	5	5	5			
Emotional disorder	2	2	2	2			
⁼ ear	2	2	1	1	1	1	
Hallucination	1	1			1	1	
nitial insomnia	1	1	1	1			
nsomnia	18	18	18	18			
rritability	2	2	2	2			
aziness	1	1	1	1			
Middle insomnia	1	1	1	1			
Nervousness	13	13	12	12	1	1	
Nightmare	1	1	1	1			
Panic attack	3	3	2	2	1	1	
Panic reaction	1	1			1	1	
Paranoia	1	1	1	1			
Post-traumatic stress disorder	1	1	1	1			
Restlessness	2	2	2	2			
Sleep disorder	8	8	6	6	2	2	
Sleep disorder due to a general medical condition	1	1	1	1			
Staring	1	1			1	1	
Stress	2	2	2	2			
Terminal insomnia	1	1	1	1			
Thinking abnormal	4	4	4	4			
	105	105	95	95	10	10	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Renal and urinary disorders				Spontaneous				
	Interval Total # Spontaneous AE	Cumulative Total #	Nons	serious	Se	rious		
Preferred Term		Spontaneous AE	1	С	I	С		
Chromaturia	1	1	1	1				
Dysuria	1	1	1	1				
Haematuria	1	1			1	1		
Incontinence	1	1			1	1		
Pollakiuria	1	1	1	1				
Renal pain	1	1	1	1				
Urinary incontinence	1	1	1	1				
	7	7	5	5	2	2		

Reproductive system and breast disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	I	С	
Breast swelling	1	1	1	1			
Breast tenderness	1	1			1	1	
Dysmenorrhoea	1	1	1	1			
Menstrual disorder	1	1	1	1			
Metrorrhagia	1	1	1	1			
Nipple pain	1	1	1	1			
Nipple swelling	2	2	2	2			
	8	8	7	7	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders	horacic and mediastinal		Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious		
Preferred Term	Spontaneous AE	Spontaneous AE	I	С	I	С	
Aphonia	2	2	2	2			
Asthma	3	3	3	3			
Bronchospasm	1	1	1	1			
Choking	1	1	1	1			
Cough	84	84	74	74	10	10	
Ory throat	8	8	6	6	2	2	
Dysphonia	10	10	6	6	4	4	
Dyspnoea	80	80	55	55	25	25	
yspnoea exertional	3	3	3	3			
pistaxis	3	3	3	3			
liccups	1	1	1	1			
lyperventilation	4	4	2	2	2	2	
lypoxia	2	2			2	2	
ncreased upper airway secretion	1	1			1	1	
ntranasal paraesthesia	1	1	1	1			
aryngeal oedema	2	2	2	2			
ower respiratory tract congestion	1	1	1	1			
ung infiltration	1	1			1	1	
lasal congestion	48	48	46	46	2	2	
lasal discomfort	3	3	2	2	1	1	
lasal disorder	1	1	1	1			
lasal dryness	1	1	1	1			
lasal oedema	2	2	1	1	1	1	
Obstructive airways disorder	1	1			1	1	
rganising pneumonia	1	1	1	1			
Propharyngeal discomfort	10	10	7	7	3	3	
ropharyngeal pain	72	72	69	69	3	3	
aranasal sinus discomfort	2	2	2	2			
Pharyngeal disorder	1	1	1	1			
Pharyngeal hypoaesthesia	3	3	3	3			
Pharyngeal mass	2	2	2	2			
Pharyngeal paraesthesia	8	8	8	8			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders			Spontaneous						
	Interval Total #	Cumulative Total #	Nons	Nonserious		rious			
Preferred Term	Spontaneous AE	Spontaneous AE	1	С	1	С			
Pharyngeal swelling	23	23	14	14	9	9			
Pleuritic pain	1	1	1	1					
Productive cough	2	2	2	2					
Pulmonary congestion	1	1			1	1	_		
Pulmonary embolism	1	1			1	1			
Pulmonary oedema	1	1	1	1					
Respiratory distress	3	3			3	3			
Respiratory tract congestion	3	3	3	3					
Rhinalgia	1	1	1	1					
Rhinorrhoea	28	28	28	28					
Sinus congestion	4	4	4	4					
Sinus disorder	2	2	2	2					
Sinus pain	2	2	2	2					
Sneezing	8	8	8	8					
Suffocation feeling	1	1	1	1					
Tachypnoea	1	1	1	1					
Throat clearing	1	1			1	1			
Throat irritation	30	30	26	26	4	4			
Throat tightness	31	31	18	18	13	13			
Tonsillar hypertrophy	1	1	1	1					
				1		1	_		

5

5

10

529

5

5

5

433

5

5

5

433

5

96

Tracheomalacia

Wheezing

Upper-airway cough syndrome

Upper respiratory tract congestion

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5

10

529

1

5

96

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disorders			Spontaneous			
	Interval Total #	Cumulative Total # Spontaneous AE	Nonserious		Serious	
Preferred Term	Spontaneous AE		1	С	1	С
Acne	1	1	1	1		
Angioedema	7	7	4	4	3	3
Blister	6	6	6	6		
Cold sweat	9	9	9	9		
Dermatitis allergic	1	1	1	1		
Orug eruption	1	1	1	1		
Ory skin	1	1	1	1		
Eczema	2	2	2	2		
Erythema	45	45	41	41	4	4
Hidradenitis	1	1	1	1		
Hyperhidrosis	48	48	44	44	4	4
diopathic urticaria	1	1	1	1		
ivedo reticularis	1	1			1	1
Mechanical urticaria	1	1	1	1		
Night sweats	9	9	7	7	2	2
Pain of skin	3	3	3	3		
Palmar erythema	1	1	1	1		
Papule	1	1	1	1		
Photosensitivity reaction	3	3	3	3		
Piloerection	2	2	2	2		
Pruritus	102	102	96	96	6	6
Pseudofolliculitis	1	1	1	1		
Psoriasis	1	1	1	1		
Rash	92	92	79	79	13	13
Rash erythematous	12	12	10	10	2	2
Rash macular	11	11	9	9	2	2
Rash maculo-papular	2	2	2	2		
Rash papular	2	2	2	2		
Rash pruritic	12	12	12	12		
Scab	1	1	1	1		
Skin burning sensation	2	2	2	2		
Skin discolouration	6	6	4	4	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious	
Preferred Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С
Skin disorder	4	4	3	3	1	1
Skin irritation	1	1	1	1		
Skin reaction	1	1	1	1		
Skin tightness	2	2	2	2		
Urticaria	71	71	64	64	7	7
	467	467	420	420	47	47

System Organ Class

Social circumstances				Spontaneous			
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nonserious		Serious		
Preferred Term			1	С	1	С	
Impaired driving ability	1	1	1	1			
Impaired work ability	2	2	2	2			
Loss of personal independence in daily activities	9	9	8	8	1	1	
	12	12	11	11	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Vascular disorders				Spont	aneous	
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nonserious		Serious	
Preferred Term			1	С	1	С
Blood pressure fluctuation	1	1	1	1		
Bloody discharge	1	1	1	1		
Cyanosis	1	1	1	1		
Diastolic hypotension	1	1			1	1
Flushing	70	70	61	61	9	9
Haemorrhage	2	2	1	1	1	1
Hot flush	18	18	16	16	2	2
Hyperaemia	2	2	2	2		
Hypertension	22	22	15	15	7	7
Hypertensive crisis	1	1	1	1		
Hypertensive emergency	2	2			2	2
Hypotension	3	3	2	2	1	1
Pallor	5	5	5	5		
Peripheral coldness	14	14	13	13	1	1
Poor peripheral circulation	1	1	1	1		
Raynaud's phenomenon	1	1	1	1		
Shock symptom	1	1			1	1
Vasodilatation	1	1	1	1		
	147	147	122	122	25	25

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

UNITED STATES MINOR OUTLYING ISLANDS

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
Preferred Term	Spontaneous AE	Spontaneous AE	1	С
Vaccination site pain	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



APPENDIX 2.6: Cumulative and Interval Summary Tabulation of Serious and Non-Serious Adverse Reactions From Post-Marketing Data Sources Organized per MedDRA System Organ Class by High Level Term

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval) / 3,615 (Cumulative)

Total Number of Adverse Events (PT): 11,824 (Interval) / 11,824 (Cumulative)

MedDRA Version: v.23.1J

System Organ Class

Blood and lymphatic system disorders				Spont	ineous			
	Interval Total # Cumulative Total #		Nons	erious	Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Leukopenias NEC	1	1	1	1				
Lymphatic system disorders NEC	145	145	117	117	28	28		
Thrombocytopenias	1	1			1	1		
	147	147	118	118	29	29		

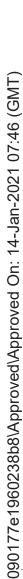
System Organ Class

Cardiac disorders				Spont	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С		
Cardiac disorders NEC	2	2	2	2				
Cardiac signs and symptoms NEC	72	72	55	55	17	17		
Heart failures NEC	1	1			1	1		
Ischaemic coronary artery disorders	4	4	1	1	3	3		
Noninfectious pericarditis	2	2	2	2				
Rate and rhythm disorders NEC	83	83	60	60	23	23		
Supraventricular arrhythmias	10	10	3	3	7	7		
Ventricular arrhythmias and cardiac arrest	12	12	4	4	8	8		
	186	186	127	127	59	59		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Congenital, familial and genetic disorders				Sponta	aneous				
	Interval Total #	Interval Total # Cumulative Total #		Nonserious 5					
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С			
Congenital disorders NEC	1	1			1	1			
Non-site specific muscle disorders congenital	1	1	1	1					
	2	2	1	1	1	1			

Ear and labyrinth disorders		Spont	ontaneous				
	Interval Total #	Interval Total # Cumulative Total #		Nonserious		rious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Ear disorders NEC	30	30	24	24	6	6	
Hearing losses	11	11	6	6	5	5	
Hyperacusia	2	2	1	1	1	1	
Inner ear signs and symptoms	49	49	36	36	13	13	
	92	92	67	67	25	25	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Eye disorders				Sponta	aneous	Serious			
	Interval Total #	Cumulative Total #	Nons	erious	Ser	ious			
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С			
Choroid and vitreous structural change, deposit and degeneration	1	1	1	1					
Conjunctival and corneal bleeding and vascular disorders	1	1			1	1			
Eyelid movement disorders	1	1	1	1					
Lacrimation disorders	3	3	3	3					
Lid, lash and lacrimal infections, irritations and inflammations	11	11	10	10	1	1			
Ocular bleeding and vascular disorders NEC	2	2		,	2	2			
Ocular disorders NEC	57	57	51	51	6	6			
Ocular infections, inflammations and associated manifestations	22	22	20	20	2	2			
Ocular sensation disorders	17	17	12	12	5	5			
Retinal structural change, deposit and degeneration	1	1			1	1			
Visual disorders NEC	26	26	20	20	6	6			
Visual impairment and blindness (excl colour blindness)	10	10	7	7	3	3			
	152	152	125	125	27	27			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal disorders				Sponta	ontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Acute and chronic pancreatitis	1	1			1	1		
Dental pain and sensation disorders	8	8	8	8				
Diarrhoea (excl infective)	136	136	112	112	24	24		
Duodenal and small intestinal stenosis and obstruction	1	1			1	1		
Dyspeptic signs and symptoms	5	5	5	5				
Faecal abnormalities NEC	4	4	4	4				
Flatulence, bloating and distension	7	7	6	6	1	1		
Gastritis (excl infective)	2	2	2	2				
Gastrointestinal and abdominal pains (excl oral and throat)	65	65	52	52	13	13		
Gastrointestinal atonic and hypomotility disorders NEC	1	1	1	1				
Gastrointestinal disorders NEC	7	7	7	7				
Gastrointestinal inflammatory disorders NEC	1	1	1	1				
Gastrointestinal signs and symptoms NEC	28	28	25	25	3	3		
Gastrointestinal spastic and hypermotility disorders	6	6	3	3	3	3		
Gingival disorders, signs and symptoms NEC	5	5	1	1	4	4		
Gingival haemorrhages	2	2	2	2				
Intestinal haemorrhages	1	1			1	1		
Nausea and vomiting symptoms	530	530	457	457	73	73		
Non-site specific gastrointestinal haemorrhages	2	2			2	2		
Oral dryness and saliva altered	35	35	29	29	6	6		
Oral soft tissue disorders NEC	9	9	7	7	2	2		
Oral soft tissue signs and symptoms	145	145	123	123	22	22		
Oral soft tissue swelling and oedema	40	40	25	25	15	15		
Stomatitis and ulceration	7	7	7	7				
Tongue disorders	4	4	4	4				
Tongue signs and symptoms	44	44	31	31	13	13		
	1,096	1,096	912	912	184	184		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



General disorders and administration site conditions					Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Serious				
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С			
Administration site reactions NEC	5	5	5	5					
Adverse effect absent	1	1	1	1					
Asthenic conditions	869	869	769	769	100	100			
Complications associated with device NEC	1	1	1	1					
Death and sudden death	5	5			5	5			
Febrile disorders	503	503	434	434	69	69			
Feelings and sensations NEC	679	679	602	602	77	77			
Gait disturbances	12	12	10	10	2	2			
General signs and symptoms NEC	244	244	207	207	37	37			
Inflammations	7	7	6	6	1	1			
Injection site reactions	142	142	140	140	2	2			
Interactions	2	2	1	1	1	1			
Mass conditions NEC	4	4	4	4					
Mucosal findings abnormal	2	2	1	1	1	1			
Oedema NEC	5	5	4	4	1	1			
Pain and discomfort NEC	495	495	436	436	59	59			
Therapeutic and nontherapeutic responses	134	134	44	44	90	90			
√accination site reactions	657	657	593	593	64	64			
	3,767	3,767	3258	3258	509	509			

System Organ Class

Hepatobiliary disorders	Spont	Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Gal bladder disorders NEC	1	1	1	1
Hepatobiliary signs and symptoms	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Immune system disorders				Spont	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	I	С	I	С		
Allergic conditions NEC	44	44	28	28	16	16		
Allergies to foods, food additives, drugs and other chemicals	31	31	26	26	5	5		
Anaphylactic and anaphylactoid responses	41	41	5	5	36	36		
Autoimmune disorders NEC	2	2			2	2		
Immune and associated conditions NEC	3	3	1	1	2	2		
Immunodeficiency disorders NEC	1	1			1	1		
	122	122	60	60	62	62		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Infections and infestations	ections and infestations			Sponta	ntaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С			
Abdominal and gastrointestinal infections	3	3	2	2	1	1			
Bacterial infections NEC	6	6	2	2	4	4			
Bordetella infections	1	1			1	1			
Breast infections	1	1			1	1			
Candida infections	1	1	1	1					
Central nervous system and spinal infections	1	1			1	1			
Coronavirus infections	89	89	26	26	63	63			
Ear infections	2	2	1	1	1	1			
Eye and eyelid infections	5	5	5	5					
Female reproductive tract infections	1	1	1	1					
Herpes viral infections	23	23	19	19	4	4			
nfections NEC	2	2	2	2					
nfluenza viral infections	12	12	11	11	1	1			
Lower respiratory tract and lung infections	5	5			5	5			
Skin structures and soft tissue infections	3	3	3	3					
Streptococcal infections	1	1			1	1			
Tuberculous infections	1	1	1	1					
Jpper respiratory tract infections	35	35	33	33	2	2			
Jrinary tract infections	2	2	2	2					
/iral infections NEC	4	4	1	1	3	3			
	198	198	110	110	88	88			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Injury, poisoning and procedural complications			Spontaneo			
	Interval Total #	Cumulative Total #	Nons	erious	Sei	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Accidental exposures to product	4	4	4	4		
Exposures associated with pregnancy, delivery and lactation	65	65	65	65		
Exposures to agents or circumstances NEC	11	11	11	11		
Fractures and dislocations NEC	2	2			2	2
Medication errors, product use errors and issues NEC	150	150	149	149	1	1
Muscle, tendon and ligament injuries	2	2	2	2		
Nerve injuries NEC	1	1	1	1		
Non-site specific injuries NEC	6	6	4	4	2	2
Non-site specific procedural complications	1	1			1	1
Occupational exposures	2	2	2	2		
Off label uses	77	77	77	77		
Overdoses NEC	15	15	15	15		
Pathways and sources of exposure	3	3	3	3		
Product administration errors and issues	224	224	220	220	4	4
Product confusion errors and issues	4	4	4	4		
Product preparation errors and issues	41	41	39	39	2	2
Product prescribing errors and issues	2	2	2	2		
Product storage errors and issues in the product use system	2	2	2	2		
Site specific injuries NEC	4	4	3	3	1	1
Skin injuries NEC	5	5	4	4	1	1
Stoma complications	3	3	2	2	1	1
Thermal burns	1	1	1	1		
Underdoses NEC	27	27	27	27		
Vaccination related complications	1	1			1	1
	653	653	637	637	16	16

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Investigations				Spont	aneous			
	Interval Total #	Cumulative Total #		Nonserious		rious		
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С		
Adrenal medulla tests	1	1	1	1				
Bacteria identification and serology (excl mycobacteria)	1	1	1	1				
Blood gas and acid base analyses	5	5	1	1	4	4		
Carbohydrate tolerance analyses (incl diabetes)	3	3	3	3				
Cardiac function diagnostic procedures	1	1	1	1				
Coagulation and bleeding analyses	1	1	1	1				
ECG investigations	1	1			1	1		
Heart rate and pulse investigations	118	118	98	98	20	20		
Investigations NEC	1	1			1	1		
Lipoprotein and lipid tests NEC	1	1	1	1				
Physical examination procedures and organ system status	43	43	38	38	5	5		
Platelet analyses	1	1	1	1				
Skeletal and cardiac muscle analyses	1	1			1	1		
Therapeutic drug monitoring analyses	1	1		,	1	1		
Urinalysis NEC	1	1	1	1				
Vascular tests NEC (incl blood pressure)	70	70	50	50	20	20		
Virus identification and serology	101	101	67	67	34	34		
	351	351	264	264	87	87		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Metabolism and nutrition disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Appetite disorders	32	32	23	23	9	9	
Diabetes mellitus (incl subtypes)	2	2			2	2	
Diabetic complications NEC	1	1			1	1	
General nutritional disorders NEC	1	1	1	1			
Hyperglycaemic conditions NEC	2	2	1	1	1	1	
Hypoglycaemic conditions NEC	3	3	2	2	1	1	
Total fluid volume decreased	8	8	8	8			
Total fluid volume increased	2	2	2	2			
	51	51	37	37	14	14	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Musculoskeletal and connective tissue disorders				Spontaneous			
	Interval Total # Cumulative Total # Spontaneous AE Spontaneous AE	Nons	Nonserious		Serious		
High Level Term		1	С	I	С		
Arthropathies NEC	3	3	3	3			
Bone related signs and symptoms	27	27	26	26	1	1	
Connective tissue disorders NEC	1	1			1	1	
Joint related disorders NEC	1	1			1	1	
Joint related signs and symptoms	231	231	201	201	30	30	
Muscle pains	316	316	275	275	41	41	
Muscle related signs and symptoms NEC	39	39	32	32	7	7	
Muscle weakness conditions	24	24	20	20	4	4	
Musculoskeletal and connective tissue conditions NEC	33	33	25	25	8	8	
Musculoskeletal and connective tissue deformities of skull, face and buccal cavity	1	1	1	1			
Musculoskeletal and connective tissue pain and discomfort	509	509	456	456	53	53	
Soft tissue disorders NEC	3	3	3	3			
Spondyloarthropathies	1	1			1	1	
Tendon disorders	2	2	2	2			
	1.191	1.191	1044	1044	147	147	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

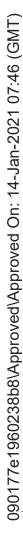


Nervous system disorders	orders		Spontaneous			
	Interval Total #	Cumulative Total #	Nonserious Seriou			ious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Acute polyneuropathies	2	2	1	1	1	1
Auditory nerve disorders	1	1			1	1
Central nervous system haemorrhages and cerebrovascular accidents	10	10	1	1	9	9
Coordination and balance disturbances	14	14	8	8	6	6
Cortical dysfunction NEC	3	3	3	3		
Disturbances in consciousness NEC	107	107	64	64	43	43
Disturbances in sleep phase rhythm	1	1	1	1		
Dyskinesias and movement disorders NEC	8	8	8	8		
Facial cranial nerve disorders	26	26	11	11	15	15
Generalised tonic-clonic seizures	2	2			2	2
Headaches NEC	757	757	664	664	93	93
Memory loss (excl dementia)	5	5	4	4	1	1
Mental impairment (excl dementia and memory loss)	18	18	14	14	4	4
Migraine headaches	27	27	24	24	3	3
Mononeuropathies	1	1	1	1		
Muscle tone abnormal	1	1	1	1		
Myelitis (incl infective)	1	1			1	1
Narcolepsy and hypersomnia	7	7	6	6	1	1
Nervous system disorders NEC	1	1	1	1		
Neurological signs and symptoms NEC	383	383	313	313	70	70
Neurologic visual problems NEC	1	1			1	1
Olfactory nerve disorders	39	39	35	35	4	4
Paraesthesias and dysaesthesias	272	272	236	236	36	36
Paralysis and paresis (excl cranial nerve)	5	5	1	1	4	4
Parkinson's disease and parkinsonism	2	2	2	2		
Peripheral neuropathies NEC	1	1			1	1
Seizures and seizure disorders NEC	8	8	1	1	7	7
Sensory abnormalities NEC	112	112	103	103	9	9
Sleep disturbances NEC	8	8	8	8		
Speech and language abnormalities	12	12	11	11	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	I	С	I	С		
Transient cerebrovascular events	2	2			2	2		
Tremor (excl congenital)	44	44	31	31	13	13		
	1,881	1,881	1553	1553	328	328		

Product issues				Spon	ntaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Counterfeit, falsified and substandard products	2	2	2	2				
Device physical property and chemical issues	4	4	4	4				
Product distribution and storage issues	90	90	90	90				
Product packaging issues	18	18	18	18				
Product physical issues	14	14	14	14				
Product quality issues NEC	13	13	12	12	1	1		
	141	141	140	140	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



sychiatric disorders				Spont	ntaneous			
	Interval Total # Cumulative Total #	Nonserious		Serious				
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Abnormal behaviour NEC	1	1			1	1		
Anxiety symptoms	50	50	43	43	7	7		
Behaviour and socialisation disturbances	1	1	1	1				
Confusion and disorientation	15	15	10	10	5	5		
Deliria	1	1			1	1		
Depressive disorders	1	1			1	1		
Dissociative states	1	1	1	1				
Disturbances in initiating and maintaining sleep	30	30	28	28	2	2		
Eating disorders NEC	5	5	5	5				
Emotional and mood disturbances NEC	4	4	4	4				
Fear symptoms and phobic disorders (incl social phobia)	2	2	1	1	1	1		
Hallucinations (excl sleep-related)	2	2	1	1	1	1		
Increased physical activity levels	6	6	4	4	2	2		
Mental disorders NEC	1	1	1	1				
Mood alterations with depressive symptoms	3	3	3	3				
Mood disorders NEC	1	1	1	1				
Panic attacks and disorders	5	5	3	3	2	2		
Parasomnias	8	8	8	8				
Sleep disorders NEC	13	13	11	11	2	2		
Somatic symptom disorders	1	1			1	1		
Stress disorders	1	1	1	1				
Thinking disturbances	4	4	4	4				
	156	156	130	130	26	26		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





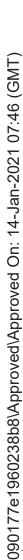
Renal and urinary disorders				Spont	aneous			
	Interval Total # Cumulative Total		Nonserious		Serious			
High Level Term	Term Spontaneous AE	Spontaneous AE	1	С	I	С		
Bladder and urethral symptoms	5	5	4	4	1	1		
Myoneurogenic bladder disorders	1	1	1	1				
Urinary abnormalities	3	3	2	2	1	1		
Urinary tract signs and symptoms NEC	1	1	1	1				
	10	10	8	8	2	2		

Reproductive system and breast disorders				Spontaneous				
	Interval Total # Cumulative Total # Spontaneous AE Spontaneous AE	Nonserious Ser			rious			
High Level Term		Spontaneous AE	1	С	I	С		
Breast signs and symptoms	8	8	7	7	1	1		
Menstruation and uterine bleeding NEC	5	5	5	5				
Menstruation with increased bleeding	2	2	2	2				
Scrotal disorders NEC	4	4			4	4		
	19	19	14	14	5	5		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Respiratory, thoracic and mediastinal disorders	•			Spont	ontaneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С		
Breathing abnormalities	134	134	83	83	51	51		
Bronchospasm and obstruction	26	26	17	17	9	9		
Conditions associated with abnormal gas exchange	2	2			2	2		
Coughing and associated symptoms	103	103	87	87	16	16		
Laryngeal spasm, oedema and obstruction	3	3	3	3				
Lower respiratory tract signs and symptoms	5	5	4	4	1	1		
Nasal congestion and inflammations	51	51	49	49	2	2		
Nasal disorders NEC	13	13	9	9	4	4		
Paranasal sinus disorders (excl infections and neoplasms)	6	6	6	6				
Parenchymal lung disorders NEC	2	2	1	1	1	1		
Pharyngeal disorders (excl infections and neoplasms)	46	46	34	34	12	12		
Pulmonary oedemas	2	2	1	1	1	1		
Pulmonary thrombotic and embolic conditions	1	1			1	1		
Respiratory signs and symptoms NEC	3	3	2	2	1	1		
Respiratory tract disorders NEC	3	3	3	3				
Tracheal disorders (excl infections and neoplasms)	1	1			1	1		
Upper respiratory tract signs and symptoms	274	274	223	223	51	51		
	675	675	522	522	153	153		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disorders				Spont	aneous	neous			
	Interval Total # Cumu	Cumulative Total #	Nonserious		Serious				
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С			
Acnes	1	1	1	1					
Angioedemas	11	11	6	6	5	5			
Apocrine and eccrine gland disorders	102	102	81	81	21	21			
Bullous conditions	6	6	6	6					
Dermal and epidermal conditions NEC	32	32	23	23	9	9			
Dermatitis and eczema	15	15	13	13	2	2			
Dermatitis ascribed to specific agent	1	1	1	1					
Erythemas	77	77	67	67	10	10			
Photosensitivity and photodermatosis conditions	4	4	3	3	1	1			
Pilar disorders NEC	4	4	3	3	1	1			
Pruritus NEC	146	146	125	125	21	21			
Psoriatic conditions	1	1	1	1					
Purpura and related conditions	1	1	1	1					
Rashes, eruptions and exanthems NEC	204	204	162	162	42	42			
Skin and subcutaneous conditions NEC	1	1	1	1					
Skin vasomotor conditions	2	2	1	1	1	1			
Urticarias	95	95	85	85	10	10			
	703	703	580	580	123	123			

System Organ Class

Social circumstances				Spont	taneous				
	Interval Total #	Cumulative Total #	Nons	erious	Se	erious			
High Level Term	Spontaneous AE	Spontaneous AE	I	С	I	С			
Disability issues	13	13	12	12	1	1			
	13	13	12	12	1	1			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



SOC Not Yet Coded			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
	1	1	1	1
	1	1	1	1

System Organ Class

Surgical and medical procedures			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Immunisations	1	1	1	1
	1	1	1	1

System Organ Class

Vascular disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Accelerated and malignant hypertension	3	3	1	1	2	2
Blood pressure disorders NEC	1	1	1	1		
Circulatory collapse and shock	3	3			3	3
Haemorrhages NEC	3	3	2	2	1	1
Non-site specific vascular disorders NEC	3	3	3	3		
Peripheral vascular disorders NEC	121	121	97	97	24	24
Peripheral vasoconstriction, necrosis and vascular insufficiency	21	21	17	17	4	4
Site specific vascular disorders NEC	16	16	9	9	7	7
Vascular hypertensive disorders NEC	34	34	21	21	13	13
Vascular hypotensive disorders	9	9	4	4	5	5
	214	214	155	155	59	59

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



APPENDIX 2.6.1: Cumulative and Interval Summary Tabulation of Serious and Non-Serious Adverse Reactions From Post-Marketing Data Sources Organized per MedDRA System Organ Class by High Level Term per Country

Cumulative Reporting Period: Through 31-DEC-2020

Interval Reporting Period: 01-DEC-2020 Through 31-DEC-2020

Total Number of Cases: 3,615 (Interval) / 3,615 (Cumulative)

Total Number of Adverse Events (PT): 11,824 (Interval) / 11,824 (Cumulative)

MedDRA Version: v.23.1J

Country Where Event Occurred

AFGHANISTAN

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Feelings and sensations NEC	2	2	2	2
General signs and symptoms NEC	1	1	1	1
	3	3	3	3

System Organ Class

Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Muscle related signs and symptoms NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	1	С
Facial cranial nerve disorders	1	1			1	1
Paraesthesias and dysaesthesias	1	1	1	1		
	2	2	1	1	1	1

System Organ Class

Skin and subcutaneous tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Erythemas	1	1	1	1
Pruritus NEC	1	1	1	1
Rashes, eruptions and exanthems NEC	1	1	1	1
	3	3	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

BULGARIA

System Organ Class

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Feelings and sensations NEC	1	1	1	1
	1	1	1	1

System Organ Class

Investigations			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Virus identification and serology	1	1	1	1
	1	1	1	1

System Organ Class

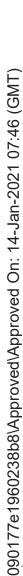
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Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Musculoskeletal and connective tissue pain and discomfort	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders			Spont	taneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Olfactory nerve disorders	1	1	1	1
Sensory abnormalities NEC	1	1	1	1
	2	2	2	2

Skin and subcutaneous tissue disorders				Spontaneous		
	Interval Total # Spontaneous AE	Cumulative Total #	Nonserious			
High Level Term		Spontaneous AE	I	С		
Apocrine and eccrine gland disorders	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

CANADA

System Organ Class

Blood and lymphatic system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Lymphatic system disorders NEC	1	1	1	1
	1	1	1	1

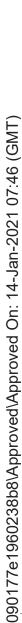
System Organ Class

Gastrointestinal disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Diarrhoea (excl infective)	2	2	2	2	
Gastrointestinal signs and symptoms NEC	1	1	1	1	
Nausea and vomiting symptoms	2	2	2	2	
Oral soft tissue signs and symptoms	3	3	3	3	
Tongue signs and symptoms	2	2	2	2	
	10	10	10	10	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Asthenic conditions	3	3	3	3	
Febrile disorders	2	2	2	2	
Feelings and sensations NEC	3	3	3	3	
General signs and symptoms NEC	1	1	1	1	
Pain and discomfort NEC	1	1	1	1	
Therapeutic and nontherapeutic responses	1	1	1	1	
Vaccination site reactions	1	1	1	1	
	12	12	12	12	

System Organ Class

Immune system disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Allergic conditions NEC	1	1	1	1
Allergies to foods, food additives, drugs and other chemicals	1	1	1	1
	2	2	2	2

Investigations			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Heart rate and pulse investigations	1	1	1	1
Virus identification and serology	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Metabolism and nutrition disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Appetite disorders	1	1	1	1
Total fluid volume increased	1	1	1	1
	2	2	2	2

System Organ Class

Musculoskeletal and connective tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Muscle pains	1	1	1	1	
Musculoskeletal and connective tissue pain and discomfort	1	1	1	1	
	2	2	2	2	

System Organ Class

Nervous system disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Disturbances in consciousness NEC	2	2			2	2
Facial cranial nerve disorders	1	1			1	1
Headaches NEC	3	3	3	3		
Mental impairment (excl dementia and memory loss)	1	1	1	1		
Narcolepsy and hypersomnia	1	1	1	1		
Paraesthesias and dysaesthesias	1	1	1	1		
Sensory abnormalities NEC	1	1	1	1		
	10	10	7	7	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Respiratory, thoracic and mediastinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Upper respiratory tract signs and symptoms	1	1	1	1
	1	1	1	1

System Organ Class

Skin and subcutaneous tissue disorders				aneous
Interval Total # Cumulative Total #			Nonserious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Urticarias	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

CHILE

System Organ Class

Blood and lymphatic system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Lymphatic system disorders NEC	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Nausea and vomiting symptoms	1	1	1	1	
Oral dryness and saliva altered	1	1	1	1	
	2	2	2	2	

System Organ Class

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General disorders and administration site conditions			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Asthenic conditions	2	2	2	2	
Febrile disorders	1	1	1	1	
General signs and symptoms NEC	1	1	1	1	
Pain and discomfort NEC	1	1	1	1	
Vaccination site reactions	1	1	1	1	
	6	6	6	6	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders			Spont	taneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Muscle pains	1	1	1	1
	1	1	1	1

System Organ Class

Nervous system disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Headaches NEC	1	1	1	1
Neurological signs and symptoms NEC	1	1	1	1
Paraesthesias and dysaesthesias	1	1	1	1
	3	3	3	3

System Organ Class

Skin and subcutaneous tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Dermatitis and eczema	4	4	4	4
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Country Where Event Occurred

CROATIA

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Asthenic conditions	2	2	2	2
Vaccination site reactions	2	2	2	2
	4	4	4	4

System Organ Class

Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Product administration errors and issues	1	1	1	1
	1	1	1	1

System Organ Class

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Investigations				aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Physical examination procedures and organ system status	3	3	3	3
	3	3	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	
Musculoskeletal and connective tissue pain and discomfort	1	1	1	1	
	1	1	1	1	

System Organ Class

Nervous system disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Headaches NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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As of Date: 01-JAN-2021



Country Where Event Occurred

CYPRUS

System Organ Class

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Death and sudden death	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

GERMANY

System Organ Class

Blood and lymphatic system disorders				aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Leukopenias NEC	1	1	1	1
	1	1	1	1

System Organ Class

Cardiac disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Cardiac signs and symptoms NEC	1	1	1	1		
Rate and rhythm disorders NEC	1	1			1	1
	2	2	1	1	1	1

System Organ Class

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Gastrointestinal disorders				aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Nausea and vomiting symptoms	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С
Asthenic conditions	5	5	3	3	2	2
Febrile disorders	1	1	1	1		
Pain and discomfort NEC	1	1			1	1
Vaccination site reactions	5	5	5	5		
	12	12	9	9	3	3

System Organ Class

Immune system disorders				taneous	
	Interval Total # Cumulative Total #		Serious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Anaphylactic and anaphylactoid responses	1	1	1	1	
	1	1	1	1	

Injury, poisoning and procedural complications				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Sei	rious
High Level Term	Spontaneous AE Spontaneous AE		ı	С	I	С
Medication errors, product use errors and issues NEC	2	2	2	2		
Product administration errors and issues	9	9	8	8	1	1
Product storage errors and issues in the product use system	1	1	1	1		
	12	12	11	11	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Investigations	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Heart rate and pulse investigations	1	1	1	1
	1	1	1	1

System Organ Class

Musculoskeletal and connective tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Muscle weakness conditions	1	1	1	1
Musculoskeletal and connective tissue pain and discomfort	2	2	2	2
	3	3	3	3

System Organ Class

Nervous system disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	ntaneous AE Spontaneous AE	1	С	1	С
Dyskinesias and movement disorders NEC	1	1	1	1		
Facial cranial nerve disorders	2	2			2	2
Headaches NEC	6	6	5	5	1	1
Neurological signs and symptoms NEC	2	2	2	2		
Paralysis and paresis (excl cranial nerve)	1	1	1	1		
Seizures and seizure disorders NEC	3	3			3	3
	15	15	9	9	6	6

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Product issues				taneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Product quality issues NEC	1	1	1	1
	1	1	1	1

System Organ Class

Psychiatric disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Anxiety symptoms	1	1	1	1
	1	1	1	1

System Organ Class

Respiratory, thoracic and mediastinal disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE Spontaneous AE	1	С	I	С	
Breathing abnormalities	2	2	1	1	1	1
Coughing and associated symptoms	1	1			1	1
	3	3	1	1	2	2

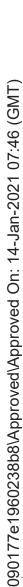
System Organ Class

Skin and subcutaneous tissue disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Apocrine and eccrine gland disorders	1	1	1	1	
	1	1	1	1	

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Vascular disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Peripheral vascular disorders NEC	1	1	1	1
Vascular hypertensive disorders NEC	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



GREECE

System Organ Class

Cardiac disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Rate and rhythm disorders NEC	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders				Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Gastrointestinal spastic and hypermotility disorders	2	2	2	2	
	2	2	2	2	

System Organ Class

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General disorders and administration site conditions				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Mucosal findings abnormal	1	1			1	1
Vaccination site reactions	1	1	1	1		
	2	2	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Immune system disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Sei	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С		
Anaphylactic and anaphylactoid responses	1	1	1	1		
	1	1	1	1		

System Organ Class

Vascular disorders			Spon	taneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Peripheral vascular disorders NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



HUNGARY

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Oral dryness and saliva altered	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions				aneous
	Interval Total #	Cumulative Total #	Sei	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Feelings and sensations NEC	2	2	2	2
General signs and symptoms NEC	1	1	1	1
	3	3	3	3

System Organ Class

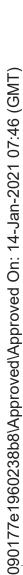
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Investigations			Spontaneous	
	Interval Total #	Cumulative Total #	Serious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Vascular tests NEC (incl blood pressure)	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Paraesthesias and dysaesthesias	1	1	1	1
Tremor (excl congenital)	1	1	1	1
	2	2	2	2

Skin and subcutaneous tissue disorders				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious		
High Level Term	Spontaneous AE	Spontaneous AE	I	С		
Urticarias	1	1	1	1		
	1	1	1	1		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





INDIA

System Organ Class

Injury, poisoning and procedural complications				Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С		
Off label uses	1	1	1	1		
Product administration errors and issues	1	1	1	1		
	2	2	2	2		

Product issues				taneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Counterfeit, falsified and substandard products	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



ISRAEL

System Organ Class

Blood and lymphatic system disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Lymphatic system disorders NEC	1	1	1	1
	1	1	1	1

System Organ Class

Cardiac disorders						
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	I	С
Heart failures NEC	1	1			1	1
Noninfectious pericarditis	1	1	1	1		
Ventricular arrhythmias and cardiac arrest	1	1			1	1
	3	3	1	1	2	2

System Organ Class

Gastrointestinal disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Gastrointestinal and abdominal pains (excl oral and throat)	2	2	2	2
Nausea and vomiting symptoms	4	4	4	4
Oral soft tissue signs and symptoms	6	6	6	6
Tongue signs and symptoms	1	1	1	1
	13	13	13	13

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions				Spontaneous					
	Interval Total #	Cumulative Total #	Nonserious Serious						
High Level Term	Spontaneous AE Spontaneous AE		1	С	1	С			
Asthenic conditions	15	15	15	15					
Death and sudden death	2	2			2	2			
Febrile disorders	2	2	2	2					
Feelings and sensations NEC	8	8	7	7	1	1			
General signs and symptoms NEC	1	1	1	1					
Injection site reactions	1	1	1	1					
Pain and discomfort NEC	2	2	2	2					
Therapeutic and nontherapeutic responses	1	1			1	1			
Vaccination site reactions	19	19	19	19					
	51	51	47	47	4	4			

Infections and infestations				Spontaneous					
	Interval Total #	Cumulative Total #	Nonserious Serious						
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С			
Coronavirus infections	1	1			1	1			
Eye and eyelid infections	1	1	1	1					
Influenza viral infections	1	1	1	1					
	3	3	2	2	1	1			

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Injury, poisoning and procedural complications				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Exposures associated with pregnancy, delivery and lactation	3	3	3	3				
Medication errors, product use errors and issues NEC	2	2	2	2				
Overdoses NEC	2	2	2	2				
Product administration errors and issues	25	25	24	24	1	1		
Product preparation errors and issues	2	2	2	2				
Underdoses NEC	1	1	1	1				
	35	35	34	34	1	1		

Investigations	Spont	Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Heart rate and pulse investigations	1	1	1	1
Vascular tests NEC (incl blood pressure)	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Sei	rious		
High Level Term	Spontaneous AE	Spontaneous AE	I	С	1	С		
Bone related signs and symptoms	1	1	1	1				
Joint related signs and symptoms	1	1	1	1				
Muscle pains	2	2	2	2				
Musculoskeletal and connective tissue conditions NEC	1	1			1	1		
Musculoskeletal and connective tissue pain and discomfort	4	4	4	4				
	9	9	8	8	1	1		

System Organ Class

Nervous system disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious Ser			rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Coordination and balance disturbances	1	1	1	1				
Disturbances in consciousness NEC	2	2	1	1	1	1		
Facial cranial nerve disorders	1	1			1	1		
Headaches NEC	2	2	2	2				
Neurological signs and symptoms NEC	6	6	6	6				
Olfactory nerve disorders	1	1	1	1				
Paraesthesias and dysaesthesias	8	8	8	8				
Paralysis and paresis (excl cranial nerve)	1	1			1	1		
Sensory abnormalities NEC	2	2	2	2				
Sleep disturbances NEC	1	1	1	1				
Tremor (excl congenital)	1	1	1	1				
	26	26	23	23	3	3		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Product issues				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Product packaging issues	11	11	11	11				
Product physical issues	8	8	8	8				
Product quality issues NEC	8	8	7	7	1	1		
	27	27	26	26	1	1		

System Organ Class

Psychiatric disorders	Spont	aneous		
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Disturbances in initiating and maintaining sleep	2	2	2	2
Sleep disorders NEC	1	1	1	1
	3	3	3	3

System Organ Class

Respiratory, thoracic and mediastinal disorders			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Breathing abnormalities	2	2	2	2	
Pharyngeal disorders (excl infections and neoplasms)	2	2	2	2	
Upper respiratory tract signs and symptoms	2	2	2	2	
	6	6	6	6	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Skin and subcutaneous tissue disorders				aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Erythemas	1	1	1	1
Rashes, eruptions and exanthems NEC	2	2	2	2
Urticarias	1	1	1	1
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



ITALY

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Gastrointestinal and abdominal pains (excl oral and throat)	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	
Asthenic conditions	1	1	1	1	
Febrile disorders	1	1	1	1	
General signs and symptoms NEC	1	1	1	1	
Injection site reactions	1	1	1	1	
	4	4	4	4	

System Organ Class

Injury, poisoning and procedural complications			Spontaneous	
	Interval Total #	Cumulative Total #	Nonserious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Medication errors, product use errors and issues NEC	2	2	2	2
Product confusion errors and issues	2	2	2	2
	4	4	4	4

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



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System Organ Class

Nervous system disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Headaches NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



MALTA

System Organ Class

Cardiac disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nonserious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Cardiac signs and symptoms NEC	1	1	1	1
	1	1	1	1

System Organ Class

Investigations				Spontaneous	
	Interval Total #	Cumulative Total #	l# Serious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Heart rate and pulse investigations	1	1	1	1	
Vascular tests NEC (incl blood pressure)	1 1		1	1	
	2	2	2	2	

System Organ Class

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Nervous system disorders				taneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Disturbances in consciousness NEC	1	1	1	1
Neurological signs and symptoms NEC	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



As of Date: 01-JAN-2021



System Organ Class

Vascular disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nonserious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Peripheral vascular disorders NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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MEXICO

System Organ Class

Eye disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Ocular disorders NEC	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Asthenic conditions	1	1	1	1
Vaccination site reactions	1	1	1	1
	2	2	2	2

Immune system disorders			Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious	
High Level Term	Spontaneous AE Spontaneous	Spontaneous AE	I	С	I	С	
Allergic conditions NEC	1	1	1	1			
Anaphylactic and anaphylactoid responses	1	1			1	1	
	2	2	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Muscle related signs and symptoms NEC	1	1			1	1
Musculoskeletal and connective tissue pain and discomfort	1	1	1	1		
	2	2	1	1	1	1

System Organ Class

Nervous system disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE Spontaneous AE	- 1	С	I	С
Acute polyneuropathies	1	1			1	1
Headaches NEC	1	1	1	1		
Myelitis (incl infective)	1	1			1	1
Paraesthesias and dysaesthesias	1	1			1	1
Paralysis and paresis (excl cranial nerve)	1	1			1	1
Seizures and seizure disorders NEC	1	1			1	1
	6	6	1	1	5	5

System Organ Class

Respiratory, thoracic and mediastinal disorders				Spont	taneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Breathing abnormalities	2	2	1	1	1	1
Laryngeal spasm, oedema and obstruction	1	1	1	1		
Nasal congestion and inflammations	1	1	1	1		
Upper respiratory tract signs and symptoms	2	2	2	2		
	6	6	5	5	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Skin and subcutaneous tissue disorders			Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Angioedemas	1	1			1	1
Pruritus NEC	1	1	1	1		
Rashes, eruptions and exanthems NEC	1	1			1	1
	3	3	1	1	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



OMAN

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Diarrhoea (excl infective)	1	1	1	1
Gastritis (excl infective)	1	1	1	1
	2	2	2	2

System Organ Class

General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Asthenic conditions	1	1	1	1
Febrile disorders	1	1	1	1
Pain and discomfort NEC	1	1	1	1
	3	3	3	3

System Organ Class

Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Headaches NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





POLAND

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Dental pain and sensation disorders	1	1	1	1
	1	1	1	1

System Organ Class

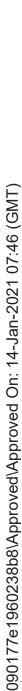
General disorders and administration site conditions	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Asthenic conditions	1	1	1	1
Febrile disorders	1	1	1	1
Vaccination site reactions	1	1	1	1
	3	3	3	3

Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Product confusion errors and issues	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Musculoskeletal and connective tissue disorders	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Joint related signs and symptoms	1	1	1	1
Musculoskeletal and connective tissue pain and discomfort	1	1	1	1
	2	2	2	2

Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Headaches NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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PORTUGAL

System Organ Class

Cardiac disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Supraventricular arrhythmias	1	1	1	1
	1	1	1	1

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Oral soft tissue signs and symptoms	1	1	1	1
	1	1	1	1

System Organ Class

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General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Asthenic conditions	1	1	1	1
	1	1	1	1

Immune system disorders			Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Allergic conditions NEC	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Exposures associated with pregnancy, delivery and lactation	1	1	1	1
	1	1	1	1

System Organ Class

Nervous system disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Headaches NEC	1	1	1	1
Neurological signs and symptoms NEC	1	1	1	1
	2	2	2	2

System Organ Class

Skin and subcutaneous tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Erythemas	1	1	1	1
Pruritus NEC	1	1	1	1
	2	2	2	2

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AE=Adverse Event

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PUERTO RICO

System Organ Class

Blood and lymphatic system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE Spontaneous AE	I	С	
Lymphatic system disorders NEC	2	2	2	2
	2	2	2	2

System Organ Class

Cardiac disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Cardiac signs and symptoms NEC	1	1	1	1
Rate and rhythm disorders NEC	1	1	1	1
	2	2	2	2

System Organ Class

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Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Diarrhoea (excl infective)	1	1	1	1
Gastrointestinal and abdominal pains (excl oral and throat)	1	1	1	1
Nausea and vomiting symptoms	3	3	3	3
	5	5	5	5

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





General disorders and administration site conditions			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Asthenic conditions	3	3	3	3
Febrile disorders	2	2	2	2
Gait disturbances	1	1	1	1
General signs and symptoms NEC	1	1	1	1
Pain and discomfort NEC	2	2	2	2
Vaccination site reactions	5	5	5	5
	14	14	14	14

System Organ Class

Metabolism and nutrition disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Appetite disorders	1	1	1	1
	1	1	1	1

Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Joint related signs and symptoms	3	3	3	3
Musculoskeletal and connective tissue conditions NEC	1	1	1	1
Musculoskeletal and connective tissue pain and discomfort	5	5	5	5
	9	9	9	9

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AE=Adverse Event

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Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Headaches NEC	4	4	4	4
Paraesthesias and dysaesthesias	4	4	4	4
Sensory abnormalities NEC	2	2	2	2
Speech and language abnormalities	1	1	1	1
	11	11	11	11

System Organ Class

Respiratory, thoracic and mediastinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Upper respiratory tract signs and symptoms	1	1	1	1
	1	1	1	1

System Organ Class

Vascular disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С
Vascular hypertensive disorders NEC	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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QATAR

System Organ Class

Gastrointestinal disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Nausea and vomiting symptoms	1	1	1	1
	1	1	1	1

System Organ Class

Musculoskeletal and connective tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Muscle pains	1	1	1	1
	1	1	1	1

System Organ Class

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Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Neurological signs and symptoms NEC	1	1	1	1
	1	1	1	1

Skin and subcutaneous tissue disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Erythemas	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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ROMANIA

System Organ Class

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Feelings and sensations NEC	1	1	1	1
General signs and symptoms NEC	1	1	1	1
Vaccination site reactions	2	2	2	2
	4	4	4	4

System Organ Class

Injury, poisoning and procedural complications			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Medication errors, product use errors and issues NEC	1	1	1	1
Product preparation errors and issues	5	5	5	5
	6	6	6	6

System Organ Class

Investigations			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Vascular tests NEC (incl blood pressure)	1	1	1	1
	1	1	1	1

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AE=Adverse Event

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Musculoskeletal and connective tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Muscle pains	1	1	1	1
Musculoskeletal and connective tissue pain and discomfort	6	6	6	6
	7	7	7	7

System Organ Class

Nervous system disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Headaches NEC	1	1	1	1
	1	1	1	1

System Organ Class

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Product issues			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Product quality issues NEC	1	1	1	1
	1	1	1	1

Psychiatric disorders			Spont	Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Panic attacks and disorders	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



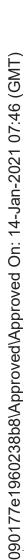


Skin and subcutaneous tissue disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Erythemas	1	1	1	1
Urticarias	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





SLOVAKIA

Surgical and medical procedures			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Immunisations	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





SLOVENIA

Product issues				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С	
Counterfeit, falsified and substandard products	1	1	1	1	
	1	1	1	1	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



SPAIN

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Diarrhoea (excl infective)	1	1	1	1
Nausea and vomiting symptoms	1	1	1	1
	2	2	2	2

System Organ Class

Immune system disorders				taneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Anaphylactic and anaphylactoid responses	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





SWEDEN

Cardiac disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Ventricular arrhythmias and cardiac arrest	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



SWITZERLAND

System Organ Class

Gastrointestinal disorders			Spontaneous	
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	- 1	С
Gastrointestinal and abdominal pains (excl oral and throat)	1	1	1	1
	1	1	1	1

System Organ Class

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Death and sudden death	1	1	1	1
General signs and symptoms NEC	1	1	1	1
	2	2	2	2

System Organ Class

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Investigations				Spontaneous	
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Heart rate and pulse investigations	1	1	1	1	
Vascular tests NEC (incl blood pressure)	1	1	1	1	
	2	2	2	2	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Psychiatric disorders				Spontaneous	
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nonserious		
High Level Term			1	С	
Increased physical activity levels	1	1	1	1	
	1	1	1	1	

System Organ Class

Renal and urinary disorders			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Bladder and urethral symptoms	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

UNITED ARAB EMIRATES

System Organ Class

Injury, poisoning and procedural complications	Spontaneous			
	Interval Total #	Cumulative Total #	Nons	erious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
Medication errors, product use errors and issues NEC	1	1	1	1
Off label uses	1	1	1	1
	2	2	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Country Where Event Occurred

UNITED KINGDOM

System Organ Class

Blood and lymphatic system disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Lymphatic system disorders NEC	58	58	36	36	22	22		
	58	58	36	36	22	22		

System Organ Class

Cardiac disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Cardiac signs and symptoms NEC	17	17	10	10	7	7		
Ischaemic coronary artery disorders	2	2			2	2		
Rate and rhythm disorders NEC	26	26	16	16	10	10		
Supraventricular arrhythmias	7	7	2	2	5	5		
Ventricular arrhythmias and cardiac arrest	4	4			4	4		
	56	56	28	28	28	28		

System Organ Class

Ear and labyrinth disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious Serious					
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Ear disorders NEC	5	5	1	1	4	4		
Hearing losses	1	1			1	1		
Hyperacusia	1	1	1	1				
Inner ear signs and symptoms	15	15	8	8	7	7		
	22	22	10	10	12	12		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Eye disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Choroid and vitreous structural change, deposit and degeneration	1	1	1	1				
Conjunctival and corneal bleeding and vascular disorders	1	1			1	1		
Lacrimation disorders	1	1	1	1				
Lid, lash and lacrimal infections, irritations and inflammations	3	3	2	2	1	1		
Ocular disorders NEC	13	13	9	9	4	4		
Ocular infections, inflammations and associated manifestations	4	4	3	3	1	1		
Ocular sensation disorders	8	8	3	3	5	5		
Retinal structural change, deposit and degeneration	1	1			1	1		
Visual disorders NEC	12	12	8	8	4	4		
Visual impairment and blindness (excl colour blindness)	1	1			1	1		
	45	45	27	27	18	18		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Gastrointestinal disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Diarrhoea (excl infective)	49	49	28	28	21	21		
Faecal abnormalities NEC	3	3	3	3				
Flatulence, bloating and distension	2	2	1	1	1	1		
Gastritis (excl infective)	1	1	1	1				
Gastrointestinal and abdominal pains (excl oral and throat)	25	25	17	17	8	8		
Gastrointestinal inflammatory disorders NEC	1	1	1	1				
Gastrointestinal signs and symptoms NEC	5	5	4	4	1	1		
Gastrointestinal spastic and hypermotility disorders	3	3	2	2	1	1		
Gingival disorders, signs and symptoms NEC	1	1	1	1				
Intestinal haemorrhages	1	1			1	1		
Nausea and vomiting symptoms	180	180	126	126	54	54		
Non-site specific gastrointestinal haemorrhages	1	1			1	1		
Oral dryness and saliva altered	14	14	10	10	4	4		
Oral soft tissue disorders NEC	3	3	2	2	1	1		
Oral soft tissue signs and symptoms	45	45	33	33	12	12		
Oral soft tissue swelling and oedema	16	16	11	11	5	5		
Stomatitis and ulceration	5	5	5	5				
Tongue signs and symptoms	11	11	6	6	5	5		
	366	366	251	251	115	115		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



General disorders and administration site conditions			Spontaneous				
	Interval Total #	Cumulative Total # Spontaneous AE	Nons	erious	Serious		
High Level Term	Spontaneous AE		1	С	I	С	
Asthenic conditions	234	234	147	147	87	87	
Complications associated with device NEC	1	1	1	1			
Febrile disorders	132	132	80	80	52	52	
Feelings and sensations NEC	148	148	104	104	44	44	
Gait disturbances	2	2	1	1	1	1	
General signs and symptoms NEC	54	54	34	34	20	20	
Injection site reactions	14	14	13	13	1	1	
Interactions	1	1			1	1	
Mass conditions NEC	1	1	1	1			
Pain and discomfort NEC	93	93	57	57	36	36	
Therapeutic and nontherapeutic responses	14	14	3	3	11	11	
Vaccination site reactions	211	211	148	148	63	63	
	905	905	589	589	316	316	

System Organ Class

Immune system disorders				Spontaneous			
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nons	serious	Se	Serious	
High Level Term			1	С	I	С	
Allergic conditions NEC	17	17	9	9	8	8	
Allergies to foods, food additives, drugs and other chemicals	6	6	5	5	1	1	
Anaphylactic and anaphylactoid responses	9	9			9	9	
Immune and associated conditions NEC	1	1	1	1			
	33	33	15	15	18	18	

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AE=Adverse Event

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Infections and infestations				Spontaneous			
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nonserious S			erious	
High Level Term			- 1	С	I	С	
Abdominal and gastrointestinal infections	1	1	1	1			
Bacterial infections NEC	4	4	1	1	3	3	
Coronavirus infections	13	13	3	3	10	10	
Ear infections	1	1			1	1	
Herpes viral infections	5	5	2	2	3	3	
Infections NEC	1	1	1	1			
Influenza viral infections	4	4	4	4			
Lower respiratory tract and lung infections	3	3			3	3	
Skin structures and soft tissue infections	1	1	1	1			
Upper respiratory tract infections	8	8	6	6	2	2	
Viral infections NEC	2	2			2	2	
	43	43	19	19	24	24	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Injury, poisoning and procedural complications	Spontaneous					
	Interval Total #	Cumulative Total #	Nons	serious	Serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Exposures associated with pregnancy, delivery and lactation	1	1	1	1		
Medication errors, product use errors and issues NEC	14	14	14	14		
Non-site specific procedural complications	1	1			1	1
Occupational exposures	1	1	1	1		
Off label uses	13	13	13	13		
Overdoses NEC	2	2	2	2		
Product administration errors and issues	16	16	16	16		
Product confusion errors and issues	1	1	1	1		
Product preparation errors and issues	3	3	3	3		
Skin injuries NEC	2	2	1	1	1	1
Stoma complications	3	3	2	2	1	1
Underdoses NEC	4	4	4	4		
	61	61	58	58	3	3

System Organ Class

Investigations	Spontaneous					
	Interval Total #	Cumulative Total #	Nons	erious	Serious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	ı	С
Blood gas and acid base analyses	4	4			4	4
Heart rate and pulse investigations	9	9	5	5	4	4
Investigations NEC	1	1			1	1
Physical examination procedures and organ system status	11	11	8	8	3	3
Vascular tests NEC (incl blood pressure)	14	14	8	8	6	6
Virus identification and serology	6	6	3	3	3	3
	45	45	24	24	21	21

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Metabolism and nutrition disorders				Spontaneous				
	Interval Total # Spontaneous AE	Cumulative Total # Spontaneous AE	Nons	serious	Se	rious		
High Level Term			1	С	1	С		
Appetite disorders	10	10	3	3	7	7		
Diabetes mellitus (incl subtypes)	1	1			1	1		
Diabetic complications NEC	1	1			1	1		
Hyperglycaemic conditions NEC	2	2	1	1	1	1		
Hypoglycaemic conditions NEC	2	2	1	1	1	1		
Total fluid volume decreased	1	1	1	1				
Total fluid volume increased	1	1	1	1				
	18	18	7	7	11	11		

System Organ Class

Musculoskeletal and connective tissue disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Serious	
High Level Term	Spontaneous AE	Spontaneous AE	I	С	I	С
Bone related signs and symptoms	3	3	2	2	1	1
Connective tissue disorders NEC	1	1			1	1
Joint related signs and symptoms	66	66	42	42	24	24
Muscle pains	113	113	77	77	36	36
Muscle related signs and symptoms NEC	11	11	5	5	6	6
Muscle weakness conditions	9	9	7	7	2	2
Musculoskeletal and connective tissue conditions NEC	11	11	5	5	6	6
Musculoskeletal and connective tissue pain and discomfort	150	150	109	109	41	41
Soft tissue disorders NEC	1	1	1	1		
Spondyloarthropathies	1	1			1	1
	366	366	248	248	118	118

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Nervous system disorders			Spontaneous					
	Interval Total # Cumulative Total	Cumulative Total #	Nons	Nonserious Serio		rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Central nervous system haemorrhages and cerebrovascular accidents	6	6			6	6		
Coordination and balance disturbances	3	3	1	1	2	2		
Disturbances in consciousness NEC	37	37	17	17	20	20		
Facial cranial nerve disorders	5	5	4	4	1	1		
Generalised tonic-clonic seizures	2	2			2	2		
Headaches NEC	212	212	138	138	74	74		
Memory loss (excl dementia)	1	1	1	1				
Mental impairment (excl dementia and memory loss)	3	3	2	2	1	1		
Migraine headaches	9	9	7	7	2	2		
Narcolepsy and hypersomnia	2	2	1	1	1	1		
Neurological signs and symptoms NEC	103	103	64	64	39	39		
Olfactory nerve disorders	3	3	3	3				
Paraesthesias and dysaesthesias	57	57	43	43	14	14		
Paralysis and paresis (excl cranial nerve)	1	1			1	1		
Seizures and seizure disorders NEC	1	1			1	1		
Sensory abnormalities NEC	32	32	25	25	7	7		
Sleep disturbances NEC	1	1	1	1				
Speech and language abnormalities	1	1	1	1				
Transient cerebrovascular events	1	1			1	1		
Tremor (excl congenital)	16	16	7	7	9	9		
	496	496	315	315	181	181		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

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Product issues			Spontaneous		
	Interval Total #	Cumulative Total #	Nons	serious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	
Product packaging issues	3	3	3	3	
Product physical issues	2	2	2	2	
Product quality issues NEC	1	1	1	1	
	6	6	6	6	

Psychiatric disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Anxiety symptoms	13	13	7	7	6	6
Confusion and disorientation	8	8	4	4	4	4
Depressive disorders	1	1			1	1
Dissociative states	1	1	1	1		
Disturbances in initiating and maintaining sleep	7	7	5	5	2	2
Hallucinations (excl sleep-related)	1	1	1	1		
Increased physical activity levels	3	3	1	1	2	2
Mental disorders NEC	1	1	1	1		
Mood alterations with depressive symptoms	1	1	1	1		
Parasomnias	5	5	5	5		
Sleep disorders NEC	3	3	3	3		
Somatic symptom disorders	1	1			1	1
	45	45	29	29	16	16

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Renal and urinary disorders	Spont	aneous		
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Myoneurogenic bladder disorders	1	1	1	1
Urinary abnormalities	1	1	1	1
	2	2	2	2

Reproductive system and breast disorders			Spontaneous					
Interval Total # Cumulative Total #				Nonserious Serious				
High Level Term	Spontaneous AE	Spontaneous AE	1	С	ı	С		
Breast signs and symptoms	3	3	3	3				
Menstruation and uterine bleeding NEC	2	2	2	2				
Menstruation with increased bleeding	2	2	2	2				
Scrotal disorders NEC	4	4			4	4		
	11	11	7	7	4	4		

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AE=Adverse Event

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Respiratory, thoracic and mediastinal disorders				Spontaneous				
	Interval Total #	Cumulative Total #	Nons	Nonserious		rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Breathing abnormalities	37	37	18	18	19	19		
Bronchospasm and obstruction	11	11	8	8	3	3		
Coughing and associated symptoms	16	16	11	11	5	5		
Lower respiratory tract signs and symptoms	2	2	1	1	1	1		
Nasal congestion and inflammations	2	2	2	2				
Nasal disorders NEC	5	5	2	2	3	3		
Pharyngeal disorders (excl infections and neoplasms)	6	6	3	3	3	3		
Respiratory signs and symptoms NEC	2	2	1	1	1	1		
Upper respiratory tract signs and symptoms	48	48	29	29	19	19		
	129	129	75	75	54	54		

System Organ Class

Skin and subcutaneous tissue disorders						
	Interval Total # Cumulative Total #	Cumulative Total #	Nonserious		Serious	
ligh Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Angioedemas	3	3	2	2	1	1
Apocrine and eccrine gland disorders	33	33	18	18	15	15
Dermal and epidermal conditions NEC	11	11	5	5	6	6
Dermatitis and eczema	7	7	5	5	2	2
Erythemas	26	26	21	21	5	5
Photosensitivity and photodermatosis conditions	1	1			1	1
Pilar disorders NEC	1	1			1	1
Pruritus NEC	41	41	26	26	15	15
Purpura and related conditions	1	1	1	1		
Rashes, eruptions and exanthems NEC	69	69	45	45	24	24
Skin and subcutaneous conditions NEC	1	1	1	1		
Skin vasomotor conditions	1	1	1	1		
Urticarias	18	18	15	15	3	3
	213	213	140	140	73	73

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AE=Adverse Event

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Social circumstances			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Disability issues	1	1	1	1
	1	1	1	1

System Organ Class

SOC Not Yet Coded			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	I	С
	1	1	1	1
	1	1	1	1

System Organ Class

Vascular disorders				Spont	aneous	
	Interval Total # Spontaneous AE	Cumulative Total #	Nonserious		Serious	
High Level Term		Spontaneous AE	1	С	ı	С
Circulatory collapse and shock	2	2			2	2
Peripheral vascular disorders NEC	29	29	18	18	11	11
Peripheral vasoconstriction, necrosis and vascular insufficiency	5	5	2	2	3	3
Site specific vascular disorders NEC	11	11	4	4	7	7
Vascular hypertensive disorders NEC	10	10	5	5	5	5
Vascular hypotensive disorders	5	5	2	2	3	3
	62	62	31	31	31	31

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AE=Adverse Event

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Country Where Event Occurred

UNITED STATES

System Organ Class

Blood and lymphatic system disorders				Spontaneous					
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious			
High Level Term	Spontaneous AE	Spontaneous AE Spontaneous AE		С	I	С			
Lymphatic system disorders NEC	82	82	76	76	6	6			
Thrombocytopenias	1	1			1	1			
	83	83	76	76	7	7			

System Organ Class

Cardiac disorders				Spont	taneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Cardiac disorders NEC	2	2	2	2				
Cardiac signs and symptoms NEC	52	52	42	42	10	10		
Ischaemic coronary artery disorders	2	2	1	1	1	1		
Noninfectious pericarditis	1	1	1	1				
Rate and rhythm disorders NEC	54	54	43	43	11	11		
Supraventricular arrhythmias	2	2			2	2		
Ventricular arrhythmias and cardiac arrest	6	6	4	4	2	2		
	119	119	93	93	26	26		

System Organ Class

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Congenital, familial and genetic disorders				Spont	aneous			
	Interval Total # Cumulative Total # Spontaneous AE Spontaneous AE	Nons	erious	Serious				
High Level Term		- 1	С	I	С			
Congenital disorders NEC	1	1			1	1		
Non-site specific muscle disorders congenital	1	1	1	1				
	2	2	1	1	1	1		

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Ear and labyrinth disorders	Ear and labyrinth disorders				aneous				
	Interval Total # Cumulative Total #	Nonserious			Serious				
High Level Term Spontar	Spontaneous AE	Spontaneous AE	I	С	1	С			
Ear disorders NEC	25	25	23	23	2	2			
Hearing losses	10	10	6	6	4	4			
Hyperacusia	1	1			1	1			
Inner ear signs and symptoms	34	34	28	28	6	6			
	70	70	57	57	13	13			

Eye disorders				Spont	aneous			
High Level Term	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
	Spontaneous AE	Spontaneous AE	I	С	I	С		
Eyelid movement disorders	1	1	1	1				
Lacrimation disorders	2	2	2	2				
Lid, lash and lacrimal infections, irritations and inflammations	8	8	8	8				
Ocular bleeding and vascular disorders NEC	2	2			2	2		
Ocular disorders NEC	43	43	41	41	2	2		
Ocular infections, inflammations and associated manifestations	18	18	17	17	1	1		
Ocular sensation disorders	9	9	9	9				
Visual disorders NEC	14	14	12	12	2	2		
Visual impairment and blindness (excl colour blindness)	9	9	7	7	2	2		
	106	106	97	97	9	9		

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AE=Adverse Event

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Gastrointestinal disorders	strointestinal disorders				neous			
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE Spon	Spontaneous AE	1	С	- 1	С		
Acute and chronic pancreatitis	1	1			1	1		
Dental pain and sensation disorders	7	7	7	7				
Diarrhoea (excl infective)	82	82	79	79	3	3		
Duodenal and small intestinal stenosis and obstruction	1	1			1	1		
Dyspeptic signs and symptoms	5	5	5	5				
Faecal abnormalities NEC	1	1	1	1				
Flatulence, bloating and distension	5	5	5	5				
Gastrointestinal and abdominal pains (excl oral and throat)	35	35	30	30	5	5		
Gastrointestinal atonic and hypomotility disorders NEC	1	1	1	1				
Gastrointestinal disorders NEC	7	7	7	7				
Gastrointestinal signs and symptoms NEC	22	22	20	20	2	2		
Gastrointestinal spastic and hypermotility disorders	1	1	1	1				
Gingival disorders, signs and symptoms NEC	4	4			4	4		
Gingival haemorrhages	2	2	2	2				
Nausea and vomiting symptoms	337	337	319	319	18	18		
Non-site specific gastrointestinal haemorrhages	1	1			1	1		
Oral dryness and saliva altered	19	19	18	18	1	1		
Oral soft tissue disorders NEC	6	6	5	5	1	1		
Oral soft tissue signs and symptoms	90	90	80	80	10	10		
Oral soft tissue swelling and oedema	24	24	14	14	10	10		
Stomatitis and ulceration	2	2	2	2				
Tongue disorders	4	4	4	4				
Tongue signs and symptoms	30	30	22	22	8	8		
	687	687	622	622	65	65		

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AE=Adverse Event

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eneral disorders and administration site onditions				Spont	taneous			
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	I	С	1	С		
Administration site reactions NEC	5	5	5	5				
Adverse effect absent	1	1	1	1				
Asthenic conditions	600	600	589	589	11	11		
Death and sudden death	1	1			1	1		
Febrile disorders	360	360	343	343	17	17		
Feelings and sensations NEC	514	514	484	484	30	30		
Gait disturbances	9	9	8	8	1	1		
General signs and symptoms NEC	181	181	166	166	15	15		
Inflammations	7	7	6	6	1	1		
Injection site reactions	126	126	125	125	1	1		
Interactions	1	1	1	1				
Mass conditions NEC	3	3	3	3				
Mucosal findings abnormal	1	1	1	1				
Oedema NEC	5	5	4	4	1	1		
Pain and discomfort NEC	394	394	372	372	22	22		
Therapeutic and nontherapeutic responses	118	118	40	40	78	78		
Vaccination site reactions	407	407	406	406	1	1		
	2,733	2,733	2554	2554	179	179		

System Organ Class

Hepatobiliary disorders	Spon	taneous					
	Interval Total #	Interval Total # Cumulative Total #					
High Level Term	Spontaneous AE	Spontaneous AE	1	С			
Gal bladder disorders NEC	1	1	1	1			
Hepatobiliary signs and symptoms	1	1	1	1			
	2	2	2	2			

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AE=Adverse Event

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Immune system disorders				Spon	ntaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Allergic conditions NEC	24	24	16	16	8	8		
Allergies to foods, food additives, drugs and other chemicals	24	24	20	20	4	4		
Anaphylactic and anaphylactoid responses	28	28	5	5	23	23		
Autoimmune disorders NEC	2	2			2	2		
Immune and associated conditions NEC	2	2			2	2		
Immunodeficiency disorders NEC	1	1			1	1		
	81	81	41	41	40	40		

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AE=Adverse Event

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Infections and infestations				Sponta	aneous			
	Interval Total #	Cumulative Total #	Nonserious		Serious			
High Level Term	Spontaneous AE	Spontaneous AE	I	С	1	С		
Abdominal and gastrointestinal infections	2	2	1	1	1	1		
Bacterial infections NEC	2	2	1	1	1	1		
Bordetella infections	1	1			1	1		
Breast infections	1	1			1	1		
Candida infections	1	1	1	1				
Central nervous system and spinal infections	1	1			1	1		
Coronavirus infections	75	75	23	23	52	52		
Ear infections	1	1	1	1				
Eye and eyelid infections	4	4	4	4				
Female reproductive tract infections	1	1	1	1				
Herpes viral infections	18	18	17	17	1	1		
Infections NEC	1	1	1	1				
Influenza viral infections	7	7	6	6	1	1		
Lower respiratory tract and lung infections	2	2			2	2		
Skin structures and soft tissue infections	2	2	2	2				
Streptococcal infections	1	1			1	1		
Tuberculous infections	1	1	1	1				
Upper respiratory tract infections	27	27	27	27				
Urinary tract infections	2	2	2	2				
Viral infections NEC	2	2	1	1	1	1		
	152	152	89	89	63	63		

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AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Injury, poisoning and procedural complications	mplications			Spont	neous			
	Interval Total #	Cumulative Total #	Nons	serious S		Serious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Accidental exposures to product	4	4	4	4				
Exposures associated with pregnancy, delivery and lactation	60	60	60	60				
Exposures to agents or circumstances NEC	11	11	11	11				
Fractures and dislocations NEC	2	2			2	2		
Medication errors, product use errors and issues NEC	128	128	127	127	1	1		
Muscle, tendon and ligament injuries	2	2	2	2				
Nerve injuries NEC	1	1	1	1				
Non-site specific injuries NEC	6	6	4	4	2	2		
Occupational exposures	1	1	1	1				
Off label uses	62	62	62	62				
Overdoses NEC	11	11	11	11				
Pathways and sources of exposure	3	3	3	3				
Product administration errors and issues	172	172	170	170	2	2		
Product preparation errors and issues	31	31	29	29	2	2		
Product prescribing errors and issues	2	2	2	2				
Product storage errors and issues in the product use system	1	1	1	1				
Site specific injuries NEC	4	4	3	3	1	1		
Skin injuries NEC	3	3	3	3				
Thermal burns	1	1	1	1				
Underdoses NEC	22	22	22	22				
Vaccination related complications	1	1			1	1		
	528	528	517	517	11	11		

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AE=Adverse Event

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Investigations	vestigations				aneous			
	Interval Total #	Cumulative Total #	Nons	serious	Serious			
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С		
Adrenal medulla tests	1	1	1	1				
Bacteria identification and serology (excl mycobacteria)	1	1	1	1				
Blood gas and acid base analyses	1	1	1	1				
Carbohydrate tolerance analyses (incl diabetes)	3	3	3	3				
Cardiac function diagnostic procedures	1	1	1	1				
Coagulation and bleeding analyses	1	1	1	1				
ECG investigations	1	1			1	1		
Heart rate and pulse investigations	104	104	89	89	15	15		
Lipoprotein and lipid tests NEC	1	1	1	1				
Physical examination procedures and organ system status	29	29	27	27	2	2		
Platelet analyses	1	1	1	1				
Skeletal and cardiac muscle analyses	1	1			1	1		
Therapeutic drug monitoring analyses	1	1			1	1		
Urinalysis NEC	1	1	1	1				
Vascular tests NEC (incl blood pressure)	51	51	39	39	12	12		
Virus identification and serology	93	93	62	62	31	31		
	291	291	228	228	63	63		

System Organ Class

Metabolism and nutrition disorders				Spont	aneous			
High Level Term	Interval Total #	Cumulative Total #	Nonserious		Serious			
	Spontaneous AE	Spontaneous AE	1	С	1	С		
Appetite disorders	20	20	18	18	2	2		
Diabetes mellitus (incl subtypes)	1	1			1	1		
General nutritional disorders NEC	1	1	1	1				
Hypoglycaemic conditions NEC	1	1	1	1				
Total fluid volume decreased	7	7	7	7				
	30	30	27	27	3	3		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Musculoskeletal and connective tissue disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE Spontaneous AE		I	С	I	С
Arthropathies NEC	3	3	3	3		
Bone related signs and symptoms	23	23	23	23		
Joint related disorders NEC	1	1			1	1
Joint related signs and symptoms	160	160	154	154	6	6
Muscle pains	197	197	192	192	5	5
Muscle related signs and symptoms NEC	26	26	26	26		
Muscle weakness conditions	14	14	12	12	2	2
Musculoskeletal and connective tissue conditions NEC	20	20	19	19	1	1
Musculoskeletal and connective tissue deformities of skull, face and buccal cavity	1	1	1	1		
Musculoskeletal and connective tissue pain and discomfort	337	337	325	325	12	12
Soft tissue disorders NEC	2	2	2	2		
Tendon disorders	2	2	2	2		
	786	786	759	759	27	27

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Nervous system disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
Acute polyneuropathies	1	1	1	1		
Auditory nerve disorders	1	1			1	1
Central nervous system haemorrhages and cerebrovascular accidents	4	4	1	1	3	3
Coordination and balance disturbances	10	10	6	6	4	4
Cortical dysfunction NEC	3	3	3	3		
Disturbances in consciousness NEC	65	65	45	45	20	20
Disturbances in sleep phase rhythm	1	1	1	1		
Dyskinesias and movement disorders NEC	7	7	7	7		
Facial cranial nerve disorders	16	16	7	7	9	9
Headaches NEC	522	522	504	504	18	18
Memory loss (excl dementia)	4	4	3	3	1	1
Mental impairment (excl dementia and memory loss)	14	14	11	11	3	3
Migraine headaches	18	18	17	17	1	1
Mononeuropathies	1	1	1	1		
Muscle tone abnormal	1	1	1	1		
Narcolepsy and hypersomnia	4	4	4	4		
Nervous system disorders NEC	1	1	1	1		
Neurological signs and symptoms NEC	268	268	238	238	30	30
Neurologic visual problems NEC	1	1			1	1
Olfactory nerve disorders	34	34	30	30	4	4
Paraesthesias and dysaesthesias	198	198	178	178	20	20
Paralysis and paresis (excl cranial nerve)	1	1			1	1
Parkinson's disease and parkinsonism	2	2	2	2		
Peripheral neuropathies NEC	1	1			1	1
Seizures and seizure disorders NEC	3	3	1	1	2	2
Sensory abnormalities NEC	74	74	72	72	2	2
Sleep disturbances NEC	6	6	6	6		
Speech and language abnormalities	10	10	9	9	1	1
Transient cerebrovascular events	1	1			1	1
Tremor (excl congenital)	26	26	23	23	3	3

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Nervous system disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Sei	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С
	1,298	1,298	1172	1172	126	126

Product issues	Spontaneous				
	Interval Total #	Cumulative Total #	Nonserious		
High Level Term	Spontaneous AE	Spontaneous AE	ı	С	
Device physical property and chemical issues	4	4	4	4	
Product distribution and storage issues	90	90	90	90	
Product packaging issues	4	4	4	4	
Product physical issues	4	4	4	4	
Product quality issues NEC	2	2	2	2	
	104	104	104	104	

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Psychiatric disorders				Sponta	aneous	
	Interval Total #	Cumulative Total #	Nons	serious	Serious	
High Level Term	Spontaneous AE	Spontaneous AE Spontaneous AE		С	- 1	С
Abnormal behaviour NEC	1	1			1	1
Anxiety symptoms	36	36	35	35	1	1
Behaviour and socialisation disturbances	1	1	1	1		
Confusion and disorientation	7	7	6	6	1	1
Deliria	1	1			1	1
Disturbances in initiating and maintaining sleep	21	21	21	21		
Eating disorders NEC	5	5	5	5		
Emotional and mood disturbances NEC	4	4	4	4		
Fear symptoms and phobic disorders (incl social phobia)	2	2	1	1	1	1
Hallucinations (excl sleep-related)	1	1			1	1
Increased physical activity levels	2	2	2	2		
Mood alterations with depressive symptoms	2	2	2	2		
Mood disorders NEC	1	1	1	1		
Panic attacks and disorders	4	4	2	2	2	2
Parasomnias	3	3	3	3		
Sleep disorders NEC	9	9	7	7	2	2
Stress disorders	1	1	1	1		
Thinking disturbances	4	4	4	4		
	105	105	95	95	10	10

System Organ Class

Renal and urinary disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Bladder and urethral symptoms	4	4	3	3	1	1
Urinary abnormalities	2	2	1	1	1	1
Urinary tract signs and symptoms NEC	1	1	1	1		
	7	7	5	5	2	2

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Reproductive system and breast disorders				Spont	aneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Breast signs and symptoms	5	5	4	4	1	1		
Menstruation and uterine bleeding NEC	3	3	3	3				
	8	8	7	7	1	1		

System Organ Class

Respiratory, thoracic and mediastinal disorders				Spont	aneous	
	Interval Total #	Cumulative Total #	Nonserious Serious		rious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С
Breathing abnormalities	91	91	61	61	30	30
Bronchospasm and obstruction	15	15	9	9	6	6
Conditions associated with abnormal gas exchange	2	2			2	2
Coughing and associated symptoms	86	86	76	76	10	10
Laryngeal spasm, oedema and obstruction	2	2	2	2		
Lower respiratory tract signs and symptoms	3	3	3	3		
Nasal congestion and inflammations	48	48	46	46	2	2
Nasal disorders NEC	8	8	7	7	1	1
Paranasal sinus disorders (excl infections and neoplasms)	6	6	6	6		
Parenchymal lung disorders NEC	2	2	1	1	1	1
Pharyngeal disorders (excl infections and neoplasms)	38	38	29	29	9	9
Pulmonary oedemas	2	2	1	1	1	1
Pulmonary thrombotic and embolic conditions	1	1			1	1
Respiratory signs and symptoms NEC	1	1	1	1		
Respiratory tract disorders NEC	3	3	3	3		
Tracheal disorders (excl infections and neoplasms)	1	1			1	1
Upper respiratory tract signs and symptoms	220	220	188	188	32	32
	529	529	433	433	96	96

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.



Skin and subcutaneous tissue disorders				Spontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious	
High Level Term	Spontaneous AE	Spontaneous AE	1	С	1	С	
Acnes	1	1	1	1			
Angioedemas	7	7	4	4	3	3	
Apocrine and eccrine gland disorders	67	67	61	61	6	6	
Bullous conditions	6	6	6	6			
Dermal and epidermal conditions NEC	21	21	18	18	3	3	
Dermatitis and eczema	4	4	4	4			
Dermatitis ascribed to specific agent	1	1	1	1			
Erythemas	46	46	42	42	4	4	
Photosensitivity and photodermatosis conditions	3	3	3	3			
Pilar disorders NEC	3	3	3	3			
Pruritus NEC	102	102	96	96	6	6	
Psoriatic conditions	1	1	1	1			
Rashes, eruptions and exanthems NEC	131	131	114	114	17	17	
Skin vasomotor conditions	1	1			1	1	
Urticarias	73	73	66	66	7	7	
	467	467	420	420	47	47	

System Organ Class

Social circumstances				Spont	aneous	
	Interval Total #	Cumulative Total #	Nons	erious	Se	rious
High Level Term	Spontaneous AE	Spontaneous AE	ı	С	I	С
Disability issues	12	12	11	11	1	1
	12	12	11	11	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Vascular disorders				Spont	ontaneous			
	Interval Total #	Cumulative Total #	Nons	serious	Se	rious		
High Level Term	Spontaneous AE	Spontaneous AE	1	С	I	С		
Accelerated and malignant hypertension	3	3	1	1	2	2		
Blood pressure disorders NEC	1	1	1	1				
Circulatory collapse and shock	1	1			1	1		
Haemorrhages NEC	3	3	2	2	1	1		
Non-site specific vascular disorders NEC	3	3	3	3				
Peripheral vascular disorders NEC	89	89	78	78	11	11		
Peripheral vasoconstriction, necrosis and vascular insufficiency	16	16	15	15	1	1		
Site specific vascular disorders NEC	5	5	5	5				
Vascular hypertensive disorders NEC	22	22	15	15	7	7		
Vascular hypotensive disorders	4	4	2	2	2	2		
	147	147	122	122	25	25		

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.





Country Where Event Occurred

UNITED STATES MINOR OUTLYING ISLANDS

General disorders and administration site conditions			Spont	aneous
	Interval Total #	Cumulative Total #	Nons	serious
High Level Term	Spontaneous AE	Spontaneous AE	1	С
Vaccination site reactions	1	1	1	1
	1	1	1	1

^{*} I=Interval, C=Cumulative

AE=Adverse Event

^{*} Multiple adverse events coding to the same Preferred Term may have been reported in some cases. Counts are provided for the number of unique Preferred Terms reported.

Appendix 3 (Referred in Section 8.2 Overview of Signals: New, Ongoing or Closed)

Tabular summary of safety signals that were new, ongoing or closed during the reporting interval

Product name: <u>PF-07302048 (BNT162b2)</u>

Reporting interval: <u>01-Dec-2020 to 31-Dec-2020</u>

Signal Term	Date Detect ed	Status (ongoing, or closed)	Date Closed (for closed	Source or trigger of signal	Reason for evaluation and summary of key data	Method of signal evaluation	Action(s) taken or planned
Hyperse nsitivity (not Anaphyl axis)	19 Dec 2020	Ongoing	NA	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	Review of unblinded clinical study data; review of post- authorization data	Added as an adverse reaction to Section 4.8 of the EU SmPC per EMA request; under evaluation for potential inclusion in EUA PI and CDS
Insomnia	19 Dec 2020	Ongoing	NA	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	Review of unblinded clinical study data; review of post- authorization data	Added as an adverse reaction to Section 4.8 of the EU SmPC per EMA request; under evaluation for potential inclusion in EUA PI and CDS
Injection site pruritus	19 Dec 2020	Ongoing	NA	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	Review of unblinded clinical study data; review of post- authorization data	Added as an adverse reaction to Section 4.8 of the EU SmPC per EMA request; under evaluation for potential inclusion in EUA PI and CDS

Signal Term	Date Detect ed	Status (ongoing, or closed)	Date Closed (for closed signals)	Source or trigger of signal	Reason for evaluation and summary of key data	Method of signal evaluation	Action(s) taken or planned
Pain in extremit y	19 Dec 2020	Ongoing	NA	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	EMA request to include as an adverse reaction in EU SmPC at time of conditional approval	Review of unblinded clinical study data; review of post- authorization data	Added as an adverse reaction to Section 4.8 of the EU SmPC per EMA request; under evaluation for potential inclusion in EUA PI and CDS
Anaphyl axis	08 Dec 2020	Closed	30 Dec 2020	EMA request to include as an Important identified risk in EU-RMP and as an adverse reaction in EU SPC at time of conditional approval; FDA request to include it as an Important Identified Risk in the US PVP	EMA request to include as an Important identified risk in EU-RMP and as an adverse reaction in EU SPC at time of conditional approval; FDA request to include it as an Important Identified Risk in the US PVP	Review of unblinded clinical study data; review of post- authorization data	Anaphylaxis was included in the EU-RMP as an Important Identified Risk and was included as an adverse reaction in Section 4.8 of the EU SmPC. The IB, US PVP and EUA PI are being similarly updated
Malaise	04 Dec 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), malaise occurred at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	Malaise was included as an adverse reaction in the EUA PI and in Section 4.8 of the EU SmPC

Signal Term	Date Detect ed	Status (ongoing, or closed)	Date Closed (for closed signals)	Source or trigger of signal	Reason for evaluation and summary of key data	Method of signal evaluation	Action(s) taken or planned
Facial paralysis	03 Dec 2020 opened as safety topic. 19 Dec 2020 reopen ed	Ongoing	NA	Initially opened and closed following review of unblinded clinical study data (C4591001) (DLP 14 Nov 2020) Re-opened due to EMA request to include as adverse reaction in EU SmPC at time of conditional approval	Initially opened and closed following review of unblinded clinical study data (C4591001) (DLP 14 Nov 2020) Re-opened due to EMA request to include as adverse reaction in EU SmPC at time of conditional approval	Review of unblinded clinical study data; review of post- authorization data	Added as an adverse reaction to Section 4.8 of the EU SmPC per EMA request; under evaluation for potential inclusion in EUA PI and CDS
Injection site redness	16 Nov 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), injection site redness occurred at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	Injection site redness was included as an adverse reaction in the EUA PI and in Section 4.8 of the EU SmPC
Vomitin g	16 Nov 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), vomiting was not found to occur at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	No Risk. No action taken. There is no evidence to conclude this is an adverse reaction for the vaccine

Signal Term	Date Detect ed	Status (ongoing, or closed)	Date Closed (for closed signals)	Source or trigger of signal	Reason for evaluation and summary of key data	Method of signal evaluation	Action(s) taken or planned
Nausea	16 Nov 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), nausea occurred at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	Nausea was included as an adverse reaction in the EUA PI and in Section 4.8 of the EU SmPC
Injection Site Swelling	16 Nov 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), injection site swelling occurred at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	Injection site swelling was included as an adverse reaction in the EUA PI and in Section 4.8 of the EU SmPC
Diarrhoe a	16 Nov 2020	Closed	07 Dec 2020	Unblinded clinical study data review	In review of unblinded clinical study data (data lock date 14 Nov 2020), diarrhoea was not found to occur at an increased frequency in vaccine group compared to placebo group following vaccination	Review of unblinded clinical study data	No Risk. No action taken. There no evidence to conclude this an adverse reaction for the vaccine

Appendix 3.1 (Referred in Section 8.2 Overview of Signals: New, Ongoing or Closed)

Signals Evaluation

Table below presents the evaluations of signals for PF-07302048 (BNT162b2) during the current reporting period.

Table 1. Evaluation of Signals During the Reporting Interval

Signal	Evaluation				
Signals Determined to	Not be Risks				
Diarrhoea	Diarrhoea was a pre-specified systemic reactogenicity event for Study C4591001. At the time of unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of diarrhea were low and comparable in both study groups (vaccine recipients and placebo recipients). Hence, diarrhea was not concluded to be an adverse reaction caused by the vaccine.				
Vomiting	Vomiting was a pre-specified systemic reactogenicity event for Study C4591001. At the time of unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of vomiting were low and comparable in both study groups (vaccine recipients and placebo recipients). Hence, vomiting was not concluded to be an adverse reaction caused by the vaccine.				
Signal Determined to b	pe Important Risks				
Anaphylaxis	The MAH did not identify Anaphylaxis as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020) because there were no reported cases of anaphylaxis to vaccination. However, when post-authorization vaccination began, reports of anaphylaxis were reported. Following review and assessments of spontaneous reports using the Brighton Collaboration categorization methodology, the MAH considered anaphylaxis an important identified risk as of 30 December 2020. Anaphylaxis is included as a risk in the EU SmPC and is being added to the EUA PI. Anaphylaxis is included in the EU RMP and is being added to the US PVP as an important identified risk				
Signals Determined to	be Risks (Not Categorized as Important) or Ongoing				
Facial paralysis	The MAH did not identify Facial paralysis as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020). However, the EMA requested the inclusion of Acute peripheral facial paralysis in section 4.8 of the EU SmPC based on 4 cases of facial paralysis in the vaccine group and none in the placebo group. With the accumulation of post-authorization data, including reports of facial paralysis and facial paresis, the MAH has reopened the topic for evaluation. An update will be provided in the next monthly safety report.				
Hypersensitivity (not Anaphylaxis)	The MAH did not identify Hypersensitivity as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020). However, the EMA requested the inclusion of Hypersensitivity in section 4.8 of the EU SmPC. With the MAH determination to add anaphylaxis as an identified risk to the US PVP and EUA PI, the topic of less severe hypersensitivity reactions is being evaluated for possible inclusion in the adverse reaction section of the EUA PI to				

	Tarana and a same and
	better characterize reactions reported in the post-authorization use of the vaccine.
	An update will be provided in the next monthly safety report.
Insomnia	The MAH did not identify Insomnia as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020). However, the EMA requested the inclusion of Insomnia in section 4.8 of the EU SmPC based on the clinical study data. The MAH is evaluating this topic and will provide an update in the next monthly safety report
Injection site pruritus	The MAH did not identify Injection site pruritus as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020). However, the EMA requested the inclusion of Injection site pruritus in section 4.8 of the EU SmPC based on the clinical study data. The MAH is evaluating this topic and will provide an update in the next monthly safety report
Injection site redness	Injection site redness was a pre-specified local reactogenicity event for Study C4591001. At the time of unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of injection site redness were higher in the BNT group compared to the placebo group and based on biologic plausibility, injection site redness was added as a reaction (not important) to the EUA PI and EU SmPC at the time of initial regulatory submission.
Injection site swelling	Injection site swelling was a pre-specified local reactogenicity event for Study C4591001. At the time of unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of injection site swelling were higher in the BNT group compared to the placebo group and based on biologic plausibility, injection site swelling was added as a reaction (not important) to the EUA PI and EU SmPC at the time of initial regulatory submission.
Malaise	At the time of Study C4591001 unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of Malaise were higher in the BNT group compared to the placebo group and based on biologic plausibility, Malaise was added as a reaction (not important) to the EUA PI and EU SmPC at the time of initial regulatory submission.
Nausea	At the time of Study C4591001 unblinded clinical data review (data lock 14 Nov 2020), the frequency of reports of Nausea were higher in the BNT group compared to the placebo group and based on biologic plausibility, Nausea was included as a reaction (not important) to the EUA PI and EU SmPC at the time of initial regulatory submission.
Pain in extremity	The MAH did not identify Pain in extremity as a safety risk based on the unblinded clinical data review and assessment included in the initial regulatory submission documents (data lock 14 Nov 2020). However, the EMA requested the inclusion of Pain in extremity in section 4.8 of the EU SmPC based on the clinical study data. The MAH is evaluating this topic and will provide an update in the next monthly safety report.

APPENDIX 4. CUMULATIVE APPROVAL/AUTHORISATION STATUS

Product Detail Set Name	Marketing Authorization Holder	Country	Approval Date	Authorization Type
Pfizer-BioNTech COVID-19 mRNA vaccine	COVID-19 mRNA Pfizer/BioNTech		01-Dec-20	Temporary authorization under regulation 174
Pfizer-BioNTech COVID-19 mRNA vaccine	COVID-19 mRNA BioNTech		03-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine			Special import approval Clause 29	
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Canada	09-Dec-20	Interim Order
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Qatar	10-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Saudi Arabia	10-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Mexico	11-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	United States	11-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Kuwait	13-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Oman	13-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Lebanon	14-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Singapore	14-Dec-20	Pandemic Special Access Route
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Costa Rica	a 15-Dec-20 EUA	
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Ecuador	15-Dec-20	Importation Authorization
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	United Arab Emirates	15-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Chile	16-Dec-20	Special import for emergency use article 99

Product Detail Set Name	Marketing Authorization Holder	Country	Approval Date	Authorization Type
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Panama	16-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Jordan	17-Dec-20	EUA
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Serbia	17-Dec-20	Import License
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Switzerland	19-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Austria	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Belgium	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Bulgaria	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Croatia	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Cyprus	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Czech Republic	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Denmark	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Estonia	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Finland	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	France	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Germany	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Greece	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Hungary	21-Dec-20	Conditional marketing authorization approval

Product Detail Set Name	Marketing Authorization Holder	Country	Approval Date	Authorization Type
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Iceland	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Ireland	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Italy	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Latvia	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Liechtenstein	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Lithuania	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Luxembourg	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Malta	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Netherlands	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Norway	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Poland	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Portugal	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Romania	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Slovakia	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Slovenia	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Spain	21-Dec-20	Conditional marketing authorization approval
Pfizer-BioNTech COVID-19 mRNA vaccine	BioNTech	Sweden	21-Dec-20	Conditional marketing authorization approval

Product Detail Set Name	Marketing Authorization Holder	Country	Approval Date	Authorization Type
Pfizer-BioNTech COVID-19 mRNA vaccine	Pfizer	Argentina	22-Dec-20	Conditional marketing authorization approval

EUA= Emergency Use Authorization

APPENDIX 5. LIST OF ADVERSE EVENTS OF SPECIAL INTEREST

1p36 deletion syndrome;2-Hydroxyglutaric aciduria;5'nucleotidase increased;Acoustic neuritis; Acquired C1 inhibitor deficiency; Acquired epidermolysis bullosa; Acquired epileptic aphasia; Acute cutaneous lupus erythematosus; Acute disseminated encephalomyelitis; Acute encephalitis with refractory, repetitive partial seizures; Acute febrile neutrophilic dermatosis; Acute flaccid myelitis; Acute haemorrhagic leukoencephalitis; Acute haemorrhagic oedema of infancy; Acute kidney injury; Acute macular outer retinopathy; Acute motor axonal neuropathy; Acute motor-sensory axonal neuropathy; Acute myocardial infarction; Acute respiratory distress syndrome; Acute respiratory failure; Addison's disease; Administration site thrombosis; Administration site vasculitis; Adrenal thrombosis; Adverse event following immunisation; Ageusia; Agranulocytosis; Air embolism; Alanine aminotransferase abnormal; Alanine aminotransferase increased; Alcoholic seizure; Allergic bronchopulmonary mycosis; Allergic oedema; Alloimmune hepatitis; Alopecia areata; Alpers disease; Alveolar proteinosis; Ammonia abnormal; Ammonia increased; Amniotic cavity infection; Amygdalohippocampectomy; Amyloid arthropathy; Amyloidosis; Amyloidosis senile; Anaphylactic reaction; Anaphylactic shock; Anaphylactic transfusion reaction; Anaphylactoid reaction; Anaphylactoid shock; Anaphylactoid syndrome of pregnancy; Angioedema; Angiopathic neuropathy; Ankylosing spondylitis; Anosmia; Antiacetylcholine receptor antibody positive; Anti-actin antibody positive; Anti-aquaporin-4 antibody positive; Anti-basal ganglia antibody positive; Anti-cyclic citrullinated peptide antibody positive; Anti-epithelial antibody positive; Anti-erythrocyte antibody positive; Anti-exosome complex antibody positive; Anti-GAD antibody negative; Anti-GAD antibody positive; Anti-ganglioside antibody positive; Antigliadin antibody positive; Anti-glomerular basement membrane antibody positive; Anti-glomerular basement membrane disease; Anti-glycyl-tRNA synthetase antibody positive; Anti-HLA antibody test positive; Anti-IA2 antibody positive; Anti-insulin antibody increased; Anti-insulin antibody positive; Anti-insulin receptor antibody increased; Antiinsulin receptor antibody positive; Anti-interferon antibody negative; Anti-interferon antibody positive; Anti-islet cell antibody positive; Antimitochondrial antibody positive; Anti-muscle specific kinase antibody positive; Anti-myelin-associated glycoprotein antibodies positive; Anti-myelin-associated glycoprotein associated polyneuropathy; Antimyocardial antibody positive; Anti-neuronal antibody positive; Antineutrophil cytoplasmic antibody increased; Antineutrophil cytoplasmic antibody positive; Anti-neutrophil cytoplasmic antibody positive vasculitis; Anti-NMDA antibody positive; Antinuclear antibody increased; Antinuclear antibody positive; Antiphospholipid antibodies positive; Antiphospholipid syndrome; Anti-platelet antibody positive; Anti-prothrombin antibody positive; Antiribosomal P antibody positive; Anti-RNA polymerase III antibody positive; Anti-saccharomyces cerevisiae antibody test positive; Anti-sperm antibody positive; Anti-SRP antibody positive; Antisynthetase syndrome; Anti-thyroid antibody positive; Anti-transglutaminase antibody increased; Anti-VGCC antibody positive; Anti-VGKC antibody positive; Anti-vimentin antibody positive; Antiviral prophylaxis; Antiviral treatment; Anti-zinc transporter 8 antibody positive; Aortic embolus; Aortic thrombosis; Aortitis; Aplasia pure red cell; Aplastic anaemia; Application site thrombosis; Application site vasculitis; Arrhythmia; Arterial bypass occlusion; Arterial bypass thrombosis; Arterial thrombosis; Arteriovenous fistula thrombosis; Arteriovenous graft site stenosis; Arteriovenous graft thrombosis; Arteritis; Arteritis

coronary; Arthralgia; Arthritis; Arthritis enteropathic; Ascites; Aseptic cavernous sinus thrombosis; Aspartate aminotransferase abnormal; Aspartate aminotransferase increased; Aspartate-glutamate-transporter deficiency; AST to platelet ratio index increased; AST/ALT ratio abnormal; Asthma; Asymptomatic COVID-19; Ataxia; Atheroembolism; Atonic seizures; Atrial thrombosis; Atrophic thyroiditis; Atypical benign partial epilepsy; Atypical pneumonia; Aura; Autoantibody positive; Autoimmune anaemia; Autoimmune aplastic anaemia; Autoimmune arthritis; Autoimmune blistering disease; Autoimmune cholangitis; Autoimmune colitis; Autoimmune demyelinating disease; Autoimmune dermatitis; Autoimmune disorder; Autoimmune encephalopathy; Autoimmune endocrine disorder; Autoimmune enteropathy; Autoimmune eye disorder; Autoimmune haemolytic anaemia; Autoimmune heparin-induced thrombocytopenia; Autoimmune hepatitis; Autoimmune hyperlipidaemia; Autoimmune hypothyroidism; Autoimmune inner ear disease; Autoimmune lung disease; Autoimmune lymphoproliferative syndrome; Autoimmune myocarditis; Autoimmune myositis; Autoimmune nephritis; Autoimmune neuropathy; Autoimmune neutropenia; Autoimmune pancreatitis; Autoimmune pancytopenia; Autoimmune pericarditis; Autoimmune retinopathy; Autoimmune thyroid disorder; Autoimmune thyroiditis; Autoimmune uveitis; Autoinflammation with infantile enterocolitis; Autoinflammatory disease; Automatism epileptic; Autonomic nervous system imbalance; Autonomic seizure; Axial spondyloarthritis; Axillary vein thrombosis; Axonal and demyelinating polyneuropathy; Axonal neuropathy; Bacterascites; Baltic myoclonic epilepsy; Band sensation; Basedow's disease; Basilar artery thrombosis; Basophilopenia; B-cell aplasia; Behcet's syndrome; Benign ethnic neutropenia; Benign familial neonatal convulsions; Benign familial pemphigus; Benign rolandic epilepsy; Beta-2 glycoprotein antibody positive; Bickerstaff's encephalitis; Bile output abnormal; Bile output decreased; Biliary ascites; Bilirubin conjugated abnormal; Bilirubin conjugated increased; Bilirubin urine present; Biopsy liver abnormal; Biotinidase deficiency; Birdshot chorioretinopathy; Blood alkaline phosphatase abnormal; Blood alkaline phosphatase increased;Blood bilirubin abnormal;Blood bilirubin increased;Blood bilirubin unconjugated increased;Blood cholinesterase abnormal;Blood cholinesterase decreased;Blood pressure decreased; Blood pressure diastolic decreased; Blood pressure systolic decreased; Blue toe syndrome;Brachiocephalic vein thrombosis;Brain stem embolism;Brain stem thrombosis;Bromosulphthalein test abnormal;Bronchial oedema;Bronchitis;Bronchitis mycoplasmal;Bronchitis viral;Bronchopulmonary aspergillosis allergic;Bronchospasm;Budd-Chiari syndrome; Bulbar palsy; Butterfly rash; Clq nephropathy; Caesarean section; Calcium embolism; Capillaritis; Caplan's syndrome; Cardiac amyloidosis; Cardiac arrest; Cardiac failure; Cardiac failure acute; Cardiac sarcoidosis; Cardiac ventricular thrombosis; Cardiogenic shock; Cardiolipin antibody positive; Cardiopulmonary failure; Cardio-respiratory arrest; Cardio-respiratory distress; Cardiovascular insufficiency; Carotid arterial embolus; Carotid artery thrombosis; Cataplexy; Catheter site thrombosis; Catheter site vasculitis; Cavernous sinus thrombosis; CDKL5 deficiency disorder; CEC syndrome; Cement embolism; Central nervous system lupus; Central nervous system vasculitis; Cerebellar artery thrombosis; Cerebellar embolism; Cerebral amyloid angiopathy; Cerebral arteritis; Cerebral artery embolism; Cerebral artery thrombosis; Cerebral gas embolism; Cerebral microembolism; Cerebral septic infarct; Cerebral thrombosis; Cerebral venous sinus thrombosis; Cerebral venous thrombosis; Cerebrospinal thrombotic

tamponade; Cerebrovascular accident; Change in seizure presentation; Chest discomfort; Child-Pugh-Turcotte score abnormal; Child-Pugh-Turcotte score increased; Chillblains; Choking; Choking sensation; Cholangitis sclerosing; Chronic autoimmune glomerulonephritis; Chronic cutaneous lupus erythematosus; Chronic fatigue syndrome; Chronic gastritis; Chronic inflammatory demyelinating polyradiculoneuropathy; Chronic lymphocytic inflammation with pontine perivascular enhancement responsive to steroids; Chronic recurrent multifocal osteomyelitis; Chronic respiratory failure; Chronic spontaneous urticaria; Circulatory collapse; Circumoral oedema; Circumoral swelling; Clinically isolated syndrome; Clonic convulsion; Coeliac disease; Cogan's syndrome; Cold agglutinins positive; Cold type haemolytic anaemia; Colitis; Colitis erosive; Colitis herpes; Colitis microscopic; Colitis ulcerative; Collagen disorder; Collagen-vascular disease; Complement factor abnormal; Complement factor C1 decreased; Complement factor C2 decreased; Complement factor C3 decreased; Complement factor C4 decreased; Complement factor decreased; Computerised tomogram liver abnormal; Concentric sclerosis; Congenital anomaly; Congenital bilateral perisylvian syndrome; Congenital herpes simplex infection; Congenital myasthenic syndrome; Congenital varicella infection; Congestive hepatopathy; Convulsion in childhood; Convulsions local; Convulsive threshold lowered; Coombs positive haemolytic anaemia; Coronary artery disease; Coronary artery embolism; Coronary artery thrombosis; Coronary bypass thrombosis; Coronavirus infection; Coronavirus test; Coronavirus test negative; Coronavirus test positive; Corpus callosotomy; Cough; Cough variant asthma; COVID-19; COVID-19 immunisation; COVID-19 pneumonia; COVID-19 prophylaxis; COVID-19 treatment; Cranial nerve disorder; Cranial nerve palsies multiple; Cranial nerve paralysis; CREST syndrome; Crohn's disease; Cryofibrinogenaemia; Cryoglobulinaemia; CSF oligoclonal band present; CSWS syndrome; Cutaneous amyloidosis; Cutaneous lupus erythematosus; Cutaneous sarcoidosis; Cutaneous vasculitis; Cyanosis; Cyclic neutropenia; Cystitis interstitial; Cytokine release syndrome; Cytokine storm; De novo purine synthesis inhibitors associated acute inflammatory syndrome; Death neonatal; Deep vein thrombosis; Deep vein thrombosis postoperative; Deficiency of bile secretion; Deja vu; Demyelinating polyneuropathy; Demyelination; Dermatitis; Dermatitis bullous; Dermatitis herpetiformis; Dermatomyositis; Device embolisation; Device related thrombosis; Diabetes mellitus; Diabetic ketoacidosis; Diabetic mastopathy; Dialysis amyloidosis; Dialysis membrane reaction; Diastolic hypotension; Diffuse vasculitis; Digital pitting scar; Disseminated intravascular coagulation; Disseminated intravascular coagulation in newborn; Disseminated neonatal herpes simplex; Disseminated varicella; Disseminated varicella zoster vaccine virus infection; Disseminated varicella zoster virus infection; DNA antibody positive; Double cortex syndrome; Double stranded DNA antibody positive; Dreamy state; Dressler's syndrome; Drop attacks; Drug withdrawal convulsions; Dyspnoea; Early infantile epileptic encephalopathy with burst-suppression; Eclampsia; Eczema herpeticum; Embolia cutis medicamentosa; Embolic cerebellar infarction; Embolic cerebral infarction; Embolic pneumonia; Embolic stroke; Embolism; Embolism arterial; Embolism venous; Encephalitis; Encephalitis allergic; Encephalitis autoimmune; Encephalitis brain stem; Encephalitis haemorrhagic; Encephalitis periaxialis diffusa; Encephalitis post immunisation; Encephalomyelitis; Encephalopathy; Endocrine disorder; Endocrine ophthalmopathy; Endotracheal intubation; Enteritis; Enteritis leukopenic; Enterobacter pneumonia; Enterocolitis; Enteropathic spondylitis; Eosinopenia; Eosinophilic

fasciitis; Eosinophilic granulomatosis with polyangiitis; Eosinophilic oesophagitis; Epidermolysis; Epilepsy; Epilepsy surgery; Epilepsy with myoclonic-atonic seizures; Epileptic aura; Epileptic psychosis; Erythema; Erythema induratum; Erythema multiforme; Erythema nodosum; Evans syndrome; Exanthema subitum; Expanded disability status scale score decreased; Expanded disability status scale score increased; Exposure to communicable disease; Exposure to SARS-CoV-2; Eye oedema; Eye pruritus; Eye swelling; Eyelid oedema; Face oedema; Facial paralysis; Facial paresis; Faciobrachial dystonic seizure; Fat embolism; Febrile convulsion; Febrile infection-related epilepsy syndrome; Febrile neutropenia; Felty's syndrome; Femoral artery embolism; Fibrillary glomerulonephritis; Fibromyalgia; Flushing; Foaming at mouth; Focal cortical resection; Focal dyscognitive seizures; Foetal distress syndrome; Foetal placental thrombosis; Foetor hepaticus; Foreign body embolism; Frontal lobe epilepsy; Fulminant type 1 diabetes mellitus; Galactose elimination capacity test abnormal; Galactose elimination capacity test decreased; Gamma-glutamyltransferase abnormal; Gamma-glutamyltransferase increased; Gastritis herpes; Gastrointestinal amyloidosis; Gelastic seizure; Generalised onset non-motor seizure; Generalised tonic-clonic seizure; Genital herpes; Genital herpes simplex;Genital herpes zoster;Giant cell arteritis;Glomerulonephritis;Glomerulonephritis membranoproliferative; Glomerulonephritis membranous; Glomerulonephritis rapidly progressive; Glossopharyngeal nerve paralysis; Glucose transporter type 1 deficiency syndrome; Glutamate dehydrogenase increased; Glycocholic acid increased; GM2 gangliosidosis; Goodpasture's syndrome; Graft thrombosis; Granulocytopenia; Granulocytopenia neonatal; Granulomatosis with polyangiitis;Granulomatous dermatitis;Grey matter heterotopia;Guanase increased;Guillain-Barre syndrome; Haemolytic anaemia; Haemophagocytic lymphohistiocytosis; Haemorrhage; Haemorrhagic ascites; Haemorrhagic disorder; Haemorrhagic pneumonia; Haemorrhagic varicella syndrome; Haemorrhagic vasculitis; Hantavirus pulmonary infection; Hashimoto's encephalopathy; Hashitoxicosis; Hemimegalencephaly; Henoch-Schonlein purpura; Henoch-Schonlein purpura nephritis; Hepaplastin abnormal; Hepaplastin decreased; Heparin-induced thrombocytopenia; Hepatic amyloidosis; Hepatic artery embolism; Hepatic artery flow decreased; Hepatic artery thrombosis; Hepatic enzyme abnormal; Hepatic enzyme decreased; Hepatic enzyme increased; Hepatic fibrosis marker abnormal; Hepatic fibrosis marker increased; Hepatic function abnormal; Hepatic hydrothorax; Hepatic hypertrophy; Hepatic hypoperfusion; Hepatic lymphocytic infiltration; Hepatic mass; Hepatic pain; Hepatic sequestration; Hepatic vascular resistance increased; Hepatic vascular thrombosis; Hepatic vein embolism; Hepatic vein thrombosis; Hepatic venous pressure gradient abnormal; Hepatic venous pressure gradient increased; Hepatitis; Hepatobiliary scan abnormal; Hepatomegaly; Hepatosplenomegaly; Hereditary angioedema with C1 esterase inhibitor deficiency; Herpes dermatitis; Herpes gestationis; Herpes oesophagitis; Herpes ophthalmic; Herpes pharyngitis; Herpes sepsis; Herpes simplex; Herpes simplex cervicitis; Herpes simplex colitis; Herpes simplex encephalitis; Herpes simplex gastritis; Herpes simplex hepatitis; Herpes simplex meningitis; Herpes simplex meningoencephalitis; Herpes simplex meningomyelitis; Herpes simplex necrotising retinopathy; Herpes simplex oesophagitis; Herpes simplex otitis externa; Herpes simplex pharyngitis; Herpes simplex pneumonia; Herpes simplex reactivation; Herpes simplex sepsis; Herpes simplex viraemia; Herpes simplex virus conjunctivitis neonatal; Herpes simplex visceral; Herpes virus

infection; Herpes zoster; Herpes zoster cutaneous disseminated; Herpes zoster infection neurological; Herpes zoster meningitis; Herpes zoster meningoencephalitis; Herpes zoster meningomyelitis; Herpes zoster meningoradiculitis; Herpes zoster necrotising retinopathy; Herpes zoster oticus; Herpes zoster pharyngitis; Herpes zoster reactivation; Herpetic radiculopathy; Histone antibody positive; Hoigne's syndrome; Human herpesvirus 6 encephalitis; Human herpesvirus 6 infection; Human herpesvirus 6 infection reactivation; Human herpesvirus 7 infection; Human herpesvirus 8 infection; Hyperammonaemia; Hyperbilirubinaemia; Hypercholia; Hypergammaglobulinaemia benign monoclonal; Hyperglycaemic seizure; Hypersensitivity; Hypersensitivity vasculitis; Hyperthyroidism; Hypertransaminasaemia; Hyperventilation; Hypoalbuminaemia; H ypocalcaemic seizure; Hypogammaglobulinaemia; Hypoglossal nerve paralysis; Hypoglossal nerve paresis; Hypoglycaemic seizure; Hyponatraemic seizure; Hypotension; Hypotensive crisis:Hypothenar hammer syndrome:Hypothyroidism;Hypoxia:Idiopathic CD4 lymphocytopenia; Idiopathic generalised epilepsy; Idiopathic interstitial pneumonia; Idiopathic neutropenia;Idiopathic pulmonary fibrosis;IgA nephropathy;IgM nephropathy;IIIrd nerve paralysis; IIIrd nerve paresis; Iliac artery embolism; Immune thrombocytopenia; Immunemediated adverse reaction; Immune-mediated cholangitis; Immune-mediated cholestasis; Immune-mediated cytopenia; Immune-mediated encephalitis; Immune-mediated encephalopathy; Immune-mediated endocrinopathy; Immune-mediated enterocolitis; Immunemediated gastritis; Immune-mediated hepatic disorder; Immune-mediated hepatitis; Immunemediated hyperthyroidism; Immune-mediated hypothyroidism; Immune-mediated myocarditis; Immune-mediated myositis; Immune-mediated nephritis; Immune-mediated neuropathy; Immune-mediated pancreatitis; Immune-mediated pneumonitis; Immune-mediated renal disorder; Immune-mediated thyroiditis; Immune-mediated uveitis; Immunoglobulin G4 related disease; Immunoglobulins abnormal; Implant site thrombosis; Inclusion body myositis; Infantile genetic agranulocytosis; Infantile spasms; Infected vasculitis; Infective thrombosis;Inflammation;Inflammatory bowel disease;Infusion site thrombosis;Infusion site vasculitis; Injection site thrombosis; Injection site urticaria; Injection site vasculitis; Instillation site thrombosis;Insulin autoimmune syndrome;Interstitial granulomatous dermatitis; Interstitial lung disease; Intracardiac mass; Intracardiac thrombus; Intracranial pressure increased; Intrapericardial thrombosis; Intrinsic factor antibody abnormal; Intrinsic factor antibody positive; IPEX syndrome; Irregular breathing; IRVAN syndrome; IVth nerve paralysis; IVth nerve paresis; JC polyomavirus test positive; JC virus CSF test positive; Jeavons syndrome; Jugular vein embolism; Jugular vein thrombosis; Juvenile idiopathic arthritis; Juvenile myoclonic epilepsy; Juvenile polymyositis; Juvenile psoriatic arthritis; Juvenile spondyloarthritis; Kaposi sarcoma inflammatory cytokine syndrome; Kawasaki's disease; Kayser-Fleischer ring; Keratoderma blenorrhagica; Ketosisprone diabetes mellitus; Kounis syndrome; Lafora's myoclonic epilepsy; Lambl's excrescences; Laryngeal dyspnoea; Laryngeal oedema; Laryngeal rheumatoid arthritis;Laryngospasm;Laryngotracheal oedema;Latent autoimmune diabetes in adults;LE cells present; Lemierre syndrome; Lennox-Gastaut syndrome; Leucine aminopeptidase increased;Leukoencephalomyelitis;Leukoencephalopathy;Leukopenia;Leukopenia neonatal; Lewis-Sumner syndrome; Lhermitte's sign; Lichen planopilaris; Lichen planus; Lichen sclerosus; Limbic encephalitis; Linear IgA disease; Lip oedema; Lip swelling; Liver function test abnormal; Liver function test decreased; Liver function test increased; Liver induration; Liver injury; Liver iron concentration abnormal; Liver iron concentration

increased; Liver opacity; Liver palpable; Liver sarcoidosis; Liver scan abnormal; Liver tenderness; Low birth weight baby; Lower respiratory tract herpes infection; Lower respiratory tract infection; Lower respiratory tract infection viral; Lung abscess; Lupoid hepatic cirrhosis;Lupus cystitis;Lupus encephalitis;Lupus endocarditis;Lupus enteritis;Lupus hepatitis; Lupus myocarditis; Lupus myositis; Lupus nephritis; Lupus pancreatitis; Lupus pleurisy; Lupus pneumonitis; Lupus vasculitis; Lupus-like syndrome; Lymphocytic hypophysitis; Lymphocytopenia neonatal; Lymphopenia; MAGIC syndrome; Magnetic resonance imaging liver abnormal; Magnetic resonance proton density fat fraction measurement; Mahler sign; Manufacturing laboratory analytical testing issue; Manufacturing materials issue; Manufacturing production issue; Marburg's variant multiple sclerosis; Marchiafava-Bignami disease; Marine Lenhart syndrome; Mastocytic enterocolitis; Maternal exposure during pregnancy; Medical device site thrombosis; Medical device site vasculitis; MELAS syndrome; Meningitis; Meningitis aseptic; Meningitis herpes; Meningoencephalitis herpes simplex neonatal; Meningoencephalitis herpetic; Meningomyelitis herpes; MERS-CoV test; MERS-CoV test negative; MERS-CoV test positive; Mesangioproliferative glomerulone phritis; Mesenteric artery embolism; Mesenteric artery thrombosis; Mesenteric vein thrombosis; Metapneumovirus infection; Metastatic cutaneous Crohn's disease; Metastatic pulmonary embolism; Microangiopathy; Microembolism; Microscopic polyangiitis; Middle East respiratory syndrome; Migraine-triggered seizure; Miliary pneumonia; Miller Fisher syndrome; Mitochondrial aspartate aminotransferase increased; Mixed connective tissue disease; Model for end stage liver disease score abnormal; Model for end stage liver disease score increased; Molar ratio of total branched-chain amino acid to tyrosine; Molybdenum cofactor deficiency; Monocytopenia; Mononeuritis; Mononeuropathy multiplex;Morphoea;Morvan syndrome;Mouth swelling;Moyamoya disease;Multifocal motor neuropathy; Multiple organ dysfunction syndrome; Multiple sclerosis; Multiple sclerosis relapse; Multiple sclerosis relapse prophylaxis; Multiple subpial transection; Multisystem inflammatory syndrome in children; Muscular sarcoidosis; Myasthenia gravis; Myasthenia gravis crisis; Myasthenia gravis neonatal; Myasthenic syndrome; Myelitis; Myelitis transverse; Myocardial infarction; Myocarditis; Myocarditis post infection; Myoclonic epilepsy; Myoclonic epilepsy and ragged-red fibres; Myokymia; Myositis; Narcolepsy; Nasal herpes; Nasal obstruction; Necrotising herpetic retinopathy; Neonatal Crohn's disease; Neonatal epileptic seizure; Neonatal lupus erythematosus; Neonatal mucocutaneous herpes simplex; Neonatal pneumonia; Neonatal seizure; Nephritis; Nephrogenic systemic fibrosis; Neuralgic amyotrophy; Neuritis; Neuritis cranial; Neuromyelitis optica pseudo relapse; Neuromyelitis optica spectrum disorder; Neuromyotonia; Neuronal neuropathy; Neuropathy peripheral; Neuropathy, ataxia, retinitis pigmentosa syndrome; Neuropsychiatric lupus; Neurosarcoidosis; Neutropenia; Neutropenia neonatal; Neutropenic colitis; Neutropenic infection; Neutropenic sepsis; Nodular rash; Nodular vasculitis; Noninfectious myelitis; Noninfective encephalitis; Noninfective encephalomyelitis; Noninfective oophoritis; Obstetrical pulmonary embolism; Occupational exposure to communicable disease; Occupational exposure to SARS-CoV-2; Ocular hyperaemia;Ocular myasthenia;Ocular pemphigoid;Ocular sarcoidosis;Ocular vasculitis;Oculofacial paralysis;Oedema;Oedema blister;Oedema due to hepatic disease;Oedema mouth;Oesophageal achalasia;Ophthalmic artery thrombosis;Ophthalmic herpes simplex; Ophthalmic herpes zoster; Ophthalmic vein thrombosis; Optic neuritis; Optic

neuropathy; Optic perineuritis; Oral herpes; Oral lichen planus; Oropharyngeal oedema;Oropharyngeal spasm;Oropharyngeal swelling;Osmotic demyelination syndrome;Ovarian vein thrombosis;Overlap syndrome;Paediatric autoimmune neuropsychiatric disorders associated with streptococcal infection; Paget-Schroetter syndrome; Palindromic rheumatism; Palisaded neutrophilic granulomatous dermatitis; Palmoplantar keratoderma; Palpable purpura; Pancreatitis; Panencephalitis; Papillophlebitis; Paracancerous pneumonia; Paradoxical embolism; Parainfluenzae viral laryngotracheobronchitis; Paraneoplastic dermatomyositis; Paraneoplastic pemphigus; Paraneoplastic thrombosis; Paresis cranial nerve; Parietal cell antibody positive; Paroxysmal nocturnal haemoglobinuria; Partial seizures; Partial seizures with secondary generalisation; Patient isolation; Pelvic venous thrombosis; Pemphigoid; Pemphigus; Penile vein thrombosis; Pericarditis; Pericarditis lupus;Perihepatic discomfort;Periorbital oedema;Periorbital swelling;Peripheral artery thrombosis; Peripheral embolism; Peripheral ischaemia; Peripheral vein thrombus extension; Periportal oedema; Peritoneal fluid protein abnormal; Peritoneal fluid protein decreased; Peritoneal fluid protein increased; Peritonitis lupus; Pernicious anaemia; Petit mal epilepsy; Pharyngeal oedema; Pharyngeal swelling; Pityriasis lichenoides et varioliformis acuta; Placenta praevia; Pleuroparenchymal fibroelastosis; Pneumobilia; Pneumonia; Pneumonia adenoviral; Pneumonia cytomegaloviral; Pneumonia herpes viral; Pneumonia influenzal;Pneumonia measles;Pneumonia mycoplasmal;Pneumonia necrotising;Pneumonia parainfluenzae viral; Pneumonia respiratory syncytial viral; Pneumonia viral; POEMS syndrome; Polyarteritis nodosa; Polyarthritis; Polychondritis; Polyglandular autoimmune syndrome type I;Polyglandular autoimmune syndrome type II;Polyglandular autoimmune syndrome type III;Polyglandular disorder;Polymicrogyria;Polymyalgia rheumatica; Polymyositis; Polyneuropathy; Polyneuropathy idiopathic progressive; Portal pyaemia; Portal vein embolism; Portal vein flow decreased; Portal vein pressure increased; Portal vein thrombosis; Portosplenomesenteric venous thrombosis; Post procedural hypotension; Post procedural pneumonia; Post procedural pulmonary embolism; Post stroke epilepsy; Post stroke seizure; Post thrombotic retinopathy; Post thrombotic syndrome; Post viral fatigue syndrome; Postictal headache; Postictal paralysis; Postictal psychosis; Postictal state; Postoperative respiratory distress; Postoperative respiratory failure; Postoperative thrombosis; Postpartum thrombosis; Postpartum venous thrombosis; Postpericardiotomy syndrome; Post-traumatic epilepsy; Postural orthostatic tachycardia syndrome; Precerebral artery thrombosis; Pre-eclampsia; Preictal state; Premature labour; Premature menopause; Primary amyloidosis; Primary biliary cholangitis; Primary progressive multiple sclerosis:Procedural shock:Proctitis herpes:Proctitis ulcerative:Product availability issue; Product distribution issue; Product supply issue; Progressive facial hemiatrophy; Progressive multifocal leukoencephalopathy; Progressive multiple sclerosis; Progressive relapsing multiple sclerosis; Prosthetic cardiac valve thrombosis; Pruritus; Pruritus allergic; Pseudovasculitis; Psoriasis; Psoriatic arthropathy; Pulmonary amyloidosis; Pulmonary artery thrombosis; Pulmonary embolism; Pulmonary fibrosis; Pulmonary haemorrhage; Pulmonary microemboli; Pulmonary oil microembolism; Pulmonary renal syndrome; Pulmonary sarcoidosis; Pulmonary sepsis; Pulmonary thrombosis; Pulmonary tumour thrombotic microangiopathy; Pulmonary vasculitis; Pulmonary veno-occlusive disease; Pulmonary venous thrombosis; Pyoderma gangrenosum; Pyostomatitis vegetans; Pyrexia; Quarantine; Radiation leukopenia; Radiculitis

brachial; Radiologically isolated syndrome; Rash; Rash erythematous; Rash pruritic; Rasmussen encephalitis; Raynaud's phenomenon; Reactive capillary endothelial proliferation; Relapsing multiple sclerosis; Relapsing-remitting multiple sclerosis; Renal amyloidosis; Renal arteritis; Renal artery thrombosis; Renal embolism; Renal failure; Renal vascular thrombosis; Renal vasculitis; Renal vein embolism; Renal vein thrombosis; Respiratory arrest; Respiratory disorder; Respiratory distress; Respiratory failure; Respiratory paralysis; Respiratory syncytial virus bronchiolitis; Respiratory syncytial virus bronchitis; Retinal artery embolism; Retinal artery occlusion; Retinal artery thrombosis; Retinal vascular thrombosis; Retinal vasculitis; Retinal vein occlusion; Retinal vein thrombosis; Retinol binding protein decreased; Retinopathy; Retrograde portal vein flow; Retroperitoneal fibrosis; Reversible airways obstruction; Reynold's syndrome; Rheumatic brain disease; Rheumatic disorder; Rheumatoid arthritis; Rheumatoid factor increased; Rheumatoid factor positive; Rheumatoid factor quantitative increased; Rheumatoid lung; Rheumatoid neutrophilic dermatosis; Rheumatoid nodule; Rheumatoid nodule removal; Rheumatoid scleritis; Rheumatoid vasculitis; Saccadic eye movement; SAPHO syndrome; Sarcoidosis; SARS-CoV-1 test; SARS-CoV-1 test negative; SARS-CoV-1 test positive; SARS-CoV-2 antibody test; SARS-CoV-2 antibody test negative; SARS-CoV-2 antibody test positive; SARS-CoV-2 carrier; SARS-CoV-2 sepsis; SARS-CoV-2 test; SARS-CoV-2 test false negative; SARS-CoV-2 test false positive; SARS-CoV-2 test negative; SARS-CoV-2 test positive; SARS-CoV-2 viraemia; Satoyoshi syndrome; Schizencephaly; Scleritis; Sclerodactylia; Scleroderma; Scleroderma associated digital ulcer; Scleroderma renal crisis; Scleroderma-like reaction; Secondary amyloidosis; Secondary cerebellar degeneration; Secondary progressive multiple sclerosis; Segmented hyalinising vasculitis; Seizure; Seizure anoxic; Seizure cluster; Seizure like phenomena; Seizure prophylaxis; Sensation of foreign body; Septic embolus; Septic pulmonary embolism; Severe acute respiratory syndrome; Severe myoclonic epilepsy of infancy;Shock;Shock symptom;Shrinking lung syndrome;Shunt thrombosis;Silent thyroiditis; Simple partial seizures; Sjogren's syndrome; Skin swelling; SLE arthritis; Smooth muscle antibody positive; Sneezing; Spinal artery embolism; Spinal artery thrombosis; Splenic artery thrombosis; Splenic embolism; Splenic thrombosis; Splenic vein thrombosis; Spondylitis; Spondyloarthropathy; Spontaneous heparin-induced thrombocytopenia syndrome; Status epilepticus; Stevens-Johnson syndrome; Stiff leg syndrome; Stiff person syndrome; Stillbirth; Still's disease; Stoma site thrombosis; Stoma site vasculitis; Stress cardiomyopathy; Stridor; Subacute cutaneous lupus erythematosus; Subacute endocarditis; Subacute inflammatory demyelinating polyneuropathy; Subclavian artery embolism; Subclavian artery thrombosis; Subclavian vein thrombosis; Sudden unexplained death in epilepsy; Superior sagittal sinus thrombosis; Susac's syndrome; Suspected COVID-19;Swelling;Swelling face;Swelling of eyelid;Swollen tongue;Sympathetic ophthalmia; Systemic lupus erythematosus; Systemic lupus erythematosus disease activity index abnormal; Systemic lupus erythematosus disease activity index decreased; Systemic lupus erythematosus disease activity index increased; Systemic lupus erythematosus rash;Systemic scleroderma;Systemic sclerosis pulmonary; Tachycardia; Tachypnoea; Takayasu's arteritis; Temporal lobe epilepsy; Terminal ileitis; Testicular autoimmunity; Throat tightness; Thromboangiitis obliterans; Thrombocytopenia; Thrombocytopenic purpura; Thrombophlebitis; Thrombophlebitis migrans; Thrombophlebitis

neonatal; Thrombophlebitis septic; Thrombophlebitis superficial; Thromboplastin antibody positive; Thrombosis; Thrombosis corpora cavernosa; Thrombosis in device; Thrombosis mesenteric vessel; Thrombotic cerebral infarction; Thrombotic microangiopathy; Thrombotic stroke; Thrombotic thrombocytopenic purpura; Thyroid disorder; Thyroid stimulating immunoglobulin increased; Thyroiditis; Tongue amyloidosis; Tongue biting; Tongue oedema; Tonic clonic movements; Tonic convulsion; Tonic posturing; Topectomy; Total bile acids increased; Toxic epidermal necrolysis; Toxic leukoencephalopathy; Toxic oil syndrome; Tracheal obstruction; Tracheal oedema; Tracheobronchitis; Tracheobronchitis mycoplasmal; Tracheobronchitis viral; Transaminases abnormal; Transaminases increased; Transfusion-related alloimmune neutropenia; Transient epileptic amnesia; Transverse sinus thrombosis; Trigeminal nerve paresis; Trigeminal neuralgia; Trigeminal palsy; Truncus coeliacus thrombosis; Tuberous sclerosis complex; Tubulointerstitial nephritis and uveitis syndrome; Tumefactive multiple sclerosis; Tumour embolism; Tumour thrombosis; Type 1 diabetes mellitus; Type I hypersensitivity; Type III immune complex mediated reaction; Uhthoff's phenomenon; Ulcerative keratitis; Ultrasound liver abnormal; Umbilical cord thrombosis; Uncinate fits; Undifferentiated connective tissue disease; Upper airway obstruction; Urine bilirubin increased; Urobilinogen urine decreased; Urobilinogen urine increased; Urticaria; Urticaria papular; Urticarial vasculitis; Uterine rupture; Uveitis; Vaccination site thrombosis; Vaccination site vasculitis; Vagus nerve paralysis; Varicella; Varicella keratitis; Varicella post vaccine; Varicella zoster gastritis; Varicella zoster oesophagitis; Varicella zoster pneumonia; Varicella zoster sepsis; Varicella zoster virus infection; Vasa praevia; Vascular graft thrombosis; Vascular pseudoaneurysm thrombosis; Vascular purpura; Vascular stent thrombosis; Vasculitic rash; Vasculitic ulcer; Vasculitis; Vasculitis gastrointestinal; Vasculitis necrotising; Vena cava embolism; Vena cava thrombosis; Venous intravasation; Venous recanalisation; Venous thrombosis; Venous thrombosis in pregnancy; Venous thrombosis limb; Venous thrombosis neonatal; Vertebral artery thrombosis; Vessel puncture site thrombosis; Visceral venous thrombosis; VIth nerve paralysis; VIth nerve paresis; Vitiligo; Vocal cord paralysis; Vocal cord paresis; Vogt-Koyanagi-Harada disease; Warm type haemolytic anaemia; Wheezing; White nipple sign; XIth nerve paralysis; X-ray hepatobiliary abnormal; Young's syndrome; Zika virus associated Guillain Barre syndrome.

APPENDIX 5.1 OBSERVED VERSUS EXPECTED ANALYSIS FOR ADVERSE EVENTS OF SPECIAL INTEREST

For this report, MAH has conducted ad hoc, unadjusted observed to expected ratio (O/E) analyses for AESI that were reported more than once and were not already an identified risk: facial paralysis (n=23), seizure (including epilepsy) (n=9), stroke (n=5), Guillain Barre Syndrome (n=2), pericarditis (n=2), and death (n=5). Of note, these reported cases were pulled from the safety database via the respective MedDRA search criteria and have not necessarily undergone adjudication (e.g. assessment per Brighton Collaboration criteria for level of diagnostic certainty), which is considered appropriate in a setting where the goal of the O/E analysis is signal detection.¹

Given that anaphylaxis is an identified risk, the goal of an observed to expected comparison would not be signal identification but risk estimation. Therefore, spontaneous reports of anaphylaxis are currently undergoing adjudication and O/E analysis for risk estimation will be included in the next summary monthly safety report.

For preliminary signal evaluation, expected case counts were derived from estimated background incidence rates and post-vaccination follow up exposure time (EnCEPP, 2020).² For each AESI, two different background rates were used to reflect the plausible range based on available data and different case definitions.

Person-years (PY) of exposure to Pfizer-BioNTech COVID 19 Vaccine through 31 December 2020 were determined from publicly available information reported on vaccine administration in countries where Pfizer-BioNTech vaccine is authorized (Austria, Bulgaria, Canada, Chile, Costa Rica, Croatia, Denmark, England, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kuwait, Latvia, Lithuania, Luxembourg, Mexico, Northern Ireland, Oman, Poland, Portugal, Romania, Scotland, United States, Wales). This estimate does not reflect exposure in persons vaccinated in countries that did not publicly report. Additionally, the estimate assumes that only the Pfizer-BioNTech vaccine was being administered between authorization and 31 December 2020.

For each event, expected counts were determined assuming 3 risk periods of variable duration reflecting different assumptions regarding the anticipated interval between the vaccination and the potential event: 3, 7, and 21 days resulting in 39359, 75037, and 103164 PY of observation, respectively. Of note, all reported cases for a given event were included in the O/E calculation for all intervals included all events reported, regardless of proximity of event to date of vaccination.

The tables below summarize, for each event, 6 ratios of observed to expected cases determined reflecting the two background rates and 3 risk windows.

For facial paralysis (Bell's palsy) the O/E ratio ranged from 0.26 (95% CI: 0.17, 0.39) to 2.54 (95% CI: 1.61, 3.81).

Observed to expected (O/E) ratio of spontaneously reported facial paralysis events (23 observed cases) through 31 December 2020

Background rate	Risk Period			
(Source)	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)	
0.85/1000PY ¹				
Expected cases	33.4	63.6	87.5	
O/E	0.69	0.36	0.26	
(95% CI)	(0.44, 1.03)	(0.23, 0.54)	(0.17, 0.39)	
$0.23/1000\text{PY}^2$				
Expected N	9.1	17.3	23.7	
O/E	2.54	1.33	0.97	
(95% CI)	(1.61, 3.81)	(0.85, 2.00)	(0.61, 1.45)	

¹ Source: Pfizer internal data AT20105 PANTHER 11062020.xlsx

For seizure (including epilepsy) the O/E ratio ranged from 0.01 (95% CI: <0.01 - 0.02) to 0.18 (95% CI: 0.08, 0.35).

Observed to expected ratio of spontaneously reported seizure events (including epilepsy) (9 observed cases) through 31 December 2020

Background rate	Risk Period		
	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)
9.4/1000PY ¹			
Expected N	370.7	706.7	971.5
O/Ē	0.02	0.01	0.01
(95% CI)	0.01, 0.05	0.01, 0.02	<0.01, 0.02
1.3/1000PY ²			
Expected N	49.5	94.4	129.8
O/Ē	0.18	0.10	0.07
(95% CI)	0.08, 0.35	0.04, 0.18	0.03, 0.13

Source: Pfizer internal data AT20105 PANTHER_11062020.xlsx

² Source: https://www.medscape.com/answers/1146903-20219/what-is-the-incidence-of-bell-palsy-idiopathic-facial-paralysis-ifp-in-the-us (Accessed: 1/5/2021)

² Source: Pfizer internal data PFI SE PNG

For stroke, the O/E ratio ranged from 0.01 (95% CI: <0.01, 0.01) to 0.06 (95% CI: 0.02, 0.13).

Observed to expected ratio of spontaneously reported stroke events (5 observed cases) through 31 December 2020

Background rate	Risk Period		
	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)
9.1/1000PY ¹			
Expected N	359.9	686.1	943.2
O/E	0.01	0.01	0.01
(95% CI)	0.01, 0.03	<0.01, 0.02	< 0.01, 0.01
2.2/1000PY ²			
Expected N	87.5	166.9	229.4
O/Ē	0.06	0.03	0.02
(95% CI)	0.02, 0.13	0.01, 0.07	0.01, 0.05

¹ Source: Pfizer internal data AT20105 PANTHER 11062020.xlsx

For Guillain Barre, the O/E ratio ranged from 0.02 (95% CI: <0.01, 0.08) to 0.37 (95% CI: 0.04, 1.32).

Observed to expected ratio of spontaneously reported Guillain Barre Syndrome events (2 observed cases) through 31 December 2020

Background rate	Risk Period		
	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)
0.85/1000PY ¹			
Expected N	33.5	63.8	87.7
O/E	0.06	0.03	0.02
(95% CI)	0.01, 0.22	< 0.01, 0.11	<0.01, 0.08
$0.14/1000\text{PY}^2$			
Expected N	5.5	10.4	14.3
O/E	0.37	0.19	0.14
(95% CI)	0.04, 1.32	0.02, 0.69	0.02, 0.50

¹ Source: Pfizer internal data AT20105 PANTHER 11062020.xlsx

² Source: Pfizer internal data PFI_SE_PNG

² Source: Pfizer internal data PFI_SE_PNG

For pericarditis, the O/E ratio ranged from 0.05 (95% CI: 0.01, 0.19) to 0.28 (95% CI: 0.03, 1.02).

Observed to expected ratio of spontaneously reported pericarditis events (2 observed cases) through 31 December 2020

Background rate	Risk Period			
-	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)	
0.37/1000PY ¹				
Expected N	14.6	27.9	38.4	
O/Ē	0.14	0.07	0.05	
(95% CI)	0.02, 0.49	0.01, 0.26	0.01, 0.19	
0.18/1000PY ²				
Expected N	7.1	13.5	18.6	
O/Ē	0.28	0.15	0.11	
(95% CI)	0.03, 1.02	0.02, 0.54	0.01, 0.39	

Source: Pfizer Internal Data AT20105 Pericarditis and Mortality

For Death, the O/E ratio ranged from <0.01 (95% CI: <0.01, 0.01) to 0.01(95% CI: <0.01, 0.03).

Observed to expected ratio of spontaneously reported death events (5 observed cases) through 31 December 2020

Background rate	Risk Period		
	3 Days (39359 PY)	7 Days (75037 PY)	21 Days (103164 PY)
12.4/1000PY ¹			
Expected N	486.4	927.4	1275.0
O/Ē	0.01	0.01	< 0.01
(95% CI)	<0.01, 0.02	<0.01, 0.01	< 0.01, 0.01
11.2/1000PY ²			
Expected N	439.3	837.4	1151.3
O/Ē	0.01	0.01	< 0.01
(95% CI)	< 0.01, 0.02	< 0.01, 0.01	< 0.01, 0.01

¹ Source: Pfizer Internal Data AT20105 Pericarditis and Mortality

O/E for all events other than facial palsy are below 1, indicating a lower number of observed events than expected. In some cases this ratio is much less than 1, which may due to several factors including differences in characteristics between persons being vaccinated and those in the background rate populations, e.g., age distributions and comorbidities, underreporting of events via the passive surveillance system, etc. For facial palsy the lower level of the 95% CI is higher than 1 in the analyses using the background rate reported in the literature and a 3-day risk window, suggesting a higher than expected count. Importantly, the 23 observed cases in the numerator of the ratio have not been confirmed via clinical review and are assumed to have started within 3 days of vaccination.

² Source: Elfstrom P, Hamsten A et al. "Cardiomypathy, pericarditis and myocarditis in a population-based cohort of inpatients with coeliac disease", J Intern Med 2007; 262:545-554.

² Source: https://wonder.cdc.gov/controller/datarequest/D76; jsessionid=

⁹⁹⁰A43FE58ACC3B42DE6AD4B0E97 (death rate among those aged 20+): Accessed (1/5/2021)

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Of note since the data lock point for this study, two cases of facial palsy have been invalidated, which would imply a lower O/E. These will be removed from any future analyses. Facial paralysis is currently a safety signal undergoing evaluation.

Several limitations of the observed to expected comparison must be noted. With respect to observed cases, case ascertainment through the spontaneous reports likely reflect an underreporting due to incomplete reporting or a lag in reporting. Additionally, spontaneous surveillance systems are prone to reporting bias whereby events that have been previously identified as potentially related to vaccine, e.g., facial paralysis, are more likely to be reported and potentially reported despite not meeting the clinical definition. Conversely, events that have not been previously associated with a vaccine are likely to be underreported.

With respect to the expected case counts, estimates concerning both exposure to vaccine and the background rate have limitations. Our exposure estimate assumes that the number of reported administrations is complete and accurate when in fact not all countries administering vaccine have reported counts of vaccine administration to the data source. Thus the exposure is underestimated.

The expected count also assumes that the expected incidence rate in the vaccinated population is the same as that in the population used to calculate the background rate. However, the background rates used in this analysis are derived from one large US electronic health records database, one large US insurance claims database, or literature review. It is possible that the delivery of health care, population demographics, and underlying health status of the US populations included in the background rate estimates differ from those expected in the persons administered the vaccine. However to date, the majority of exposure derives from the US. Further, sensitivity analysis were conducted to demonstrate the range of event rates depending on the case definitions among population for background rate calculation.

A final limitation concerns the time at risk for a given event during which an excess of risk occurs in the case of causal association. Three periods (3 days, 7 days, and 21 days) were selected to provide a range of evaluation (i.e. sensitivity analyses) for the number of expected cases, however, observed cases were included regardless of proximity to vaccination which may lead to overestimate if the observed cases occurred outside of the risk period.

¹ Mahaux O. Bauchau V, Van Holle L. Pharmacoepidemiological considerations in observed-to-expected analyses for vaccines. Pharmacoepidemiol Drug Saf 2016; 25(2):215–22.

² The European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (ENCePP). Guide on Methodological Standards in Pharmacoepidemiology (Revision 8). EMA/95098/2010.

³ https://ourworldindata.org/covid-vaccinations#daily-vaccination-rates (accessed 02 January 2021).

APPENDIX 6. LITERATURE REVIEW IN THE REPORTING PERIOD (METHODOLOGY)

A web-based literature review service is used to review medical literature from clinical and non-clinical literature sources for significant safety information relevant to authorized Pfizer medicinal product.

The following bibliographic databases are searched in this order:

- 1. MEDLINE®
- 2. Embase

Each search uses controlled vocabulary terms that are unique to each database. For each database, the search focuses on the following:

- AEs, effects and outcomes
- Generic name of the drug
- Prenatal and perinatal exposure and exposure through breast milk
- Drug interactions
- Clinical studies
- Epidemiology and meta-analyses
- Poisoning and toxicity
- Drug resistance and drug tolerance
- Toxicity tests

Searches are limited by date and by literature type. Reviews, editorials, and news reports (i.e., works consisting of an announcement or statement of recent or current events of new data and matters of interest in the field of medicine or science) are excluded because they are not peer-reviewed.