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Number (%) of Subjects Achieving a ≥ 4 -Fold Rise From Before Vaccination to Each Subsequent Time Point 1 Month After Dose 2 – NT50 – Comparison of Subjects 12 Through 15 Years of Age to Subjects 16 Through 25 Years of Age (Immunogenicity Subset) – Subjects Without Evidence of Infection up to 1 Month After Dose 2 – Dose 2 Evaluable Immunogenicity Population 11

**Summary of Geometric Mean Titers, by Baseline SARS-CoV-2 Status – NT50 –
Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) –
Dose 2 Evaluable Immunogenicity Population**

Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	Vaccine Group (as Randomized)							
			BNT162b2 (30 µg)				Placebo			
			12-15 Years		16-25 Years		12-15 Years		16-25 Years	
n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)			
SARS-CoV-2 neutralization assay - NT50 (titer)	1/Prevax	ALL	155	11 22.2 (10.3, 12.3 20.7, 23.8)	136	10.5 (9.9, 11 21.1 (20.2, 22.0))	29	11.2 (8.9, 14.0 22.3 (18.7, 26.7))	24	10.0 (10.0, 10.0 20.5 (20.5, 20.5))
		POS	8	54.1 (19.7, 148.7 61.0 (26.4, 140.8))	5	38.6 (6.4, 232 45.3 (10.2, 201.9))	1	251.0 (NE, NE)	0	NE (NE, NE)
		NEG	146	10.3 (9.7, 10.9 21.0 (20.0, 22.1))	131	10.0 (10.0, 10.0 20.5 (20.5, 20.5))	27	10.0 (10.0, 10.0 20.5 (20.5, 20.5))	24	10.0 (10.0, 10.0 20.5 (20.5, 20.5))
	2/1 Month	ALL	207	1283.0 (1139.6, 1444.5 1296.4 (1160.4, 1448.4))	185	730.8 (646.7, 825 733.6 (651.0, 826.8))	36	15.1 (10.7, 21.4 27.3 (20.9, 35.6))	32	1021.5 (19.5, 23.7 (9.3, 12.4))
		POS	10	2342.2 (1308.7, 4191.8)	8	1439.2 (727.1, 2848.7)	2	191.0 (1.2, 30873.6)	1	10.0 20.5 (NE, NE)
		NEG	192	1239 1253.2 (1096 1118.6, 1400.5 1404.1)	177	708 711.6 (630.7 (626.4, 802.09))	33	13.1 (9.7, 17.7 24.4 (19.4, 30.8))	31	1021.5 (19.5, 23.8 (9.3, 12.5))

Abbreviations: COVID-19 = coronavirus disease 2019; GMT = geometric mean titer; LLOQ = lower limit of quantitation;
NAAT = nucleic acid amplification test; N-binding = SARS-CoV-2 nucleoprotein-binding; NE = not estimable; NEG = negative;
NT50 = 50% neutralizing titer; POS = positive; Prevax = before vaccination; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.

**Summary of Geometric Mean Titers, by Baseline SARS-CoV-2 Status – NT50 –
Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) –
Dose 2 Evaluable Immunogenicity Population**

		Vaccine Group (as Randomized)								
		BNT162b2 (30 µg)				Placebo				
		12-15 Years		16-25 Years		12-15 Years		16-25 Years		
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	GMT ^d (95% CI ^d)		GMT ^d (95% CI ^d)		GMT ^d (95% CI ^d)		GMT ^d (95% CI ^d)	
			n ^c		n ^c		n ^c		n ^c	

a. Protocol-specified timing for blood sample collection.

b. POS = positive N-binding antibody result at Visit 1, positive NAAT result at Visit 1, or medical history of COVID-19. NEG = negative N-binding antibody result at Visit 1, negative NAAT result at Visit 1, and no medical history of COVID-19. ALL = irrespective of baseline SARS-CoV-2 status, including missing baseline status.

c. n = Number of subjects with valid and determinate assay results for the specified assay at the given dose/sampling time point.

d. GMTs and 2-sided 95% CIs were calculated by exponentiating the mean logarithm of the titers and the corresponding CIs (based on the Student t distribution). Assay results below the LLOQ were set to $0.5 \times$ LLOQ.

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**Summary of Geometric Mean Titers, by Baseline SARS-CoV-2 Status – NT50 –
Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) –
Dose 2 All-Available Immunogenicity Population**

Vaccine Group (as Randomized)										
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	BNT162b2 (30 µg)				Placebo			
			12-15 Years		16-25 Years		12-15 Years		16-25 Years	
			n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)	n ^c	GMT ^d (95% CI ^d)
SARS-CoV-2 neutralization assay - NT50 (titer)	1/Prevax	ALL	156	1122.2 (40.2, 12.3) <u>20.7, 23.8</u>	140	10.5 (9.9, 11) <u>21.1</u> (20.2, 22.0)	29	11.2 (8.9, 14.0) <u>22.3</u> (18.7, 26.7)	25	10.0 (10.0, 10.0) <u>20.5</u> (20.5, 20.5)
		POS	8	54.1 (19.7, 148.7) <u>61.0</u> (26.4, 140.8)	5	38.6 (6.4, 232) <u>45.3</u> (10.2, 201.9)	1	251.0 (NE, NE)	0	NE (NE, NE)
		NEG	147	10.3 (9.7, 10.9) <u>21.0</u> (20.0, 22.1)	135	10.0 (10.0, 10.0) <u>20.5</u> (20.5, 20.5)	27	10.0 (10.0, 10.0) <u>20.5</u> (20.5, 20.5)	25	10.0 (10.0, 10.0) <u>20.5</u> (20.5, 20.5)
	2/1 Month	ALL	208	1284.4 (1141.4, 1445) <u>1297.7</u> (1162.2, 1449.1)	190	726.3 (643.9, 819) <u>729.0</u> (648.0, 820.1)	36	15.1 (10.7, 21.4) <u>27.3</u> (20.9, 35.6)	34	10.7 (9.3, 12.2) <u>21.4</u> (19.6, 23.5)
		POS	10	2342.2 (1308.7, 4191.8)	8	1439.2 (727.1, 2848.7)	2	191.0 (1.2, 30873.6)	1	10.0 <u>20.5</u> (NE, NE)
		NEG	193	1240.9 (1098.7, 1401.5) <u>1254.8</u> (1120.6, 1405.1)	182	704.7 (624.1, 795.9) <u>707.5</u> (628.2, 796.8)	33	13.1 (9.7, 17.7) <u>24.4</u> (19.4, 30.8)	33	10.7 (9.3, 12.3) <u>21.5</u> (19.5, 23.6)

Abbreviations: COVID-19 = coronavirus disease 2019; GMT = geometric mean titer; LLOQ = lower limit of quantitation;
NAAT = nucleic acid amplification test; N-binding = SARS-CoV-2 nucleoprotein-binding; NE = not estimable; NEG = negative;
NT50 = 50% neutralizing titer; POS = positive; Prevax = before vaccination; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.

**Summary of Geometric Mean Titers, by Baseline SARS-CoV-2 Status – NT50 –
Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) –
Dose 2 All-Available Immunogenicity Population**

			Vaccine Group (as Randomized)							
			BNT162b2 (30 µg)				Placebo			
			12-15 Years		16-25 Years		12-15 Years		16-25 Years	
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	n ^c		GMT ^d (95% CI ^d)		n ^c		GMT ^d (95% CI ^d)	

a. Protocol-specified timing for blood sample collection.

b. POS = positive N-binding antibody result at Visit 1, positive NAAT result at Visit 1, or medical history of COVID-19. NEG = negative N-binding antibody result at Visit 1, negative NAAT result at Visit 1, and no medical history of COVID-19. ALL = irrespective of baseline SARS-CoV-2 status, including missing baseline status.

c. n = Number of subjects with valid and determinate assay results for the specified assay at the given dose/sampling time point.

d. GMTs and 2-sided 95% CIs were calculated by exponentiating the mean logarithm of the titers and the corresponding CIs (based on the Student t distribution). Assay results below the LLOQ were set to $0.5 \times \text{LLOQ}$.

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Summary of Geometric Mean Fold Rise From Before Vaccination to Each Subsequent Time Point, by Baseline SARS-CoV-2 Status – NT50 – Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) – Dose 2 Evaluable Immunogenicity Population

Vaccine Group (as Randomized)										
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	BNT162b2 (30 µg)				Placebo			
			12-15 Years		16-25 Years		12-15 Years		16-25 Years	
			n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)
SARS-CoV-2 neutralization assay - NT50 (titer)	2/1 Month	ALL	154	118.3 (101.4, 137.9) (52.5, 69.4)	135	71.2 (61.3, 82.7) (30.6, 41.0)	29	1.4 (1.2) (0.9, 1.6)	24	1.1 (0.9, 1.32)
		POS	8	47.6 (26.4, 86) (24.8, 72.0)	5	47.1 (3.1, 721.4) (47, 437.7)	1	1.1 (NE, NE)	0	NE (NE, NE)
		NEG	145	125.0 (106.1, 146.2) (53.6, 71.5)	130	72 (62.9, 83.2) (30.7, 40.6)	27	1.4 (1.2) (0.9, 1.0, 2.06)	24	1.1 (0.9, 1.32)

Abbreviations: COVID-19 = coronavirus disease 2019; GMFR = geometric mean fold rise; LLOQ = lower limit of quantitation; NAAT = nucleic acid amplification test; N-binding = SARS-CoV-2 nucleoprotein-binding; NE = not estimable; NEG = negative; NT50 = 50% neutralizing titer; POS = positive; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.

- a. Protocol-specified timing for blood sample collection.
- b. POS = positive N-binding antibody result at Visit 1, positive NAAT result at Visit 1, or medical history of COVID-19. NEG = negative N-binding antibody result at Visit 1, negative NAAT result at Visit 1, and no medical history of COVID-19. ALL = irrespective of baseline SARS-CoV-2 status, including missing baseline status.
- c. n = Number of subjects with valid and determinate assay results for the specified assay both prevaccination time points and at the given dose/sampling time point.
- d. GMFRs and 2-sided 95% CIs were calculated by exponentiating the mean logarithm of fold rises and the corresponding CIs (based on the Student t distribution). Assay results below the LLOQ were set to 0.5 × LLOQ in the analysis.

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Summary of Geometric Mean Fold Rise From Before Vaccination to Each Subsequent Time Point, by Baseline SARS-CoV-2 Status – NT50 – Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) – Dose 2 All-Available Immunogenicity Population

Vaccine Group (as Randomized)										
BNT162b2 (30 µg)										
Placebo										
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	12-15 Years		16-25 Years		12-15 Years		16-25 Years	
			n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)
SARS-CoV-2 neutralization assay - NT50 (titer)	2/1 Month	ALL	155	11860.5 (10152.7, 138069.4)	139	7035.0 (30.3, 60.7, 81.5, 40.4)	29	1.4 (1.2 , 0, 1.9, 1.6)	25	1.1 (0.9, 1.32)
		POS	8	47.6 (26.4, 8642.2 (24.8, 72.0))	5	47.140.2 (3.1, 721.47, 437.7)	1	1.1 (NE, NE)	0	NE (NE, NE)
		NEG	146	125.2 (107.2, 146.3)62.0 (53.7, 71.6)	134	7134.8 (30.4, 62.2, 81.9, 40.0)	27	1.4 (2 , 0.9, 1.0, 2.06)	25	1.1 (0.9, 1.32)

Abbreviations: COVID-19 = coronavirus disease 2019; GMFR = geometric mean fold rise; LLOQ = lower limit of quantitation; NAAT = nucleic acid amplification test; N-binding = SARS-CoV-2 nucleoprotein-binding; NE = not estimable; NEG = negative; NT50 = 50% neutralizing titer; POS = positive; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.

- a. Protocol-specified timing for blood sample collection.
- b. POS = positive N-binding antibody result at Visit 1, positive NAAT result at Visit 1, or medical history of COVID-19. NEG = negative N-binding antibody result at Visit 1, negative NAAT result at Visit 1, and no medical history of COVID-19. ALL = irrespective of baseline SARS-CoV-2 status, including missing baseline status.
- c. n = Number of subjects with valid and determinate assay results for the specified assay both prevaccination time points and at the given dose/sampling time point.
- d. GMFRs and 2-sided 95% CIs were calculated by exponentiating the mean logarithm of fold rises and the corresponding CIs (based on the Student t distribution). Assay results below the LLOQ were set to 0.5 × LLOQ in the analysis.

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Summary of Geometric Mean Fold Rise From Before Vaccination to Each Subsequent Time Point, by Baseline SARS-CoV-2 Status – NT50 – Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) – Dose 2 All-Available Immunogenicity Population

		Vaccine Group (as Randomized)								
		BNT162b2 (30 µg)				Placebo				
		12-15 Years		16-25 Years		12-15 Years		16-25 Years		
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)	n ^c	GMFR ^d (95% CI ^d)
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Summary of Geometric Mean Ratio – NT50 – Comparison of Subjects 12 Through 15 Years of Age to Subjects 16 Through 25 Years of Age (Immunogenicity Subset) – Subjects Without Evidence of Infection up to 1 Month After Dose 2 – Dose 2 Evaluable Immunogenicity Population

		Vaccine Group (as Randomized)					
		BNT162b2 (30 µg)					
		12-15 Years		16-25 Years		12-15 Years/16-25 Years	
Assay	Dose/ Sampling Time Point ^a	n ^b	GMT ^c (95% CI ^c)	n ^b	GMT ^c (95% CI ^c)	GMR ^d (95% CI ^d)	Met Noninferiority Objective ^e (Y/N)
SARS-CoV-2 neutralization assay - NT50 (titer)	2/1 Month	190	1239.5 <u>(1095.5, 1402.5)</u> 1253.6 <u>(1117.7, 1406.1)</u>	170	705708.1 <u>(621.4, 800.2)</u> 625.9 <u>801.1</u>	1.7677 <u>(1.4750,</u> 2.1009)	Y

Abbreviations: GMR = geometric mean ratio; GMT = geometric mean titer; LLOQ = lower limit of quantitation; NT50 = 50% neutralizing titer; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.
 Note: Subjects who had no serological or virological evidence (up to 1 month after receipt of the last dose) of past SARS-CoV-2 infection (ie, N-binding

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**Summary of Geometric Mean Ratio – NT50 –
Comparison of Subjects 12 Through 15 Years of Age to Subjects 16 Through 25 Years of Age (Immunogenicity Subset) –
Subjects Without Evidence of Infection up to 1 Month After Dose 2 – Dose 2 Evaluable Immunogenicity Population**

Vaccine Group (as Randomized)

BNT162b2 (30 µg)

Assay	Dose/ Sampling Time Point ^a	12-15 Years		16-25 Years		12-15 Years/16-25 Years	
		n ^b	GMT ^c (95% CI ^c)	n ^b	GMT ^c (95% CI ^c)	GMR ^d (95% CI ^d)	Met Noninferiority Objective ^e (Y/N)

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 up to 1 month after Dose 2 were included in the analysis.

- a. Protocol-specified timing for blood sample collection.
- b. n = Number of subjects with valid and determinate assay results for the specified assay at the given dose/sampling time point.
- c. GMTs and 2-sided 95% CIs were calculated by exponentiating the mean logarithm of the titers and the corresponding CIs (based on the Student t distribution). Assay results below the LLOQ were set to 0.5 × LLOQ.
- d. GMRs and 2-sided 95% CIs were calculated by exponentiating the mean difference of the logarithms of the titers (Group 1 [12-15 years] – Group 2 [16-25 years]) and the corresponding CI (based on the Student t distribution).
- e. Noninferiority is declared if the lower bound of the 2-sided 95% CI for the GMR is greater than 0.67.

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Number (%) of Subjects Achieving a ≥ 4 -Fold Rise From Before Vaccination to Each Subsequent Time Point, by Baseline SARS-CoV-2 Status – NT50 – Subjects 12 Through 15 and 16 Through 25 Years of Age (Immunogenicity Subset) – Dose 2 Evaluable Immunogenicity Population

		Vaccine Group (as Randomized)								
		BNT162b2 (30 µg)				Placebo				
Assay	Dose/ Sampling Time Point ^a	Baseline SARS-CoV-2 Status ^b	12-15 Years		16-25 Years		12-15 Years		16-25 Years	
			N ^c	n ^d (%) (95% CI ^e)	N ^c	n ^d (%) (95% CI ^e)	N ^c	n ^d (%) (95% CI ^e)	N ^c	n ^d (%) (95% CI ^e)
SARS-CoV-2 neutralization assay - NT50 (titer)	2/1 Month	ALL	154	151 (98.1) (94.150 (97.4) (93.5, 99.63)	135	134 (99.130 (96.3) (95.9, 100.091.6, 98.8)	29	1 (3.4) (0.1, 17.8)	24	1 (40 (0.0) (0.0, 14.2) (0.1, 21.1)
		POS	8	8 (100.0) (63.1, 100.0)	5	4 (80.0) (28.4, 99.5)	1	0 (0.0) (0.0, 97.5)	0	0 (NE) (NE, NE)
		NEG	145	142 (97.9) (94.2) (93.1, 99.62)	130	130 (100.0) (97.126 (96.9) (92.3, 99.2, 100.0)	27	1 (3.7) (0.1, 19.0)	24	1 (40 (0.0) (0.0, 14.2) (0.1, 21.1)

Abbreviations: LLOQ = lower limit of quantitation; NE = not estimable; NT50 = 50% neutralizing titer; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.

Note: Baseline assay results below the LLOQ were set to LLOQ in the analysis.

- a. Protocol-specified timing for blood sample collection.
- b. POS = positive N-binding antibody result at Visit 1, positive NAAT result at Visit 1, or medical history of COVID-19. NEG = negative N-binding antibody result at Visit 1, negative NAAT result at Visit 1, and no medical history of COVID-19. ALL = irrespective of baseline SARS-CoV-2 status, including missing baseline status
- c. N = number of subjects with valid and determinate assay results for the specified assay both before vaccination and at the given dose/sampling time point. These values are the denominators for the percentage calculations.
- d. n = Number of subjects with ≥ 4 -fold rise from before vaccination for the given assay at the given dose/sampling time point.
- e. Exact 2-sided CI based on the Clopper and Pearson method.

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Number (%) of Subjects Achieving a ≥ 4 -Fold Rise From Before Vaccination to Each Subsequent Time Point 1 Month After Dose 2 – NT50 – Comparison of Subjects 12 Through 15 Years of Age to Subjects 16 Through 25 Years of Age (Immunogenicity Subset) – Subjects Without Evidence of Infection up to 1 Month After Dose 2 – Dose 2 Evaluable Immunogenicity Population

Assay	Dose/ Sampling Time Point ^a	Vaccine Group (as Randomized)					Difference (95% CI) ^f
		BNT162b2 (30 µg)					
		12-15 Years		16-25 Years		% ^e	
N ^b	n ^c (%) (95% CI) ^d	N ^b	n ^c (%) (95% CI) ^d	% ^e	(95% CI) ^f		
SARS-CoV-2 neutralization assay - NT50 (titer)	2/1 Month	143	140 139 (97.9) (94.2) (93.0, 99.62)	124	124 (100.0) (97.120 (96.8) (91.9, 99.1, 100.0)	-2.1 0.4	(-6.0, 0.94.2, 5.5)

Abbreviations: LLOQ = lower limit of quantitation; NT50 = 50% neutralizing titer; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2.
 Note: Subjects who had no serological or virological evidence (up to 1 month after receipt of the last dose) of past SARS-CoV-2 infection (ie, 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 up to 1 month after Dose 2 were included in the analysis.

Note: Baseline assay results below the LLOQ were set to LLOQ in the analysis.

- a. Protocol-specified timing for blood sample collection.
- b. N = number of subjects with valid and determinate assay results for the specified assay both before vaccination and at the given dose/sampling time point. These values are the denominators for the percentage calculations.
- c. n = Number of subjects with ≥ 4 -fold rise from before vaccination for the given assay at the given dose/sampling time point.
- d. Exact 2-sided CI based on the Clopper and Pearson method.
- e. Difference in proportions, expressed as a percentage (12-15 years – 16-25 years).
- f. 2-Sided CI, based on the Miettinen and Nurminen method for the difference in proportions, expressed as a percentage.

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