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# SARS-CoV-2 Disease Severity and Cycle Threshold Values in Children Infected during Pre-Delta, Delta, and Omicron Periods, Colorado, USA, 2021–2022

## Appendix

### Supplementary Methods

#### Library preparation and whole genome sequencing

Whole genome sequencing was performed on either an Oxford Nanopore (ONT) GridION instrument (Oxford Nanopore Technologies, Oxford, UK) or an Illumina NextSeq 550 instrument (Illumina, San Diego, CA, USA) on all samples that met sequencing criteria (N gene Ct of 28 or less). For samples sequenced on ONT GridION, library preparation for whole genome sequencing was performed following the ARTIC tiled PCR amplicon sequencing protocol.

For samples that were sequenced on the ONT GridION, an internally optimized version of the ARTIC V3 protocol for Illumina was followed, through the “Amplified cDNA SPRI” section (1), and then the ARTIC V3 protocol for ONT beginning at the “native barcoding” section (2), followed by sequencing on the ONT GridION.

For samples that were sequenced on the NextSeq 550, library preparation and single-end Illumina sequencing were performed following an internally optimized version of the Illumina COVID-Seq assay (3).

## Bioinformatic analysis of whole genome sequencing data

All of our bioinformatics workflows were written in WDL (Workflow Development Language), are compatible with Google Cloud and the Broad Institute's terra.bio platform (4), and have been made publicly available on github (5) and dockstore (6). For samples sequenced on ONT GridION, quality filtering and trimming of reads and reference-guided assembly were performed using our nanopore-preprocessing-assembly.wdl workflow. For samples sequenced on Illumina NextSeq, quality filtering and trimming of reads and reference-guided assembly were performed using our COVIDseqSEassembly.wdl workflow. Lineage assignment was performed on all resulting consensus genome assemblies using our classifyCOVIDlineage.wdl, which uses NextClade and Pangolin to assign clade and lineage information. Among sequenced samples, we obtained a mean base quality of 29.4 (SD 6.6), mean number of filtered reads per sample of 392,256.01 (SD 397,572.6), mean sequencing depth of 1013.2 (SD 719.6), mean mapping quality of 59.9 (SD 0.4), and mean percent reference coverage of 94.3 (SD 7.8). All sequenced samples with at least 50% coverage were made publicly available on GISAID and NCBI (Table S1).

## References

1. DNA Pipelines R&D, Farr B, Rajan D, Betteridge E, Shirley L, Quail M, et al. COVID-19 ARTIC v3 Illumina library construction and sequencing protocol. 2020 Nov 4 [cited 2022 Feb 15]. <https://www.protocols.io/view/covid-19-artic-v3-illumina-library-construction-an-j8nlke66515r/v5>
2. Quick J. nCoV-2019 sequencing protocol v3 (LoCost). 2020 Aug 25 [cited 2022 Feb 15]. <https://www.protocols.io/view/ncov-2019-sequencing-protocol-v3-locost-bp2l6n26rgqe/v3>
3. Illumina CovidSeq Test Instructions for use [cited 2022 Feb 15]. [https://support.illumina.com/content/dam/illumina-support/documents/documentation/chemistry\\_documentation/Illumina-COVIDSeq-Test/illumina-covidseq-test-instructions-for-use-1000000128490-03.PDF](https://support.illumina.com/content/dam/illumina-support/documents/documentation/chemistry_documentation/Illumina-COVIDSeq-Test/illumina-covidseq-test-instructions-for-use-1000000128490-03.PDF).
4. The Broad Institute. Terra [cited 2022 Feb 22]. <https://app.terra.bio/>.
5. Colorado Department of Public Health and Environment. CDPHE-bioinformatics/CDPHE-SARS-CoV-2 [cited 2022 Feb 22]. <https://github.com/CDPHE-bioinformatics/CDPHE-SARS-CoV-2>

6. Colorado Department of Public Health and Environment. CDPHEsarscov2 [cited 2022 Feb 22].

<https://dockstore.org/organizations/CDPHE/collections/CDPHEsarscov2>.

**Appendix Table 1.** NCBI and GISAID accession IDs for all samples that were successfully sequenced to at least 50% reference genome coverage and submitted to public repositories

BioProject	BioSample	SRA	GenBank	GISAID
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PRJNA686984	SAMN25344531	SRR17797549	OM439419	EPI_ISL_9183793
PRJNA686984	SAMN25344639	SRR17797838	OM439304	EPI_ISL_9183901
PRJNA686984	SAMN25344423	SRR17797973	OM439350	EPI_ISL_9183685
PRJNA686984	SAMN25344802	SRR17797460	OM439554	EPI_ISL_9184063
PRJNA686984	SAMN25344781	SRR17797693	OM439388	EPI_ISL_9184042
PRJNA686984	SAMN25344754	SRR17797781	OM439197	EPI_ISL_9184016
PRJNA686984	SAMN25344691	SRR17797478	OM439093	EPI_ISL_9183953
PRJNA686984	SAMN25344388	SRR17797907	OM439056	EPI_ISL_9183650
PRJNA686984	SAMN25344427	SRR17797968	OM438912	EPI_ISL_9183689
PRJNA686984	SAMN25344525	SRR17797556	OM439311	EPI_ISL_9183787
PRJNA686984	SAMN25344582	SRR17797528	OM439037	EPI_ISL_9183844
PRJNA686984	SAMN25344399	SRR17797895	OM438885	EPI_ISL_9183661
PRJNA686984	SAMN25344550	SRR17797738	OM439254	EPI_ISL_9183812
PRJNA686984	SAMN25344379	SRR17797917	OM439146	EPI_ISL_9183641
PRJNA686984	SAMN25344536	SRR17797753	OM439418	EPI_ISL_9183798
PRJNA686984	SAMN25343561	SRR17797146	OM438319	EPI_ISL_9182773
PRJNA686984	SAMN25344541	SRR17797748	OM438924	EPI_ISL_9183803
PRJNA686984	SAMN25329775	SRR17791690	OM422569	EPI_ISL_9153683
PRJNA686984	SAMN25329758	SRR17791088	OM422587	EPI_ISL_9153666
PRJNA686984	SAMN25343808	SRR17797071	OM438720	EPI_ISL_9183019
PRJNA686984	SAMN25330119	SRR17791556	OM422128	EPI_ISL_9154027
PRJNA686984	SAMN25330297	SRR17791217	OM422250	EPI_ISL_9154200
PRJNA686984	SAMN25330036	SRR17791295	OM422190	EPI_ISL_9153944
PRJNA686984	SAMN26546052	SRR18300135	OM992920	EPI_ISL_10601154
PRJNA686984	SAMN26103479	SRR18082383	OM796622	EPI_ISL_10088665
PRJNA686984	SAMN26279698	SRR18155626	OM844578	EPI_ISL_10299985
PRJNA686984	SAMN26279587	SRR18155845	OM844443	EPI_ISL_10300145
PRJNA686984	SAMN26279586	SRR18155846	OM844674	EPI_ISL_10300144
PRJNA686984	SAMN26434319	SRR18229544	ON355698	EPI_ISL_10605449
PRJNA686984	SAMN26106121	SRR18084123	OM798525	EPI_ISL_10090818
PRJNA686984	SAMN26284872	SRR18157613	OM851609	EPI_ISL_10408978
PRJNA686984	SAMN26284894	SRR18157913	OM851233	EPI_ISL_10409000
PRJNA686984	SAMN26284788	SRR18157262	OM851623	EPI_ISL_10408895
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PRJNA686984	SAMN26285106	SRR18157534	OM851562	EPI_ISL_10409212
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PRJNA686984	SAMN26284527	SRR18157524	OM851099	EPI_ISL_10408635
PRJNA686984	SAMN26284682	SRR18157272	OM851549	EPI_ISL_10408789
PRJNA686984	SAMN26106172	SRR18084433	OM798406	EPI_ISL_10090869
PRJNA686984	SAMN26284925	SRR18157771	OM851326	EPI_ISL_10409031
PRJNA686984	SAMN26284910	SRR18157895	OM851452	EPI_ISL_10409016
PRJNA686984	SAMN26285027	SRR18157874	OM851564	EPI_ISL_10409133
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PRJNA686984	SAMN26284878	SRR18157606	OM851597	EPI_ISL_10408984
PRJNA686984	SAMN26284499	SRR18157618	OM851110	EPI_ISL_10408607
PRJNA686984	SAMN26284848	SRR18157640	OM851641	EPI_ISL_10408954
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PRJNA686984	SAMN26348200	SRR18188175	OM887178	EPI_ISL_10256989
PRJNA686984	SAMN26103093	SRR18081000	OM800205	EPI_ISL_10092002
PRJNA686984	SAMN26102941	SRR18081169	OM800457	EPI_ISL_10091850
PRJNA686984	SAMN26102800	SRR18081073	OM800789	EPI_ISL_10091709
PRJNA686984	SAMN26102877	SRR18081564	OM800700	EPI_ISL_10091786

BioProject	BioSample	SRA	GenBank	GISAID
PRJNA686984	SAMN26103041	SRR18081202	OM800502	EPI_ISL_10091950
PRJNA686984	SAMN26102782	SRR18081022	OM800419	EPI_ISL_10091691
PRJNA686984	SAMN26102875	SRR18081567	OM800275	EPI_ISL_10091784
PRJNA686984	SAMN26434410	SRR18583580	ON304655	EPI_ISL_10605541
PRJNA686984	SAMN26434288	SRR18583603	ON304664	EPI_ISL_10605417
PRJNA686984	SAMN26434724	SRR18583600	ON304675	EPI_ISL_10605860
PRJNA686984	SAMN26434716	SRR18583601	ON304614	EPI_ISL_10605852
PRJNA686984	SAMN26434418	SRR18583645	ON304676	EPI_ISL_10605549
PRJNA686984	SAMN26434694	SRR18583619	ON304632	EPI_ISL_10605830
PRJNA686984	SAMN26434453	SRR18583564	ON304683	EPI_ISL_10605585
PRJNA686984	SAMN26434295	SRR18583598	ON304630	EPI_ISL_10605424
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PRJNA686984	SAMN26434605	SRR18583595	ON304663	EPI_ISL_10605739
PRJNA686984	SAMN26434528	SRR18583594	ON304657	EPI_ISL_10605661
PRJNA686984	SAMN26434840	SRR18583591	ON304669	EPI_ISL_10605978
PRJNA686984	SAMN26434476	SRR18583590	ON304646	EPI_ISL_10605608
PRJNA686984	SAMN26434294	SRR18583466	ON304690	EPI_ISL_10605423
PRJNA686984	SAMN26434602	SRR18583589	ON304689	EPI_ISL_10605736
PRJNA686984	SAMN26434400	SRR18583587	ON304618	EPI_ISL_10605531
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PRJNA686984	SAMN26434702	SRR18583560	ON304641	EPI_ISL_10605838
PRJNA686984	SAMN26434286	SRR18583556	ON304621	EPI_ISL_10605415
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PRJNA686984	SAMN26434274	SRR18583530	ON304692	EPI_ISL_10605403
PRJNA686984	SAMN26434469	SRR18583573	Not submitted	EPI_ISL_10605601
PRJNA686984	SAMN26434469	SRR18583573	Not submitted	EPI_ISL_10605601
PRJNA686984	SAMN26434665	SRR18583572	ON304624	EPI_ISL_10605800
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PRJNA686984	SAMN26434739	SRR18583568	ON304642	EPI_ISL_10605876
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PRJNA686984	SAMN26434776	SRR18583565	ON304599	EPI_ISL_10605913
PRJNA686984	SAMN26434890	SRR18583606	ON304684	EPI_ISL_10606027
PRJNA686984	SAMN26434709	SRR18583586	ON304651	EPI_ISL_10605845
PRJNA686984	SAMN26434296	SRR18583563	ON304605	EPI_ISL_10605425
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PRJNA686984	SAMN26102933	SRR18081178	OM800563	EPI_ISL_10091842
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PRJNA686984	SAMN26102955	SRR18081262	OM800565	EPI_ISL_10091864
PRJNA686984	SAMN26102835	SRR18081287	OM800583	EPI_ISL_10091744
PRJNA686984	SAMN26102892	SRR18081547	OM800422	EPI_ISL_10091801
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PRJNA686984	SAMN26434805	SRR18583639	ON304693	EPI_ISL_10605943
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PRJNA686984	SAMN26102987	SRR18081513	OM800708	EPI_ISL_10091896
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PRJNA686984	SAMN26102830	SRR18081292	OM800699	EPI_ISL_10091739
PRJNA686984	SAMN26102944	SRR18081166	OM800596	EPI_ISL_10091853
PRJNA686984	SAMN26102796	SRR18081078	OM800553	EPI_ISL_10091705
PRJNA686984	SAMN26102862	SRR18081581	OM800497	EPI_ISL_10091771
PRJNA686984	SAMN26102898	SRR18081540	OM800374	EPI_ISL_10091807

BioProject	BioSample	SRA	GenBank	GISAID
PRJNA686984	SAMN26103030	SRR18081214	OM800204	EPI_ISL_10091939
PRJNA686984	SAMN26102976	SRR18081239	OM800288	EPI_ISL_10091885
PRJNA686984	SAMN26102805	SRR18081068	OM800818	EPI_ISL_10091714
PRJNA686984	SAMN26102845	SRR18081276	OM800656	EPI_ISL_10091754
PRJNA686984	SAMN26102912	SRR18081525	OM800362	EPI_ISL_10091821
PRJNA686984	SAMN26102931	SRR18081180	OM800741	EPI_ISL_10091840
PRJNA686984	SAMN26275125	SRR18153895	OM855273	EPI_ISL_10253511
PRJNA686984	SAMN26348084	SRR18188520	OM887359	EPI_ISL_10256873
PRJNA686984	SAMN26348517	SRR18188363	OM886923	EPI_ISL_10257305
PRJNA686984	SAMN26348500	SRR18188382	OM887160	EPI_ISL_10257288
PRJNA686984	SAMN26348208	SRR18188165	OM887006	EPI_ISL_10256997
PRJNA686984	SAMN26275089	SRR18153792	OM854907	EPI_ISL_10253475
PRJNA686984	SAMN26275040	SRR18154014	OM855185	EPI_ISL_10253425
PRJNA686984	SAMN26275022	SRR18154034	OM855136	EPI_ISL_10253406
PRJNA686984	SAMN26274953	SRR18153853	OM855104	EPI_ISL_10253335
PRJNA686984	SAMN26274920	SRR18153751	OM855299	EPI_ISL_10253302
PRJNA686984	SAMN26275464	SRR18154192	OM855006	EPI_ISL_10253853
PRJNA686984	SAMN26275018	SRR18154039	OM854883	EPI_ISL_10253402
PRJNA686984	SAMN26275552	SRR18154346	OM854938	EPI_ISL_10253944
PRJNA686984	SAMN26275455	SRR18154202	OM855531	EPI_ISL_10253844
PRJNA686984	SAMN26275201	SRR18153738	OM855402	EPI_ISL_10253589
PRJNA686984	SAMN26275050	SRR18154003	Not submitted	EPI_ISL_10253436
PRJNA686984	SAMN26275104	SRR18153774	OM855181	EPI_ISL_10253489
PRJNA686984	SAMN26275078	SRR18153804	OM854924	EPI_ISL_10253464
PRJNA686984	SAMN26275483	SRR18154171	OM855288	EPI_ISL_10253873
PRJNA686984	SAMN26275333	SRR18154265	OM855133	EPI_ISL_10253721
PRJNA686984	SAMN26275037	SRR18154018	OM855077	EPI_ISL_10253422
PRJNA686984	SAMN26288197	SRR18160456	OM859657	EPI_ISL_10410831
PRJNA686984	SAMN26434396	SRR18229622	ON355861	EPI_ISL_10605527
PRJNA686984	SAMN26587630	SRR18311947	OM997633	EPI_ISL_10954633
PRJNA686984	SAMN26587288	SRR18312039	OM997555	EPI_ISL_10954293
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PRJNA686984	SAMN26587421	SRR18311999	OM998074	EPI_ISL_10954426
PRJNA686984	SAMN26587390	SRR18312214	OM997608	EPI_ISL_10954395
PRJNA686984	SAMN26587370	SRR18312236	OM998051	EPI_ISL_10954375
PRJNA686984	SAMN26945808	SRR18484805	ON078298	EPI_ISL_11103755
PRJNA686984	SAMN27060310	SRR18525837	ON102421	EPI_ISL_11435444
PRJNA686984	SAMN27278305	SRR18589237	ON201549	EPI_ISL_11627109

**Appendix Table 2.** Descriptive characteristics of 1,177 children with positive SARS-CoV-2 tests, Colorado, January 2021-January 2022 that were successfully sequenced and received a lineage call\*

Characteristic	Total	Lineage group			p value†
		Other	Delta	Omicron	
Total population	1,177	189	654	334	-
Sex					
F	379 (32.2) [29.5–34.9]	88 (46.7) [39.3–53.9]	246 (37.6) [33.9–41.5]	81 (24.2) [19.8–29.1]	0.94
M	431 (36.6) [33.9–39.4]	97 (51.3) [44.0–58.6]	286 (43.7) [39.9–47.6]	90 (26.9) [22.3–32.1]	
Median age, y (range)	5.7 (0–20.9)	10.6 (0–20.2)	6.1 (0–20.1)	2.2 (0–20.9)	-
Racial-ethnic group					
Hispanic All Races	235 (19.9) [17.7–22.4]	54 (28.6) [22.3–35.6]	159 (24.3) [21.1–27.8]	49 (14.7) [11.1–18.9]	-
Non-Hispanic White	296 (25.2) [22.7–27.7]	87 (46.0) [38.8–53.4]	205 (31.3) [27.8–35.1]	36 (10.8) [7.7–14.6]	<0.0001
Non-Hispanic Black	61 (5.2) [4.0–6.6]	13 (6.9) [3.7–11.5]	33 (5.0) [3.5–7.0]	20 (6.0) [3.7–9.1]	
Non-Hispanic Asian	24 (2.0) [1.1–3.0]	8 (4.2) [1.8–8.2]	12 (1.8) [1.0–3.2]	6 (1.8) [0.7–3.9]	
Unknown‡	420 (35.7) [32.9–38.5]	12 (6.3) [3.3–10.3]	204 (31.2) [27.7–34.9]	209 (63.6) [57.1–67.8]	
Hospitalization status					
Outpatient	1,053 (89.5) [87.6–91.2]	148 (78.3) [71.7–84.0]	586 (89.6) [87.0–91.8]	260 (78.1) [73.0–82.2]	<0.0001
Inpatient	183 (15.5) [13.5–17.8]	41 (21.7) [16.0–28.3]	68 (10.4) [8.2–13.0]	74 (22.2) [17.8–27.0]	
Any comorbidity (inpatient only)§	114 (62.3) [54.9–69.3]	29 (70.7) [54.5–83.9]	42 (61.8) [49.2–73.3]	43 (58.2) [46.1–69.5]	0.41
Median time from symptom onset to testing, d (range)	2 (–2 to 320)	2 (0–19)	2 (–2 to 320)	2 (–2 to 15)	-

\*Values are no. (%) [95% CI] except as indicated.

†P values were obtained from  $\chi^2$  test of patient characteristics across the 3 variant periods.

‡Unknown racial-ethnic group includes individuals with unknown, unknown or not reported, or missing race or ethnicity variables. NH = Non-Hispanic.

§Any comorbidity includes past medical history of cardiac, respiratory, gastrointestinal/liver, neurologic, oncologic, obesity, chronic kidney disease, diabetes, or other comorbid condition.

**Appendix Table 3.** Descriptive characteristics of 2,299 children with positive SARS-CoV-2 tests, Colorado, January 2021–January 2022 based on whether Ct values were able to be collected\*

Characteristic	Total	Ct collected	Ct not collected	p value†
Total population	2299	1796	503	-
Sex				
F	923 (40.1) [38.1–42.2]	677 (37.7) [35.5–40.0]	247 (49.1) [44.7–53.6]	0.81
M	945 (41.1) [39.1–43.2]	697 (38.8) [36.6–41.1]	248 (49.3) [44.9–53.8]	
Median age, y (range)	6.5 [0–21]	6.8 [0–21]	5.9 [0–19.8]	-
Racial-ethnic group				
Hispanic All Races	560 (24.4) [22.6–26.2]	405 (22.6) [20.6–24.6]	155 (30.8) [26.8–35.1]	-
Non-Hispanic White	750 (32.6) [30.7–34.6]	527 (29.3) [27.2–31.5]	223 (44.7) [39.9–48.8]	<0.0001
Non-Hispanic Black	135 (5.9) [5.0–6.9]	103 (5.7) [4.7–6.9]	32 (6.4) [4.4–8.9]	
Non-Hispanic Asian	43 (1.9) [1.4–2.5]	32 (1.8) [1.2–2.5]	11 (2.2) [1.1–3.9]	
Unknown‡	673 (29.3) [27.4–31.2]	450 (25.2) [23.1–27.1]	53 (10.5) [8.0–13.6]	
Hospitalization status				
Outpatient	1629 (70.9) [69.0–72.7]	1434 (79.8) [77.9–81.7]	195 (38.8) [34.5–43.2]	<0.0001
Inpatient	670 (29.1) [27.3–31.1]	362 (20.2) [18.3–22.1]	308 (61.2) [56.9–65.5]	
Any comorbidity§ (inpatient only)	383 (57.2) [53.3–61.0]	219 (60.5) [55.5–65.5]	183 (59.4) [53.7–65.0]	0.06
Median time from symptom onset to testing, d (range)	2 (-29 to 320)	2 (-2 to 320)	2 (-29 to 85)	-

\*Values are no. (%) [95% CI] except as indicated. Ct, cycle threshold.

†P values were obtained from  $\chi^2$  test of patient characteristics on the basis of whether a Ct value was collected.

‡Unknown racial-ethnic group includes individuals with unknown, unknown or not reported, or missing race or ethnicity variables.

§Any comorbidity includes past medical history of cardiac, respiratory, gastrointestinal/liver, neurologic, oncologic, obesity, chronic kidney disease, diabetes, or other comorbid condition.

**Appendix Table 4.** Proportions of inpatients by lineage group and potential indicator of disease severity, Colorado, January 2021–January 2022 for samples that were successfully sequenced and received a lineage call

Indicator of disease severity*	No. (%) [95% CI]				p value†
	Total (n = 112)	Other (n = 21)	Delta (n = 41)	Omicron (n = 50)	
Symptomatic	111 (99.1) [95.1–100]	21 (100) [83.9–100]	40 (97.6) [87.1–99.9]	50 (100) [92.9–100]	0.02
Hospitalized	112 (100) [96.8–100]	21 (100) [83.9–100]	41 (100) [91.4–100]	50 (100) [92.9–100]	1.0
PICU admitted	35 (31.1) [22.8–40.7]	7 (33.3) [14.6–57.0]	17 (41.4) [26.3–57.9]	11 (22.0) [11.5–36.0]	0.11
Received any oxygen support	75 (67.0) [57.4–75.6]	14 (66.7) [43.0–85.4]	29 (70.7) [54.5–83.9]	32 (64.0) [49.2–77.1]	0.79

\*All indicators of disease severity included here were considered to be because of COVID-19 illness.

†P values were obtained from  $\chi^2$  test of patient characteristics across the 3 variant periods.

**Appendix Table 5.** Proportions of inpatients by lineage group and potential indicator of disease severity, Colorado, January 2021–January 2022 separated by whether Ct values were able to be collected.

Indicators of disease severity*	No. (%) [95% CI]			p value†
	Total (n = 395)	Ct collected (n = 184)	Ct not collected (n = 181)	
Symptomatic	343 (86.8) [83.1–90.0]	172 (93.5) [88.9–96.6]	171 (94.5) [90.1–97.3]	0.57
Hospitalized	395 (100) [99.1–100]	184 (100) [98.0–100]	181 (100) [98.0–100]	1.0
PICU Admitted	94 (23.8) [19.7–28.3]	58 (31.5) [24.9–38.8]	36 (19.9) [14.3–26.5]	0.12
Received any oxygen support	217 (54.9) [49.9–59.9]	113 (61.4) [54.0–68.5]	104 (57.5) [49.9–64.8]	0.51

\*All indicators of disease severity included here were considered to be because of COVID-19 illness.

†P values were obtained from  $\chi^2$  test of patient characteristics on the basis of whether a Ct value was collected.

**Appendix Table 6.** Statistical analysis of N gene Ct values are response variables and predictor variables of time frame, race/ethnicity group, age bin, sex, days between symptom onset and test (onset\_days\_bin), patient type (includes outpatient, inpatient with COVID-19, and inpatient due to COVID-19), vaccination status, symptoms, hospital stay duration, comorbidity, PICU admission, and receipt of oxygen support\*

Analysis	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code†
<b>Analysis of Covariance (ANCOVA):</b>						
Response N gene Ct:						
age_bin	3	312.9	104.304	1.3534	0.25669	
age_bin:onset_days_bin	8	804	100.496	1.304	0.23972	
age_bin:race_ethnicity_group	15	1132	75.465	0.9792	0.47638	
age_bin:symptomatic	3	152.5	50.818	0.6594	0.57746	
age_bin:time_frame	6	414.7	69.11	0.905	0.491514	
age_bin:vax_any	2	81.6	40.809	0.5295	0.58931	
onset_days_bin	3	562.3	187.447	2.4322	0.06465	.
onset_days_bin:race_ethnicity_group	13	924.3	71.096	0.9225	0.52947	
onset_days_bin:time_frame	6	1490.1	248.35	3.2523	0.004113	**
onset_days_bin:vax_any	3	382.2	127.398	1.653	0.17665	
patient_type	2	114.3	57.149	0.7415	0.47704	
patient_type:age_bin	6	472	78.667	1.0207	0.41118	
patient_type:onset_days_bin	6	657.7	109.61	1.4222	0.20466	
patient_type:sex	2	126.2	63.108	0.8189	0.44168	
patient_type:race_ethnicity_group	9	642.4	71.374	0.9261	0.50214	
patient_type:vax_any	2	109.7	54.849	0.7117	0.49144	
patient_type:time_frame	4	223.2	55.79	0.7306	0.571639	
sex	1	44.3	44.252	0.5742	0.44905	
sex:age_bin	3	163.8	54.601	0.7085	0.54739	
sex:onset_days_bin	3	267.7	89.247	1.158	0.32556	
sex:race_ethnicity_group	5	55.8	11.155	0.1447	0.98152	
sex:symptomatic	1	148.1	148.104	1.9217	0.16645	
sex:time_frame	2	307.1	153.53	2.0106	0.135712	
sex:vax_any	1	21.8	21.752	0.2822	0.59553	
race_ethnicity_group	5	70.8	14.168	0.1838	0.96864	
race_ethnicity_group:time_frame	10	562.1	56.21	0.7361	0.690231	
symptomatic	1	4.3	4.26	0.0553	0.81425	
symptomatic:race_ethnicity_group	4	591.7	147.928	1.9194	0.10639	
symptomatic:time_frame	2	12	6.02	0.0788	0.924244	
symptomatic:vax_any	1	179.5	179.45	2.3284	0.12783	
time_frame	2	248.7	124.37	1.6286	0.197928	
vax_any	1	0.5	0.513	0.0067	0.93501	
vax_any:race_ethnicity_group	5	323.9	64.771	0.8404	0.52158	
vax_any:time_frame	2	179.9	89.95	1.1779	0.309332	
Response N gene Ct (inpatient only)‡:	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code
any_comorbidity	1	21.7	21.748	0.3045	0.58193	
any_comorbidity:picu_due_to_covid	1	0.1	0.09	0.0013	0.97168	
any_comorbidity:respiratory_support_any	1	27	26.993	0.3779	0.53968	
hospital_duration_bins	2	44.8	22.405	0.3137	0.73125	
hospital_duration_bins:any_comorbidity	2	357.6	178.785	2.503	0.08534	.
hospital_duration_bins:picu_due_to_covid	1	20.3	20.26	0.2837	0.59513	
hospital_duration_bins:respiratory_support_any	1	17.4	17.423	0.2439	0.62213	
picu_due_to_covid	1	0	0.001	0	0.99724	
picu_due_to_covid:respiratory_support_any	1	57.6	57.621	0.8067	0.37057	
respiratory_support_any	1	3.3	3.323	0.0465	0.82953	
time_frame	2	16.6	8.294	0.1161	0.89045	
time_frame:any_comorbidity	2	1.8	0.922	0.0129	0.98718	
time_frame:hospital_duration_bins	4	308.7	77.183	1.0806	0.36836	
time_frame:picu_due_to_covid	2	150.3	75.166	1.0523	0.35175	
time_frame:respiratory_support_any	2	0.6	0.28	0.0039	0.99608	
<b>Analysis of Variance (ANOVA)§:</b>						
Response N gene Ct:						
time_frame (one-way)	2	916	458	9.972	6.30E-05	***
age_bin	3	1591	530.3	11.662	1.60E-07	***
age_bin:time_frame	6	770	128.3	2.822	0.00994	**
vax_any	1	260	260.2	5.749	0.0166	*
time_frame:vax_any	2	62	31	0.685	0.5043	
symptomatic	1	96	96.14	2.098	0.1478	
symptomatic:time_frame	2	208	103.87	2.266	0.1042	
onset_days_bin	2	1284	641.9	16.582	9.85E-08	***
onset_days_bin:time_frame	4	256	64.1	1.656	0.159	
patient_type	1	54	54.09	1.248	0.2641	
patient_type:time_frame	2	163	81.53	1.881	0.1529	

Analysis	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code†
Response N gene Ct (inpatient only):	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code
picu_due_to_covid	1	17	17.06	0.42	0.5179	
picu_due_to_covid:time_frame	2	53	26.42	0.65	0.5233	
respiratory_support_any	1	558	557.7	13.028	0.000371	***
respiratory_support_any:time_frame	2	274	136.8	3.196	0.042622	*
hospital_duration_bins	2	45	22.4	0.323	0.724	
time_frame:hospital_duration_bins	4	306	76.53	1.104	0.356	
any_comorbidity	1	10	10.1	0.144	0.704	
time_frame:any_comorbidity	2	16	7.85	0.112	0.894	

\*Predictor variables and covariates are separated by a colon. While all possible pairwise comparisons were performed within data categories across variant periods, comparisons considered in this study include those between categories but within variant period (e.g., age groups within Delta) and the same category across variant periods (e.g., 1–4 y olds across pre-Delta, Delta, and Omicron). As such, comparisons not relevant to the current study were not included in post-hoc test<sup>††</sup> (e.g., 12+ years during Omicron vs. <1 y during Delta). Ct, cycle threshold; N, nucleocapsid; PICU, pediatric intensive care unit.

†Significance codes: 0.001 '\*\*\*', 0.01 '\*\*', 0.05 '\*', 0.1 '.', 1 ''.

‡Inpatient because of COVID-19.

§Two-way ANOVA unless otherwise noted, ANOVAs were followed up with post-hoc Tukey HSD, p values from post-hoc tests are presented in the figures and text.

**Appendix Table 7.** Statistical analysis of N gene Ct values are response variables and predictor variables of sequenced lineage, race/ethnicity group, age bin, sex, days between symptom onset and test (onset\_days\_bin), patient type (includes outpatient, inpatient with COVID-19, and inpatient due to COVID-19), vaccination status, symptoms, hospital stay duration, comorbidity, PICU admission, and receipt of oxygen support\*

Analysis	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code†
Analysis of Covariance (ANCOVA)						
Response N gene Ct						
age_bin	3	223.7	74.573	4.3261	0.005572	**
age_bin:lineage	6	35.5	5.911	0.3429	0.913406	
age_bin:onset_days_bin	6	44	7.329	0.4252	0.861676	
age_bin:race_ethnicity_group	15	428.6	28.572	1.6575	0.062045	.
age_bin:symptomatic	3	22.2	7.385	0.4284	0.732864	
age_bin:vax_any	2	11.1	5.57	0.3231	0.724247	
lineage	2	551.7	275.848	16.0023	3.58E-07	***
onset_days_bin	3	134.6	44.881	2.6036	0.053081	.
onset_days_bin:lineage	4	55.8	13.957	0.8096	0.520317	
onset_days_bin:race_ethnicity_group	7	71.1	10.156	0.5892	0.764341	
onset_days_bin:vax_any	3	26.1	8.705	0.505	0.679257	
patient_type	2	52.7	26.339	1.5279	0.219505	
patient_type:age_bin	6	134.3	22.39	1.2988	0.25926	
patient_type:lineage	4	92.5	23.126	1.3416	0.255831	
patient_type:onset_days_bin	5	131.2	26.231	1.5217	0.184563	
patient_type:sex	2	15.7	7.865	0.4562	0.634319	
patient_type:race_ethnicity_group	8	156.8	19.603	1.1372	0.339838	
patient_type:vax_any	2	33.1	16.572	0.9614	0.384126	
sex	1	124.2	124.175	7.2036	0.007886	**
sex:age_bin	3	29.1	9.702	0.5628	0.640131	
sex:lineage	2	6.4	3.192	0.1852	0.8311	
sex:onset_days_bin	3	80.2	26.726	1.5504	0.202738	
sex:race_ethnicity_group	5	140.2	28.041	1.6267	0.154491	
sex:symptomatic	1	1.8	1.783	0.1035	0.748058	
sex:vax_any	1	2.5	2.494	0.1447	0.704102	
race_ethnicity_group	5	29.2	5.831	0.3383	0.889311	
race_ethnicity_group:lineage	10	112.9	11.285	0.6547	0.765354	
symptomatic	1	28.2	28.224	1.6373	0.202175	
symptomatic:lineage	2	69	34.52	2.0025	0.137692	
symptomatic:race_ethnicity_group	4	72.2	18.045	1.0468	0.384177	
symptomatic:vax_any	1	49.7	49.749	2.886	0.090907	.
vax_any	1	9.1	9.145	0.5305	0.467244	
vax_any:lineage	2	25.8	12.923	0.7497	0.473847	
vax_any:race_ethnicity_group	5	110.7	22.145	1.2846	0.271914	
Response N gene Ct (inpatient only)‡	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code
any_comorbidity	1	69.23	69.226	5.7846	0.0181	*
any_comorbidity:picu_due_to_covid	1	12.37	12.367	1.0334	0.31193	
any_comorbidity:respiratory_support_any	1	8.56	8.556	0.715	0.39992	
hospital_duration_bins	2	1.99	0.996	0.0832	0.9202	
hospital_duration_bins:any_comorbidity	1	45.65	45.653	3.8148	0.05374	.
hospital_duration_bins:picu_due_to_covid	1	13.32	13.322	1.1132	0.29405	



Analysis	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code†
hospital_duration_bins:respiratory_support_any	1	0.88	0.876	0.0732	0.78729	
lineage	2	70.32	35.16	2.9381	0.0578	.
lineage:any_comorbidity	2	6.29	3.147	0.263	0.7693	
lineage:hospital_duration_bins	3	77.93	25.977	2.1707	0.09655	.
lineage:picu_due_to_covid	2	8.77	4.383	0.3662	0.69432	
lineage:respiratory_support_any	2	45.11	22.555	1.8848	0.1575	
picu_due_to_covid	1	7.48	7.475	0.6246	0.4313	
picu_due_to_covid:respiratory_support_any	1	4.59	4.593	0.3838	0.53705	
respiratory_support_any	1	4.48	4.482	0.3745	0.542	
Analysis of Variance (ANOVA)§						
Response N gene Ct:	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code
lineage (one-way)	2	703	351.5	20.87	1.27E-09	***
age_bin	3	430	143.3	8.672	1.14E-05	***
age_bin:lineage	6	194	32.3	1.952	0.0701	.
vax_any	1	29	28.5	1.698	0.193	
lineage:vax_any	2	11	5.6	0.334	0.716	
symptomatic	1	6	6.46	0.374	0.541	
symptomatic:lineage	2	30	15.05	0.87	0.419	
onset_days_bin	2	349	174.36	11.28	1.64E-05	***
onset_days_bin:lineage	4	67	16.87	1.092	0.36	
patient_type	1	2	1.54	0.093	0.76	
patient_type:lineage	2	6	2.81	0.17	0.844	
Response N gene Ct (inpatient only):	Df	Sum Sq	Mean Sq	F value	Pr(>F)	Significance code*
picu_due_to_covid	1	8	8	0.553	0.459	
picu_due_to_covid:lineage	2	13.5	6.76	0.467	0.628	
respiratory_support_any	1	0.4	0.45	0.03	0.86381	
respiratory_support_any:lineage	2	53.1	26.55	1.755	0.17629	
hospital_duration_bins	2	2	1	0.08	0.9231	
lineage:hospital_duration_bins	3	80.8	26.95	2.168	0.0957	.
any_comorbidity	1	62.5	62.48	5.046	0.0266	*
lineage:any_comorbidity	2	1.3	0.64	0.051	0.95	

\* Predictor variables and covariates are separated by a colon. While all possible pairwise comparisons were performed within data categories across lineage groups, comparisons considered in this study include those between categories but within lineage group (e.g., age groups within Delta) and the same category across variant periods (e.g., 1–4 y olds across Other, Delta, and Omicron). As such, comparisons not relevant to the current study were not included in post-hoc test<sup>††</sup> (e.g., 12+ years during Omicron vs. <1 y during Delta). Ct, cycle threshold; N, nucleocapsid; PICU, pediatric intensive care unit.

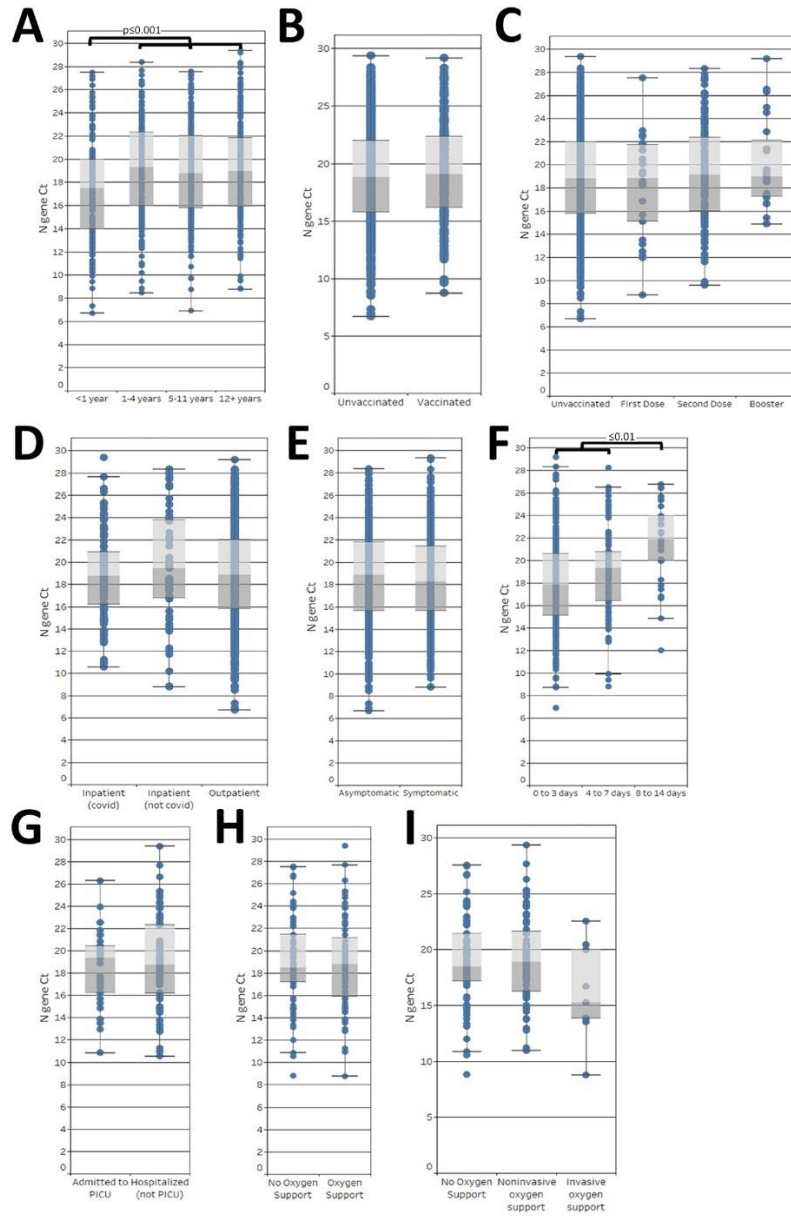
†Significance codes: 0.001 \*\*\*\*, 0.01 \*\*\*, 0.05 \*\*, 0.1 \*, 1 ' '.

‡Inpatient DUE to COVID-19

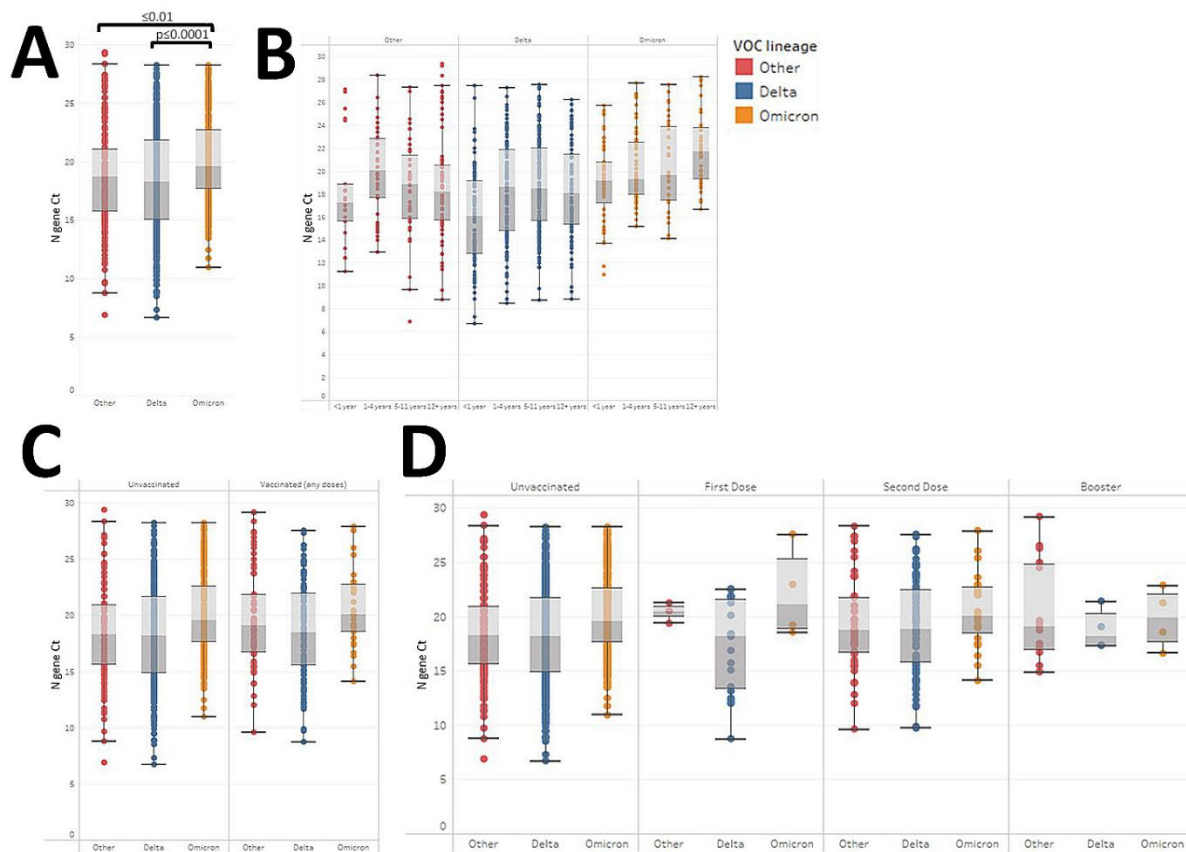
§Two-way ANOVA unless otherwise noted, ANOVAs were followed up with post-hoc Tukey HSD, p values from post-hoc tests are presented in the figures and text.

**Appendix Table 8.** Mean nucleocapsid gene cycle threshold values ( $\pm$ SD) by category

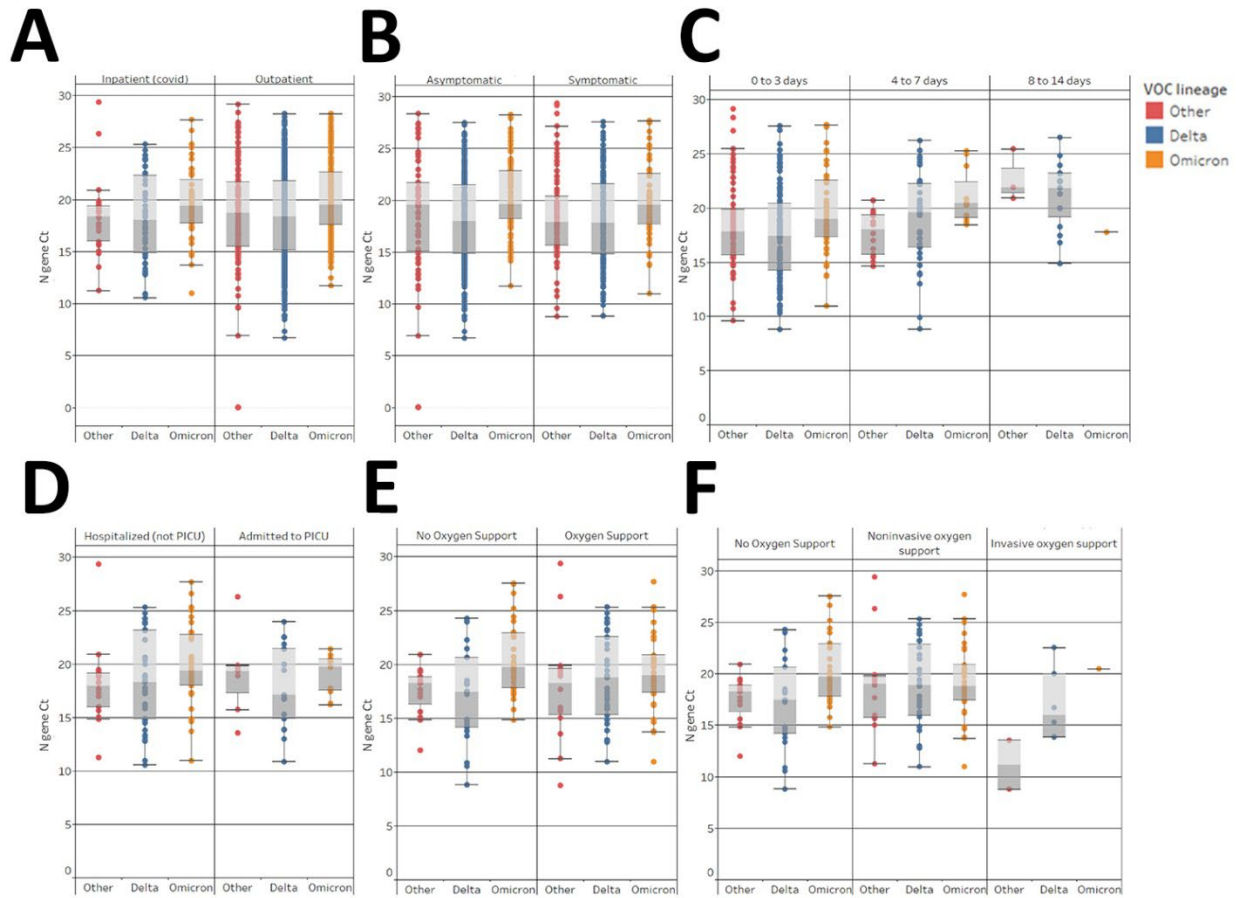
Category	All	Other	Delta	Omicron	
All	-	18.9 (4.17)	18.9 (4.36)	18.3 (4.29)	20.1 (3.59)
Age bin	<1	17.3 (4.25)	18.2 (4.69)	16.0 (4.19)	19.0 (3.43)
	1–4 y	19.1 (4.08)	20.0 (3.28)	18.2 (4.36)	20.2 (3.18)
	5–11 y	19.0 (4.10)	18.5 (4.28)	18.9 (4.06)	20.5 (3.81)
	≥12 years	19.1 (4.34)	18.7 (4.58)	18.3 (4.13)	21.9 (3.19)
Symptom onset bins	0–3 d	18.1 (4.09)	18.3 (4.12)	17.4 (4.12)	19.5 (3.63)
	4–7 d	18.9 (3.80)	17.3 (2.27)	18.7 (4.05)	18.7 (3.42)
	8–14 d	21.5 (3.72)	22.7 (2.38)	20.9 (3.67)	24.1 (4.24)
Vaccination status	Unvaccinated	18.9 (4.17)	18.5 (4.36)	18.2 (4.30)	20.1 (3.61)
	Vaccinated (any doses)	19.3 (4.19)	19.6 (4.31)	18.7 (4.24)	20.7 (3.38)
	Partially vaccinated (1 dose)	18.3 (4.37)	20.4 (0.93)	17.2 (4.29)	22.1 (4.13)
	Fully vaccinated (2 doses)	19.4 (4.18)	19.3 (4.33)	19.1 (4.26)	20.6 (3.42)
	fully vaccinated + booster	20.0 (4.00)	20.3 (4.71)	18.8 (1.91)	19.8 (2.75)
Disease severity	Outpatient	18.9 (4.17)	19.0 (4.36)	18.3 (4.29)	20.1 (3.54)
	Inpatient (hospitalized with COVID-19)	19.5 (5.12)	18.4 (5.45)	17.5 (5.06)	21.6 (4.29)
	Inpatient (hospitalized due to COVID-19)	18.8 (3.82)	18.3 (3.66)	18.2 (4.18)	19.7 (3.39)
	Symptomatic	18.6 (4.16)	18.5 (4.12)	18.1 (4.27)	19.9 (3.63)
	Asymptomatic	18.8 (4.30)	19.3 (4.68)	18.0 (4.30)	20.4 (3.42)
	Admitted to PICU due to COVID-19	18.4 (3.37)	19.0 (3.99)	17.9 (3.90)	18.9 (1.91)
	Hospitalized but not admitted to PICU	19.0 (3.98)	18.0 (3.6)	18.4 (4.34)	20.0 (3.66)
	No supplemental oxygen	18.9 (3.97)	17.4 (2.26)	17.4 (4.48)	20.7 (3.45)
	Any supplemental oxygen	18.8 (4.08)	17.8 (5.07)	18.6 (3.99)	19.4 (3.65)
	Noninvasive supplemental oxygen	19.1 (3.97)	18.8 (4.57)	18.9 (4.05)	19.3 (3.73)
	Invasive supplemental oxygen	16.1 (4.28)	11.1 (3.36)	17.0 (3.53)	20.4 (NA)



**Appendix Figure 1.** Ct value patterns across all variants among successfully sequenced samples. Boxplots of overall Ct value patterns across categories among samples that were successfully sequenced. Ct values by A) age group, B) vaccination status (unvaccinated vs. vaccinated with any number of doses), C) vaccination status (unvaccinated vs. vaccinated by number of doses), D) patient type (outpatient/not hospitalized, hospitalized due to COVID-19, hospitalized but not due to COVID-19), E) symptomatic vs. asymptomatic, F) number of days between symptom onset and positive test (symptom onset group), G) hospitalized but not admitted to PICU vs. admitted to PICU, H) any type of supplemental oxygen support vs. no oxygen support received, I) highest level of supplemental oxygen support received (none, noninvasive oxygen support, invasive oxygen support). n.s., not significant, (\*), adjusted  $p \leq 0.05$ , (\*\*), adjusted  $p \leq 0.01$ .



**Appendix Figure 2.** Ct value patterns of patient characteristics among successfully sequenced samples. Boxplots of overall Ct value patterns across categories among successfully sequenced samples. Ct values by A) variant period, B) age groups, C) vaccination status (unvaccinated vs. vaccinated with any number of doses), D) vaccination status (unvaccinated vs. vaccinated by number of doses). (\*), adjusted  $p \leq 0.05$ ; (\*\*), adjusted  $p \leq 0.01$ , (\*\*\*) adjusted  $p \leq 0.001$ ; (\*\*\*\*) adjusted  $p \leq 0.0001$ .



**Appendix Figure 3.** Ct value patterns among markers of disease severity among successfully sequenced samples. Boxplots of overall Ct value patterns across disease severity markers among successfully sequenced samples. Ct values by A) patient type (outpatient/not hospitalized, hospitalized due to COVID-19), B) symptomatic vs. asymptomatic, C) number of days between symptom onset and positive test (symptom onset group), D) hospitalized but not admitted to PICU vs. admitted to PICU, E) any type of supplemental oxygen support vs. no oxygen support received, F) highest level of supplemental oxygen support received (none, noninvasive oxygen support, invasive oxygen support). (\*), adjusted  $p \leq 0.05$ ; (\*\*), adjusted  $p \leq 0.01$ , (\*\*\*) adjusted  $p \leq 0.001$ ; (\*\*\*\*) adjusted  $p \leq 0.0001$ .