Drei Jahre Corona Pandemie
-
Wo stehen wir?

Carsten Watzl

Confirmed COVID-19 cases, deaths, hospital admissions, and patients in ICU per million people

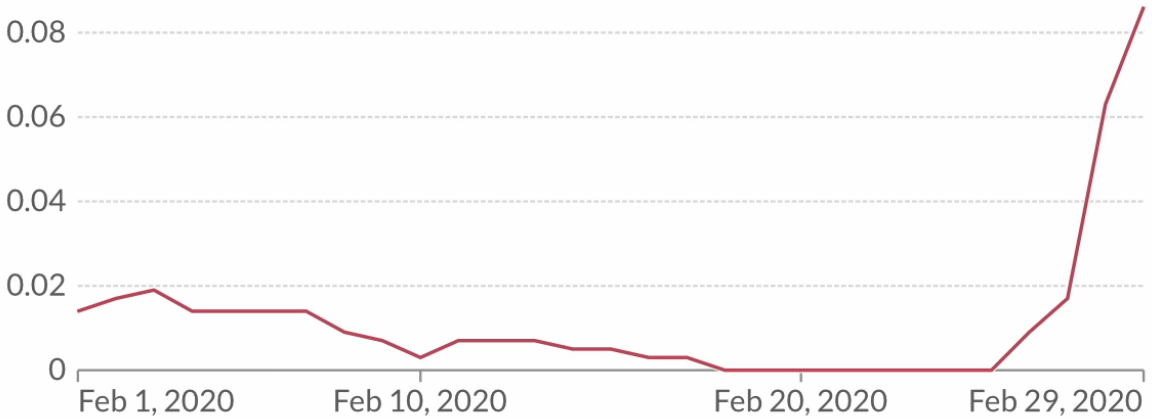
Limited testing and challenges in the attribution of cause of death means the cases and deaths counts may not be accurate.

Our World in Data

LINEAR LOG Align axis scales

Germany

New cases (per 1M)



Hospital admissions (per 1M)

No matching data

Patients in ICU (per 1M)

No matching data

New deaths (per 1M)

No matching data

Source: Johns F Feb 29, 2020 SE COVID-19 Data, Official data collated by Our World in Data

CC BY

Feb 1, 2020 Nov 27, 2022

Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data. https://ourworldindata.org

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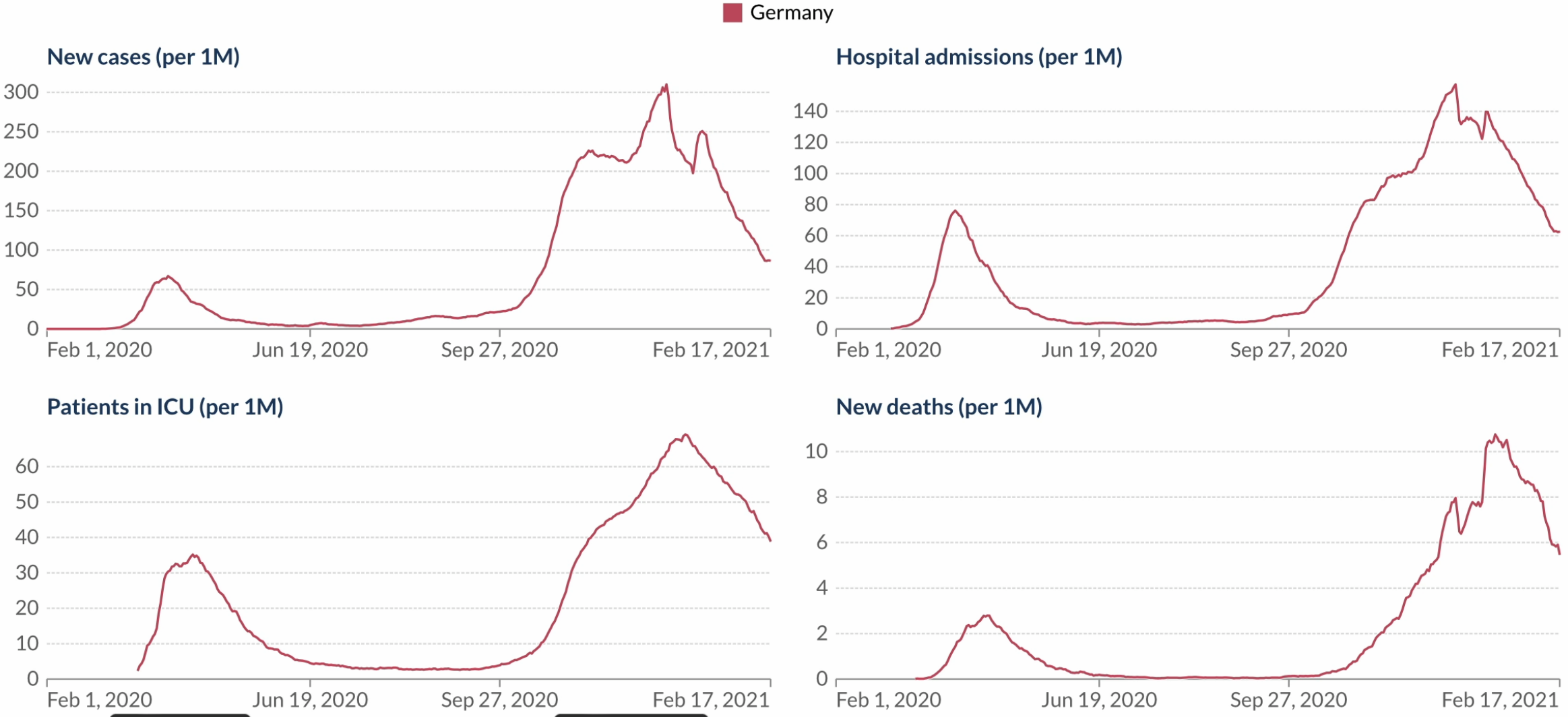


Source: Johns ty CSSE COVID-19 Data, Official data c d in Data

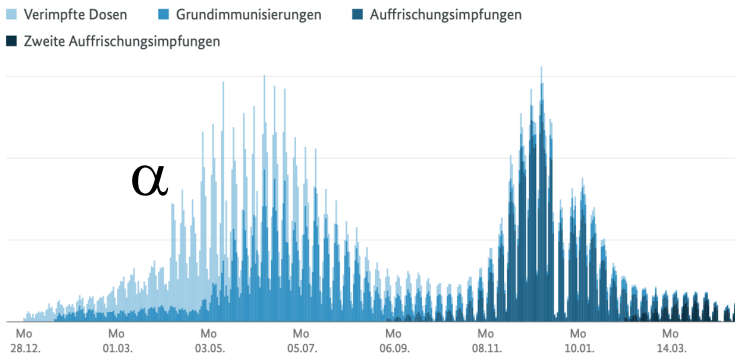
CC BY

Feb 1, 2020 Feb 17, 2021

Feb 1, 2020 Nov 27, 2022

Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data. https://ourworldindata.org

Impfen



Stand: 23.08.2022 (Impfungen)
Quelle: impfdashboard.de, RKI, BMG.

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LINEAR LOG ☐ Align axis scales

Germany

New cases (per 1M)

300 250 200 150 100 50 0

α

Feb 1, 2020 Aug 8, 2020 Jul 13, 2021

Hospital admissions (per 1M)

140 120 100 80 60 40 20 0

α

Feb 1, 2020 Aug 8, 2020 Jul 13, 2021

Patients in ICU (per 1M)

60 50 40 30 20 10 0

α

Feb 1, 2020 Aug 8, 2020 Jul 13, 2021

New deaths (per 1M)

10 8 6 4 2 0

α

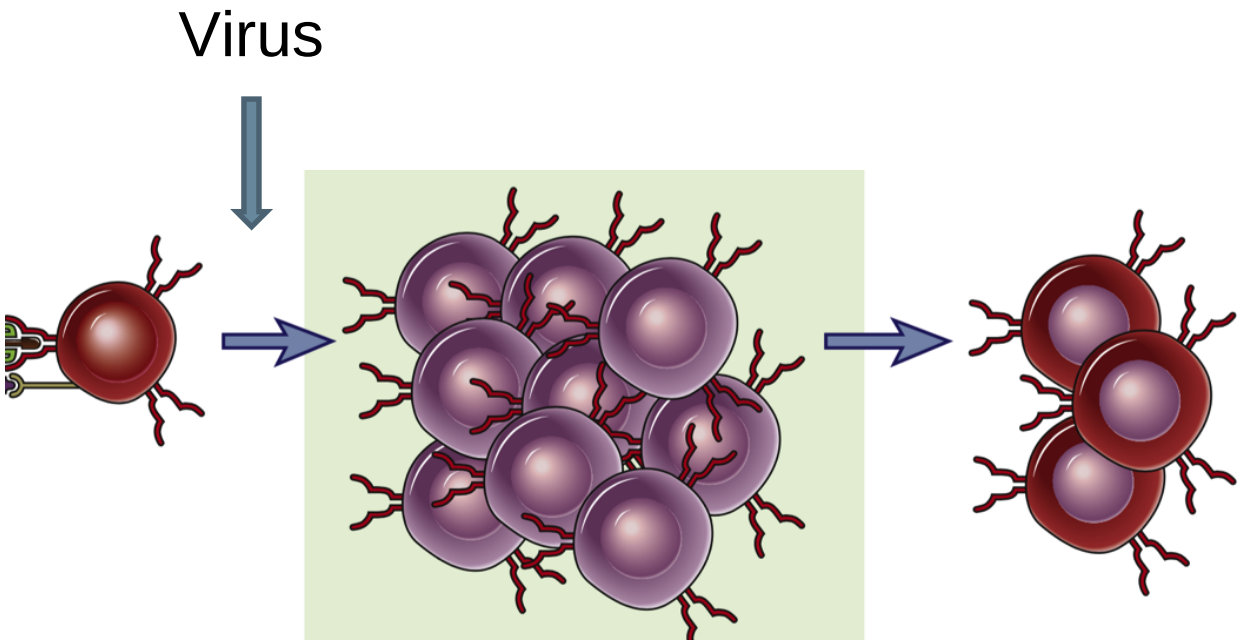
Feb 1, 2020 Aug 8, 2020 Jul 13, 2021

Source: John ty CSSE COVID-19 Data, Official data collat Data CC BY

Feb 1, 2020 Jul 13, 2021

Feb 1, 2020 Sep 30, 2022

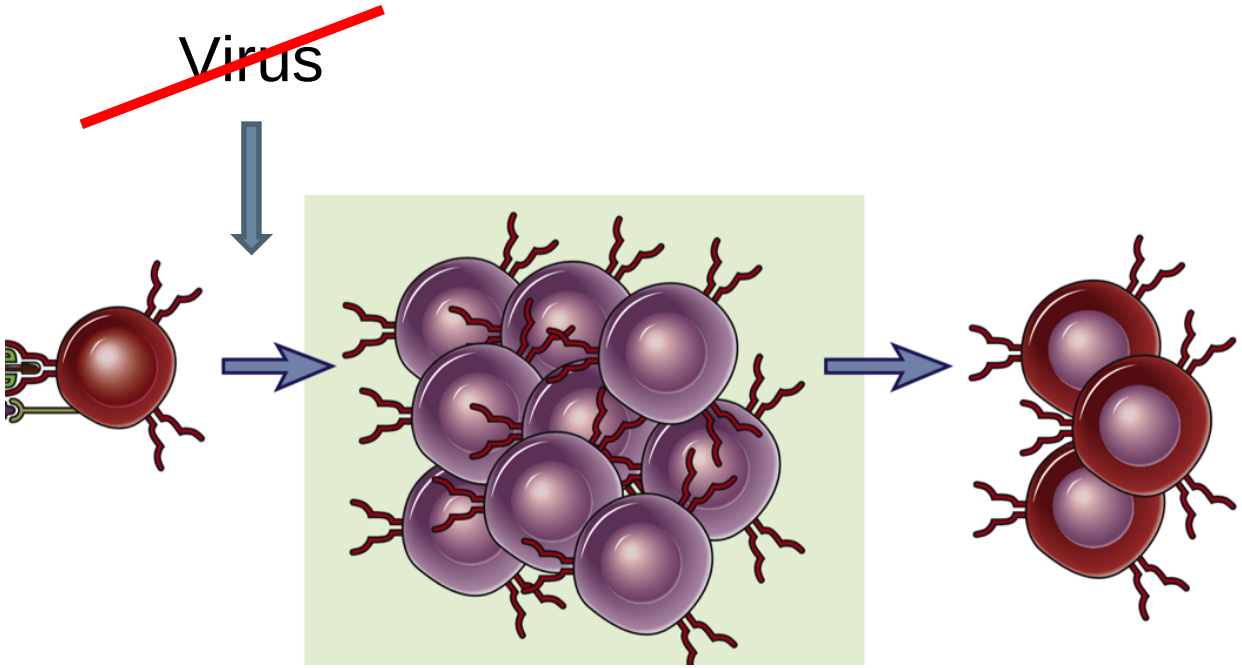
Impfungen



Aus: Abbas, Cellular and Molecular Immunology, 8th edition

Immungedächtnis

Impfungen



Aus: Abbas, Cellular and Molecular Immunology, 8th edition

Immungedächtnis

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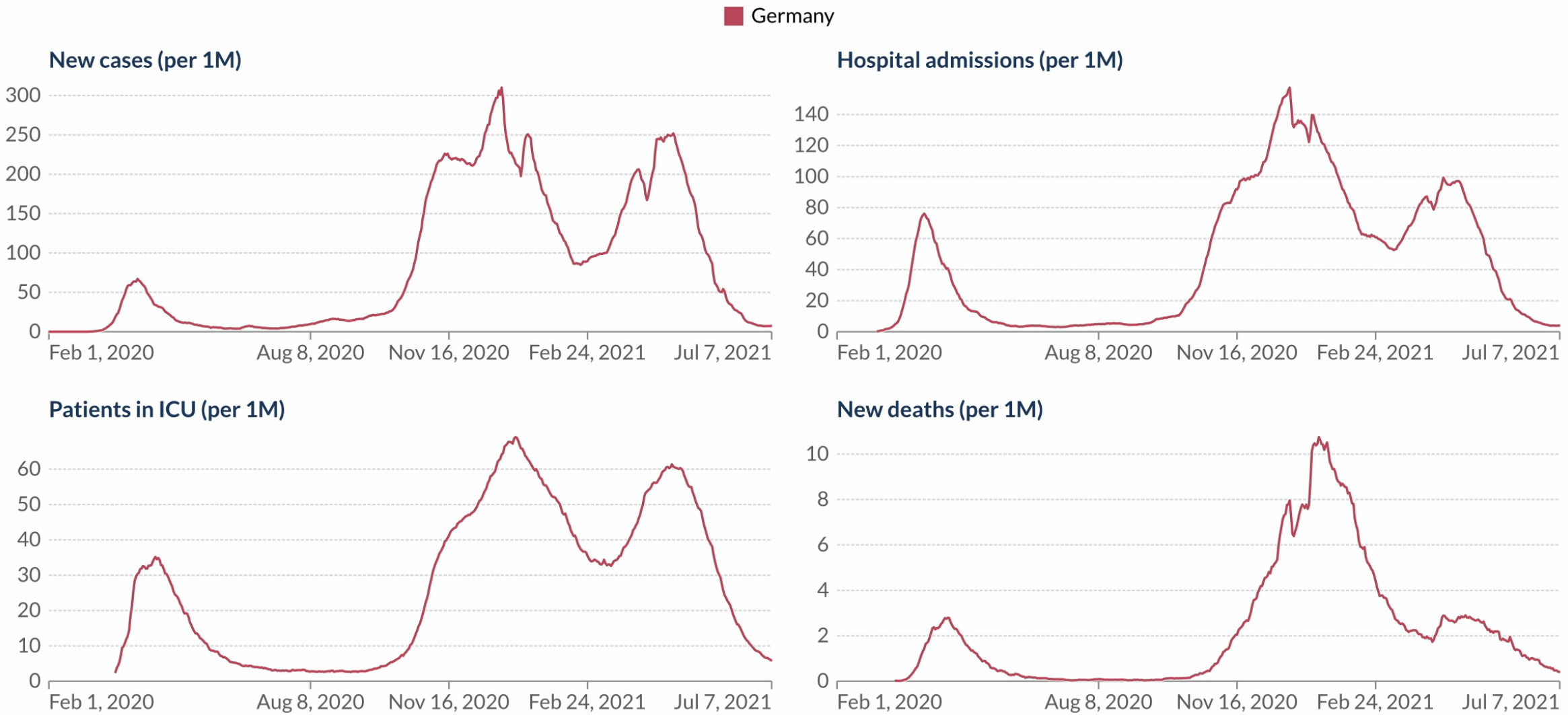
LINEAR LOG Align axis scales



Source: Johns ty CSSE COVID-19 Data, Official data collated by Our World i

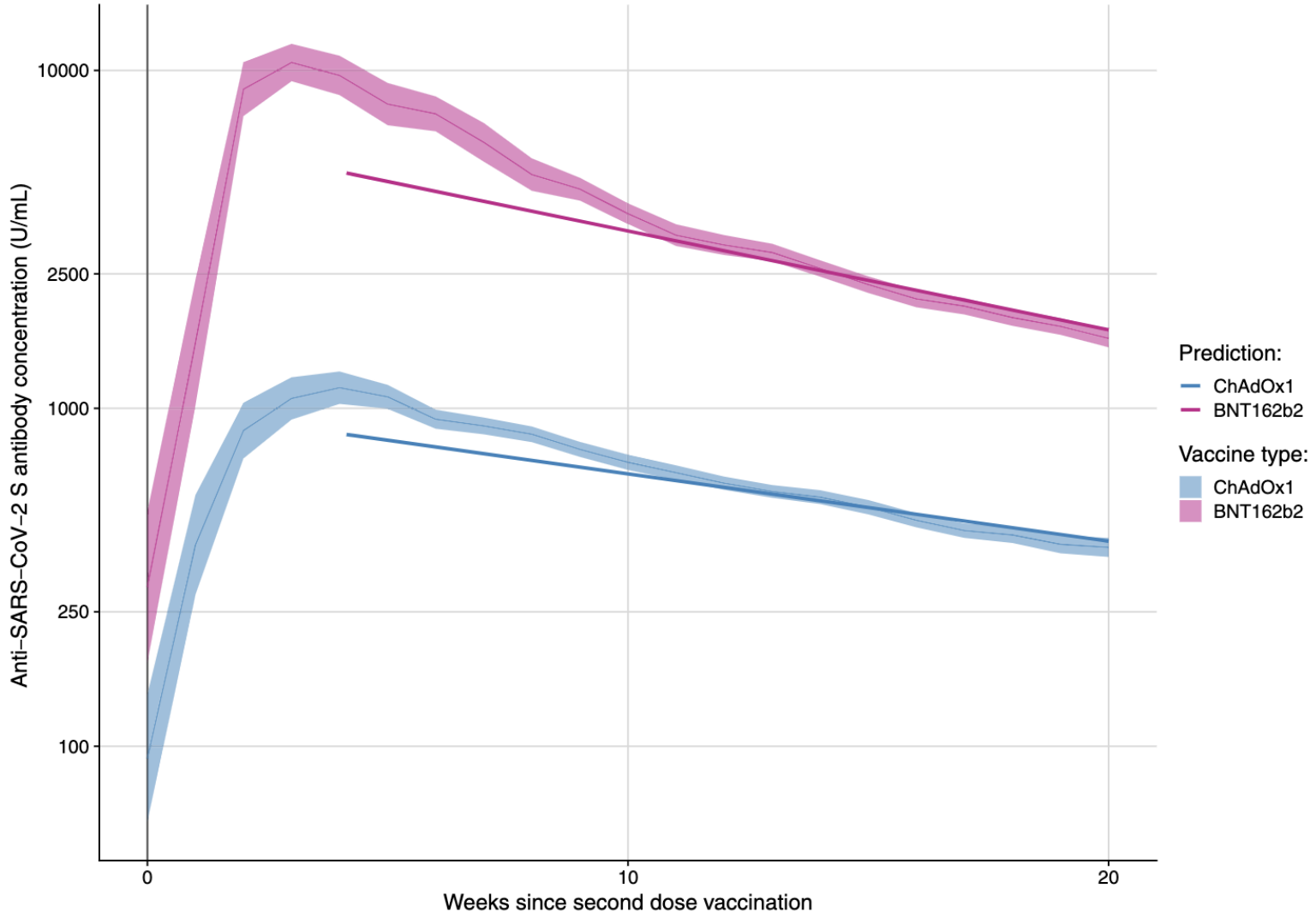
CC BY

Feb 1, 2020 Jul 7, 2021

Feb 1, 2020 Nov 27, 2022

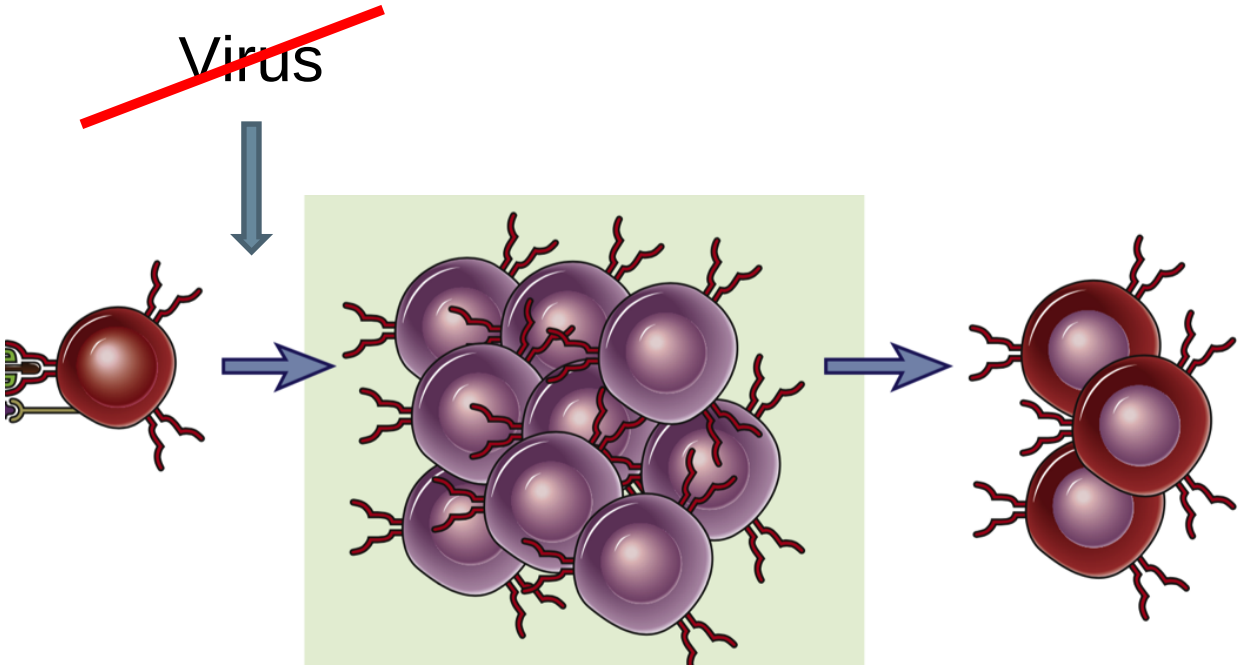
Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data. https://ourworldindata.org

2-Phasiger Abfall der Antikörper



Aldridge, R. W. *et al.* SARS-CoV-2 antibodies and breakthrough infections in the Virus Watch cohort. *Nat Commun* **13**, 4869 (2022).

Impfungen



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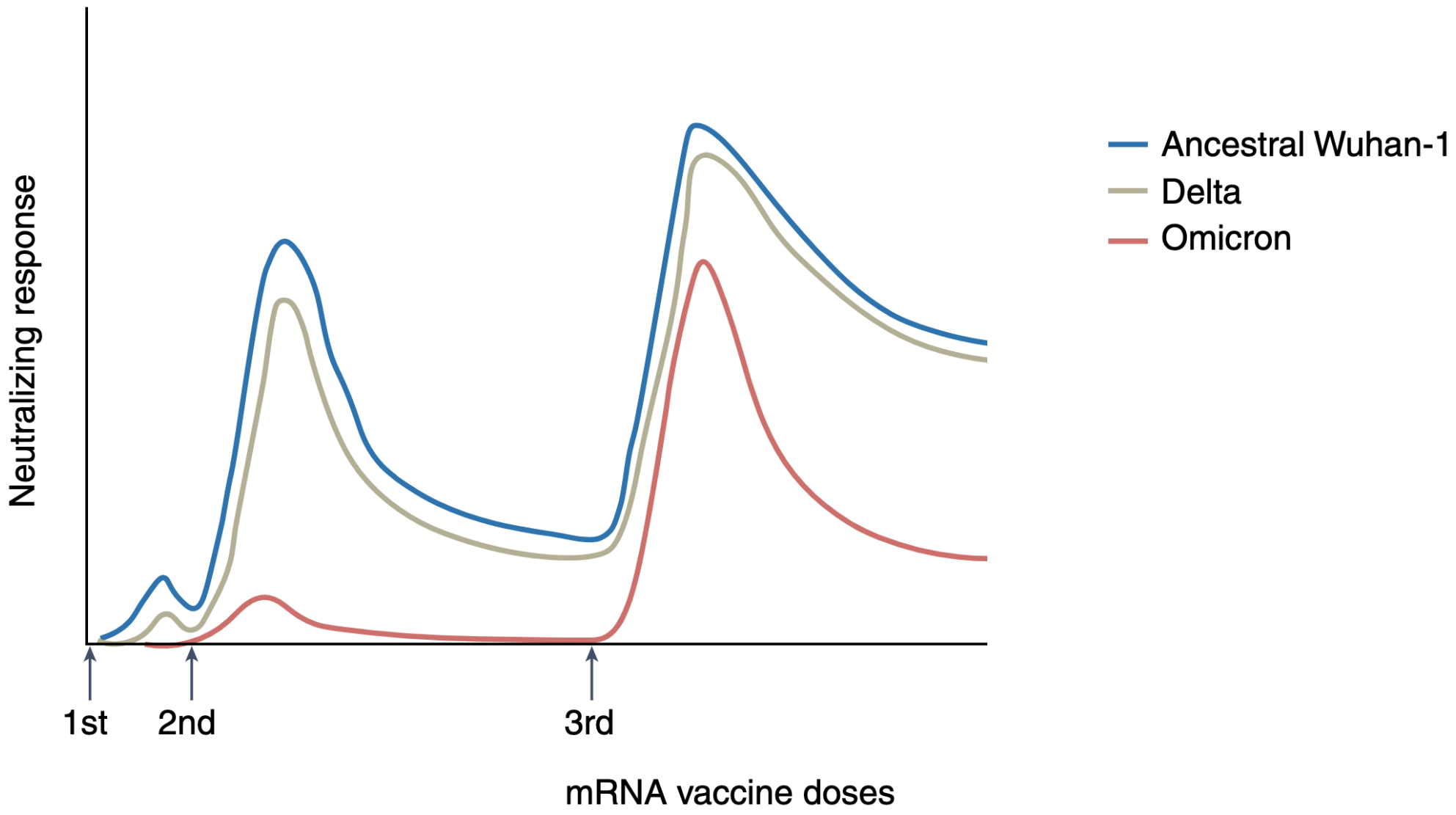
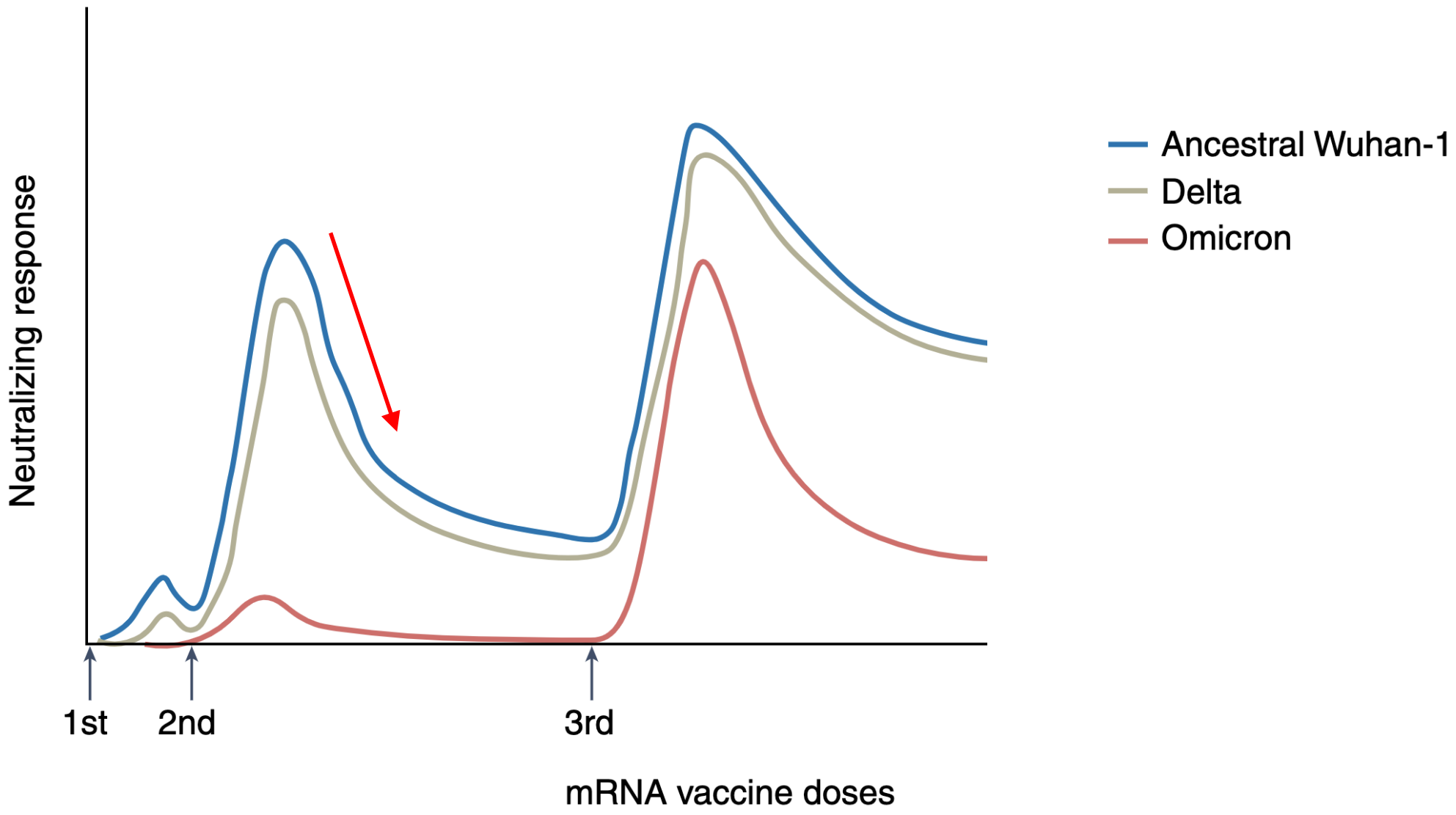
Immungedächtnis

Antikörper nach Impfung oder Infektion



Shen, X. Boosting immunity to Omicron. *Nat Med* **28**, 445–446 (2022).

Antikörper nach Impfung oder Infektion



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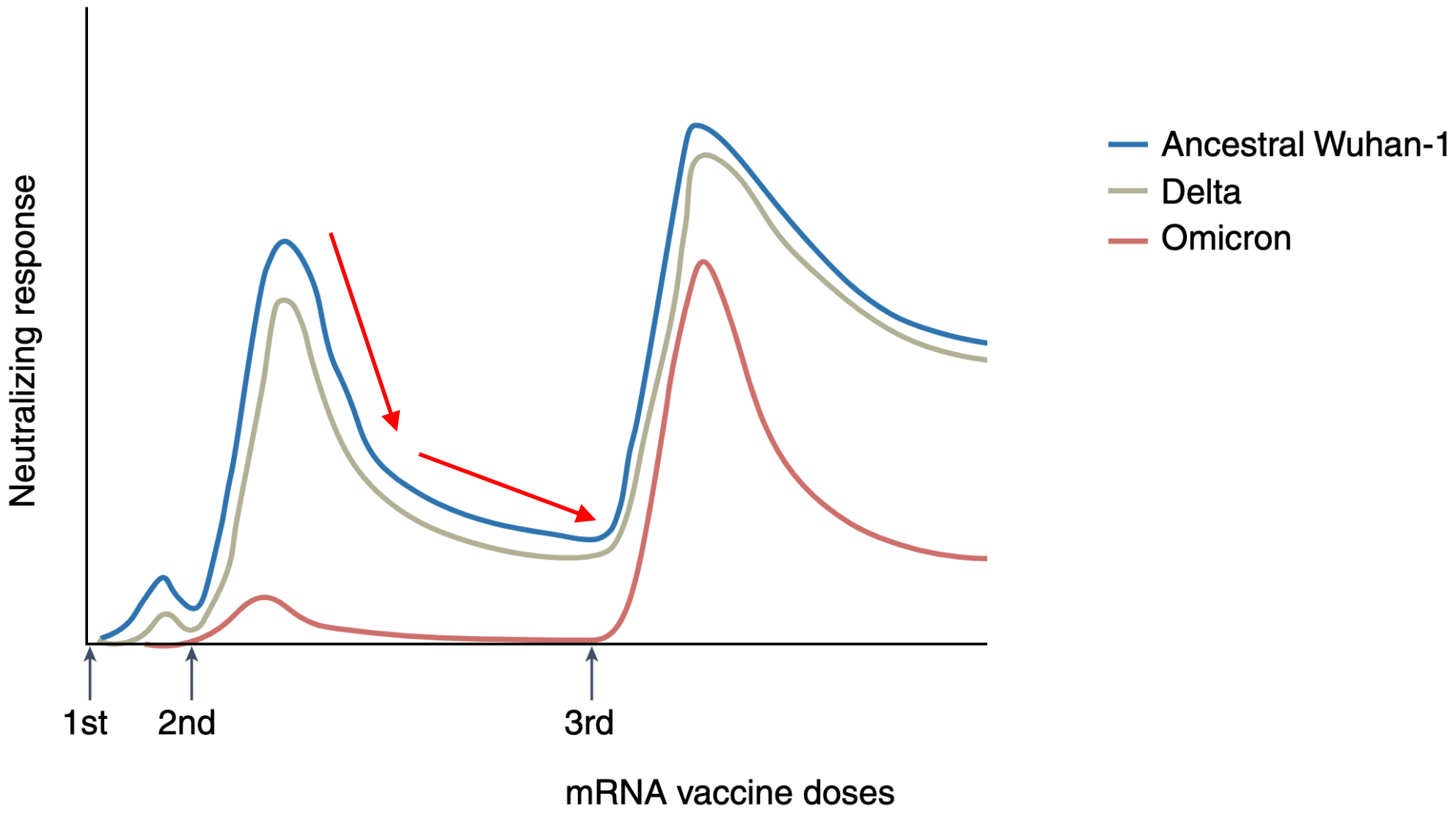

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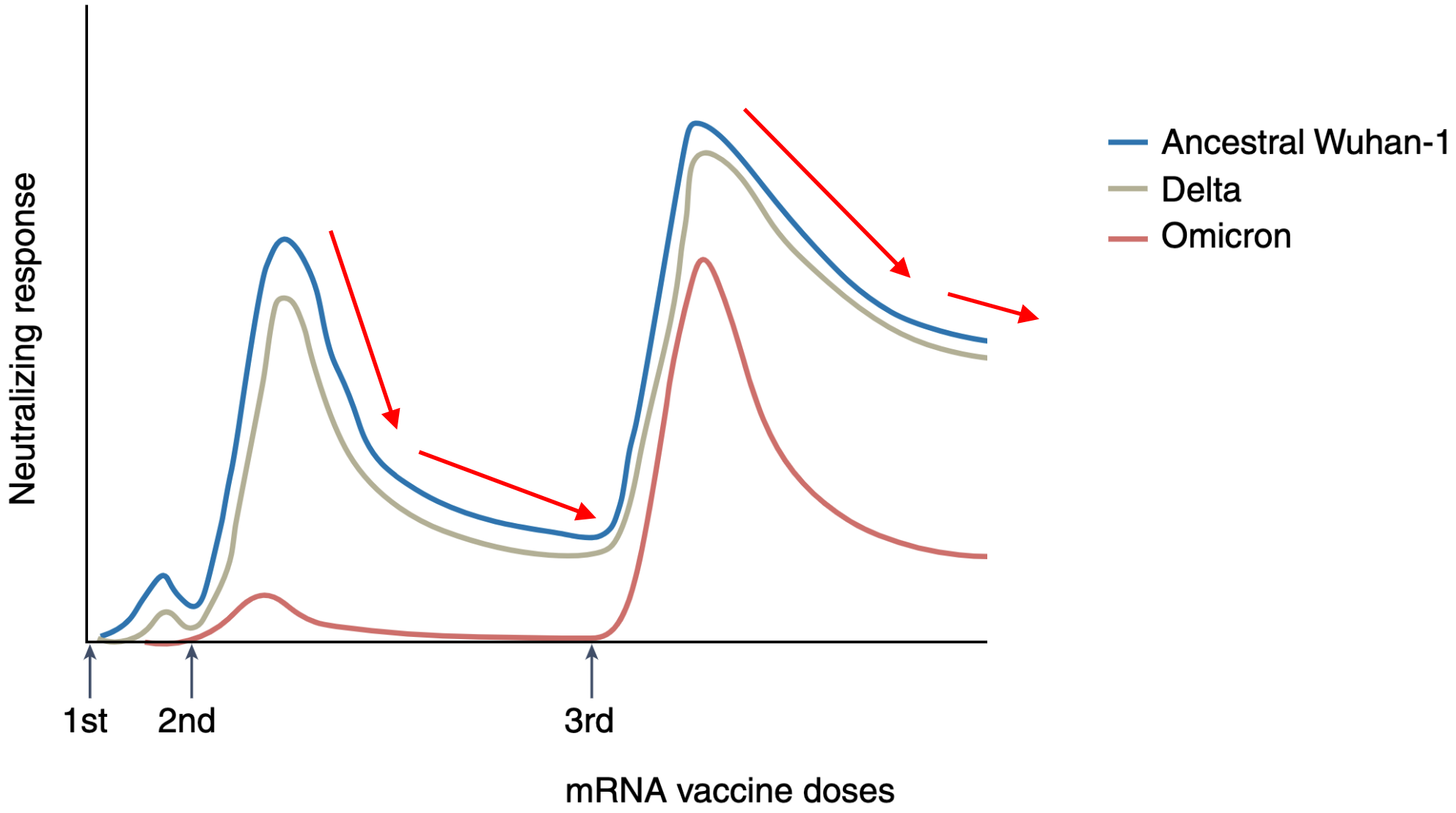
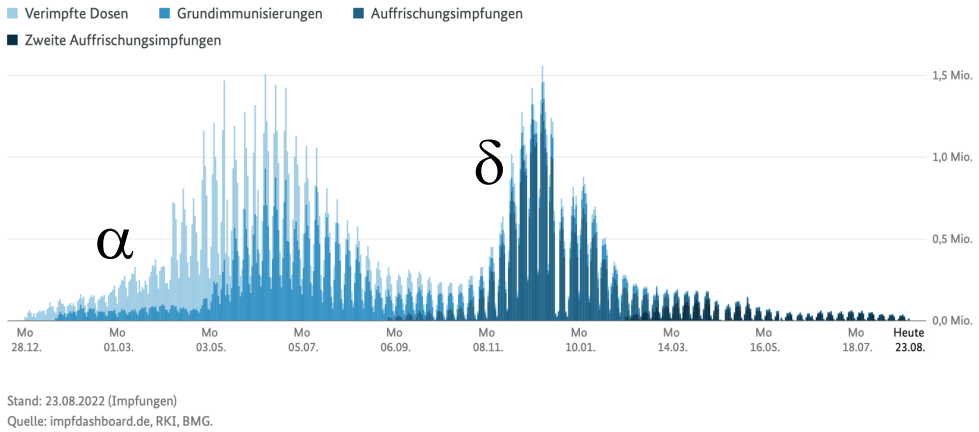


Shen, X. Boosting immunity to Omicron. *Nat Med* **28**, 445–446 (2022).

Die δ Welle



Stand: 23.08.2022 (Impfungen)
Quelle: impfdashboard.de, RKI, BMG.

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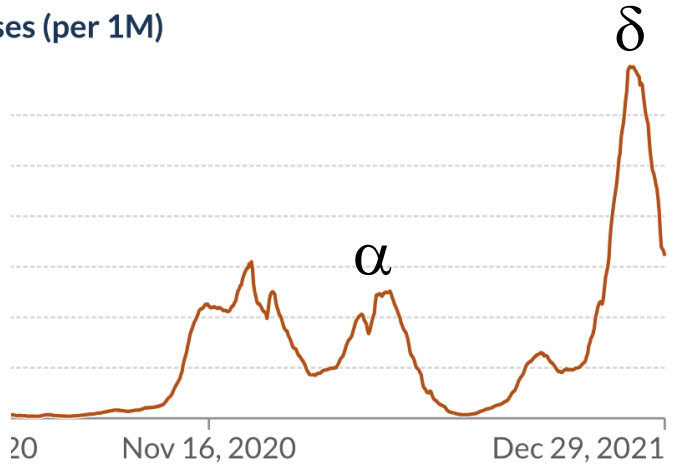
Our World in Data

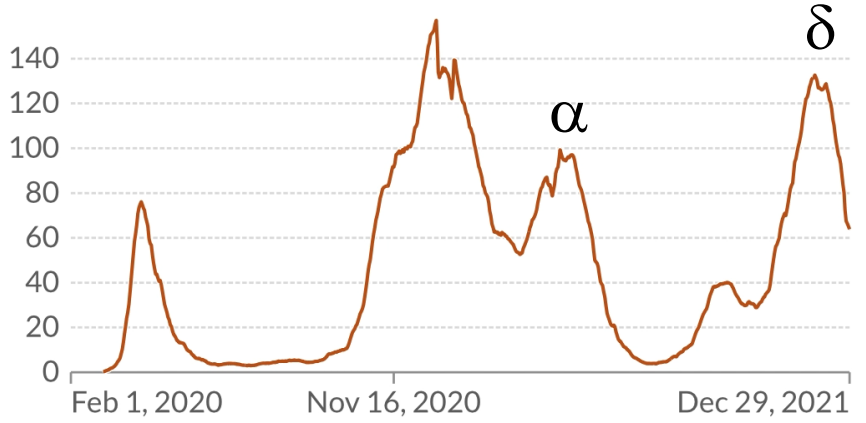
LINEAR LOG ☐ Align axis scales

Germany

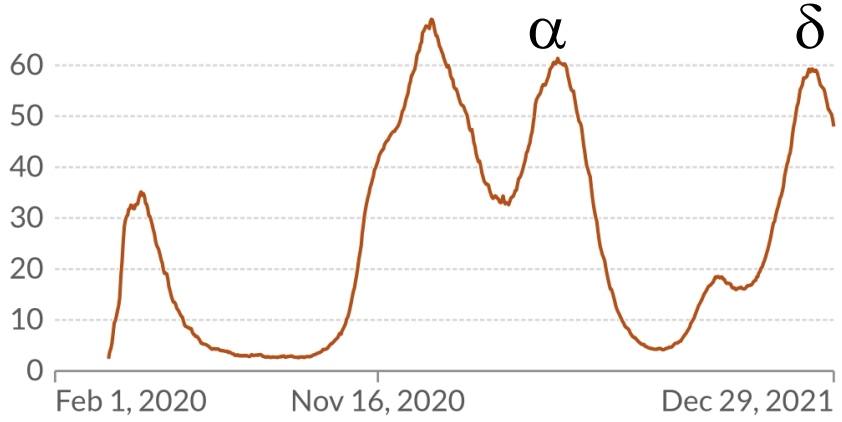
New cases (per 1M)



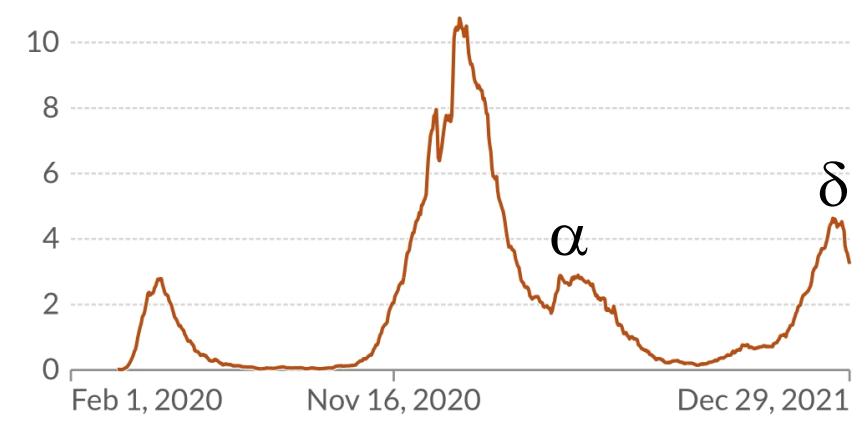
Hospital admissions (per 1M)



Patients in ICU (per 1M)



New deaths (per 1M)



Source: John Feb 1, 2020 ty CSSE COVID-19 Data, Official data collated by Our World in Dec 29, 2021 CC BY

Feb 1, 2020 Sep 30, 2022

Impflücke

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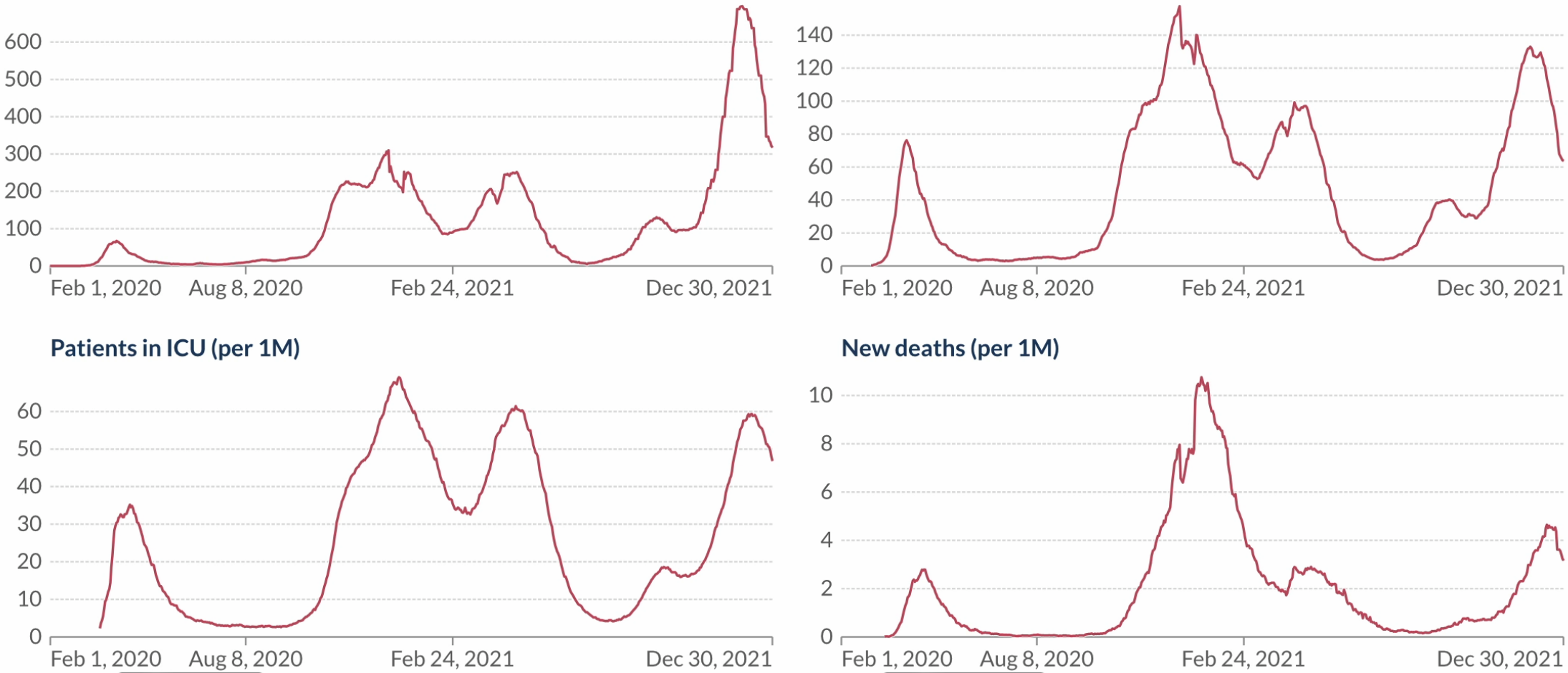
LINEAR LOG Align axis scales

Germany



Source: Johns ty CSSE COVID-19 Data, Official data collated by Our World in Data

CC BY

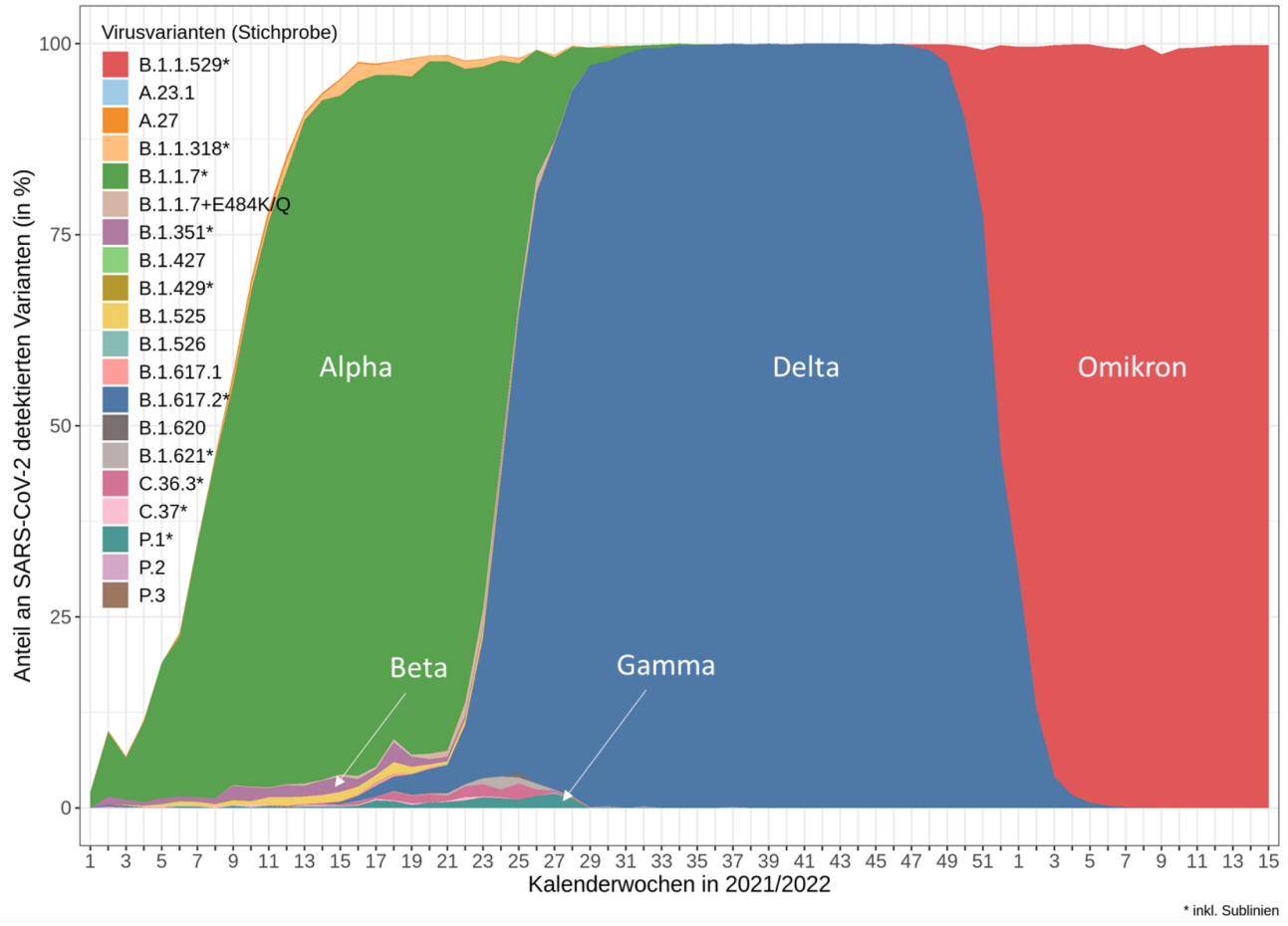
Feb 1, 2020

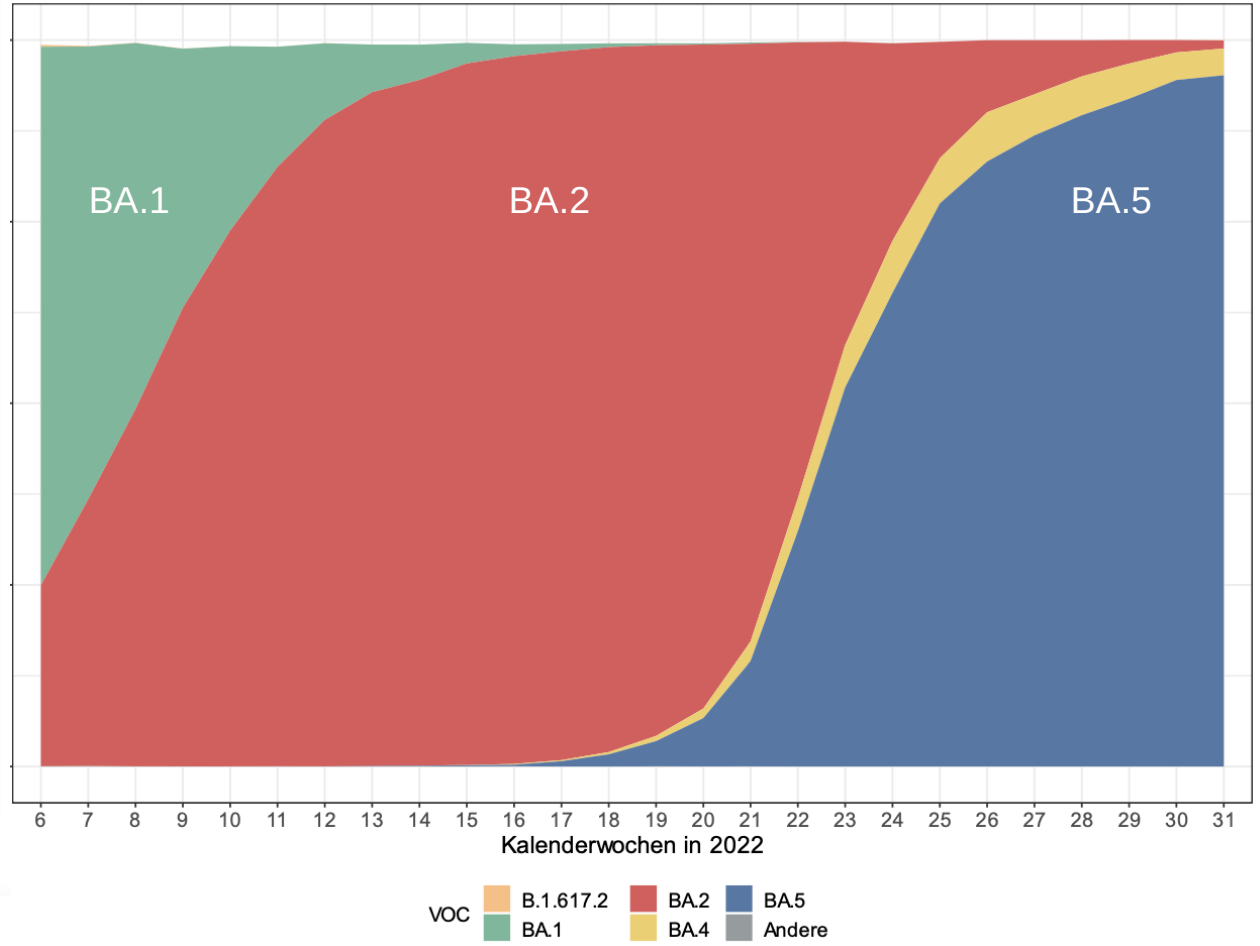
Dec 30, 2021

Feb 1, 2020 Jan 26, 2023

Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data. https://ourworldindata.org

Das Virus verändert sich





Quelle: RKI Wochenbericht 28.04.2022 und 18.08.2022

Immunitätslücke?

Wie hoch ist die Immunität in Deutschland?

	N (Teilnehmer*innen)	N (Kohorten)	S-AK, krude			NC-AK, krude		
			Anteil	95% LCI	95% UCI	Anteil	95% LCI	95% UCI
	6301	6	98,9%	97,9%	99,4%	43,2%	35,9%	50,7%
Alter (Jahre)								
12-17	76	6	97,8%	96,0%	98,8%	62,6%	52,4%	71,9%
18-29	205		99,6%	97,0%	100,0%	53,8%	41,8%	65,4%
30-34	295		99,4%	98,5%	99,7%	47,2%	43,3%	51,2%
35-39	270		99,0%	94,1%	99,8%	57,2%	46,5%	67,3%
40-49	733		98,5%	97,2%	99,2%	54,3%	46,5%	61,9%
50-59	1617		98,8%	97,9%	99,3%	42,8%	35,4%	50,5%
60-64	845		99,1%	97,5%	99,7%	38,9%	31,0%	47,5%
65-79	1905		99,2%	98,5%	99,6%	31,3%	27,3%	35,6%
>80	169		99,5%	97,9%	99,9%	26,6%	17,5%	38,2%

Jäger et al., Interimsanalyse des IMMUNEBRIDGE-Projektes zur Kommunikation von vorläufigen Ergebnissen an die Modellierungskonsortien der BMBF-geförderten Modellierungsplattformen
https://doi.org/10.5281/zenodo.6968574

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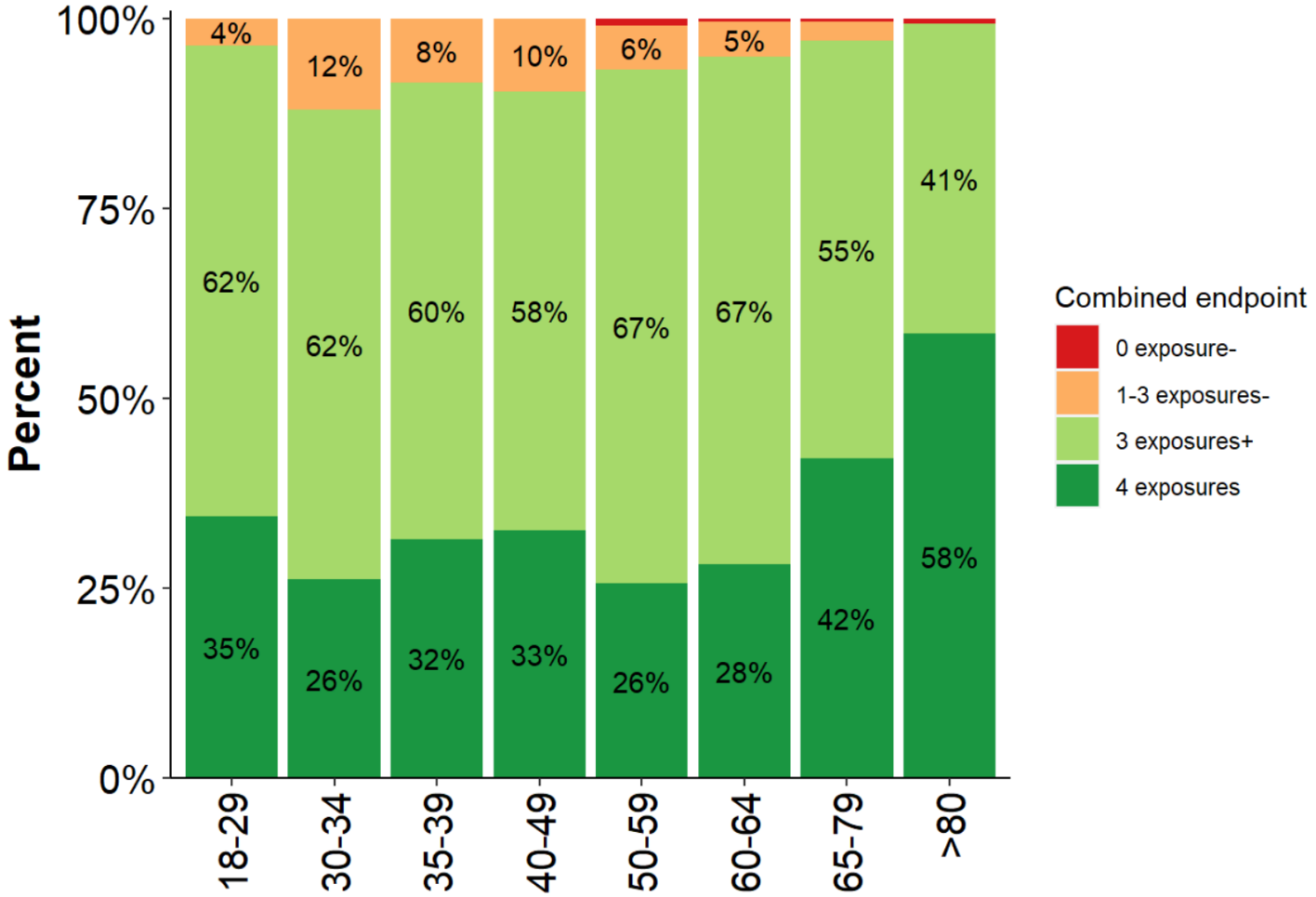

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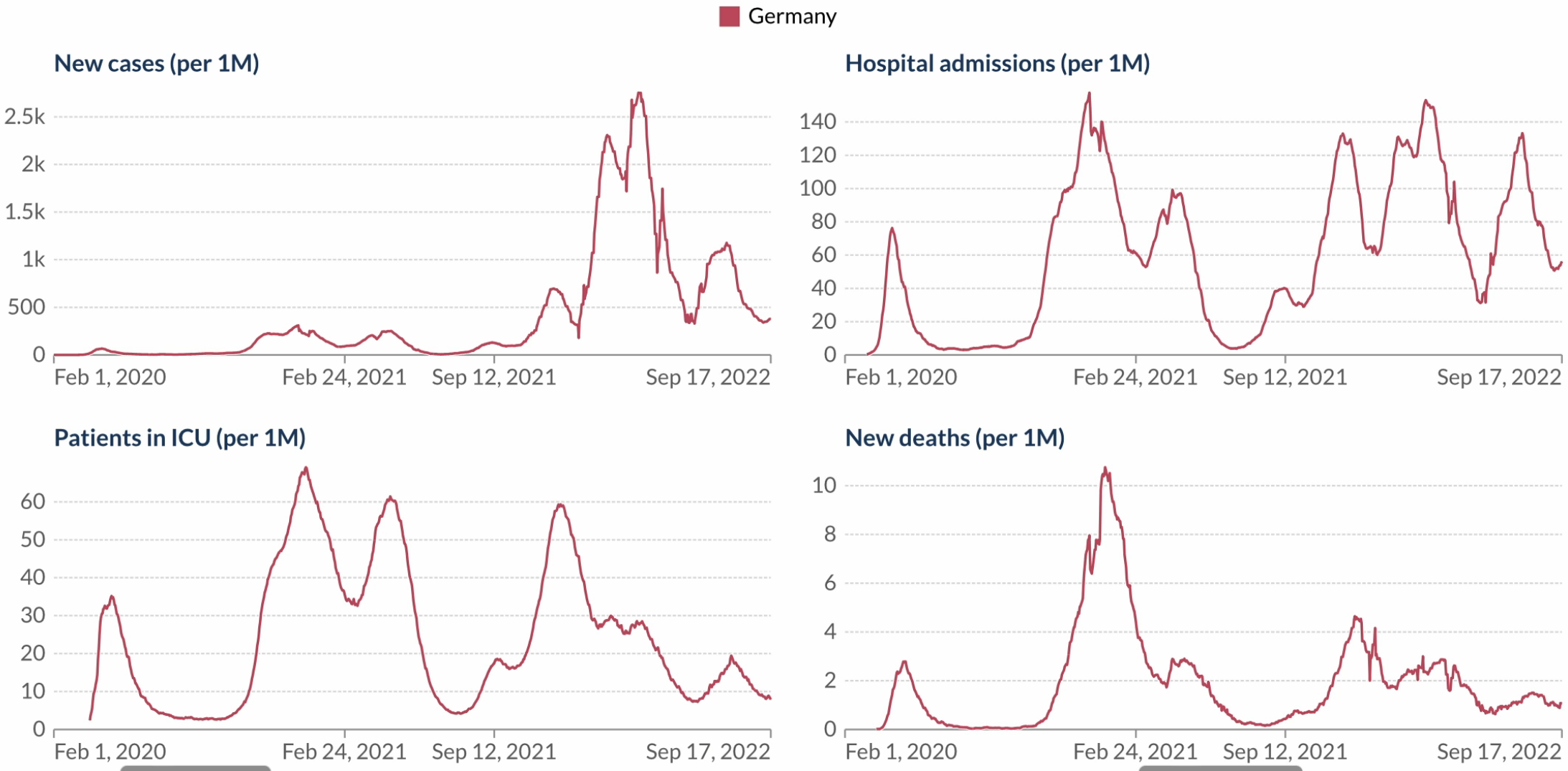

Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data

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Feb 1, 2020 Sep 17, 2022

Feb 1, 2020 Mar 5, 2023

Source: Johns Hopkins University CSSE COVID-19 Data, Official data collated by Our World in Data. https://ourworldindata.org

Aktuelle Lage in Deutschland

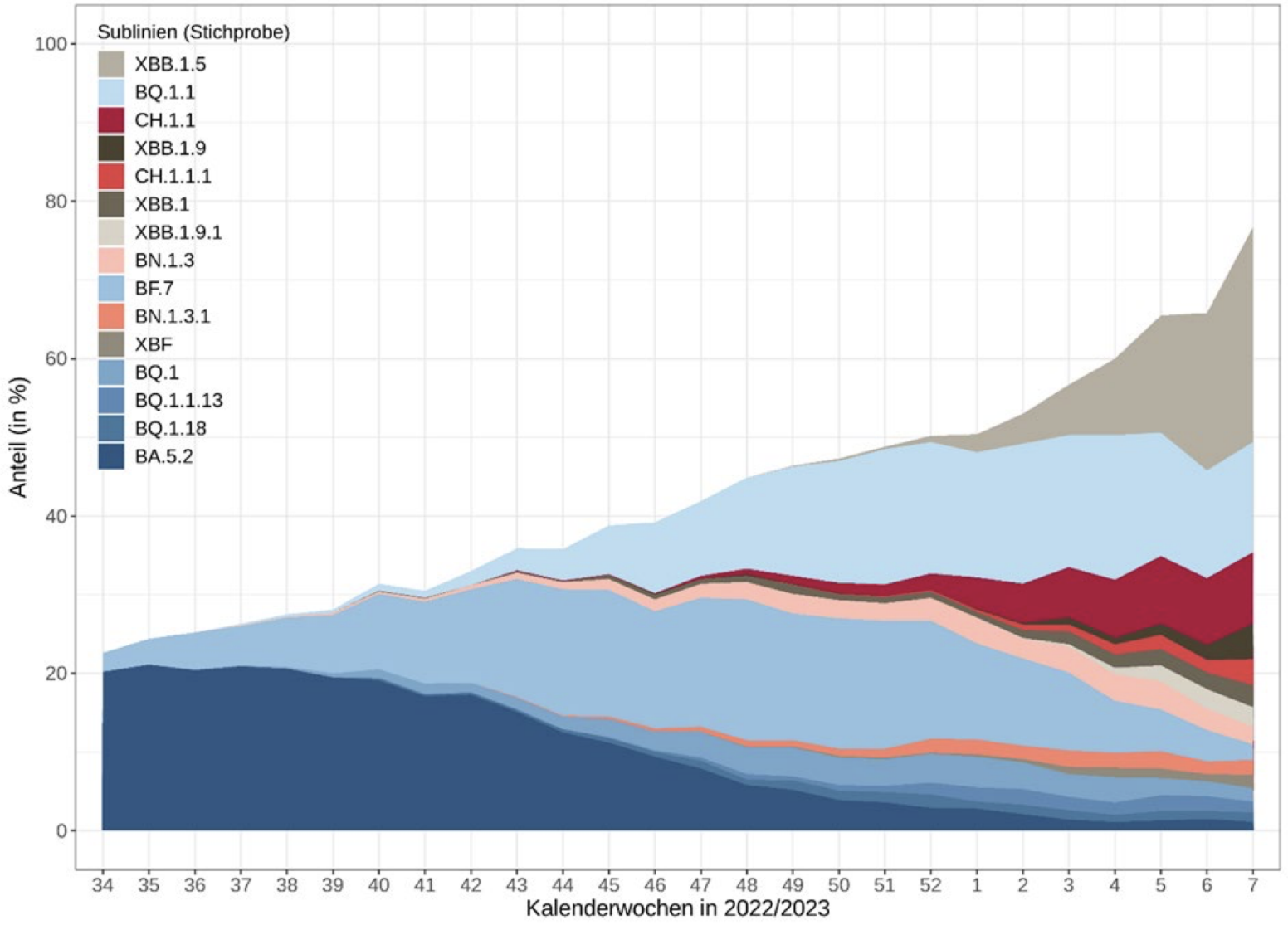

Abbildung 23: Prozentuale Anteile der einzelnen SARS-CoV-2 Sublinien mit einem Anteil >1 % in der aktuellen Berichtswoche, bezogen auf die Genomsequenzen aus der Stichprobe, absteigend sortiert nach ihrem Anteil in KW 7/2023. Sublinien von BA.5 sind in Blautönen, Sublinien von BA.2 in Rottönen und Rekombinanten in Brauntönen dargestellt. Die Reihenfolge der Sublinien in der Legende entspricht der Abfolge von oben nach unten in der Abbildung.

BA.2 - 21%
BA.5 - 37%

<u>Sublinien:</u>
BQ.1.1. – 14%
XBB.1.5– 27%

RKI Wochenbericht 02.03.23

Ausblick

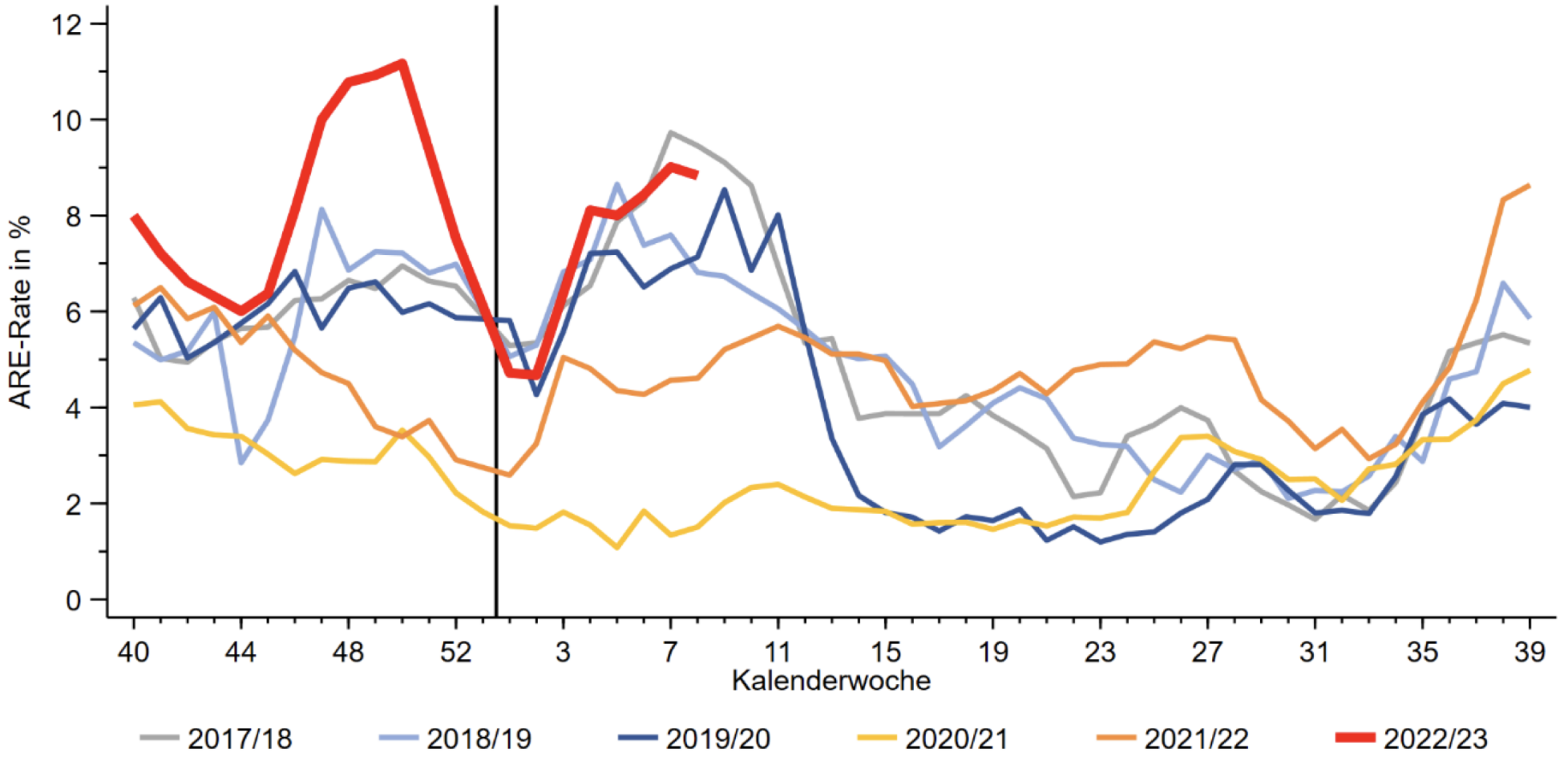

Abb. 1: Vergleich der für die Bevölkerung in Deutschland geschätzten ARE-Raten (in Prozent) in den Saisons 2017/18 bis 2022/23 (bis zur 8. KW 2023). Der senkrechte Strich markiert den Jahreswechsel.

Buda S, Dürrwald R, Biere B, Reiche J, Buchholz U, Tolksdorf K, Schilling J, Goerlitz L, Streib V, Preuß U, Prahm K, Haas W und die AGI-Studiengruppe: ARE-Wochenbericht KW 3/2023; Arbeitsgemeinschaft Influenza – Robert Koch-Institut | DOI: 10.25646/10989

Ausblick

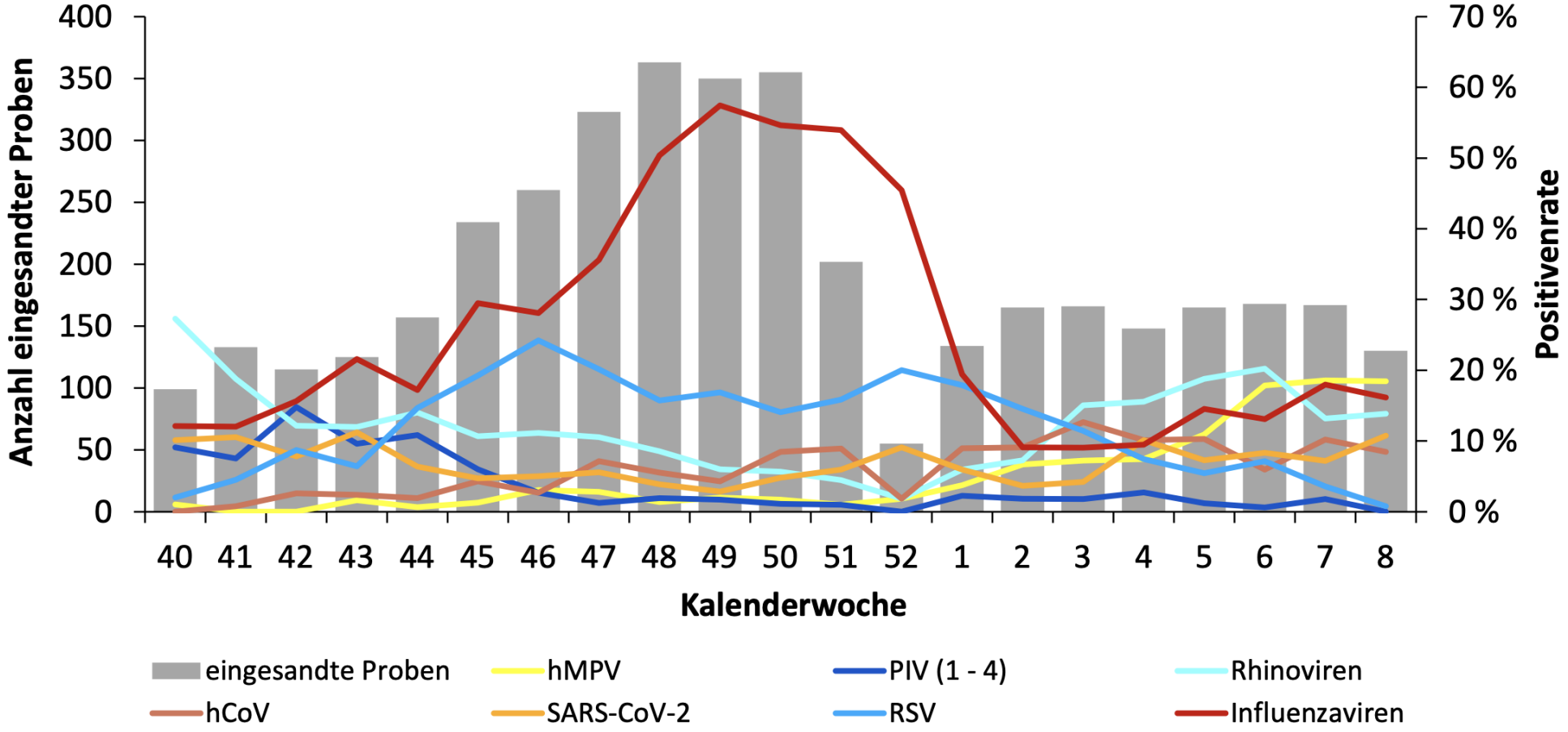

Abb. 4: Anteil der Nachweise für Influenzaviren, hCoV, SARS-CoV-2, RSV, hMPV, PIV und Rhinoviren (Positivenraten; rechte y-Achse) an allen im Rahmen des Sentinels eingesandten Proben (linke y-Achse, graue Balken) von der 40. KW 2022 bis zur 8. KW 2023.

Buda S, Dürrwald R, Biere B, Reiche J, Buchholz U, Tolksdorf K, Schilling J, Goerlitz L, Streib V, Preuß U, Prahm K, Haas W und die AGI-Studiengruppe: ARE-Wochenbericht KW 3/2023; Arbeitsgemeinschaft Influenza – Robert Koch-Institut | DOI: 10.25646/10989

Ausblick

Ausblick

LongCOVID

Vulnerable Gruppen

VIELEN DANK FÜR IHRE AUFMERKSAMKEIT UND BLEIBEN SIE GESUND!