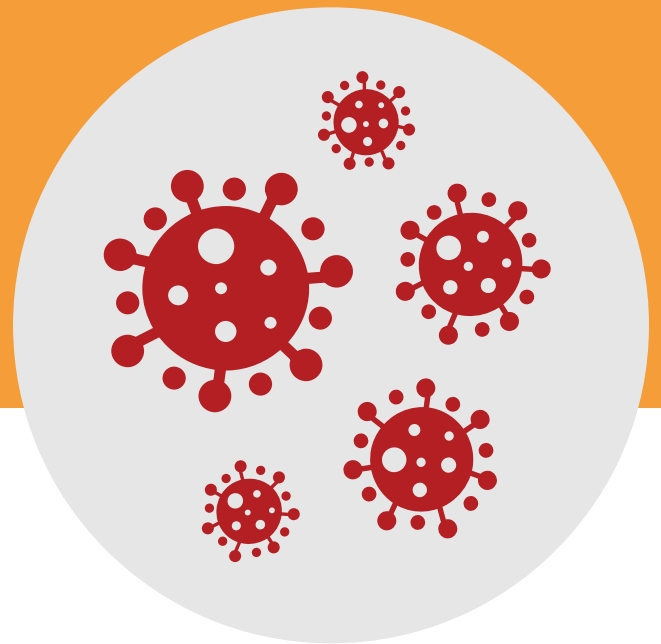




Covid-19

Rapport om omikronvarianten

03. jan. | 2022





Status of the SARS-CoV-2 variant Omicron in Denmark

Status for SARS-CoV-2 varianten omikron i Danmark

3rd January 2022

Data extracted: 3rd January 2022 at 10.00

Data opgjort: 3. januar 2022 kl. 10.00

Remarks on data reference of the report.

Omicron cases are identified through variant PCR (VPCR) and whole-genome sequencing (WGS). For this report, only cases confirmed by variant PCR are included. Due to data delays, some results from the most recent days may not be included in the report. Furthermore, small changes in data can occur retrospectively.

Until Sunday 19th December 2021 near all positive SARS-CoV-2 samples were tested with variant PCR to identify Omicron cases. As of Monday 20th December 2021 only a representative sample of the positive SARS-CoV-2 samples are tested with variant PCR at TCDK, hence, the number of identified Omicron cases does not represent the total number of Omicron cases in Denmark. In the Clinical Microbiological Departments the PCR samples from hospitalized patients are prioritized to be variant PCR tested.

There are currently registered a total of 57,125 B.1.1.529 (Omicron) SARS-CoV-2 cases in Denmark.

As of 3rd of January 2022, data on vaccination status is changed and the groups "Completed primary schedule" and "Revaccinated" only includes people with expected full effect defined as 14 days after vaccination.

Bemærkninger til datagrundlaget for rapporten.

Omikrontilfælde bekræftes ved brug af variant-PCR og helgenomssekventering (WGS). I denne rapport inkluderes kun data på tilfælde bekræftet ved variant-PCR. Da data opgøres med en vis forsinkelse vil nogle prøveresultater fra de seneste dages ikke indgå i rapporten. Yderligere, kan der ske mindre ændringer bagud i tid.

Frem til søndag 19. december 2021 blev stort set alle positive SARS-CoV-2 prøver testet med variant-PCR, for at afgøre om en person var smittet med omikronvarianten. Fra 20. december 2021 udtages der i TCDK kun et repræsentativt udsnit af de SARS-



CoV-2 positive prøver til test med variant-PCR. På de kliniske mikrobiologiske afdelinger prioriteres det at der tages variant-PCR test blandt de indlagte. Af den grund repræsenterer det samlede antal bekræftede omikrontilfælde ikke det fulde antal af omikrontilfælde i Danmark.

Der er for nuværende fundet 57.125 tilfælde af SARS-CoV-2 varianten omikron (B.1.1.529) i Danmark.

Pr. 3. januar 2022 er opgørelser på vaccinationsstatus ændret således at grupperne "Completed primary vaccination schedule" og "Revaccinated" kun inkluderer personer med forventet fuld effekt svarende til 14 dage efter vaccination.



Table 1. Number of Omicron cases in Denmark identified by variant PCR.*

Tabel 1. Antal omikrontilfælde i Danmark bekræftet ved variant PCR.*

Status	No. of Omicron cases confirmed by VPCR	No. of Omicron cases since last report
Variant PCR matching B.1.1.529	57,125	2,509

*Note that only a representative number of positive SARS-CoV-2 tests are tested with variant-PCR at TCDK, however the hospital prioritizes to make a variant PCR test of all hospitalized individuals. The change in number of cases since last report includes the total number of new positive test results and does not refer to a specific sample date.

*Bemærk at der nu kun udtages et repræsentativt antal positive SARS-CoV-2 prøver til variant-PCR i TCDK, hvorimod der på hospitalerne prioriteres prøver til variant-PCR hos indlagte. Ændringen i antal cases siden sidste rapport beskriver det samlede antal nye positive prøveresultater siden sidste rapport og refererer ikke til en specifik prøvedato.



Table 2. Number of confirmed SARS-CoV-2 cases, Omicron cases, samples tested with variant PCR and percentage of omicron cases with 95% confidence interval per day*

Tabel 2. Antal bekræftede SARS-CoV-2-tilfælde, antal omikron tilfælde, antal prøver testet med variant-PCR og andel af omikrontilfælde med 95% sikkerhedsinterval pr. dag*

Date	Total no. of confirmed SARS-CoV-2 cases	No. of confirmed Omicron cases at KMA	No. of confirmed Omicron cases at TCDK	No. of TCDK samples tested by VPCR	Proportion of confirmed Omicron cases out of VPCR tested TCDK samples (%)	95% confidence interval
21-11-2021	3,693	0	2	130	1.5%	0.2%-5.5%
22-11-2021	4,514	0	0	197	0 %	0%-1.9%
23-11-2021	4,718	0	0	231	0 %	0%-1.6%
24-11-2021	4,034	0	0	3,505	0 %	0%-0.1%
25-11-2021	4,106	0	0	3,658	0 %	0%-0.1%
26-11-2021	4,164	1	0	3,703	0 %	0%-0.1%
27-11-2021	3,853	0	2	3,637	0.1%	0%-0.2%
28-11-2021	3,892	0	9	3,581	0.3%	0.1%-0.5%
29-11-2021	5,098	0	11	4,534	0.2%	0.1%-0.4%
30-11-2021	5,426	2	24	4,887	0.5%	0.3%-0.7%
01-12-2021	4,554	0	76	4,023	1.9%	1.5%-2.4%
02-12-2021	4,595	2	57	4,013	1.4%	1.1%-1.8%
03-12-2021	5,182	6	74	4,626	1.6%	1.3%-2%
04-12-2021	5,107	1	107	4,730	2.3%	1.9%-2.7%
05-12-2021	4,809	8	158	4,467	3.5%	3%-4.1%
06-12-2021	7,117	17	325	6,416	5.1%	4.5%-5.6%
07-12-2021	7,354	74	502	6,558	7.7%	7%-8.3%
08-12-2021	6,696	75	632	5,921	10.7%	9.9%-11.5%
09-12-2021	6,669	95	689	5,904	11.7%	10.9%-12.5%
10-12-2021	6,961	84	802	6,060	13.2%	12.4%-14.1%
11-12-2021	6,716	55	1053	6,097	17.3%	16.3%-18.2%
12-12-2021	7,168	72	1484	6,371	23.3%	22.3%-24.4%
13-12-2021	10,625	280	2626	8,873	29.6%	28.7%-30.6%
14-12-2021	11,539	419	3963	9,981	39.7%	38.7%-40.7%
15-12-2021	11,235	420	4658	9,860	47.2%	46.3%-48.2%
16-12-2021	10,603	471	4273	8,952	47.7%	46.7%-48.8%
17-12-2021	11,075	402	4999	9,312	53.7%	52.7%-54.7%
18-12-2021	10,465	178	4889	8,559	57.1%	56.1%-58.2%
19-12-2021	10,641	113	4625	7,343	63.0%	61.9%-64.1%
20-12-2021	13,954	150	1634	2,549	64.1%	62.2%-66%
21-12-2021	13,722	101	2371	3,102	76.4%	74.9%-77.9%
22-12-2021	12,299	90	1048	1,328	78.9%	76.6%-81.1%
23-12-2021	13,298	63	2627	3,310	79.4%	78%-80.7%
24-12-2021	7,428	64	506	604	83.8%	80.6%-86.6%
25-12-2021	8,264	91	685	869	78.8%	76%-81.5%
26-12-2021	11,569	91	1911	2,203	86.7%	85.3%-88.1%
27-12-2021	24,017	124	4026	4,508	89.3%	88.4%-90.2%
28-12-2021	23,326	83	1211	1,345	90.0%	88.3%-91.6%
29-12-2021	18,375	73	297	320	Data pending	Data pending
30-12-2021	20,466	44	592	651	Data pending	Data pending
31-12-2021	10,261	32	202	219	Data pending	Data pending
01-01-2022	9,132	24	155	163	Data pending	Data pending
02-01-2022	4,713	15	0	0	Data pending	Data pending
03-01-2022	2	0	0	0	Data pending	Data pending

*The number of cases for the past few days are associated with some uncertainty due to data delays.

*Antal tilfælde for de sidste dage forbundet med en del usikkerhed, da der kan forekomme forsinkelser i data.

**Clinical Microbiology Department (KMA), TestCenter Denmark (TCDK).

**Klinisk Mikrobiologisk Afdeling (KMA), TestCenter Danmark (TCDK).

The proportion of Omicron cases is calculated using only omicron variant PCR tested samples from Test Center Denmark. We expect that the calculated proportion is representative for all the confirmed SARS-CoV-2 cases.

Bemærk at andelen af omikrontilfælde er beregnet udelukkende på prøver undersøgt med omikron variant-PCR, udført af Testcenter Danmark. Det vurderes at den beregnede andel er repræsentativt for det samlede bekræftede SARS-CoV-2-tilfælde.



Please also refer to the latest variant PCR report on [ssi.dk](https://www.ssi.dk).
 Se også den seneste opgørelse over variant-PCR på [ssi.dk](https://www.ssi.dk).

Table 3. Number of Omicron cases by region, for the last two weeks. The table includes data until (including) 26th December 2021.

Tabel 3. Regional fordeling af omikron tilfælde de sidste to hele uger. Tabellen inkluderer data til og med 26. december 2021.

Region	Week: 2021-50					
	No. of confirmed SARS-CoV-2 cases	No. of confirmed Omicron cases at KMA	No. of confirmed Omicron cases at TCDK	No. of TCDK samples tested by Variant-PCR	Proportion of confirmed Omicron cases out of VPCR tested TCDK samples (%)	Binomial 95% confidence interval
Capital Region of Denmark	38,099	1,556	17,870	29,589	60.4%	59.8%-61%
Region Zealand	10,123	205	2,848	8,329	34.2%	33.2%-35.2%
Region of Southern Denmark	10,088	164	2,633	8,853	29.7%	28.8%-30.7%
Central Denmark Region	12,873	280	5,141	11,692	44.0%	43.1%-44.9%
North Denmark Region	4,629	68	1,429	4,198	34.0%	32.6%-35.5%
Not registered	371	10	112	219	51.1%	44.3%-57.9%
Total	76,183	2,283	30,033	62,880	47.8%	47.4%-48.2%

Region	Week: 2021-51					
	No. of confirmed SARS-CoV-2 cases	No. of confirmed Omicron cases at KMA	No. of confirmed Omicron cases at TCDK	No. of TCDK samples tested by Variant-PCR	Proportion of confirmed Omicron cases out of VPCR tested TCDK samples (%)	Binomial 95% confidence interval
Capital Region of Denmark	38,368	239	6,851	8,203	83.5%	82.7%-84.3%
Region Zealand	10,611	51	1,870	2,716	68.9%	67.1%-70.6%
Region of Southern Denmark	11,143	119	688	1,069	64.4%	61.4%-67.2%
Central Denmark Region	14,540	95	974	1,347	72.3%	69.8%-74.7%
North Denmark Region	5,262	143	350	569	61.5%	57.4%-65.5%
Not registered	610	3	49	61	80.3%	68.2%-89.4%
Total	80,534	650	10,782	13,965	77.2%	76.5%-77.9%



Figure 1. Number of cases with Omicron, other SARS-CoV-2 variants and unknown variant Omicron by age group and week. The figure includes data from 29th of November to 28th of December 2021, thus week 52 is not yet complete.

Figur 1. Antal tilfælde med omikron, andre SARS-CoV-2 varianter og ukendt variant, pr. aldersgruppe og uge. Figuren er opgjort i perioden fra 29. november 2021 til 28. december 2021, hvorfor uge 52 endnu ikke er komplet.

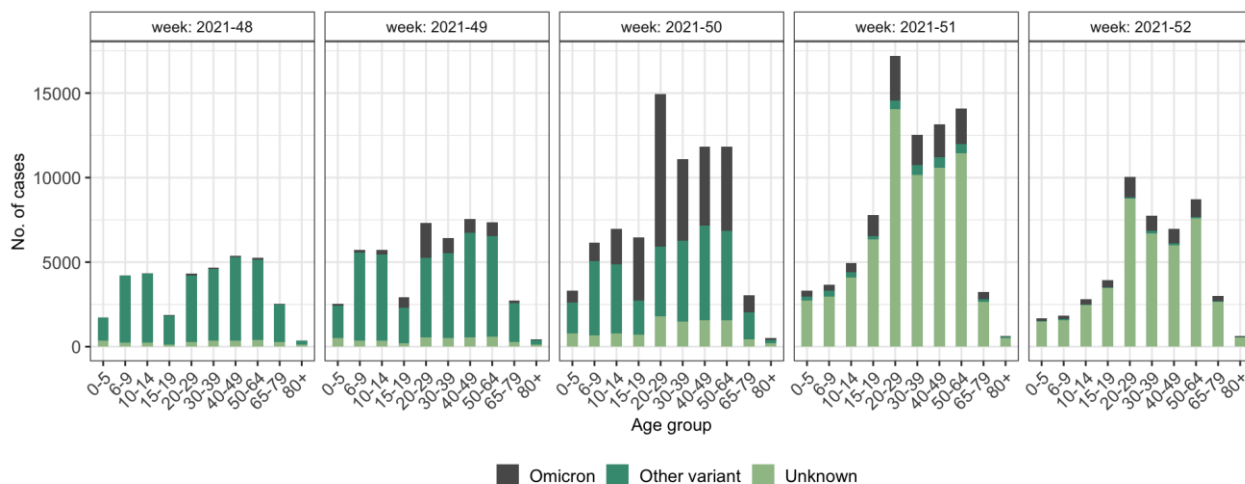


Figure 2. Proportion of Omicron, other SARS-CoV-2 variants and unknown variant by age group and week. The figure includes data from 29th of November to 28th of December 2021 thus week 52 is not yet complete.

Figur 2. Andel af tilfælde med omikron, andre SARS-CoV-2 varianter og ukendt variant, pr. aldersgruppe og uge. Figuren er opgjort i perioden fra 29. november 2021 til 28. december 2021 hvorfor uge 52 endnu ikke er komplet.

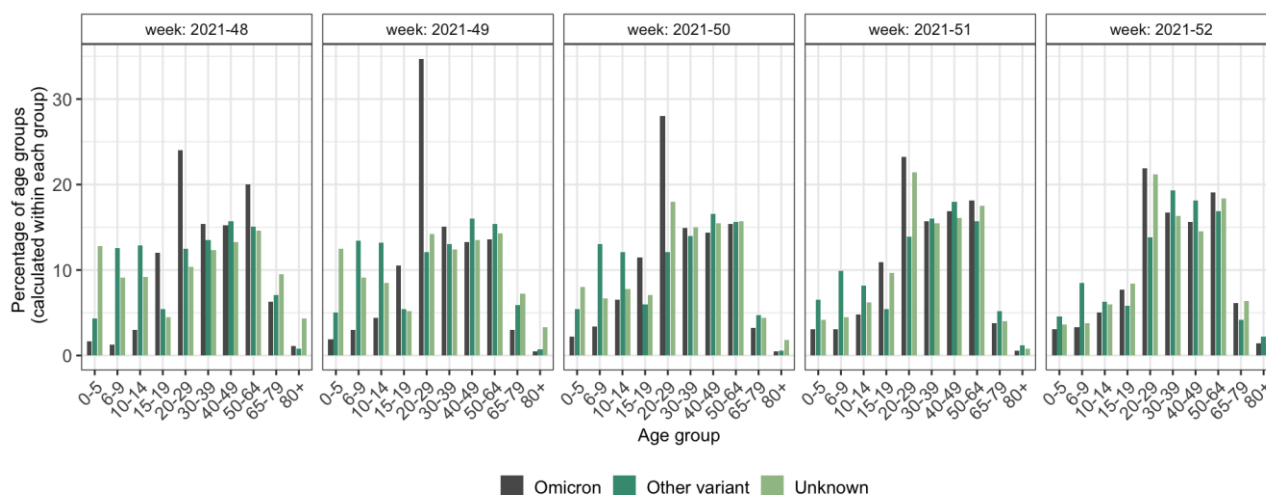




Table 4. Vaccination status for individuals ≥ 12 years infected with Omicron compared to other variants, from 21st of November to 28th of December 2021. The table includes only samples taken at TCDK where the variant PCR answer is known.

Tabel 4. Vaccinationsstatus for personer ≥ 12 år med omikron-infektion sammenlignet med andre varianter i perioden fra 21. november 2021 til 28. december 2021. Tabellen indeholder kun data på prøver taget hos TCDK med kendt variant-PCR svar.

Vaccination status (12+ year olds)	Other variants (No. of cases)	Other variants (%)	Omicron (No. of cases)	Omicron (%)
Not vaccinated	21,736	23.8	4,187	8.7
Received first dose	3,307	3.6	1,163	2.4
Completed primary vaccination schedule	63,925	70.1	39,678	82.7
Revaccinated	2,258	2.5	2,963	6.2
Total	91,226	100	47,991	100

Individuals aged 5-11 years have only recently been invited for COVID-19 vaccination, hence the vaccination coverage is relatively low in this age group and not included in Table 4.

Personer i aldersgruppen 5-11 år er for nyligt blevet inviteret til covid-19-vaccination, hvorfor vaccinationstilslutningen i denne aldersgruppe foreløbigt er begrænset. Denne aldersgruppe er derfor ikke inkluderet i Tabel 4.

Table 5. Number of Omicron related hospitalizations at the time of data extraction, 2th of January 2022*

Tabel 5. Antal omikron-relaterede indlæggelser på tidspunktet for dataopgørelse, 2. januar 2022*

Omicron related hospitalizations	No. of cases
Hospitalized	112
Hospitalized in ICU	<5

* Figures below five cannot be disclosed due to GDPR

* Af hensyn til GDPR kan antal under 5 ikke oplyses



Table 6. Number and proportion of Omicron-related hospital admissions compared to other variants, data included in the table are from 21st of November to 28th of December 2021. The table includes only samples with a known variant.

Tabel 6. Antal og andel omikronrelaterede indlæggelser sammenlignet med andre varianter i perioden fra 21. november 2021 til 28. december 2021. Tabellen indeholder kun data på prøver med en kendt variant.

Hospital admissions in total	Other variants (No. of cases)	Other variants (%)	Omicron (No. of cases)	Omicron (%)
Have not been hospitalized	125,716	98.8	55,165	99.1
Tested positive 48 hrs or more after admission	117	0.1	72	0.1
Tested positive prior or within 48 hrs after admission	1,413	1.1	454	0.8
Total	127,246	100	55,691	100

Tested positive 48 hrs or more after admission: Includes all individuals who have been admitted more than 48 hours before they tested positive for Omicron. This number covers all hospital-acquired Omicron cases.

Tested positive prior or within 48 hrs after admission: Includes all individuals who have tested positive before being admitted, or who tested positive up to 48 hours after admission.

Tested positive 48 hrs or more after admission: Inkluderer alle personer der har været indlagt mere end 48 timer før vedkommende testede positiv for omikron. Dvs., dette tal dækker over hospitals-erhvervede omikron tilfælde.

Tested positive prior to, or within 48 hrs after admission: Inkluderer alle personer der er testet positiv før de indlægges eller testes positiv op til 48 timer efter indlæggelse.



Table 7. Vaccination status for individuals infected with Omicron compared to other variants, from 21st of November to 28th of December 2021. The table only includes samples with a known variant.

Tabel 7. Vaccinationsstatus for personer med omikron-infektion sammenlignet med andre varianter i perioden fra 21. november 2021 til 28. december 2021. Tabellen indeholder kun data på prøver med en kendt variant.

Vaccination status among individuals tested positive prior or within 48 hrs after admission	Other variants (No. of cases)	Other variants (%)	Omicron (No. of cases)	Omicron (%)
Not vaccinated	641	45.4	109	24
Received first dose	39	2.8	24	5.3
Completed primary vaccination schedule	617	43.7	239	52.6
Revaccinated	116	8.2	82	18.1
Total	1,413	100.1	454	100



Table 8. Age distribution for individuals infected with Omicron compared to other variants, from 21st of November to 28th of December 2021. The table only includes samples with a known variant.

Tabel 8. Aldersfordeling for personer med omikron-infektion sammenlignet med andre varianter i perioden fra 21. november 2021 til 28. december 2021. Tabellen indeholder kun data på prøver med en kendt variant.

Age distribution among individuals tested positive prior or within 48 hrs after admission	Other variants (No. of cases)	Other variants (%)	Omicron (No. of cases)	Omicron (%)
0-5	36	2.5	29	6.4
6-14	49	3.4	11	2.4
15-19	17	1.2	21	4.6
20-29	118	8.4	82	18.1
30-39	208	14.7	72	15.9
40-49	211	14.9	55	12.1
50-64	311	22	75	16.5
65-79	317	22.4	65	14.3
80+	146	10.3	44	9.7
Total	1,413	99.8	454	100



Table 9. Number and proportion of Omicron related deaths compared to other variants, data included in the table are from 21st of November to 28th of December 2021. The table only includes samples with a known variant.

Tabel 9. Antal og andel omikron-relaterede dødsfald sammenlignet med andre varianter i perioden fra 21. november 2021 til 28. december 2021. Tabellen indeholder kun data på prøver med en kendt variant.

Dead within 30 days after a positive test	Other variants (No. of cases)	Other variants (%)	Omicron (No. of cases)	Omicron (%)
No	127,146	99.9	55,673	100
Yes	100	0.1	18	0
Total	127,246	100	55,691	100

Table 10. Number of Omicron related deaths at the time of data extraction, 2th of January 2022

Tabel 10. Antal omikron-relaterede dødsfald på tidspunktet for dataopgørelse, 2. januar 2022

Dead within 30 days after a positive test	No. of cases	Percentage (%)
No	57,107	100
Yes	18	0
Total	57,125	100