



COVID-19 and Children's Surveillance Report

Number 7

Compiled: 24 January 2022





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Overview

- This weekly summary documents the latest COVID-19 surveillance data in children and adolescents, with a focus on Victoria and New South Wales (NSW) as well as specific countries that are relevant to the Australian context because of their size, COVID-19 epidemiology, the mitigation measures in place and data availability.
- Data on Multisystem Inflammatory Syndrome in Children (MIS-C), otherwise known as Paediatric Inflammatory Multisystem Syndrome (PIMS-TS), is also searched for but is not always available.
- This report is updated weekly using the most recently available data from government websites.
- Surveillance data for the Omicron variant of concern is included for most countries in this report.
- The number of infections in unvaccinated and vaccinated children (as vaccines have little effect against Omicron infection but are still highly effective against severe disease) may also increase if school mitigation measures are few, or there are changes to testing criteria and the adoption of screening in schools. The number of cases will be biased towards the age groups that are tested most.



Summary

- Throughout 2021, the proportion of infections in unvaccinated children generally increased as vaccination of adults increased.^{1,2} This proportion is likely to increase irrespective of vaccination status as vaccines have low effectiveness against Omicron infection. Many countries are now vaccinating adolescents and others, including Australia, most European countries, Singapore and the USA, have begun vaccinating children aged 5 years and over.
- With the predominance of Omicron in many settings and with vaccines having low effectiveness against infection, the age distribution of infection has changed again. Early reports from NSW, the UK and Denmark, regions which have intensive surveillance, indicate that transmission mainly occurs in 20-29 year olds for now, with children and adolescents less affected. However, some settings have had lockdowns and closed schools and other settings have only just started to open schools again, so these mobility changes have started to change the age distribution over time.
- COVID-19 epidemiology in children and adolescents varies by setting.
- Many schools were closed for the end-of-year holidays and some have reopened in early January 2022.
- The Omicron variant of concern³ was first reported from South Africa on 25 November 2021. At the time of writing, it has been detected in 123 countries⁴, up from 118 countries in the last report. Omicron is now the predominant variant across many countries due to its high transmissibility, including in Australia, South Africa, the UK and USA.
- There has been an increase in paediatric hospitalisations but this has been a combination of admission for COVID-19 treatment and incidentally testing positive when admitted for an unrelated condition.⁵ Nevertheless, being a COVID-19 positive patient presents its own health care and workforce challenges.
- While paediatric infections and hospitalisations are rising in the US, the outcomes are less severe with Omicron compared to Delta.⁶
- Up until school holidays and before the predominance of the Omicron variant, infections appeared to be stable in children and adolescents in **Victoria** and declined in **NSW** with the return of face-to-face learning despite many school infections. This could be attributable to high vaccine coverage in ≥12 year olds and implementation of mitigation measures in schools including test, trace, isolate and quarantine (TTIQ).
- Victoria** closed schools for holidays from 18 December 2021. Early childhood centres have remained open.
 - Density limits have been reintroduced with work from home default, indoor mask wearing is required for all aged 8 years and older.
 - Schools will reopen on 28 January 2022 with multi-layered mitigation strategies in place, including twice-weekly surveillance rapid antigen tests (RAT), mandatory third vaccine dose for staff, supply of air-purification devices and masks required for all staff and students grade 3 and above, and encouraged in younger students. Remote learning will be considered as a localised, short-term last resort.
 - Approximately 86% of 12-15 year olds have received at least one dose of a COVID-19 vaccine. Children aged 5-11 years became eligible for vaccination from 10 January 2022, two doses given eight weeks apart, and ~30% have received their first dose.
 - There is now a clear downward trend of infections, with ~17,000 confirmed cases per day in all ages.
 - Omicron is the dominant variant, detected in ~76% of samples collected in late December 2021.
 - Infections are highest in the 30-39 year age group followed by the 20-29 years. Infections are decreasing in all age groups.
 - Testing capacity has been constrained in all ages due to increased demand. Since 8 January 2022, Victorian daily case numbers include both PCR and RAT positive results.
 - There is no hospitalisation data available by age, but overall numbers are beginning to stabilise.
 - Two children have died with COVID-19 throughout the entire pandemic.
- NSW** schools closed for holidays from 18 December 2021. Early childhood centres have remained open.
 - Indoor mask wearing is required for all aged 12 years and older.
 - Schools will reopen on 28 January 2022 with multi-layered mitigation strategies in place, including twice-weekly surveillance RAT, mandatory third vaccine dose for staff, supply of air-purification devices, masks required for all staff and high school students, and cohorting.
 - Approximately 83% of 12-15 year olds have received at least one dose of vaccine. Children aged 5-11 years are now eligible for vaccination and ~28% have received their first dose.

¹ Russell FM, Anderson V, Crawford N, Curtis N, Danchin M, Goldfeld S, Hart J, Keeble T, Medley T, Mulholland K, Ranganathan S, Suryawijaya Ong D, Overmars I, Perrett K, Steer A. COVID-19 in Early Childhood Education and Care & Schools. Research Brief Number 1, Version 1: 14 October 2021. Parkville, Victoria, Australia: Murdoch Children's Research Institute, The Royal Children's Hospital, University of Melbourne Department of Paediatrics; 2021. https://www.mcric.edu.au/sites/default/files/media/documents/covid-19_in_early_childhood_education_and_care_and_schools.pdf

² American Academy of Pediatrics (AAP). Children and COVID-19: State-Level Data Report 14 October 2021. Illinois, US: AAP; 2021. <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/>

³ World Health Organization (WHO). Update on Omicron 28 November 2021. Geneva, Switzerland: WHO; 2021. <https://www.who.int/news/item/28-11-2021-update-on-omicron>

⁴ GISAID. Tracking of Variants. Munich, Germany: GISAID; 2022. <https://www.gisaid.org/hcov19-variants/>

⁵ New York State Department of Health. Pediatric COVID-19 Update 07 January 2022. New York, US: New York State Department of Health; 2022. https://www.health.ny.gov/press/releases/2022/docs/pediatric_covid-19_hospitalization_report_summary.pdf

⁶ Wang L, Berger NA, Kaelber DC, Davis PB, Volkow ND, Xu R. Comparison of outcomes from COVID infection in pediatric and adult patients before and after the emergence of Omicron. medRxiv [preprint]. 2022;21268495. <https://doi.org/10.1101/2021.12.30.21268495>



- Case numbers are on a downward trend, with currently ~23,000 confirmed cases per day in all ages.
 - Omicron is the dominant variant.
 - Infections are highest in the 16-39 year age group and lowest in the 0-11 year age group.
- There is no data on hospitalisation trends by age, but overall hospitalisations have increased in recent weeks.
 - From late November 2021 to early January 2022, 7 children aged 0-9 years were admitted to ICU, and 4 unvaccinated and 4 fully vaccinated adolescents aged 10-19 years were admitted to ICU.
- Two children have died with COVID-19 throughout the entire pandemic.
- **In Europe and North America**, cases are on the rise across all age groups in many countries, although there is now a downward trend in several countries and regions, including the United Kingdom, Canada and several states in the USA.
- **Canada** closed its schools for the holidays in December 2021 and they reopened in mid-January 2022.
 - Public Health and Social Measures (PHSM) vary by province. Ontario introduced further restrictions including closure of indoor dining.
 - Since November 2021, all 5-11 year olds have been offered vaccine with an eight week interval between doses. Approximately 51% of 5-11 year olds and 88% of 12-17 year olds have received at least one dose of vaccine.
 - There was a steep increase in infections due to the Omicron variant, which overtook the Delta variant, but there is now a steep downward trend in all age groups.
 - There is no data on hospitalisation trends by age, but overall hospitalisations have increased in recent weeks.
 - In the Province of British Columbia, rising case rates among children since August 2021 (Delta wave) have not translated to an increase in hospitalisations (data to Report #5, 10 January 2022).
 - There have been 27 deaths with COVID-19 in children aged 0-19 years throughout the entire pandemic.
- **Denmark** closed their schools early for the end-of-year holidays and they reopened in early January 2022.
 - Additional PHSM were reintroduced, including a partial lockdown due to a rapid rise in COVID-19 cases due to Omicron. Restrictions were eased in mid-January 2022, including the reopening of certain public venues.
 - Approximately 82% of the population aged 12+ have received at least one dose of vaccine. The 5-11 year old vaccination program commenced in late November 2021.
 - Total infection rates continue to remain on a steep upward trend, although this is stabilising in the 50+ year age groups.
 - Omicron is now the predominant variant, causing >90% of all infections.
 - Hospitalisations in children have remained relatively stable.
 - There have been three deaths with COVID-19 in children aged 0-19 years throughout the entire pandemic.
- **England** reopened its schools in early January 2022 following the end-of-year holidays.
 - Additional PHSM were reintroduced in late November 2021, including indoor mask wearing, work from home default and proof of vaccination. RAT is available for all twice weekly.
 - Approximately 53% of 12-15 year olds and 66% of 16-17 year olds have received at least one dose of vaccine. Vaccination in 5-11 year olds is only recommended for immunocompromised children.
 - Infections across most age groups remain high but are now on a downward trend overall, except the 5-9 year age group.
 - Omicron is now the predominant variant.
 - Infection rates are now highest in the 5-9 year age group and continue to increase. Infections in the 0-4 year age group are also on an upward trend, although infections remain lower than adults.
 - Overall hospitalisations are stabilising.
 - There was a steep increase in 0-4 year olds but rates in children remain the lowest compared to all other age groups.
 - Hospitalisations include children who test positive, irrespective of the reason for admission, so is an overestimate of hospitalisations for treatment of COVID-19.
 - Children admitted to hospital with Omicron require less support and are discharged earlier, compared to children admitted earlier in the pandemic.⁷
 - There have been 78 deaths with COVID-19 in children aged 0-19 years in the past year.

⁷ Torjesen I. COVID-19: Omicron variant is linked to steep rise in hospital admissions of very young children. BMJ. 2022;376:o110. <https://doi.org/10.1136/bmj.o110>



- **Finland** reopened its schools in early January 2022 following the end-of-year holidays. There are no restrictions on children's activities.
 - Additional restrictions were reintroduced in late December 2021, including indoor mask wearing, proof of vaccination, work from home default and density limits. Further restrictions were introduced in January 2022, including limits on household visitors, hospitality opening hours and access to public places.
 - Approximately 76% of 12-15 year olds and 83% of 16-19 year olds have received at least one dose of vaccine (data to Report #6, 17 January 2022). All children aged 5-11 years are now offered vaccine.
 - There continues to be a steep increase in infections in all age groups, especially in the 15-24 year olds. Infection rates are similar between people who are vaccinated or unvaccinated in most age groups (data to Report #6, 17 January 2022).
 - Overall hospitalisations continue to increase (data to Report #6, 17 January 2022). Data on hospitalisations by age group is no longer reported.
 - There have been no deaths in anyone <30 years old throughout the entire pandemic.
- **Scotland** reopened its schools in early January 2022 following the end-of-year holidays.
 - Restrictions eased in late January 2022, including removal of density and household visitor limits. Hybrid work arrangements will be re-introduced, replacing the direction to work from home. Indoor mask wearing remains mandatory. Despite having more restrictions than England, infection rates (1 in 20) were the same.⁸
 - Approximately 68% of 12-15 year olds and 82% of 16-17 year olds have received at least one dose of vaccine. Vaccination in 5-11 year olds is recommended for immunocompromised children.
 - Infections across all age groups are now decreasing.
 - Omicron is responsible for >90% of infections.
 - The 20-39 year age group continues to have the highest rates of infection.
 - Hospitalisations in children are on the rise, primarily in the <1 year age group. Hospitalisations also include children who test positive, irrespective of the reason for admission, so is an overestimate of hospitalisations for treatment of COVID-19.
 - There have been 2 deaths due to COVID-19 in children aged 0-14 years in the past year.
- **Singapore** reopened its schools in early January 2022 following the end-of-year holidays.
 - Restrictions were reintroduced in late September 2021, including indoor and outdoor mask wearing, work from home default and density limits.
 - Approximately 91% of the entire population has received at least one dose of vaccine. All children aged 5-11 years are now offered vaccine.
 - Currently there is an upward trend in overall infections with ~3100 cases per day, primarily in the 20-39 year age group.
 - Overall hospitalisations are increasing, although admissions remain lowest in children.
 - A total of five cases of MIS-C have been reported (up to 8 November 2021), all from the Delta wave in mid-late 2021. There has been one ICU admission due to MIS-C.
 - There have been no deaths in children throughout the entire pandemic.
- **South Africa** reopened its schools in early January 2022 following the end-of-year holidays.
 - Certain restrictions such as the curfew and density limits were eased since late December 2021.
 - Approximately 46% of the entire population is fully vaccinated. Vaccination for children 5-11 years old is not available.
 - There was a rapid increase in infections due to Omicron in all age groups but this has rapidly decreased, with children <19 years having the lowest infection rates.
 - Overall hospitalisations are also now decreasing. However, many admissions were incidental (admitted for other reasons and subsequently test positive).
 - There have been 788 deaths with COVID-19 in children aged 0-19 years throughout the entire pandemic. This accounts for <1% of all COVID-19 deaths in the country.
- In the **United States**, schools have reopened in several States and Territories following the end-of-year holidays.
 - The US Centres for Disease Control and Prevention (CDC) recommend multi-layered PHSM, but adoption varies by State and Territory.
 - Approximately 29% of 5-11 year olds and 66% of 12-17 year olds have received at least one dose of vaccine. Since November 2021, all children aged 5-11 years have been offered vaccine with a three-week interval between doses.
 - There are large differences in infection and hospitalisation rates and the number of deaths in children between States and Territories, most likely due to differences in vaccination coverage and adherence to PHSM.
 - Infections remain high but are stabilising in many US states. Infections are highest in the 18-39 year age group.
 - An estimated >99% infections were due to Omicron as of 15 January 2022.

⁸ Office for National Statistics (ONS). Coronavirus (COVID-19) Infection Survey, UK: 21 January 2022. London, UK: ONS; 2022. <https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/coronaviruscovid19infectionsurvey/pilot/latest>



- There was an increase in hospitalisation rates among children aged 0-4 years, but rates are now decreasing.
- There have been 727 deaths with COVID-19 in children aged 0-17 years throughout the entire pandemic. This accounts for <0.1% of all COVID-19 deaths in the country.
 - Texas has had the highest number of child deaths (121) and there are four States that have reported 0 deaths throughout the entire pandemic.⁹
- A total of 6431 cases of MIS-C have been reported, including 55 deaths (data to Report #5, 10 January 2022).
 - There does not appear to be an increase in MIS-C despite the surge of Omicron cases, but surveillance is ongoing.
- The State of New York experienced its Omicron surge in December 2021. Rates of COVID-19 hospitalisation increased exponentially in all paediatric age groups but were very low compared to adults.¹⁰ 70% of children who contracted COVID-19 and were hospitalised were symptomatic and 54% had no comorbidities. The hospitalisation rate in children was 0.17 per 100,000 amongst those vaccinated vs 0.73 per 100,000 amongst those unvaccinated.
- Hospitalisations and deaths include all children who test positive, irrespective of the reason for admission or death, so is likely an overestimate of hospitalisations and deaths due to COVID-19.

Summary of COVID-19 epidemiology in children and adolescents

Country	Cases	Hospitalisations	MIS-C/PIMS-TS	Deaths [^]
VIC, Australia	↓	Not available	Not reported	2 ^b
NSW, Australia	↓	↑*	Not reported	2 ^b
Canada	↓	↑*	Not reported	27 ^b
Denmark	↑	Stable	Not reported	3 ^b
England, UK	↓	Stable	Not reported	78 ^{b,#}
Finland	↑	↑*	Not reported	0
Scotland, UK	↓	↑*	Not reported	2 ^{a,#}
Singapore	↑	↑	5 cases	0
South Africa	↓	↓*	Not reported	788 ^b
USA	Stable	↓	6431 cases	727 ^b

Note: Trends and values are for children only, unless otherwise specified.

*Available data includes both children and adults.

[^]Age range for child deaths between 0-19y except Scotland (0-14y) and USA (0-17y). Deaths ^adue to COVID-19 or ^bwith COVID-19. [#]In the past year.

⁹American Academy of Pediatrics (AAP). Children and COVID-19: State-Level Data Report 30 December 2021. Illinois, US: AAP; 2021. <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/>
¹⁰New York State Department of Health. Pediatric COVID-19 Update 07 January 2022. New York, US: New York State Department of Health; 2022. https://www.health.ny.gov/press/releases/2022/docs/pediatric_covid-19_hospitalization_report_summary.pdf



List of abbreviations

Abbreviation	Term
CDC	US Centres for Disease Control and Prevention
MIS-C	Multisystem inflammatory syndrome in children
NSW	New South Wales, Australia
PCR	Polymerase chain reaction
PHSM	Public health & social measures
PIMS-TS	Paediatric inflammatory multisystem syndrome
RAT	Rapid antigen testing
TTIQ	Test, trace, isolate, quarantine



Australia: Victoria (population 6.6 million)

PHSM ¹¹	Schools & mitigation ¹²	Vaccination coverage ^{13, 14}																																																						
<p>Indoor mask-wearing required for all aged 8+, all shops open, TTIQ, QR check-in, proof of vaccination to attend some premises.</p> <p>From Jan 2022, density limits reintroduced and work from home default. A positive RAT result is reported as a “probable” COVID-19 case (treated as a PCR positive case and reported in daily case numbers). Certain essential workers can be exempt from close contact home isolation requirements to attend work.</p>	<p>All students returned to onsite fulltime schooling from 1 Nov and all closed for holidays from 18 Dec 2021.</p> <p>Students will return to onsite learning from 28 Jan 2022. Multi-layered mitigation strategies will be introduced, including twice-weekly surveillance RAT, mandatory third vaccine dose for staff, supply of air-purification devices, masks required for all staff and students grade 3 and above. Remote learning will be considered as a localised, short-term last resort.</p>	<p>Age group</p> <table border="1"> <thead> <tr> <th>(years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>5-11</td> <td>30.3</td> <td>-</td> <td>-</td> </tr> <tr> <td>12-15</td> <td>88.6</td> <td>84.4</td> <td>-</td> </tr> <tr> <td>16+</td> <td>94.1</td> <td>92.8</td> <td>-</td> </tr> <tr> <td>18+</td> <td>-</td> <td>-</td> <td>32.0</td> </tr> </tbody> </table> <p>Fourth dose for immunocompromised recommended from early Jan 2022, booster dose available to all eligible adults aged 18y+. Three primary dose recommendation extended to all severely immunocompromised people aged 5y+ from mid-Jan 2022. Vaccination for 5-11y available from 10 Jan 2022.</p>	(years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	5-11	30.3	-	-	12-15	88.6	84.4	-	16+	94.1	92.8	-	18+	-	-	32.0																																		
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Infections by age group ¹⁵	Hospitalisations in children ¹⁶	Deaths by age group ¹⁷																																																						
<p>Daily new cases (to 22/01/2022)</p> <p>From 8 Jan 2022, daily numbers include both PCR and RAT positive cases.</p>	<table border="1"> <thead> <tr> <th>Current cases in hospital</th> <th>1,002 cases in hospital</th> <th>84 cases in ICU</th> </tr> </thead> <tbody> <tr> <td colspan="3">No age breakdown</td> </tr> </tbody> </table>	Current cases in hospital	1,002 cases in hospital	84 cases in ICU	No age breakdown			<p>People who have passed away with COVID-19</p> <p>23/01/2022</p> <table border="1"> <thead> <tr> <th>Age group</th> <th>Male</th> <th>Female</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>00-09</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>10-19</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>20-29</td> <td>2</td> <td>1</td> <td>3</td> </tr> <tr> <td>30-39</td> <td>8</td> <td>1</td> <td>9</td> </tr> <tr> <td>40-49</td> <td>14</td> <td>7</td> <td>21</td> </tr> <tr> <td>50-59</td> <td>47</td> <td>30</td> <td>77</td> </tr> <tr> <td>60-69</td> <td>92</td> <td>50</td> <td>142</td> </tr> <tr> <td>70-79</td> <td>247</td> <td>142</td> <td>390</td> </tr> <tr> <td>80-89</td> <td>368</td> <td>305</td> <td>676</td> </tr> <tr> <td>90+</td> <td>191</td> <td>292</td> <td>484</td> </tr> <tr> <td>Total</td> <td>969</td> <td>830</td> <td>1,805</td> </tr> </tbody> </table> <p>Two children have died with COVID-19 throughout the pandemic, including one 15 year old and one child under 10 with multiple underlying conditions and in palliative care.</p>	Age group	Male	Female	Total	00-09	0	1	1	10-19	0	1	1	20-29	2	1	3	30-39	8	1	9	40-49	14	7	21	50-59	47	30	77	60-69	92	50	142	70-79	247	142	390	80-89	368	305	676	90+	191	292	484	Total	969	830	1,805
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¹¹ <https://www.coronavirus.vic.gov.au/coronavirus-covidsafe-settings>
¹² <https://www.coronavirus.vic.gov.au/education-information-about-coronavirus-covid-19>
¹³ <https://www.health.gov.au/resources/collections/covid-19-vaccination-daily-rollout-update>
¹⁴ <https://twitter.com/VicGovDH>
¹⁵ Data from: <https://www.coronavirus.vic.gov.au/victorian-coronavirus-covid-19-data>
¹⁶ <https://www.coronavirus.vic.gov.au/victorian-coronavirus-covid-19-data>
¹⁷ <https://www.coronavirus.vic.gov.au/additional-covid-19-case-data#cases-in-hospital>



Australia: New South Wales (population 8.2 million)

<p>PHSM¹⁸</p>	<p>Schools & mitigation¹⁹</p>	<p>Vaccination coverage^{20,21}</p>																																																																																																																																																								
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<p>Figure 2. Seven day backward rolling average of COVID-19 cases rate per 100,000 population by age and notification date, NSW, from 26 November 2021 to 8 January 2022</p>	<p>Hospitalisations among people diagnosed with COVID-19, by age group, NSW, 1 January 2020 to 8 January 2022</p> <table border="1"> <thead> <tr> <th rowspan="2">Age-group (years)</th> <th colspan="2">1 Jan 2020 – 15 Jun 2021</th> <th colspan="2">16 Jun – 25 Nov 2021</th> <th colspan="2">26 Nov 2021 – 8 Jan 2022</th> </tr> <tr> <th>Hospitalised</th> <th>Percentage of cases hospitalised</th> <th>Hospitalised</th> <th>Percentage of cases hospitalised</th> <th>Hospitalised</th> <th>Percentage of cases hospitalised</th> </tr> </thead> <tbody> <tr> <td>0-9</td> <td>5</td> <td>2%</td> <td>290</td> <td>2%</td> <td>185</td> <td>2%</td> </tr> <tr> <td>10-19</td> <td>8</td> <td>2%</td> <td>359</td> <td>3%</td> <td>124</td> <td>2%</td> </tr> <tr> <td>20-29</td> <td>23</td> <td>2%</td> <td>970</td> <td>7%</td> <td>428</td> <td>2%</td> </tr> <tr> <td>30-39</td> <td>43</td> <td>4%</td> <td>1,255</td> <td>10%</td> <td>502</td> <td>4%</td> </tr> <tr> <td>40-49</td> <td>41</td> <td>6%</td> <td>1,293</td> <td>14%</td> <td>390</td> <td>6%</td> </tr> <tr> <td>50-59</td> <td>59</td> <td>8%</td> <td>1,269</td> <td>19%</td> <td>440</td> <td>8%</td> </tr> <tr> <td>60-69</td> <td>85</td> <td>13%</td> <td>1,046</td> <td>27%</td> <td>525</td> <td>13%</td> </tr> <tr> <td>70-79</td> <td>68</td> <td>17%</td> <td>764</td> <td>40%</td> <td>679</td> <td>17%</td> </tr> <tr> <td>80-89</td> <td>40</td> <td>33%</td> <td>508</td> <td>54%</td> <td>660</td> <td>33%</td> </tr> <tr> <td>90+</td> <td>13</td> <td>31%</td> <td>128</td> <td>54%</td> <td>197</td> <td>31%</td> </tr> <tr> <td>Total</td> <td>385</td> <td>7%</td> <td>7,882</td> <td>10%</td> <td>4,100</td> <td>1%</td> </tr> </tbody> </table> <p>* There is often a delay between a person becoming ill with COVID-19 and subsequently requiring a hospitalisation or dying. Since 16 June 2021, the median time between onset and hospitalisation is 4 days and between onset and death is 13 days. Therefore hospitalisations and deaths are under-reported for the most recently notified cases.</p>	Age-group (years)	1 Jan 2020 – 15 Jun 2021		16 Jun – 25 Nov 2021		26 Nov 2021 – 8 Jan 2022		Hospitalised	Percentage of cases hospitalised	Hospitalised	Percentage of cases hospitalised	Hospitalised	Percentage of cases hospitalised	0-9	5	2%	290	2%	185	2%	10-19	8	2%	359	3%	124	2%	20-29	23	2%	970	7%	428	2%	30-39	43	4%	1,255	10%	502	4%	40-49	41	6%	1,293	14%	390	6%	50-59	59	8%	1,269	19%	440	8%	60-69	85	13%	1,046	27%	525	13%	70-79	68	17%	764	40%	679	17%	80-89	40	33%	508	54%	660	33%	90+	13	31%	128	54%	197	31%	Total	385	7%	7,882	10%	4,100	1%	<p>Table 7. Deaths following recent infection with COVID-19, by age group and location, 26 November 2021 to 8 January 2022</p> <table border="1"> <thead> <tr> <th rowspan="2">Age-group (years)</th> <th rowspan="2">Number of deaths</th> <th rowspan="2">Case fatality rate</th> <th colspan="2">Location of death</th> </tr> <tr> <th>Health care facility</th> <th>Aged care facility</th> </tr> </thead> <tbody> <tr> <td>0-9</td> <td>1</td> <td><1%</td> <td>0</td> <td>0</td> </tr> <tr> <td>10-19</td> <td>0</td> <td>0%</td> <td>0</td> <td>0</td> </tr> <tr> <td>20-29</td> <td>1</td> <td><1%</td> <td>1</td> <td>0</td> </tr> <tr> <td>30-39</td> <td>1</td> <td><1%</td> <td>1</td> <td>0</td> </tr> <tr> <td>40-49</td> <td>0</td> <td>0%</td> <td>0</td> <td>0</td> </tr> <tr> <td>50-59</td> <td>3</td> <td><1%</td> <td>3</td> <td>0</td> </tr> <tr> <td>60-69</td> <td>8</td> <td><1%</td> <td>8</td> <td>0</td> </tr> <tr> <td>70-79</td> <td>29</td> <td><1%</td> <td>25</td> <td>4</td> </tr> <tr> <td>80-89</td> <td>30</td> <td><1%</td> <td>28</td> <td>2</td> </tr> <tr> <td>90+</td> <td>25</td> <td>2%</td> <td>17</td> <td>7</td> </tr> <tr> <td>Total</td> <td>98</td> <td><1%</td> <td>83</td> <td>13</td> </tr> </tbody> </table>	Age-group (years)	Number of deaths	Case fatality rate	Location of death		Health care facility	Aged care facility	0-9	1	<1%	0	0	10-19	0	0%	0	0	20-29	1	<1%	1	0	30-39	1	<1%	1	0	40-49	0	0%	0	0	50-59	3	<1%	3	0	60-69	8	<1%	8	0	70-79	29	<1%	25	4	80-89	30	<1%	28	2	90+	25	2%	17	7	Total	98	<1%	83	13
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¹⁸ <https://www.nsw.gov.au/covid-19/stay-safe/rules>
¹⁹ <https://education.nsw.gov.au/covid-19/advice-for-families>
²⁰ <https://www.health.gov.au/resources/collections/covid-19-vaccination-daily-rollout-update>
²¹ <https://twitter.com/NSWHealth>
²² <https://www.health.nsw.gov.au/Infectious/covid-19/Pages/weekly-reports.aspx>
²³ <https://www.health.nsw.gov.au/Infectious/covid-19/Pages/weekly-reports.aspx>
²⁴ <https://www.health.nsw.gov.au/Infectious/covid-19/Pages/weekly-reports.aspx>

Canada (population 38 million)

PHSM²⁵

Standard PHSM including TTIQ and mask wearing encouraged in shared spaces and subject to local advice.

Ontario closed indoor dining from early Jan 2022.

Schools & mitigation²⁶

Closed for winter holidays in Dec 2021 and returned to school in mid-Jan 2022. Ontario resumed in-person learning following a brief switch to remote learning due to rising case numbers.

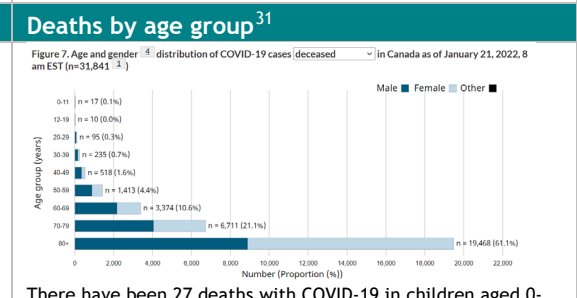
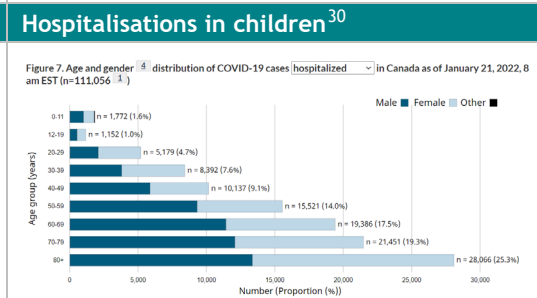
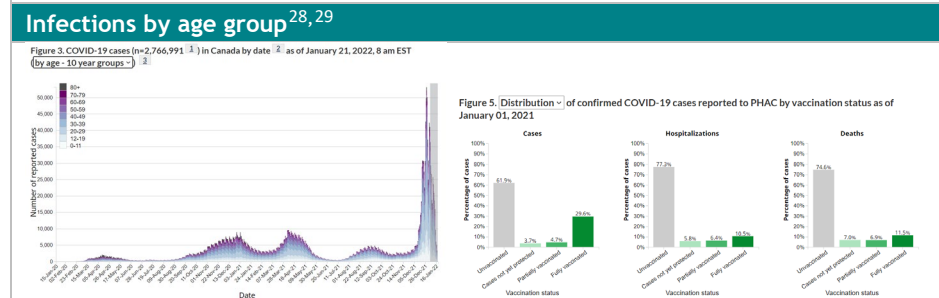
Standard PHSM and additional measures depending on local advice: physical distancing, cohorting, masks when required, screening tests. RATs provided to students in Ontario for return to in-person learning.

Vaccination coverage²⁷

Age group (years)	1 st dose (%)	Fully vacc.*	
		3 rd booster (%)	3 rd /booster (%)
Total pop.	83.4	77.5	16.6
5-11	51.1	5.1	-
12-17	87.5	82.9	0.9

*Canada also uses the J&J/Janssen vaccine which is a single-dose vaccine.

Third/booster doses have been available to high-risk individuals in phases since Sep 2021. Vaccination of 12y+ commenced mid-May and 5-11y in mid-Nov 2021.



British Columbia (pop. 5.1 million; data has not been updated since Report #4 04 Jan 2022):

Figure 3: December 2021 summary of BC public COVID-19 cases and outcomes, vaccine coverage, and school notifications and case clusters.

	April 0-4	April 5-11	April 12-17
CASES			
new this report	427	1,951	524
new this school year	2,077	8,339	2,953
total cases	6,200	17,409	13,339
HOSPITALIZATIONS			
new this report	7	6	5
new this school year	47	28	25
total hospitalizations	130	66	59
CRITICAL CARE			
new this report	0	1	4
new this school year	4	4	5
total critical care	12	6	12
DEATHS			
new this report	0	0	0
new this school year	0	0	0
total deaths	2	0	0
VACCINATIONS			
have 1 dose	Not eligible	24%	86%
have 2 doses	Not eligible	0%	82%
PUBLIC EXPOSURE NOTIFICATIONS			
1,609	158	158	
CASE CLUSTERS			
144	14	14	

Figure 6: Rate of COVID-19 cases by age group, BC, January 1 to December 14, 2021.

There have been 27 deaths with COVID-19 in children aged 0-19y throughout the pandemic.

Genomic surveillance³²

Figure 6: Genomic surveillance showing the percentage of samples sequenced over time, categorized by variant of concern.

Variant of concern	Percentage
Alpha	1.2%
Beta	1.4%
Gamma	1.8%
Other variants	0.8%

²⁵ <https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/prevention-risks.html>

²⁶ <https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/guidance-documents/planning-2021-2022-school-year-vaccination.html>

²⁷ <https://health-infobase.canada.ca/covid-19/vaccination-coverage/>

²⁸ <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html>

²⁹ <https://www.bccdc.ca/schools/news-resources/data-for-k12>

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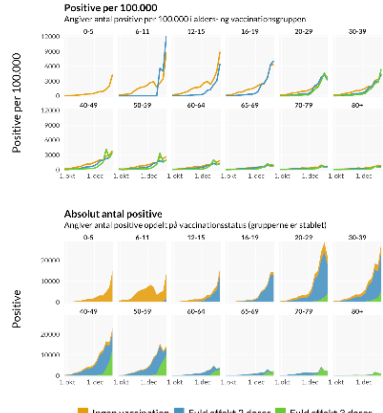
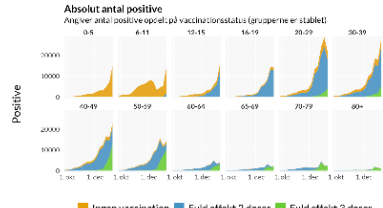
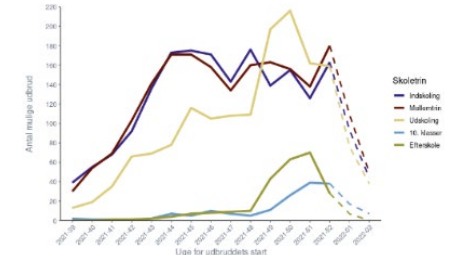
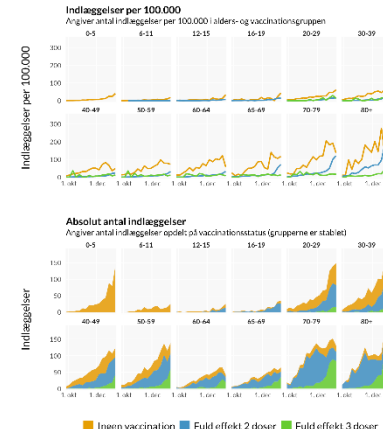
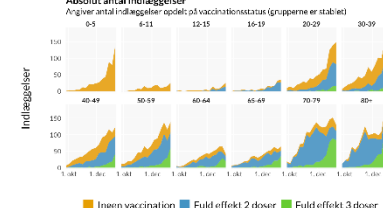
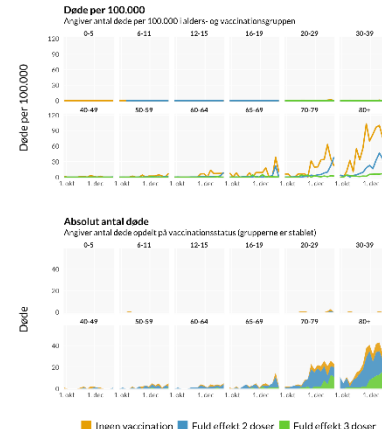
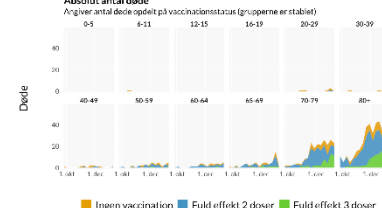
³¹ <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html>

³² <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html>



Denmark

(population 5.9 million)

<p>PHSM³³</p> <p>Partial lockdown reinstated from 19 Dec 2021. Restrictions eased in mid-January 2022 including reopening of certain public venues.</p> <p>Previously all PHSM lifted on 8 Oct 2021, except for mask wearing in airports & hospitals.</p>	<p>Schools & mitigation³⁴</p> <p>Closed early for winter holidays in 2021 and returned to school in early Jan 2022.</p> <p>Standard PHSM; PCR or RAT screening tests: Recommended weekly for staff & students from grade 1 unless fully vaccinated or previously infected with COVID-19 in the last 6 months, twice weekly tests recommended for areas with high infection rates.</p>	<p>Vaccination coverage³⁵</p> <table border="1"> <thead> <tr> <th>Age group (years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>12+</td> <td>82.4</td> <td>80.5</td> <td>59.3</td> </tr> </tbody> </table> <p>Commenced 3rd/booster vaccination for people 65+y in late Oct and for all adults from late Nov 2021. Vaccination for 5-11y age group commenced late Nov 2021, coverage data not available.</p>	Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	12+	82.4	80.5	59.3
Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)							
12+	82.4	80.5	59.3							
<p>Infections by age group^{36,37}</p> <p>Weekly positive cases by age and vaccine status*</p> <p>Ugentligt antal positive opdelt på alder og vaccinstatus Relative og absolutte antal personer med positiv SARS-CoV-2 PCR test Viser kun ikke-tidligere positive.</p>  <p>Absolut antal positive Angiver antal positive opdelt på vaccinstatus (grupperne er stablet)</p>  <p>Omicron is now the predominant variant in Denmark (>90%).</p> <p>Number of school outbreaks by school level since return to school:</p>  <p>Grades: 0-3, 4-6, 7-9, 10, 10+</p>	<p>Hospitalisations in children^{38,39}</p> <p>Weekly admissions by age and vaccine status*</p> <p>Ugentligt antal indlæggelser opdelt på alder og vaccinstatus Relative og absolutte antal indlæggelser med positiv SARS-CoV-2 PCR test</p>  <p>Absolut antal indlæggelser Angiver antal indlæggelser opdelt på vaccinstatus (grupperne er stablet)</p>  <p>For the entire pandemic, a total of 53 children in ICU, which included 15 children with comorbidities.</p>	<p>Deaths by age group^{40,41}</p> <p>Weekly deaths by age and vaccine status*</p> <p>Ugentligt antal døde opdelt på alder og vaccinstatus Relative og absolutte antal døde med positiv SARS-CoV-2 PCR test</p>  <p>Absolut antal døde Angiver antal døde opdelt på vaccinstatus (grupperne er stablet)</p>  <p>Total of 3 deaths with COVID-19 in children aged 0-19y throughout the pandemic.</p>								

*(1) Numbers per 100,000; (2) Absolute numbers
Yellow (unvaccinated), blue (two doses), green (three doses)

³³ <https://en.coronasmitte.dk/rules-and-regulations>
³⁴ <https://en.coronasmitte.dk/rules-and-regulations>
³⁵ https://experience.arcgis.com/experience/9824b03b114244348ef0b10f69f490b4/page/page_3/
³⁶ <https://covid19.danmark.dk/>
³⁷ <https://covid19.ssi.dk/overvagningsdata/ugentlige-opgorelser-med-overvaagningsdata>
³⁸ <https://covid19.danmark.dk/>
³⁹ <https://covid19.ssi.dk/overvagningsdata/ugentlige-opgorelser-med-overvaagningsdata>
⁴⁰ <https://covid19.danmark.dk/>
⁴¹ <https://covid19.ssi.dk/overvagningsdata/ugentlige-opgorelser-med-overvaagningsdata>





England, UK

(population 56.6 million)

PHSM ⁴²	Schools & mitigation ⁴³	Vaccination coverage ⁴⁴																
<p>Standard PHSM including TTIQ and mandatory mask wearing indoors, work from home default, proof of vaccination/negative test required for certain venues; previously most PHSM lifted until re-introduced in late Nov 2021.</p>	<p>Closed for winter holidays in Dec 2021 and returned to school in early Jan 2022.</p> <p>Standard PHSM, cohorting, mask wearing required for adults and students from year 7 onwards, twice-weekly RAT screening for staff and secondary school students, vaccination of 16-17y commenced mid-Aug & 12-15y commenced mid-Sep 2021 (initially as single dose). Close contacts who are fully vaccinated or under 18.5y and produce a negative PCR test result do not need to isolate.</p>	<p>Age group</p> <table border="1"> <thead> <tr> <th>(years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>12+</td> <td>90.8</td> <td>83.5</td> <td>63.8</td> </tr> <tr> <td>12-15</td> <td>52.8</td> <td>11.9</td> <td>-</td> </tr> <tr> <td>16-17</td> <td>66.2</td> <td>45.9</td> <td>4.9</td> </tr> </tbody> </table> <p>Third/booster dose available for all 18y+ and other high-risk groups. Vaccination is recommended for children aged 5-11 years who are immunocompromised.</p>	(years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	12+	90.8	83.5	63.8	12-15	52.8	11.9	-	16-17	66.2	45.9	4.9
(years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)															
12+	90.8	83.5	63.8															
12-15	52.8	11.9	-															
16-17	66.2	45.9	4.9															
Infections by age group ⁴⁵	Hospitalisations in children ^{46, 47}	Deaths by age group ⁴⁸																
<p>Figure 5: Weekly confirmed COVID-19 case rates per 100,000, tested under Pillar 1 and Pillar 2, by age group</p>	<p>Figure 43: Weekly hospital admission rate by age group for new (a) COVID-19 positive cases and (b) influenza reported through SARI Watch</p>	<p>Figure 55: Age-sex pyramid of laboratory confirmed COVID-19 deaths, for the past year</p> <p>A total of 78 deaths with COVID-19 in the past year:</p> <ul style="list-style-type: none"> <5y: 17 5-9y: 8 10-19y: 53 																

⁴² <https://www.gov.uk/guidance/covid-19-coronavirus-restrictions-what-you-can-and-cannot-do>
⁴³ <https://www.gov.uk/government/publications/actions-for-schools-during-the-coronavirus-outbreak/schools-covid-19-operational-guidance>
⁴⁴ <https://coronavirus.data.gov.uk/details/vaccinations?areaType=nation&areaName=England>
⁴⁵ <https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports-2021-to-2022-season>
⁴⁶ <https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports-2021-to-2022-season>
⁴⁷ <https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports-2021-to-2022-season>
⁴⁸ <https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/articles/coronaviruscovid19latestinsights/hospitals>
⁴⁹ <https://www.gov.uk/government/statistics/national-flu-and-covid-19-surveillance-reports-2021-to-2022-season>



Finland

(population 5.5 million)

<p>PHSM⁴⁹</p> <p>Restrictions reinstated in late Dec 2021, including mandatory indoor mask wearing, proof of vaccination to attend premises, work from home default and density limits. Additional restrictions in early Jan 2022 including limits on household visitors, hospitality opening hours and access to public places.</p>	<p>Schools & mitigation⁵⁰</p> <p>Schools closed for winter holiday in late Dec 2021 and reopened in early Jan 2022.</p> <p>Standard PHSM, cohorting, masks, ventilation, vaccination of 12y+ commenced early Aug & 5-11y in late Dec 2021.</p>	<p>Vaccination coverage^{51*}</p> <table border="1"> <thead> <tr> <th>Age group (years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>12+</td> <td>86.3</td> <td>82.9</td> <td>38.5</td> </tr> <tr> <td>12-15</td> <td>75.7</td> <td>68.1</td> <td>0.3</td> </tr> <tr> <td>16-19</td> <td>83.0</td> <td>76.5</td> <td>3.9</td> </tr> </tbody> </table> <p>Third/booster dose is recommended for all aged 18y+. Fourth dose recommended for 12y+ with severe immunodeficiency. Vaccine offered to 5-11y children from late Dec 2021.</p>	Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	12+	86.3	82.9	38.5	12-15	75.7	68.1	0.3	16-19	83.0	76.5	3.9
Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)															
12+	86.3	82.9	38.5															
12-15	75.7	68.1	0.3															
16-19	83.0	76.5	3.9															
<p>Infections by age group^{52,53}</p> <p>Finland: 14-day age-specific COVID-19 case notification rate</p> <p>ECDC Figure produced 29 January 2022, Source: THL/ COVID-19</p> <p>Infections by age group (14-day average):</p> <p>Note: Data has not been updated since Report #6 17 Jan 2022</p> <p>Pink (unvaccinated) Dark blue (1 dose) Light blue (2 doses)</p>	<p>Hospitalisations in children⁵⁴</p> <p>Number of hospitalisations: Note: Data has not been updated since Report #6 17 Jan 2022</p> <p>Sairaalahoitossa olevat COVID-19 potilaat</p> <p>Blue (Intensive care) Green (Specialist wards) Pink (Primary health care)</p> <p>Data is no longer available by age groups.</p>	<p>Deaths by age group⁵⁵</p> <p>Deaths by age group (for the whole period)</p> <p>There have been 0 deaths in children throughout the entire pandemic.</p> <p>Genomic surveillance⁵⁶</p> <p>Tartuntatautirekisterin kirjatut geneettiset linjat</p> <p>Blue (Other virus lineage) Note: Data has not been updated since Report #6 17 Jan 2022</p>																

*Data to 17 January 2022

⁴⁹ <https://valtioneuvosto.fi/en/information-on-coronavirus/current-restrictions>
⁵⁰ <https://valtioneuvosto.fi/en/information-on-coronavirus/current-restrictions>
⁵¹ https://sampo.thl.fi/pivot/prod/en/vaccreg/cov19cov/summary_cov19ageareacov
⁵² <https://thl.fi/fi/web/infektioaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaviruksen-seuranta>
⁵³ <https://thl.fi/fi/web/infektioaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaviruksen-seuranta>
⁵⁴ <https://covid19-country-overviews.ecdc.europa.eu/countries/Finland.html>
⁵⁵ <https://thl.fi/fi/web/infektioaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaviruksen-seuranta>
⁵⁶ <https://experience.arcgis.com/experience/92e9bb33fac744c9a084381fc35aa3c7>
⁵⁷ <https://thl.fi/fi/web/infektioaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta/koronaviruksen-seuranta>

Scotland, UK

(population 5.5 million)

<p>PHSM⁵⁷</p> <p>Minimal restrictions before reinstated in Dec 2021, including mandatory masks indoors, density limits, recommendation to travel only for essential reasons, work from home default and proof of vaccination to attend premises.</p> <p>From 24 Jan 2022, restrictions eased including removal of density limits and household visitor limits. Hybrid work arrangements introduced.</p>	<p>Schools & mitigation⁵⁸</p> <p>Closed for winter holidays in late Dec 2021 and returned to school in early Jan 2022.</p> <p>Standard PHSM, cohorting, mask wearing recommended for adults and students from year 7 onwards, twice-weekly RAT screening for staff and secondary school students, vaccination of 16-17y commenced mid-Aug & 12-15y commenced mid-Sep 2021 (initially as single dose). Close contacts who are fully vaccinated or under 18.5y and produce a negative PCR test result do not need to isolate.</p>	<p>Vaccination coverage⁵⁹</p> <table border="1"> <thead> <tr> <th>Age group (years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>12+</td> <td>92.1</td> <td>85.8</td> <td>68.0</td> </tr> <tr> <td>12-15</td> <td>67.5</td> <td>28.9</td> <td>0.9</td> </tr> <tr> <td>16-17</td> <td>82.1</td> <td>52.6</td> <td>9.1</td> </tr> </tbody> </table> <p>Third/booster dose available for all 18y+ and other high-risk groups. Vaccination is recommended for children aged 5-11 years who are immunocompromised.</p>	Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	12+	92.1	85.8	68.0	12-15	67.5	28.9	0.9	16-17	82.1	52.6	9.1
Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)															
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12-15	67.5	28.9	0.9															
16-17	82.1	52.6	9.1															
<p>Infections by age group⁶⁰</p> <p>Figure 5: Seven day PCR case rate in Scotland by age group by specimen date¹⁸. Data from 15 June 2021 to 16 January 2022.</p> <p>Omicron is responsible for >90% of cases in Scotland as of 10 Jan 2022.</p>	<p>Hospitalisations in children⁶¹</p> <p>Hospital admissions related to COVID-19 (3-week rolling average)</p> <p>Any admitted child who is COVID-19 positive is included, so this overestimates the number of children being admitted and needing treatment for COVID-19.</p>	<p>Deaths by age group^{62, 63}</p> <p>Figure 10: Deaths by age group (weekly total by week beginning, NRS), data up to 16 January 2022</p> <p>There have been 2 deaths due to COVID-19 in children aged 0-14y in the past year.</p>																

⁵⁷ <https://www.gov.scot/coronavirus-covid-19/>
⁵⁸ <https://www.gov.uk/government/publications/actions-for-schools-during-the-coronavirus-outbreak/schools-covid-19-operational-guidance>
⁵⁹ <https://coronavirus.data.gov.uk/details/vaccinations?areaType=nation&areaName=Scotland>
⁶⁰ <https://www.gov.scot/collections/coronavirus-covid-19-the-state-of-the-epidemic/>
⁶¹ https://scotland.shinyapps.io/phs-covid19-education/_w_8521b58e/
⁶² <https://www.gov.scot/collections/coronavirus-covid-19-the-state-of-the-epidemic/>
⁶³ <https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/general-publications/weekly-and-monthly-data-on-births-and-deaths/deaths-involving-coronavirus-covid-19-in-scotland>



Singapore

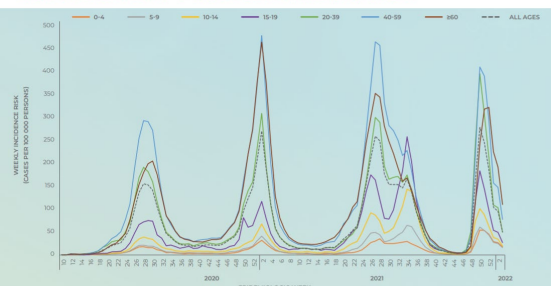
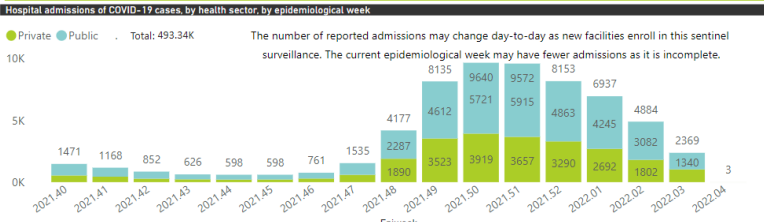
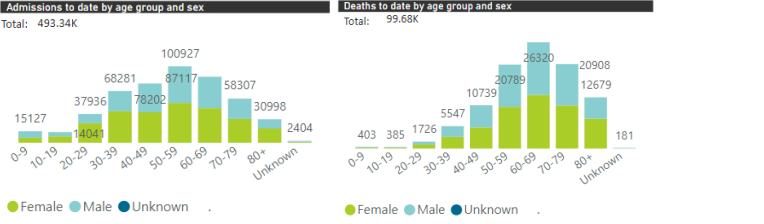
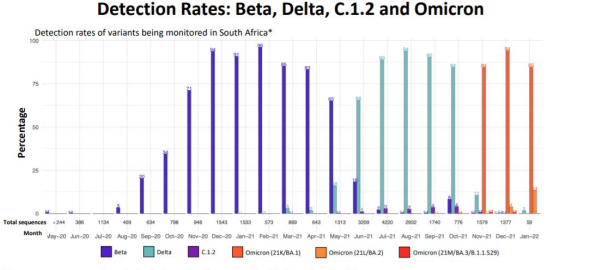
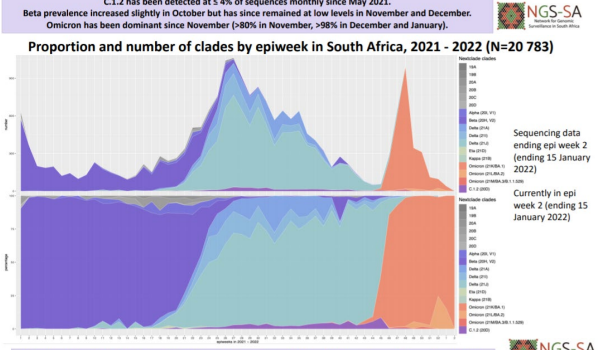
(population 5.5 million)

PHSM ⁶⁴	Schools & mitigation ⁶⁵	Vaccination coverage ⁶⁶								
<p>Restrictions re-introduced in late Sep 2021 after temporary easing.</p> <p>Mandatory masks indoors & outdoors, TTIQ, work from home, shops open with density limits and digital check-in, vaccination requirements to enter some premises, limits on guests at home.</p>	<p>Closed for end-of-year holidays in mid-Nov 2021 and returned to school in early Jan 2022.</p> <p>Standard PHSM, cohorting, RAT & temperature screening, mandatory masks 6y+ with exceptions, vaccination of 12y+ commenced early Jun 2021 and 5-11y in late Dec 2021.</p>	<table border="1"> <thead> <tr> <th>Age group (years)</th> <th>1st dose (%)</th> <th>2nd dose (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>Total pop.</td> <td>91.0</td> <td>88.0</td> <td>55.0</td> </tr> </tbody> </table> <p>Third/booster dose available for all aged 18y+. From 14 Feb 2022, all 18y+ must receive a booster dose within 270 days of their 2nd dose to be considered fully vaccinated.</p>	Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)	Total pop.	91.0	88.0	55.0
Age group (years)	1 st dose (%)	2 nd dose (%)	3 rd /booster (%)							
Total pop.	91.0	88.0	55.0							
Infections by age group ⁶⁷	Hospitalisations in children ⁶⁸	Deaths by age group ⁶⁹								
<p>Number of Local Cases by Age</p> <p>SOURCE: DATA.GOV.SG</p>	<p>Hospitalised Patients by Age Groups</p> <p>SOURCE: DATA.GOV.SG</p> <p>One child was admitted to ICU due to MIS-C for the entire pandemic.</p> <p>There have been five cases of MIS-C throughout the entire pandemic, last reported 8 Nov 2021.</p>	<p>Deaths by Age Groups</p> <p>SOURCE: DATA.GOV.SG</p> <p>There have been 0 deaths in children throughout the entire pandemic.</p>								

⁶⁴ <https://www.moh.gov.sg/covid-19-phase-advisory>
⁶⁵ <https://www.moe.gov.sg/faqs-covid-19-infection>
⁶⁶ <https://www.moh.gov.sg/>
⁶⁷ <https://www.moh.gov.sg/>
⁶⁸ <https://www.moh.gov.sg/>
⁶⁹ <https://www.moh.gov.sg/>

South Africa

(population 60.4 million)

<p>PHSM⁷⁰</p>	<p>Schools & mitigation^{71, 72}</p>	<p>Vaccination coverage⁷³</p>
<p>Since 1 Oct 2021, restrictions including partial curfew, mandatory masks 6y+ with exceptions, density limits.</p> <p>Since 30 Dec 2021, lifting of certain restrictions including removal of curfew and increased density limits.</p>	<p>Closed for end-of-year holidays in mid-Dec 2021 and returned to school in early Jan 2022.</p> <p>Standard PHSM, ventilation, symptom screening, mandatory masks 6y+ with exceptions, visitor limits, vaccination of 12y+.</p>	<p>Age group (years) Fully vaccinated* (%)</p> <p>18+ 46.1</p> <p>*Note: South Africa also uses the J&J/Janssen vaccine which is a single-dose vaccine. Vaccination is available for all aged 12y+. Coverage data for 12-17y not available.</p>
<p>Infections by age group⁷⁴</p>	<p>Hospitalisations in children and deaths by age group⁷⁵</p>	<p>Genomic surveillance⁷⁶</p>
<p>Characteristics of COVID-19 cases in South Africa by age and sex</p>  <p>Figure 4. Weekly incidence risk of laboratory-confirmed cases of COVID-19 by age group in years and epidemiologic week. South Africa 3 March 2020 - 15 January 2022 (n = 3,525,666, 33,564 missing age)</p>	<p>Hospital admissions of COVID-19 cases, by health sector, by epidemiological week</p> <p>Total: 493,34K</p> <p>The number of reported admissions may change day-to-day as new facilities enroll in this sentinel surveillance. The current epidemiological week may have fewer admissions as it is incomplete.</p>  <p>Admissions to date by age group and sex Total: 493,34K</p> <p>Deaths to date by age group and sex Total: 99,68K</p>  <p>Total of 788 deaths with COVID-19 in children 0-19y throughout the entire pandemic. Deaths in children account for <1% of all deaths in South Africa.</p>	<p>Note: Data has not been updated since Report #6 17 Jan 2022</p> <p>Detection Rates: Beta, Delta, C.1.2 and Omicron</p> <p>Detection rates of variants being monitored in South Africa*</p>  <p>*Bars represent percentage prevalence of variant for the month; total sequences collected for the month are given below.</p> <p>C.1.2 has been detected at ≤ 4% of sequences monthly since May 2021. Beta prevalence increased slightly in October but has since remained at low levels in November and December. Omicron has been dominant since November (>80% in November, >98% in December and January).</p> <p>Proportion and number of clades by epiweek in South Africa, 2021 - 2022 (N=20 783)</p>  <p>Delta dominated in South Africa until October at >80%. Omicron dominated November and December at >95%.</p>

⁷⁰ <https://www.gov.za/covid-19/resources/regulations-and-guidelines-coronavirus-covid-19>
⁷¹ <https://www.gov.za/covid-19/resources/regulations-and-guidelines-coronavirus-covid-19>
⁷² <https://sacoronavirus.co.za/vaccine-updates/>
⁷³ <https://sacoronavirus.co.za/latest-vaccine-statistics/>
⁷⁴ <https://www.nicd.ac.za/diseases-a-z-index/disease-index-covid-19/surveillance-reports/weekly-epidemiological-brief/>
⁷⁵ <https://www.nicd.ac.za/diseases-a-z-index/disease-index-covid-19/surveillance-reports/daily-hospital-surveillance-datcov-report/>
⁷⁶ <https://www.nicd.ac.za/diseases-a-z-index/disease-index-covid-19/sars-cov-2-genomic-surveillance-update/>

USA

(population 332.8 million)

<p>PHSM⁷⁷</p> <p>The US CDC recommends indoor mask wearing for all unvaccinated and aged 2y+, physical distancing, hand & surface hygiene, TTIQ, but adoption varies by State/Territory.</p>	<p>Schools & mitigation⁷⁸</p> <p>Closed for winter holidays in late Dec 2021 and reopened from early Jan 2022.</p> <p>Standard PHSM, cohorting, masks, PCR & RAT screening, vaccination commenced mid-May for 12+y and early Nov 2021 for 5-11y, but adoption varies by State.</p>	<p>Vaccination coverage^{79, 80}</p> <table border="1"> <thead> <tr> <th>Age group (years)</th> <th>1st dose (%)</th> <th>Fully vaccinated* (%)</th> <th>3rd/booster (%)</th> </tr> </thead> <tbody> <tr> <td>5-11</td> <td>29.1</td> <td>19.9</td> <td>-</td> </tr> <tr> <td>12-17</td> <td>65.7</td> <td>55.0</td> <td>-</td> </tr> <tr> <td>18+</td> <td>87.4</td> <td>73.8</td> <td>43.0</td> </tr> </tbody> </table> <p>*Note: The US also uses the J&J/Janssen vaccine which is a single-dose vaccine. Third/booster dose for 65y+ and other high-risk individuals from Sep 2021, expanded to all 18y+ from late Nov 2021.</p>		Age group (years)	1 st dose (%)	Fully vaccinated* (%)	3 rd /booster (%)	5-11	29.1	19.9	-	12-17	65.7	55.0	-	18+	87.4	73.8	43.0				
Age group (years)	1 st dose (%)	Fully vaccinated* (%)	3 rd /booster (%)																				
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<p>Infections by age group⁸¹</p> <p>COVID-19 Weekly Cases per 100,000 Population by Age Group, United States March 01, 2020 - January 22, 2022*</p>	<p>MIS-C⁸²</p> <p>Daily MIS-C Cases and COVID-19 Cases Reported to CDC (7-Day Moving Average)</p>	<p>Deaths by age group^{83, 84}</p> <p>COVID-19 Weekly Deaths per 100,000 Population by Age Group, United States March 01, 2020 - January 22, 2022*</p>	<p>Genomic surveillance⁸⁵</p> <table border="1"> <thead> <tr> <th>Variant</th> <th>US Class</th> <th>US Class %</th> <th>Global %</th> <th>95%UI</th> </tr> </thead> <tbody> <tr> <td>Omicron</td> <td>B.1.1.529</td> <td>VOC</td> <td>99.5%</td> <td>99.3-99.7%</td> </tr> <tr> <td>Delta</td> <td>B.1.617.2</td> <td>VOC</td> <td>0.5%</td> <td>0.3-0.7%</td> </tr> <tr> <td>Other*</td> <td></td> <td></td> <td>0.0%</td> <td>0.0-0.0%</td> </tr> </tbody> </table>	Variant	US Class	US Class %	Global %	95%UI	Omicron	B.1.1.529	VOC	99.5%	99.3-99.7%	Delta	B.1.617.2	VOC	0.5%	0.3-0.7%	Other*			0.0%	0.0-0.0%
Variant	US Class	US Class %	Global %	95%UI																			
Omicron	B.1.1.529	VOC	99.5%	99.3-99.7%																			
Delta	B.1.617.2	VOC	0.5%	0.3-0.7%																			
Other*			0.0%	0.0-0.0%																			
<p>Hospitalisations in children⁸⁷</p> <p>COVID NET - Entire Network - 2020 21 - Weekly Rate</p> <p>Any admitted child who is COVID-19 positive is likely to be included, so this is likely to be an overestimation of the number of children needing treatment for COVID-19.</p>		<p>MIS-C Patients by Age Group</p> <p>Note: Data has not been updated since Report #5 (10 Jan 2022)</p> <p>There have been 6431 cases of MIS-C throughout the entire pandemic, including 55 deaths. The median age of MIS-C cases was 9y and half were between 5-13y.</p> <p>Total 727 deaths with COVID-19 in children 0-17y throughout the entire pandemic, accounting for <0.1% of all deaths in the US. There is marked variation by State/Territory and case fatality rates are between 0-0.01% for the vast majority of States and Territories⁸⁶: e.g. Texas (n=121); Arizona (n=54); California (n=46); Tennessee (n=29); Puerto Rico (n=9); Guam (n=6); Hawaii (n=1); Alaska (n=0).</p>																					

⁷⁷ <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>
⁷⁸ <https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/k-12-guidance.html>
⁷⁹ https://covid.cdc.gov/covid-data-tracker/#vaccinations_vacc-total-admin-rate-total
⁸⁰ <https://covid.cdc.gov/covid-data-tracker/#vaccination-demographics-trends>
⁸¹ <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>
⁸² <https://covid.cdc.gov/covid-data-tracker/#mis-national-surveillance>
⁸³ <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>
⁸⁴ https://www.cdc.gov/nchs/nvss/vsrr/covid_weekly/index.htm
⁸⁵ <https://covid.cdc.gov/covid-data-tracker/#variant-proportions>
⁸⁶ <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/>
⁸⁷ https://gis.cdc.gov/grasp/COVIDNet/COVID19_3.html





USA: Comparison of states

A comparison of select US states based on 7-day incidence per 100,000 population and PHSM.

INDICATOR	MONTANA (pop. 1.1 million)			TENNESSEE (pop. 6.8 million)			CALIFORNIA (pop. 39.5 million)		
7-day incidence per 100,000 population⁸⁸	937.1			1730			1977		
PHSM	Mask wearing encouraged, physical distancing, TTIQ ⁸⁹			Mask wearing encouraged, physical distancing, TTIQ ⁹⁰			Indoor mask wearing mandatory in many indoor venues for all aged 2+, TTIQ ⁹¹		
Schools & mitigation	Closed in Dec 2021 for winter holidays, returned to school in early Jan 2022. Standard PHSM as recommended by US CDC, school-based mask mandates with option for parents to opt-out, vaccination encouraged, vaccination of 12+y commenced mid-May and 5-11y in early Nov 2021. ⁹²			Closed in Dec 2021 for winter holidays, returned to school in early Jan 2022. Standard PHSM as recommended by US CDC, mask wearing and vaccination encouraged, vaccination of 12+y commenced mid-May and 5-11y in early Nov 2021. ⁹³			Closed in Dec 2021 for winter holidays, returned to school in early Jan 2022. Standard PHSM as recommended by US CDC, mask wearing mandatory for all aged 2+, PCR & RAT screening, vaccination of 12+y commenced mid-May and 5-11y in early Nov 2021, mandatory staff vaccination or weekly testing. ⁹⁴		
Vaccination coverage⁹⁵	Age group (years)	1st dose (%)	Fully vacc.* (%)	Age group (years)	1st dose (%)	Fully vacc.* (%)	Age group (years)	1st dose (%)	Fully vacc.* (%)
	5-11	22.5	15.6	5-11	15.6	10.8	5-11	35.4	23.7
	12-17	49.0	41.6	12-17	43.4	36.1	12-17	81.6	66.5
	18-64	67.3	58.0	18-64	66.9	57.7	18-64	95.3	76.6
	65+	99.9	91.7	65+	97.0	88.5	65+	99.9	93.8
	*The US also uses the J&J/Janssen vaccine which is a single-dose vaccine. State-specific data on 3 rd /booster dose coverage not available.								

⁸⁸ https://covid.cdc.gov/covid-data-tracker/#cases_casesper100klast7days

⁸⁹ <https://covid19.mt.gov/index>

⁹⁰ <https://covid19.tn.gov/prevention/>

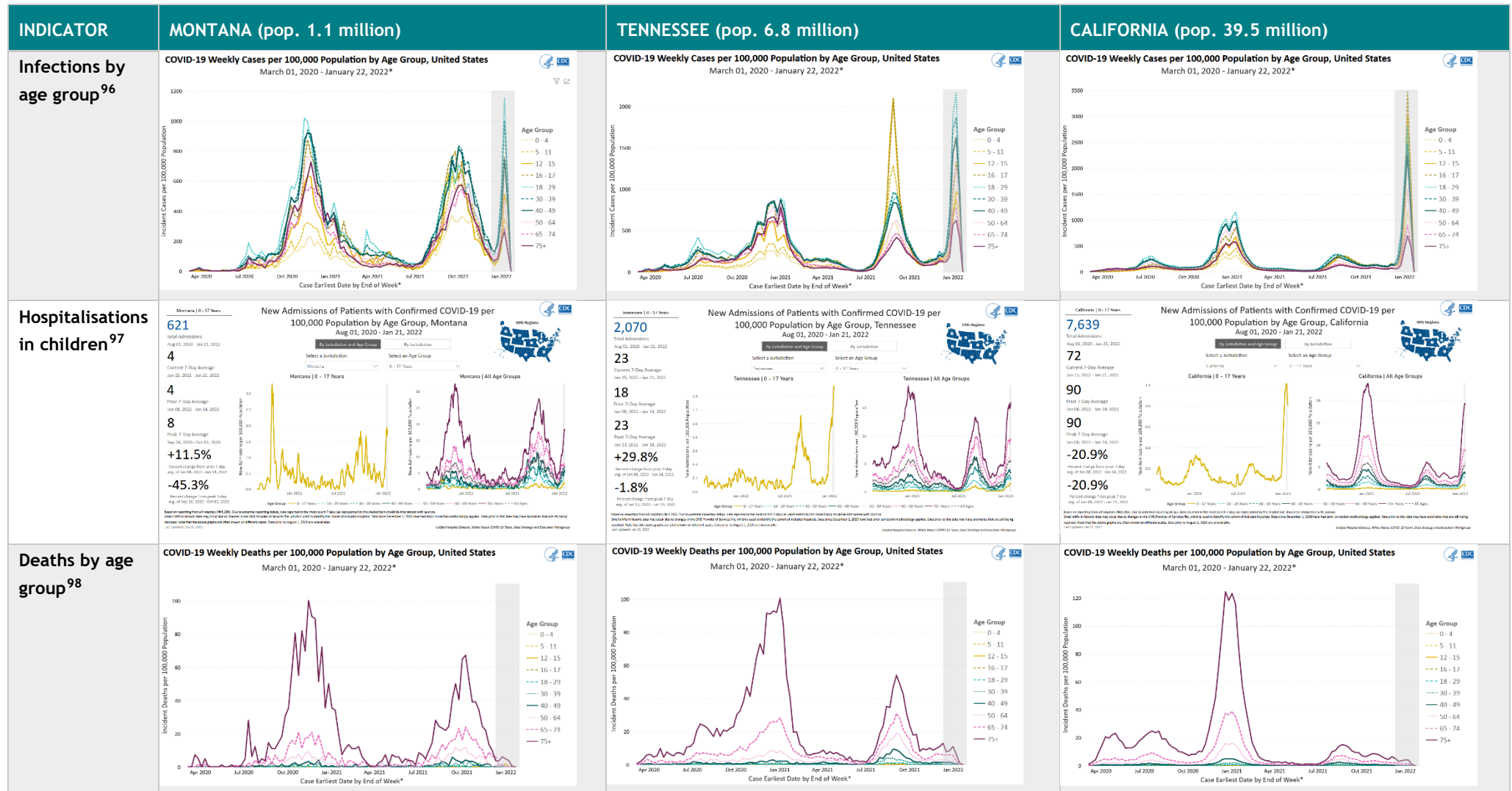
⁹¹ <https://covid19.ca.gov/masks-and-ppe/>

⁹² <https://dphhs.mt.gov/publichealth/cdepi/diseases/CoronavirusMT/index>

⁹³ <https://www.tn.gov/health/cedep/ncov/educational-resources.html>

⁹⁴ <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/K-12-Guidance-2021-22-School-Year.aspx>

⁹⁵ <https://www.mavoclinic.org/coronavirus-covid-19/vaccine-tracker>



Note: Comparative graphs may have different scales on the y-axis.

⁹⁶ <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>
⁹⁷ <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>
⁹⁸ <https://covid.cdc.gov/covid-data-tracker/#demographicsovertime>





USA: Impact of vaccination on disease incidence

Seven-day incidence per 100,000 population in people who received at least one dose of vaccine, by age group.⁹⁹



Currently, children under age five are not eligible to be vaccinated.

Last Updated: Jan 23, 2022

Data source: VTricks, IIS, Federal Pharmacy Program, Federal Entities Program, U.S. Census Bureau 10-year July 2019 National Population Estimates; Visualization: CDC CPR DEO Situational Awareness Public Health Science Team

⁹⁹ <https://covid.cdc.gov/covid-data-tracker/#vaccinations-cases-trends>



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