

COVID-19 Breakthrough Report

Oregon's Weekly Surveillance Summary



Breakthrough case report - August 19, 2021

Background

Data for the weekly breakthrough case report will include data through the most recent Sunday and the report will be published on Thursdays.¹ Vaccine breakthrough cases are defined as instances in which an individual tested positive for COVID-19 at least 14 days following the completion of any COVID-19 vaccine series.² Vaccine breakthrough cases that result in hospitalization or death are reported to CDC.

COVID-19 cases in vaccinated and unvaccinated people

Weekly summary³

During the weeks of August 1-14, there were 20,701 cases of COVID-19. 17,719 (85.6%) were unvaccinated and 2982 (14.4%) were vaccine breakthrough cases. The median age of breakthrough cases was 46 years. 95 breakthrough cases were residents of care facilities, senior living communities, or other congregate living settings. 664 (22.3%) of cases were 65 or older. There were 52 (1.7%) cases aged 12-17.

Cumulative summary

Overall, there have been 7,138 vaccine breakthrough cases identified in Oregon. The median age of breakthrough cases is 48 years (range: 12-104). 387 (5.4%) breakthrough cases were residents of care facilities, senior living communities, or other congregate living settings. 1,813 (25.4%) of cases were 65

¹ The weekly summary uses the date that cases are reported to OHA, to provide summary information on the most recently identified cases. All other dates in this report use specimen collection date to align with the breakthrough case definition.

² This definition is consistent with the CDC's definition, available here: <https://www.cdc.gov/vaccines/covid-19/downloads/COVID-vaccine-breakthrough-case-investigations-Protocol.pdf>

³ Previously, this report was published monthly. Going forward, this report will be published weekly. This report's summary includes two weeks to cover the gap between the last publication date and this report's publication date. In future, the weekly summary will only include the most recent week.

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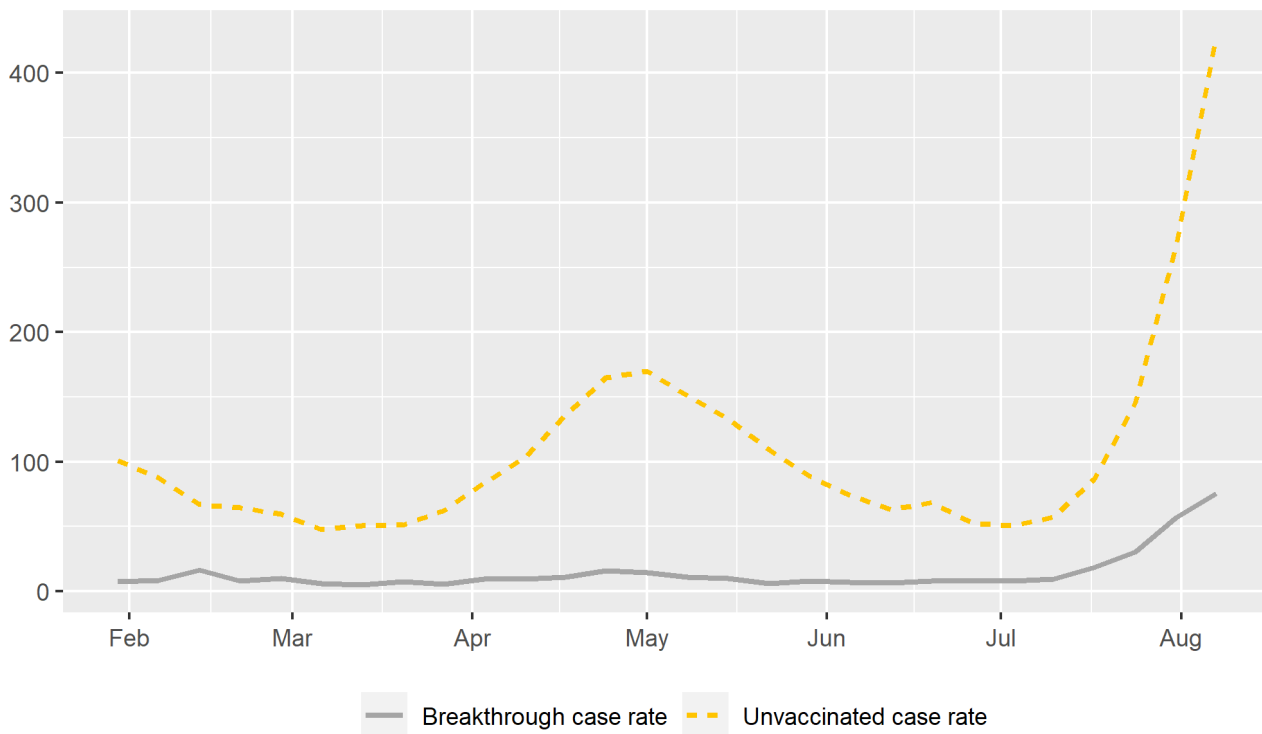
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or older. There have been a total of 96 (1.3%) cases aged 12-17. Breakthrough cases have been reported in all 36 counties.

Cases of COVID-19 are much more common in unvaccinated⁴ Oregonians than in vaccinated Oregonians (Figure 1). The rate of COVID-19 cases among unvaccinated individuals in the most recent week was approximately six times the rate of COVID-19 cases among fully vaccinated individuals. Community spread remains elevated throughout the state and is particularly high in areas with lower vaccination rates. As COVID-19 cases have increased across Oregon, vaccine breakthrough cases have also increased, but at a much lower rate than in the unvaccinated. Vaccination remains the most effective tool to reduce the spread of COVID-19.

Figure 1. Rates of COVID-19 cases, by vaccination status



⁴ Unvaccinated persons are defined as people who have not received an approved COVID-19 vaccine, or who have not completed the vaccine series

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Vaccine breakthrough cases and severity

The Pfizer, Moderna and Johnson & Johnson COVID-19 vaccines are highly effective at preventing severe COVID-19 illness and death. Relatively few breakthrough cases have been hospitalized, and even fewer have died (Figure 2).

To date, 5.8% of all known breakthrough cases have been hospitalized (n=413), and only 0.8% have died (n=58). The median age of the people who died was 82 (range: 49-101).

Figure 2. Cases, hospitalizations and deaths among breakthrough cases

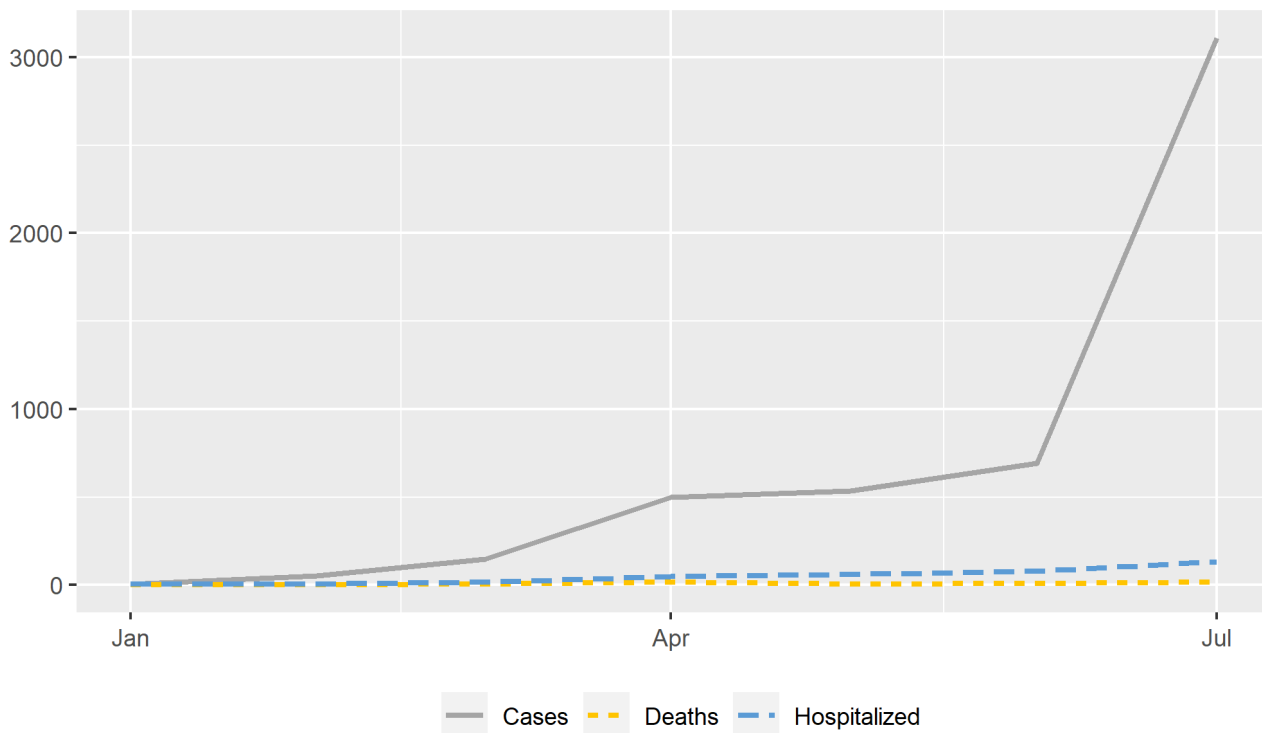


Table 1. Breakthrough cases by age group and severity

Age Group	Cases	Hospitalized	Deaths
12-19	226	2	0
20-29	1,056	10	0
30-39	1,221	18	0
40-49	1,222	18	1

Data are provisional and subject to change.

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Age Group	Cases	Hospitalized	Deaths
50-59	1,105	45	2
60-69	1,002	71	7
70-79	771	113	16
80+	535	136	32
Total	7,138	413	58

Variants of concern and variants of interest

Table 2. Variants of concern

Overall, 5.1% of positive specimens in Oregon have been sequenced. Delta is currently the dominant variant circulating in Oregon. At this time, vaccine breakthrough cases appear to reflect the variants circulating in the community. Additional information on variants can be found here:

<https://public.tableau.com/app/profile/oregon.health.authority.covid.19/viz/GISAIDVariantDashboardUpdated/OregonVariantDashboard>

Subtype	Cases
B.1.1.7 (Alpha)	134
B.1.351 (Beta)	16
B.1.617.2 (Delta)	170
P.1 (Gamma)	42

Table 3. Variants of interest

Subtype	Cases
B.1.427/B.1.429 (Epsilon)	38
B.1.526 (Iota)	29

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Table 4. Breakthrough cases by county of residence⁵

County	Cases
Baker	27
Benton	139
Clackamas	634
Clatsop	50
Columbia	53
Coos	51
Crook	44
Curry	16
Deschutes	439
Douglas	219
Gilliam	1-9
Grant	1-9
Harney	1-9
Hood River	59
Jackson	423
Jefferson	32
Josephine	228
Klamath	60
Lake	1-9
Lane	948
Lincoln	67
Linn	204

⁵ Counties that have a total of fewer than 10 cases will be reported as 1-9 cases.

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County	Cases
Malheur	25
Marion	628
Morrow	38
Multnomah	1313
Polk	122
Sherman	1-9
Tillamook	64
Umatilla	224
Union	41
Wallowa	10
Wasco	73
Washington	745
Wheeler	1-9
Yamhill	138