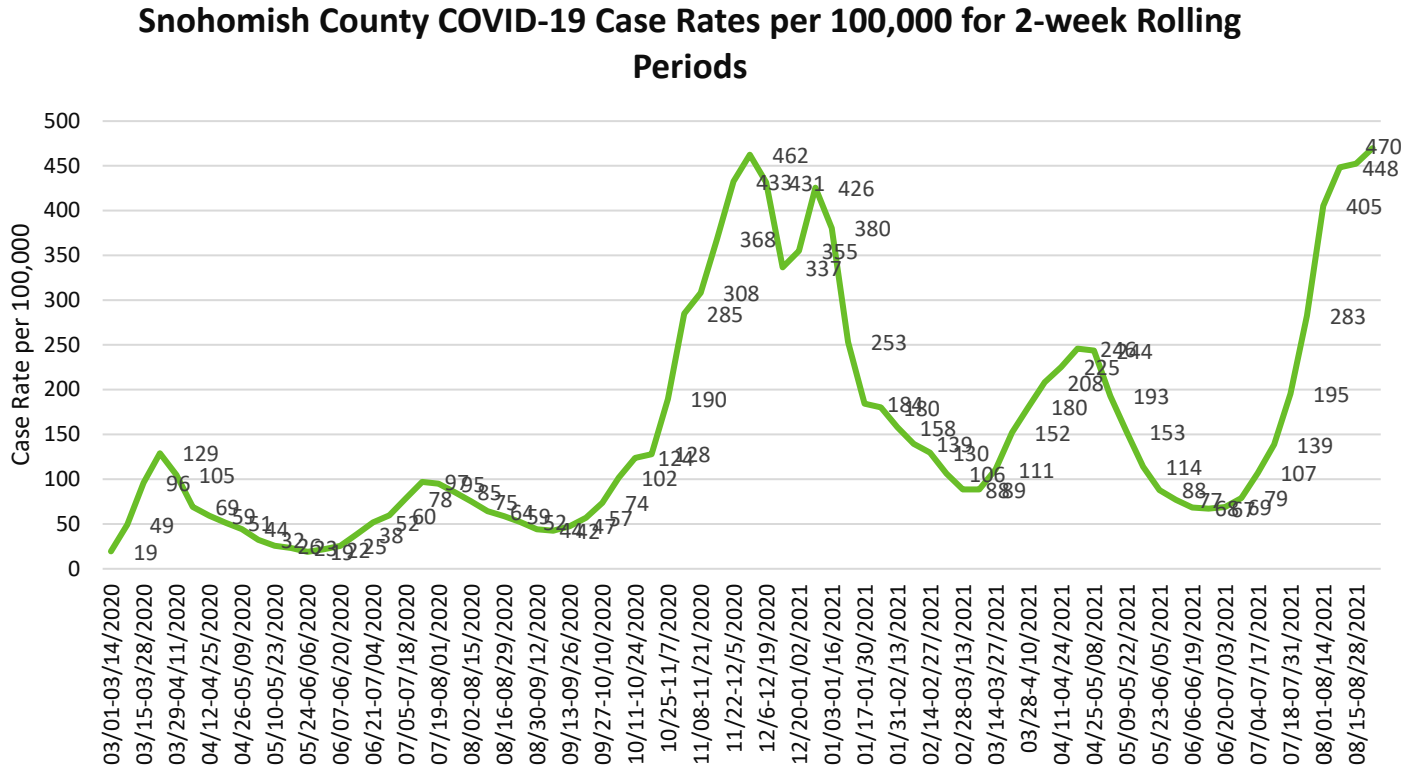


**SNOHOMISH HEALTH DISTRICT
 COVID-19 EPIDEMIOLOGY REPORT
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COVID-19 EPIDEMIOLOGIC OVERVIEW

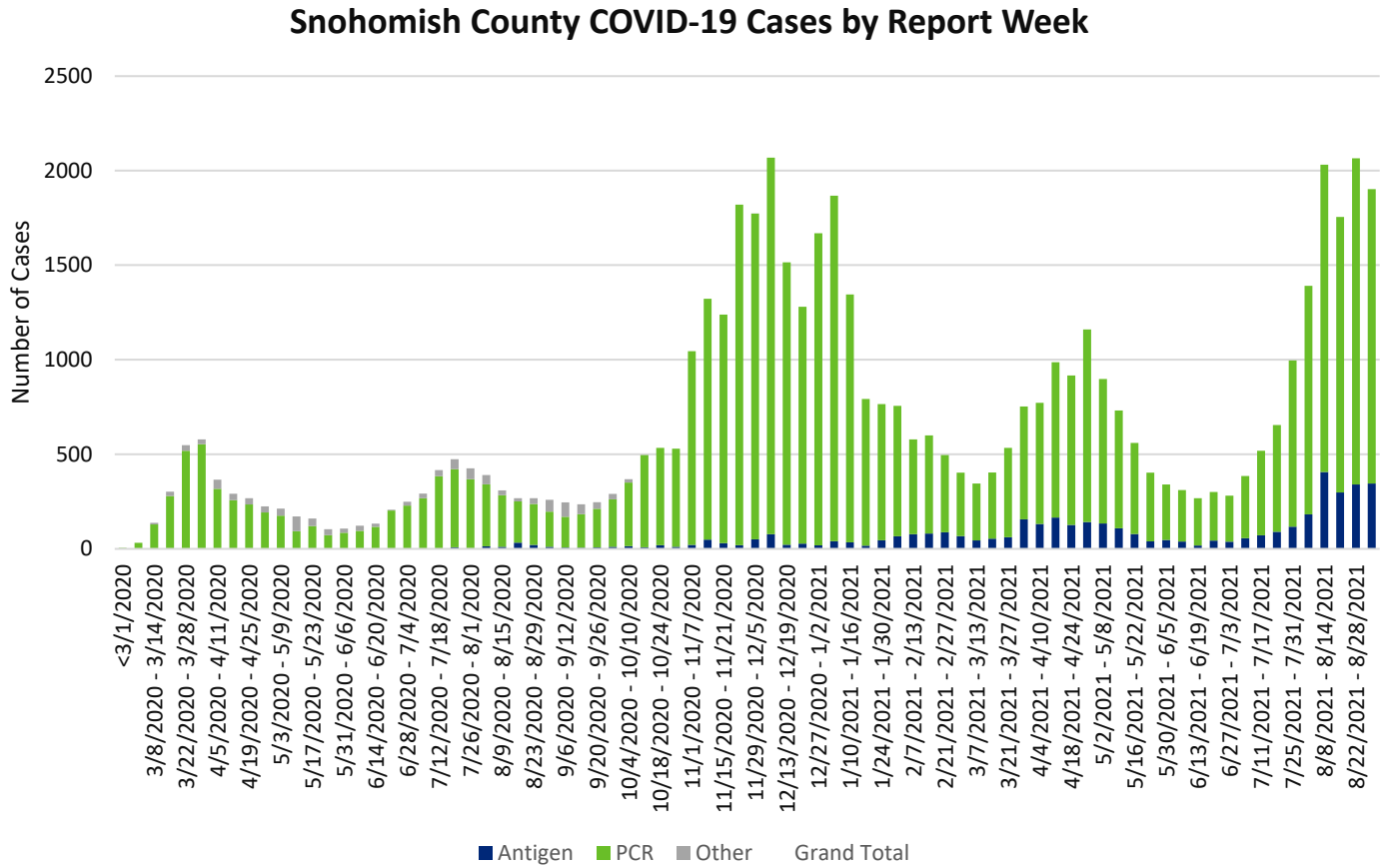
Figure 1: Snohomish County COVID-19 case rates per 100,000



Data source: Snohomish Health District COVID-19 database.

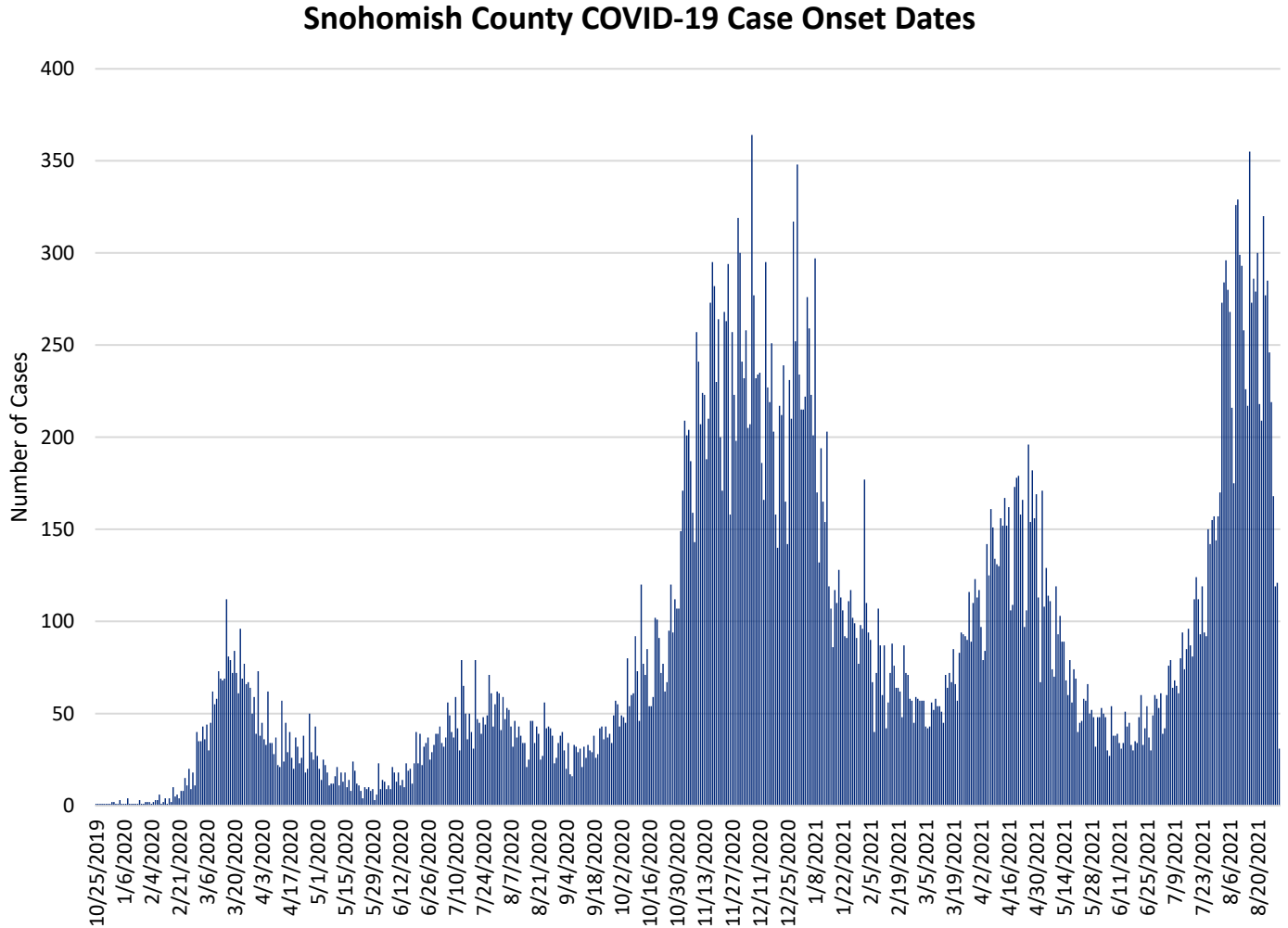
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Figure 2: Number of Snohomish County COVID-19 cases by week of report



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Figure 3: COVID-19 epidemiologic curve



Note: data for the most recent week (far right end) of the figure are not complete, and those counts are likely to increase with completion of pending investigations.

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Figure 4: Cumulative total COVID-19 cases in Snohomish County by report date

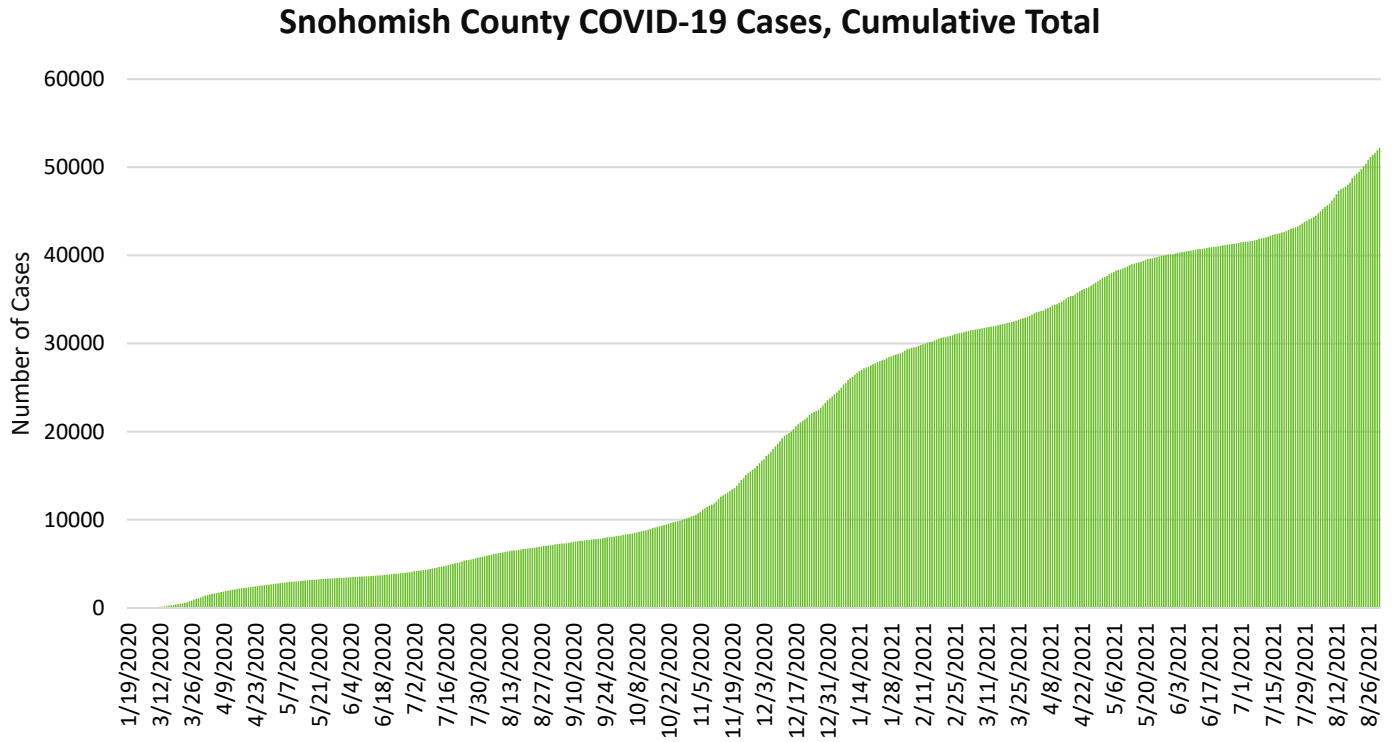


Table 1: Sex at birth of COVID-19 cases in Snohomish County

Sex at birth	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Female	4,017	1,341	26,118
Male	4,075	1,329	26,047
Unknown	18	0	33
Grand Total	8,110	2,670	52,198

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Table 2: Age group of COVID-19 cases in Snohomish County

Age group in years	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
0-14	1,193	396	5,886
15-19	524	214	3,783
20-29	1,691	522	10,226
30-39	1,630	496	9,832
40-49	1,189	384	8,253
50-59	969	283	6,730
60-69	544	217	4,108
70-79	251	95	1,931
80+	116	63	1,427
Unknown	3	0	22
Grand Total	8,110	2,670	52,198

Figure 5: Snohomish County cumulative total COVID-19 cases by age group

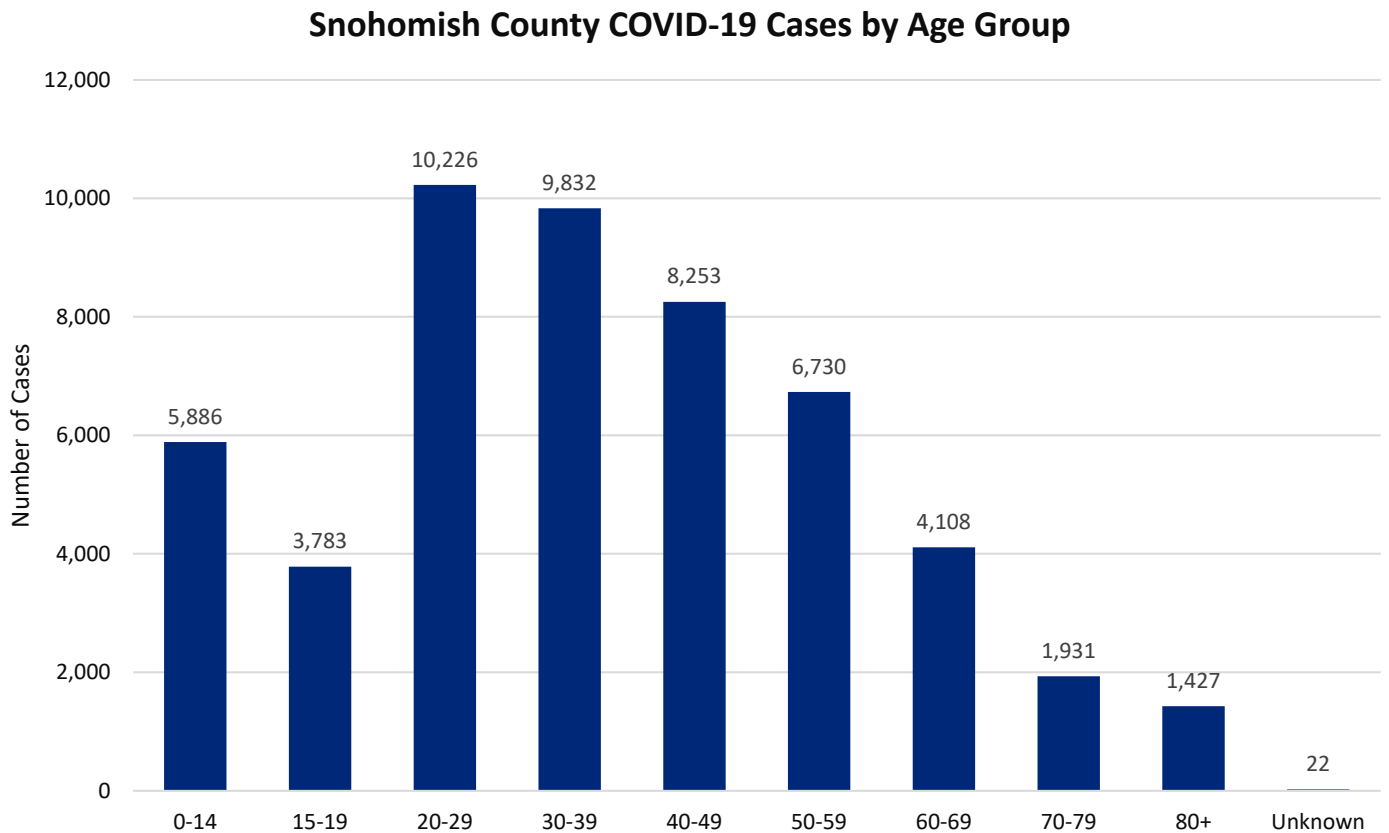
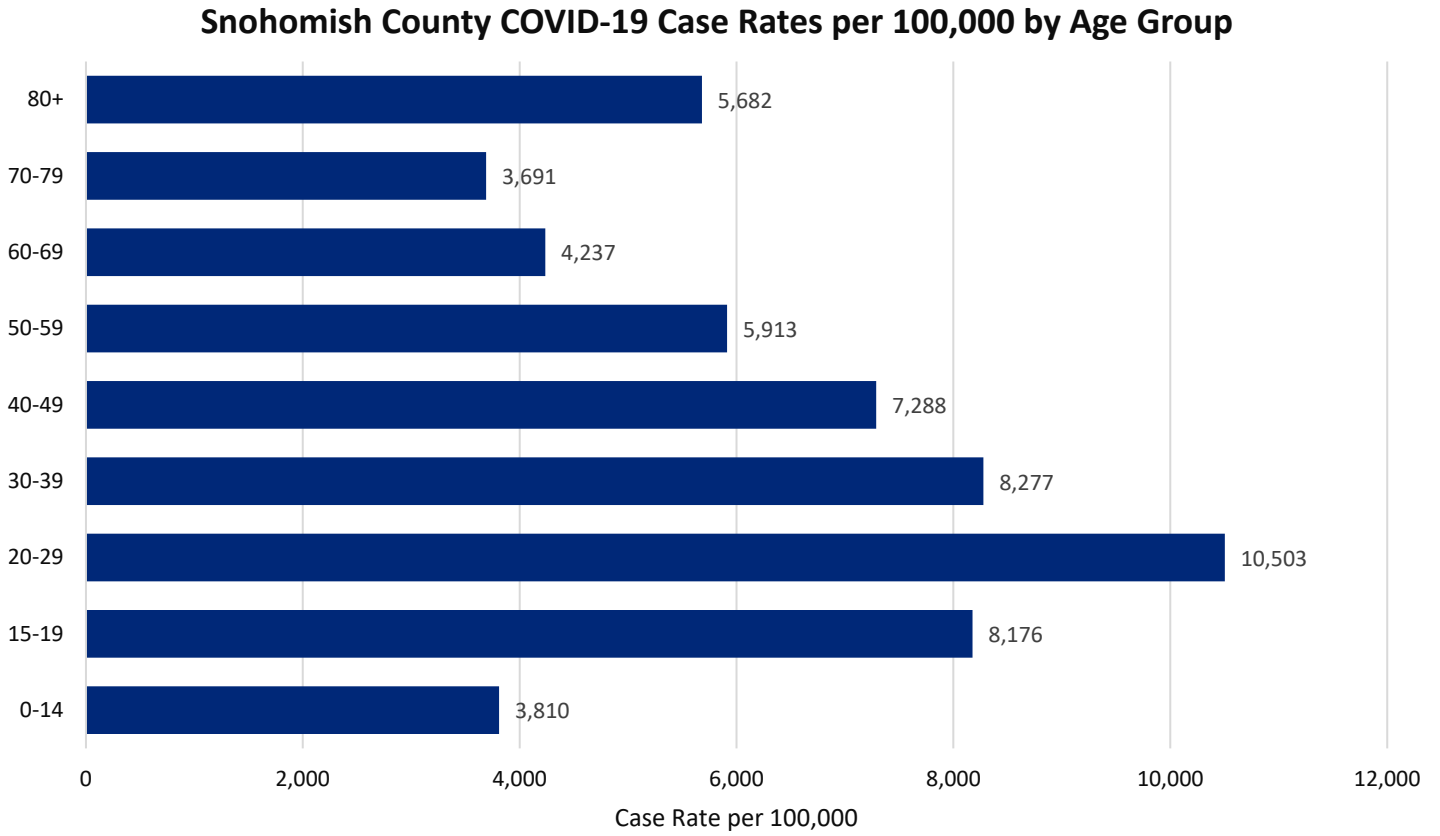
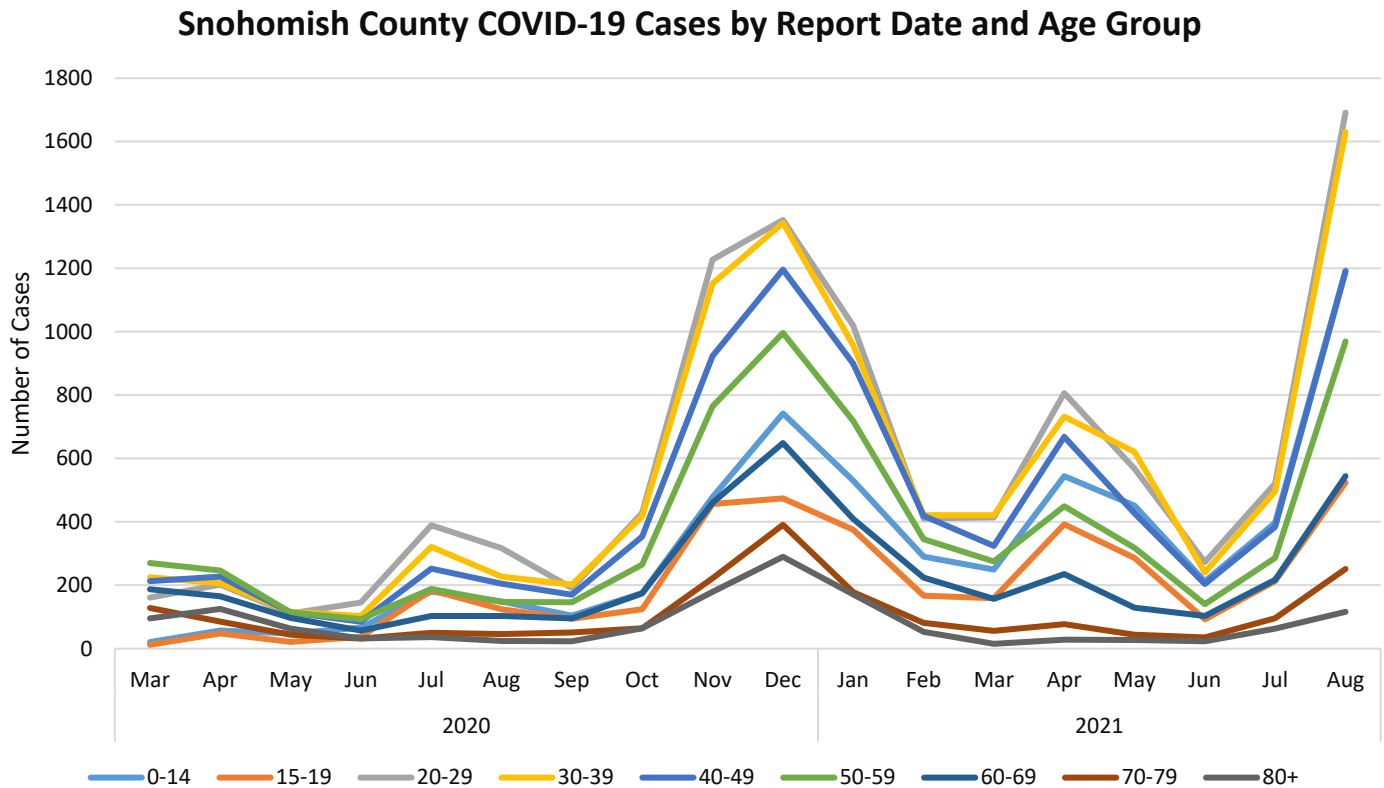


Figure 6: Snohomish County cumulative COVID-19 case rates per 100,000 by age group



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Figure 7: Number of COVID-19 cases by report date and age group



*Notes: As time intervals on the x-axis are shown in sequential weekly periods, findings here may lag behind changes noted in Table 2 above.

Table 3: Type of exposure among COVID-19 cases in Snohomish County

Type of exposure	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Close contact	1,813	1,061	18,931
Community acquired	1,808	887	15,496
Long-term Care Facility Associated	53	43	2,089
Corrections	8	<5	667
Healthcare Worker	<5	<5	553
Travel	<5	<5	155
Nosocomial	<5	<5	59
Unknown	4,427	676	14,248
Grand Total	8,110	2,670	52,198

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Figure 8: Type of exposure among Snohomish County COVID-19 cases by month of illness onset

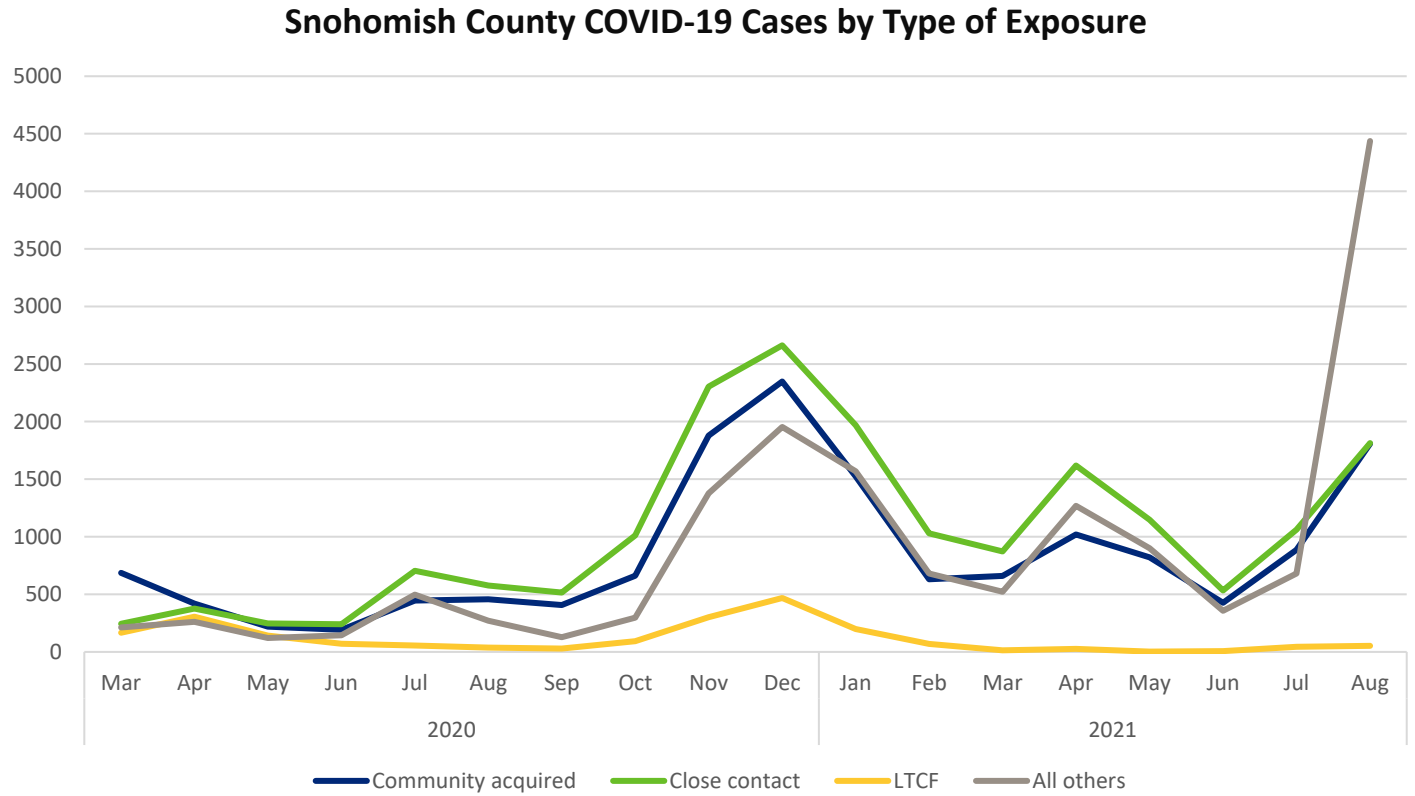


Table 4: Current case status of COVID-19 cases in Snohomish County

Current status	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Home isolation	2,192	1,346	2,199
Hospitalized	59	52	85
Survived ¹	2,954	775	46,352
Deceased	27	12	675
Unknown <28 days since case report	2,878	485	2,887
Grand Total	8,110	2,670	52,198

¹No longer in isolation, not hospitalized at this time, not deceased, >28 days since case report

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Table 5: Symptom status of confirmed COVID-19 cases in Snohomish County by month of report

Year	Month	Asymptomatic	Symptomatic	Percent asymptomatic	Total
2020	Jan-Feb	0	5	0%	5
2020	March	17	990	2%	1,007
2020	April	89	940	9%	1,029
2020	May	90	456	16%	546
2020	June	99	387	20%	486
2020	July	214	973	18%	1,187
2020	August	127	896	12%	1,023
2020	September	78	619	11%	697
2020	October	164	1,553	10%	1,717
2020	November	420	4,080	9%	4,500
2020	December	823	4,850	15%	5,673
2021	January	592	3,448	15%	4,040
2021	February	272	1,638	14%	1,910
2021	March	156	1,416	10%	1,572
2021	April	268	2,460	10%	2,728
2021	May	216	1,915	10%	2,131
2021	June	115	941	11%	1,056
2021	July	110	1,646	6%	1,756
2021	August	691	3,864	15%	4,555
Grand Total		4,617	33,721	12%	38,338

Data source: WDRS, only includes confirmed cases with available symptom status data. This table is updated monthly.

Table 6: Hospitalization of COVID-19 cases in Snohomish County

Ever hospitalized	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
No	3,421	1,833	34,925
Yes	239	154	2,422
Unknown	4,450	683	14,851
Grand Total	8,110	2,670	52,198

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Table 7: COVID outbreaks by type

Type of outbreak	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Adult family home	2	2	67
Agriculture	2	0	5
Bar	0	0	5
Behavioral health	2	0	5
Childcare	9	1	61
Community	0	0	1
Construction	4	3	83
Corrections	0	0	2
Distribution	1	1	12
Emergency services	2	1	5
Faith based services	2	4	35
Financial Institution	0	0	9
Food processing	0	0	16
Government	2	2	19
Gym/Fitness Center	0	0	3
Healthcare provider	1	2	17
Home health	0	1	4
Hospital	1	0	7
Landscaping	1	0	11
Leisure/recreation	4	4	22
Long-term care facility	14	5	120
Manufacturing	7	5	120
Personal Care and Services	0	1	14
Real estate	0	2	13
Restaurant	6	1	87
Retail	16	3	133
School	0	4	47
Service provider	10	5	87
Shelter	1	0	6
Social Event	0	2	27
Supported Living	0	0	2
Transportation	0	0	7
Utilities	2	3	16
Youth camp	1		1
Total number of outbreaks (number of cases)	90 (463)	52 (218)	1,069 (6,964)

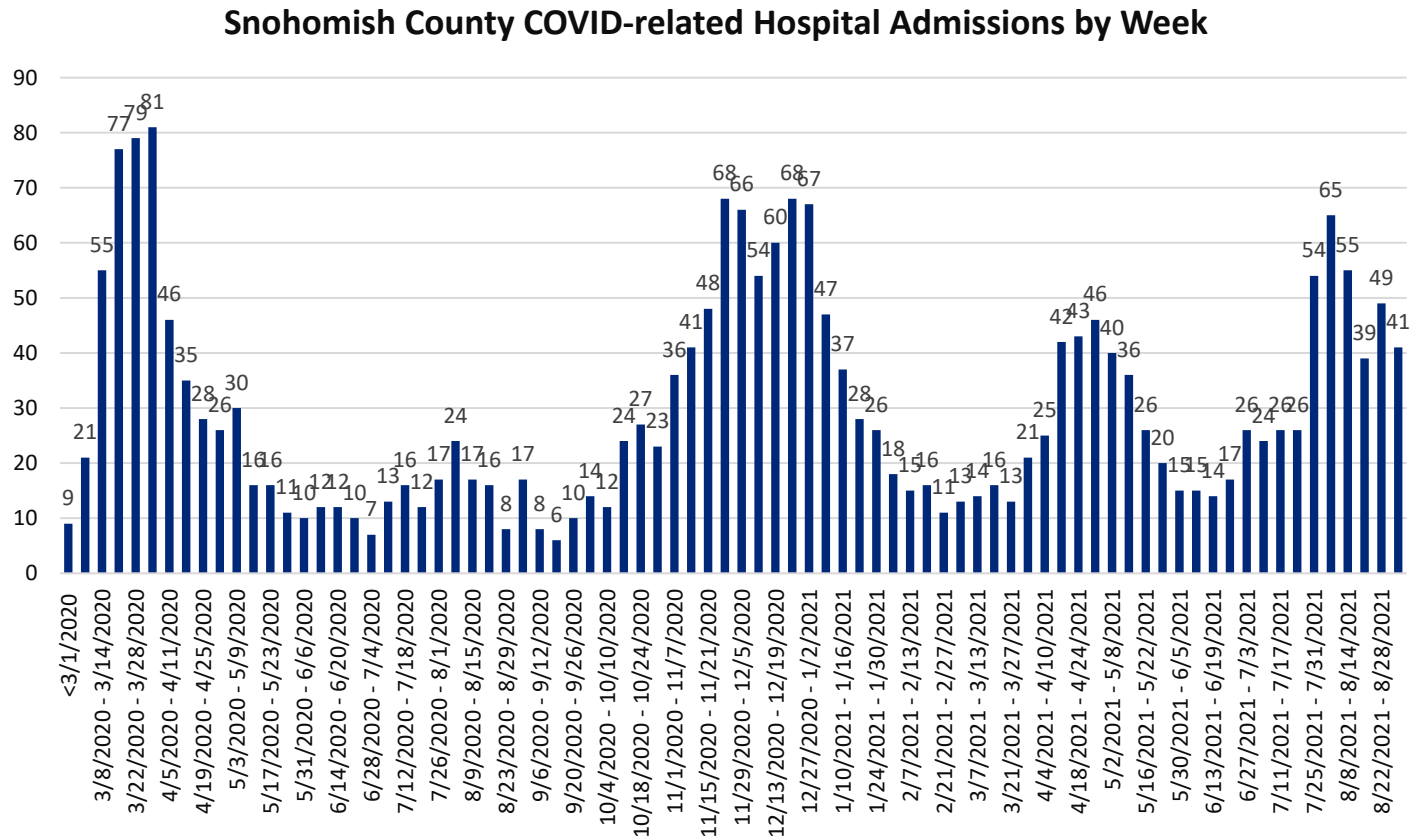
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Table 8: City of residence of COVID-19 cases in Snohomish County

City	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Arlington	635	202	3,093
Bothell	547	187	3,642
Brier	52	18	277
Darrington	48	0	99
Edmonds	401	124	2,838
Everett	1,715	506	12,523
Gold Bar	58	12	260
Granite Falls	171	33	645
Index	<5	<5	<5
Lake Stevens	660	226	3,420
Lynnwood	831	283	6,767
Marysville	994	352	5,693
Mill Creek	136	79	970
Monroe	227	110	2,612
Mountlake Terrace	192	54	1,289
Mukilteo	136	64	950
North Lakewood	0	0	10
Silvana	6	0	22
Snohomish	618	251	3,768
Stanwood	404	95	1,730
Startup	<5	<5	6
Sultan	68	19	465
Tulalip	163	46	872
Woodinville	25	7	156
Woodway	14	<5	67
Unknown	6	0	20
Grand Total	8,110	2,670	52,198

COVID-19 CONTROL PROCESS INDICATORS

Figure 9: COVID-related hospital admissions by week



Data source: Snohomish Health District COVID-19 database

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Table 9: Snohomish Health District testing activity by week

Week	Tests Reported	Negative	Positive	% Positive
6/27/2021 - 7/3/2021	9,618	9269	349	3.6%
7/4/2021 - 7/10/2021	9,805	9392	413	4.2%
7/11/2021 - 7/17/2021	8,256	7707	549	6.6%
7/18/2021 - 7/24/2021	11,938	11242	696	5.8%
7/25/2021 - 7/31/2021	14,622	13582	1040	7.1%
8/1/2021 - 8/7/2021	17,423	15662	1761	10.1%
8/8/2021 - 8/14/2021	19,905	17877	2028	10.2%
8/15/2021 - 8/21/2021	20,486	18432	2054	10.0%
Total	112,053	103,163	8,890	7.9%

*Data source WA DOH COVID-19 data dashboard. Data after 8/21/2021 is incomplete and not included in this table.

Figure 10: Snohomish Health District COVID-19 testing by week

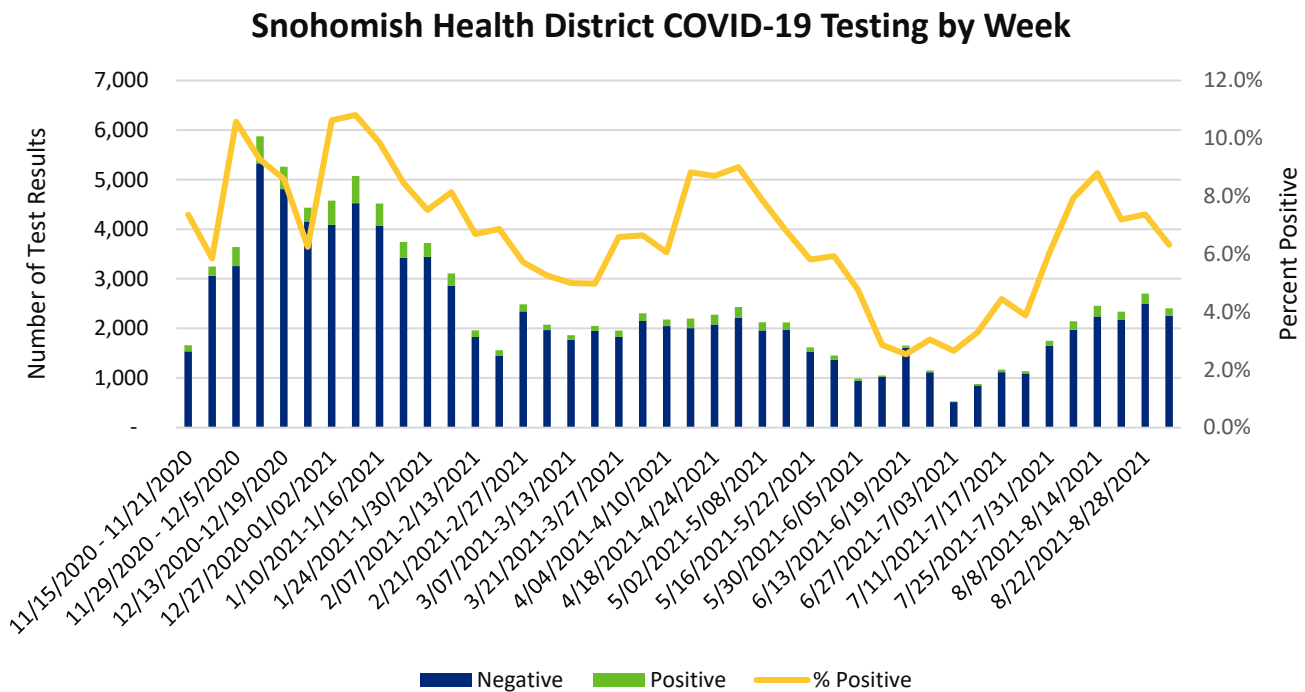
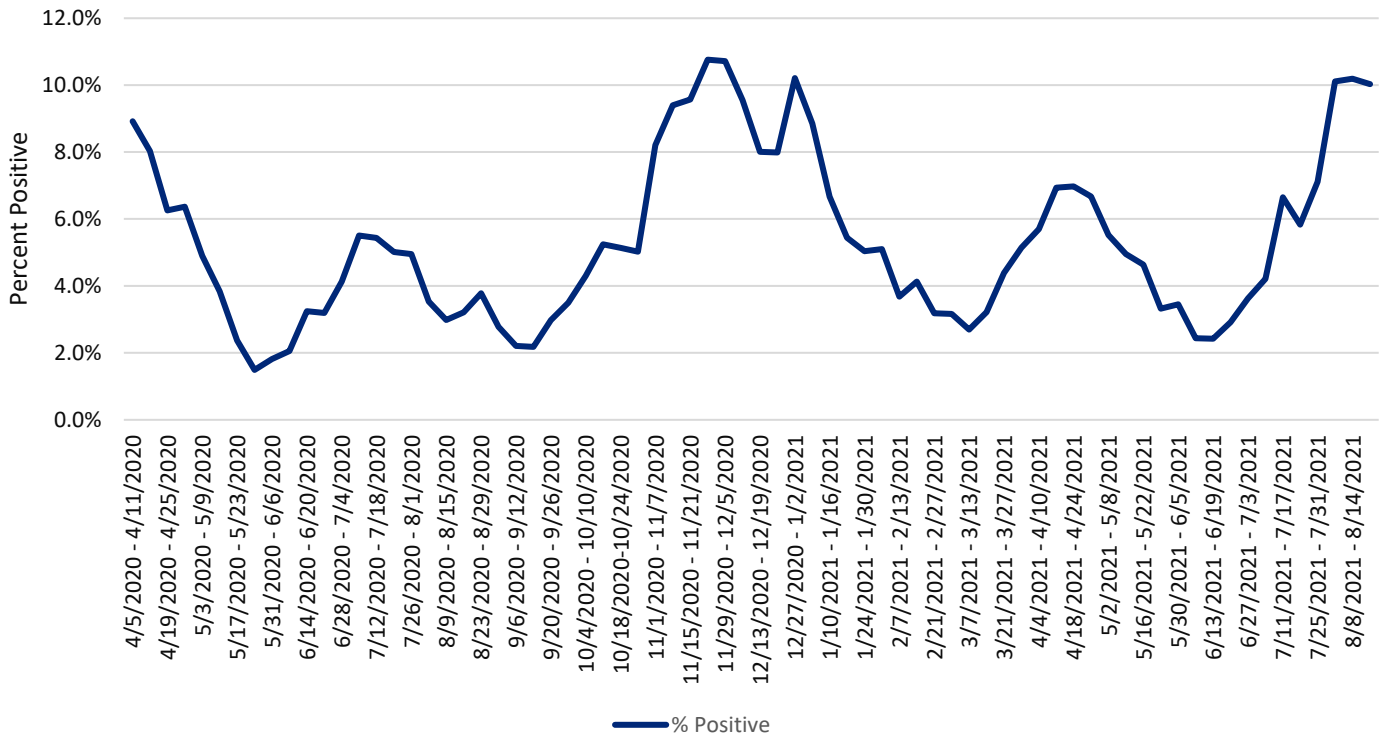


Figure 11: Snohomish County percent positivity rate pf COVID-19 testing

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Snohomish County Percent Positivity Rate of COVID-19 Tests



*Data source: Washington State Department of Health COVID-19 data dashboard

Table 10: Percent of case investigations completed within 1 and 2 days of initial notification of case

2-week period	Cases Reported	Number contacted within 1 day	Percent contacted within 1 day	Number contacted within 2 days	Percent contacted within 2 days
5/2-5/15/2021	1,589	670	42%	887	56%
5/16-5/29/2021	951	444	47%	526	55%
5/30-6/12/2021	645	320	50%	405	63%
6/13-6/26/2021	728	391	54%	462	63%
6/27-7/10/2021	666	253	38%	334	50%
7/11-7/24/2021	1,168	516	44%	680	58%
7/25-8/7/2021	2,389	322	13%	595	25%
8/8-8/21/2021	3,774	466	12%	759	20%

Data source: Snohomish Health District COVID-19 database

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Figure 12: Case notification to investigation completion interval in days (8/1-8/21/2021)

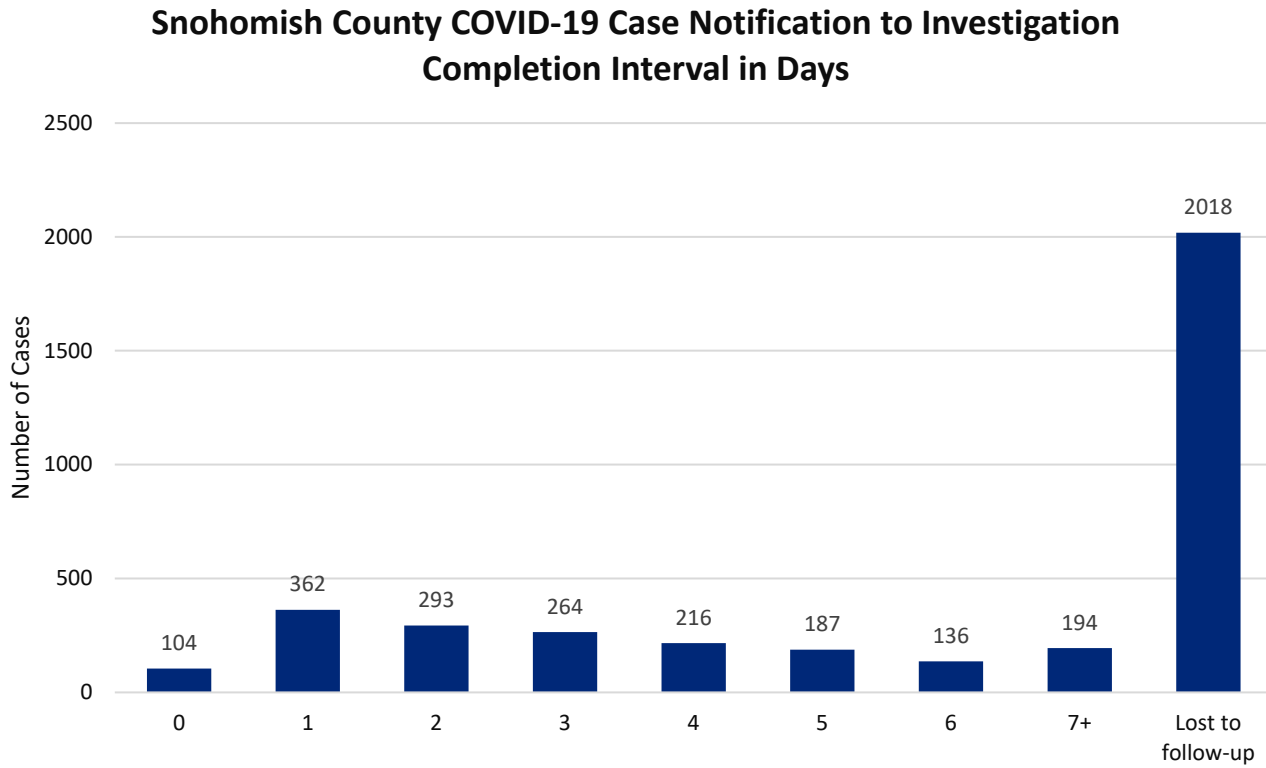


Table 11: Percent of identified contacts notified and quarantined within 2 days

Week	Contacts identified	Number contacted within 2 days	Percent contacted within 2 days
5/2-5/15/2021	753	421	44%
5/16-5/29/2021	608	436	72%
5/30-6/12/2021	560	381	68%
6/13-6/26/2021	584	383	66%
6/27-7/10/2021	450	282	63%
7/11-7/24/2021	792	513	65%
7/25-8/7/2021	721	330	46%
8/8-8/21/2021	513	292	57%

Data source: Snohomish Health District contact database.

COVID-19 IN LONG-TERM CARE FACILITIES

Long-term Care Facility (LTCF) Associated COVID-19 Cases:

Figure 13: LTCF-associated COVID-19 cases by onset date

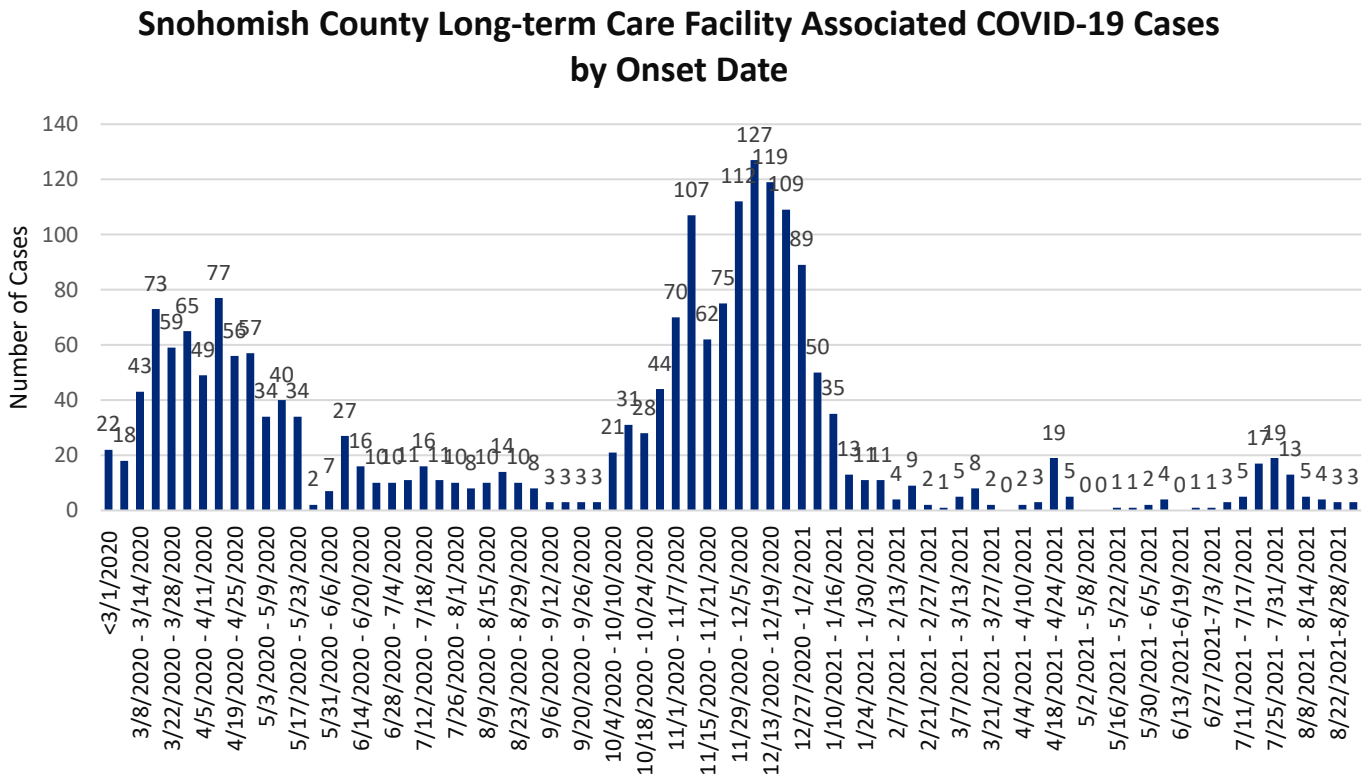


Table 12: Type of LTCF-associated COVID-19 cases (by date of report)

Type	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Resident	25	29	1,146
Staff	28	13	930
Other	0	1	13
Grand Total	53	43	2,089

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Table 13: Current status of LTCF-associated COVID-19 cases (by date of report)

Current status	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Home isolation	34	30	35
Hospitalized	<5	7	3
Survived ¹	16	5	1,762
Deceased	<5	0	288
Unknown	<5	1	1
Grand Total	53	43	2,089
¹ No longer in isolation, not hospitalized at this time, not deceased, >28 days since case report			

Table 14: LTCF-associated cases ever hospitalized for COVID-19 illness (by date of report)

Ever hospitalized	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
No	45	33	1,450
Yes	<5	8	365
Unknown	<5	<5	274
Grand Total	53	43	2,089

Table 15: Current COVID-19 outbreaks among long-term care facilities and adult family home (note only outbreaks with >5 cases are listed)

Facility	Number	Date outbreak reported	Date outbreak resolved*
A & D Quality Care Adult Family Home	8	08/26/2021	09/23/2021

*Date outbreak resolved is calculated as 28 days from the last case onset date.

COVID-19 DEATHS

Figure 14: Snohomish County COVID-19 related deaths by date of death

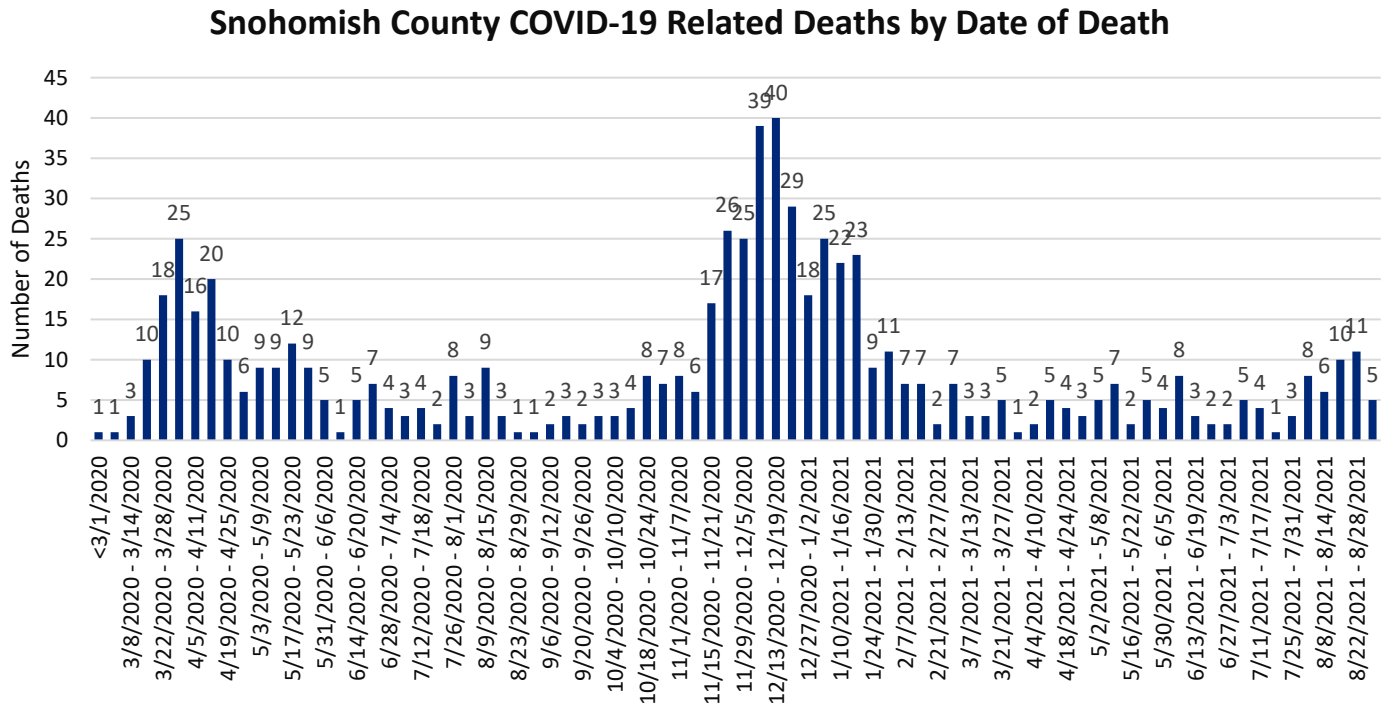


Table 16: Gender of COVID-19 related deaths in Snohomish County by case report date

Sex at birth	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Female	11	5	319
Male	15	9	356
Grand Total	26	14	675

Table 17a: Age group of COVID-19 related deaths in Snohomish County by report week

Age group in years	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
20-29	<5	<5	6
30-39	<5	<5	7
40-49	<5	<5	26
50-59	<5	<5	41
60-69	5	<5	100
70-79	9	5	174
80+	6	4	321
Grand Total	26	14	675

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Table 17b. Age group of COVID-19 related deaths in Snohomish County – all deaths

Age group in years	Number	Percent	Death rate per 100,000 population	Case Fatality Rate (%)
20-29	6	1%	6.2	0.1%
30-39	7	1%	5.9	0.1%
40-49	26	4%	23.0	0.3%
50-59	41	6%	36.0	0.6%
60-69	100	15%	103.1	2.4%
70-79	174	26%	332.5	9.0%
80+	321	48%	1,278.1	22.5%
Grand Total	675	100%	81.3	1.3%

Figure 15: Number of Snohomish County COVID-19 related deaths by age group

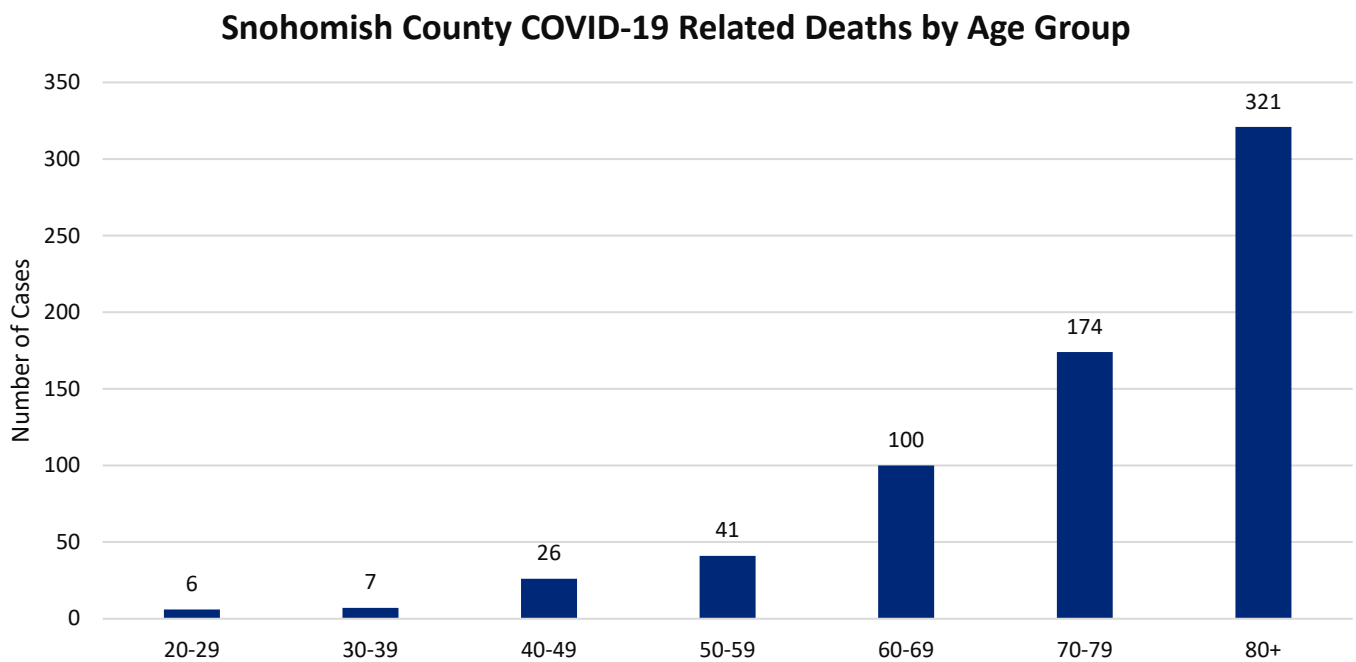


Table 18: Underlying health conditions of COVID-19 related deaths in Snohomish County

Underlying health condition	Number	Percent
Yes	594	88.0%
No	37	5.5%
Unknown	44	6.5%
Grand Total	675	100.0%

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Table 19: Hospitalization of COVID-19 related deaths in Snohomish County

Ever hospitalized	Number	Percent
Yes	478	70.8%
No	173	25.6%
Unknown	24	3.6%
Grand Total	675	100.0%

Table 20: Type of exposure among COVID-19 related deaths in Snohomish County

Type of exposure	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Long-term care facility associated	<5	<5	288
Community acquired	5	<5	166
Close contact	6	6	96
Nosocomial	<5	<5	20
Travel	<5	<5	<5
Healthcare worker	<5	<5	<5
Unknown	12	<5	101
Grand Total	26	14	675

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Table 21: City of residence of COVID-19 related deaths in Snohomish County

City	August 2021	July 2021	Cumulative 1/20/2020-8/31/2021
Arlington	<5	<5	40
Bothell	<5	<5	35
Darrington	<5	<5	<5
Edmonds	<5	<5	63
Everett	<5	<5	174
Gold Bar	<5	<5	<5
Granite Falls	<5	<5	<5
Lake Stevens	<5	<5	24
Lynnwood	<5	<5	90
Marysville	<5	<5	73
Mill Creek	<5	<5	12
Monroe	<5	<5	33
Mountlake Terrace	<5	<5	12
Mukilteo	<5	<5	11
Snohomish	<5	<5	27
Stanwood	<5	<5	50
Sultan	<5	<5	5
Tulalip	<5	<5	14
Woodinville	<5	<5	<5
Grand Total	26	14	675

COVID-19 VACCINE BREAKTHROUGH CASES

A COVID-19 vaccine breakthrough case is defined as a COVID-19 lab positive case in a person that is considered fully vaccinated (≥2 weeks after 2nd mRNA vaccine or 1st Johnson & Johnson vaccine).

Figure 16: COVID-19 case rates per 100,000 by month and vaccination status

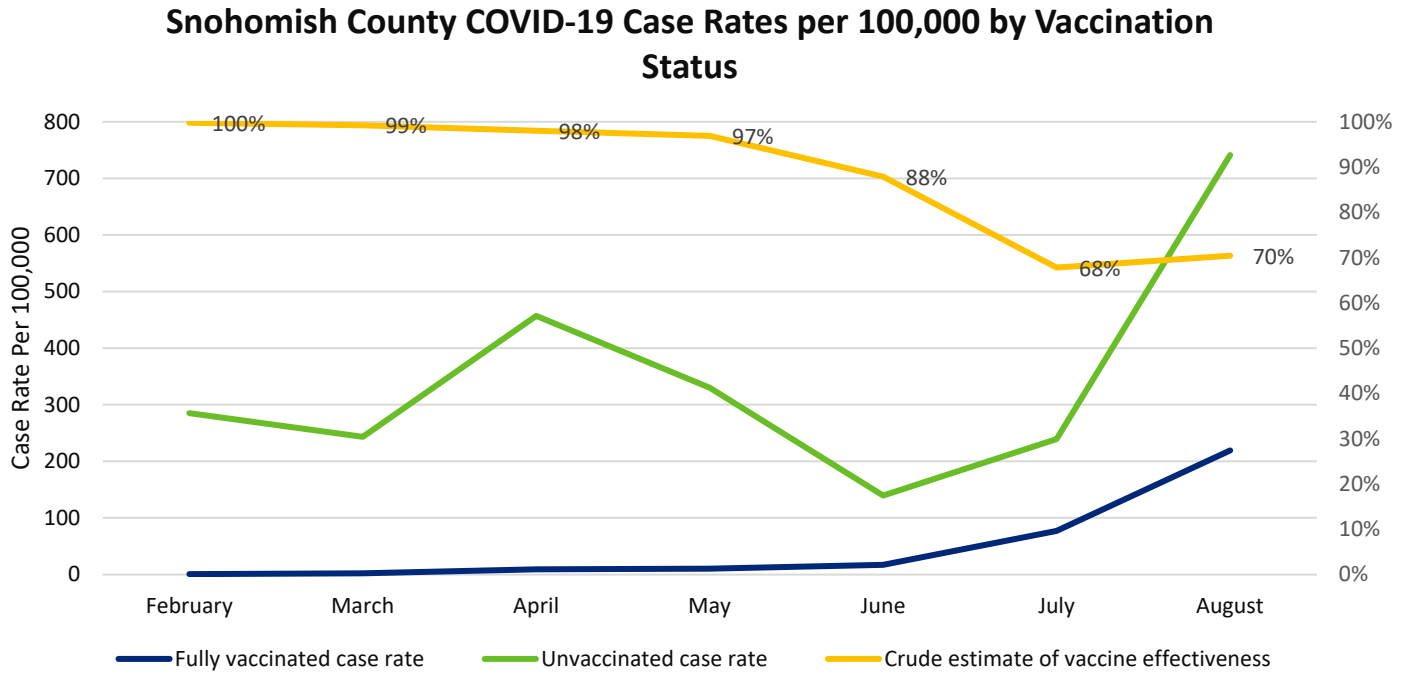


Table 22: COVID-19 cases by vaccination status

Month	Total number of cases	Number of COVID-19 vaccine breakthrough cases	Percent unvaccinated
February	2,412	5	100%
March	2,069	16	99%
April	3,936	77	98%
May	2,873	87	97%
June	1,322	143	89%
July	2,670	650	76%
August	8,110	1,851	77%
Total	23,392	2,829	88%

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Figure 17: COVID-19-related hospitalizations by vaccine status

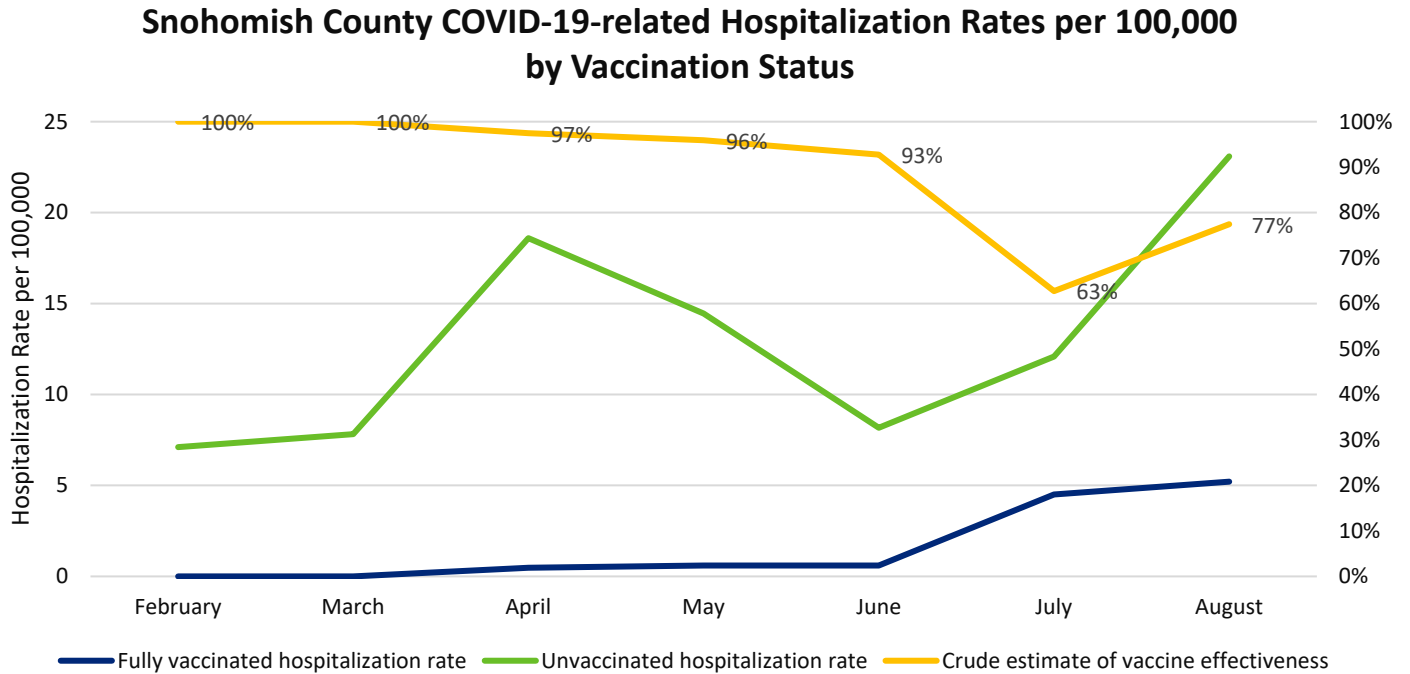


Table 23: COVID-19-related hospitalizations by vaccine status

Month	Total COVID-19 related hospitalizations	COVID-19 vaccine breakthrough hospitalizations	Percent unvaccinated
February	60	<5	100%
March	66	<5	100%
April	161	<5	98%
May	127	5	96%
June	74	5	93%
July	140	38	73%
August	239	44	82%
Total	867	96	89%

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Table 24: COVID-19-related deaths by vaccination status

Month	Total COVID-19 related deaths	COVID-19 vaccine breakthrough deaths	Percent unvaccinated
February	27	0	100%
March	18	0	100%
April	13	0	100%
May	21	0	100%
June	17	<5	94%
July	14	<5	71%
August	27	5	81%
Total	137	10	93%