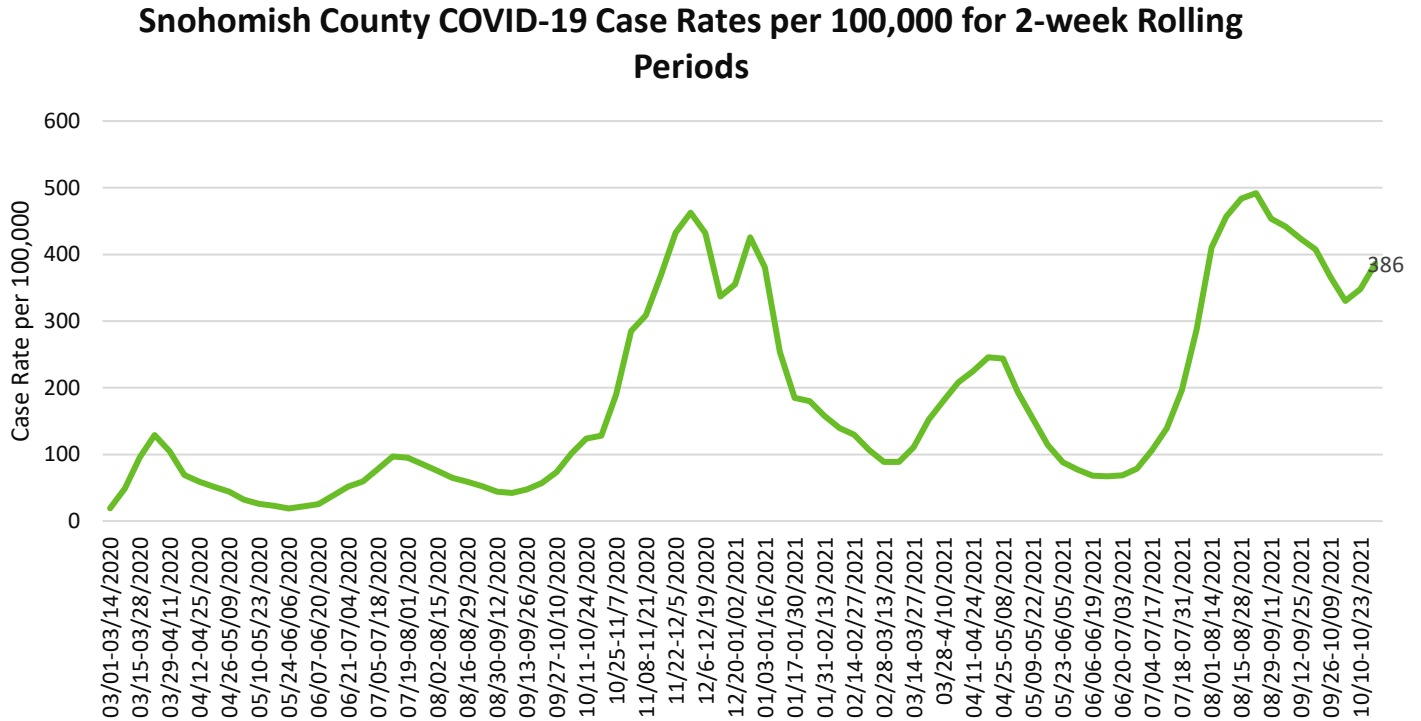


**SNOHOMISH HEALTH DISTRICT
 COVID-19 EPIDEMIOLOGY REPORT
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COVID-19 EPIDEMIOLOGIC OVERVIEW

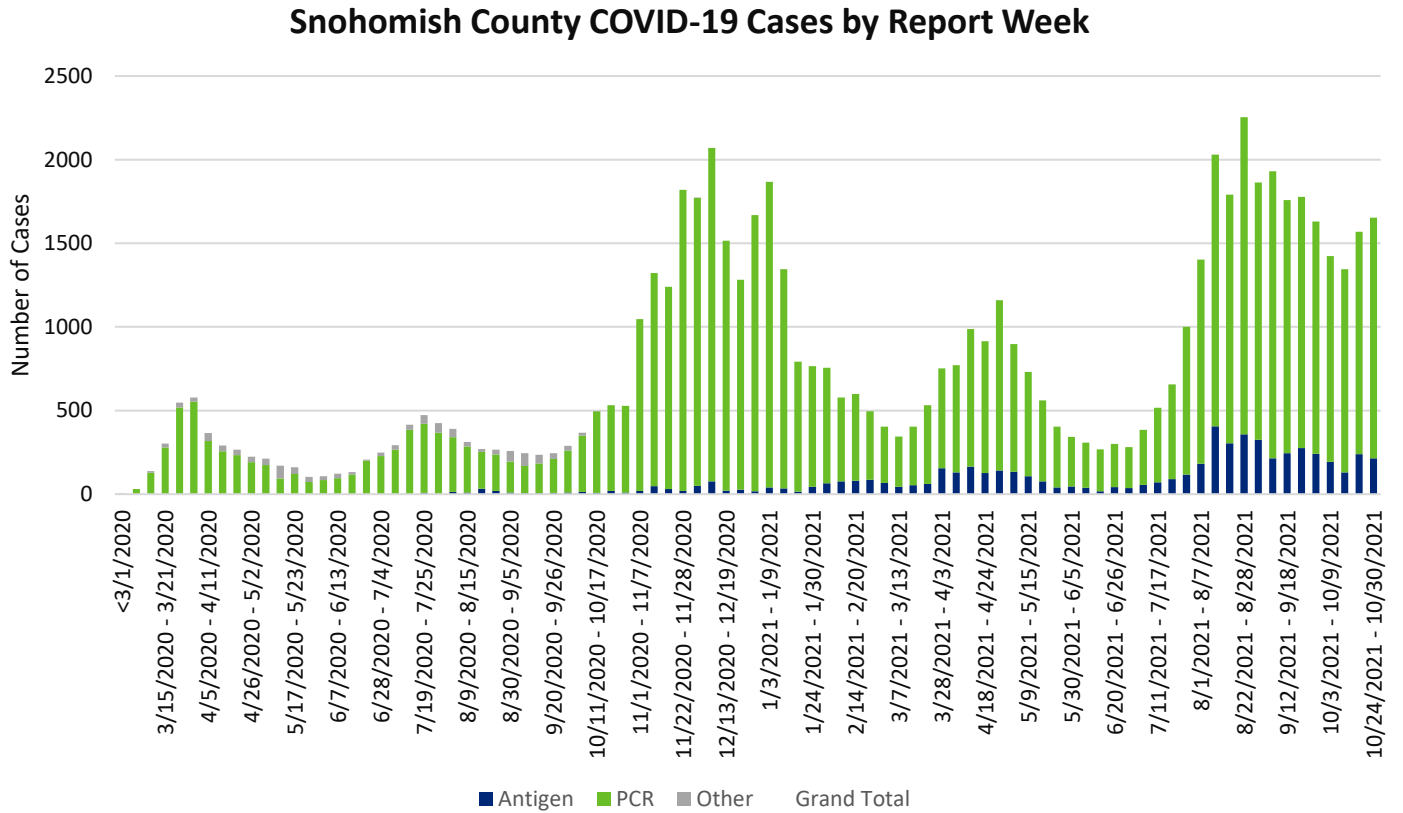
Figure 1: Snohomish County COVID-19 case rates per 100,000



Data source: Snohomish Health District COVID-19 database.

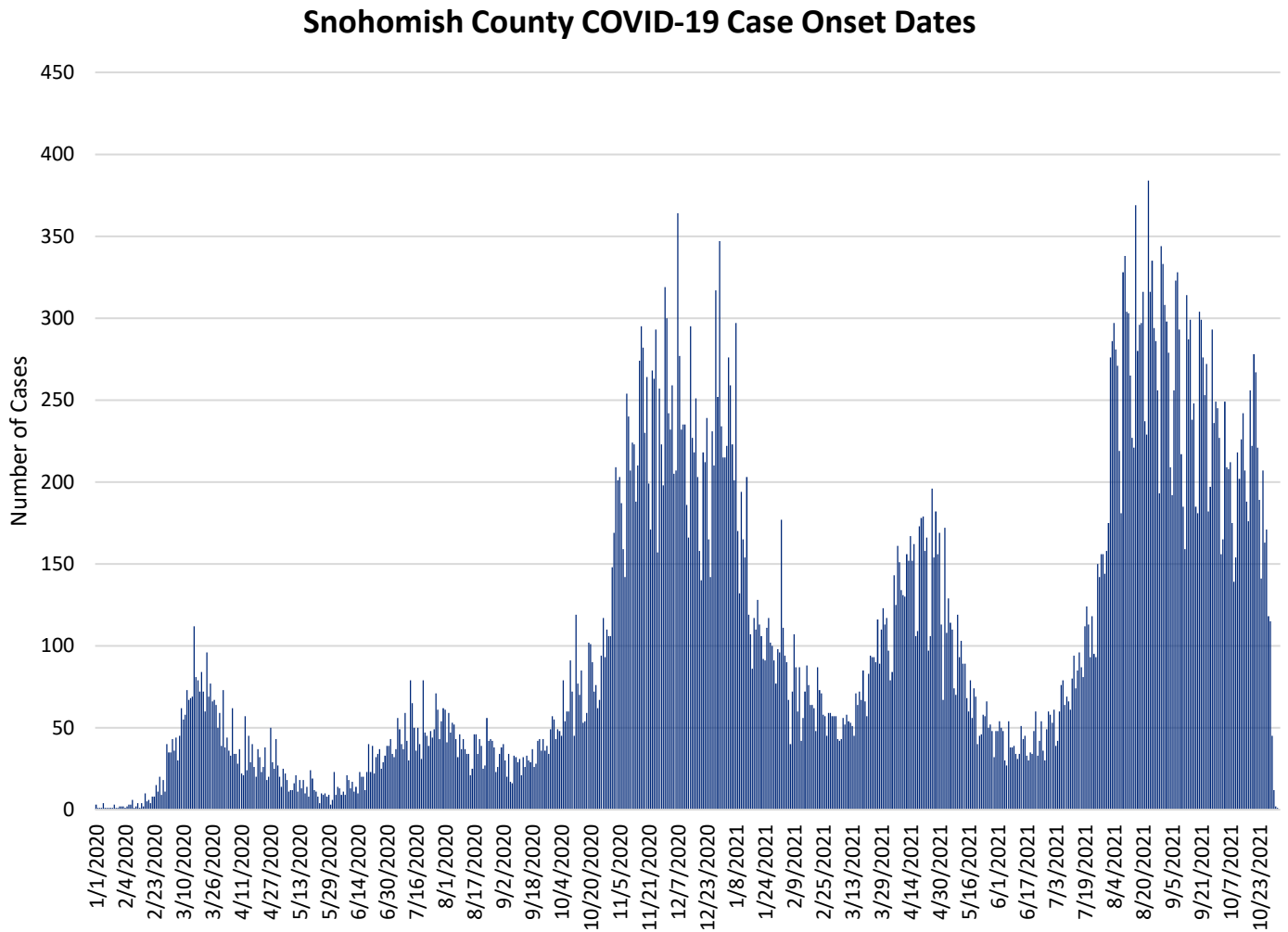
**MONTHLY COVID-19 REPORT
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Figure 2: Number of Snohomish County COVID-19 cases by week of report



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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

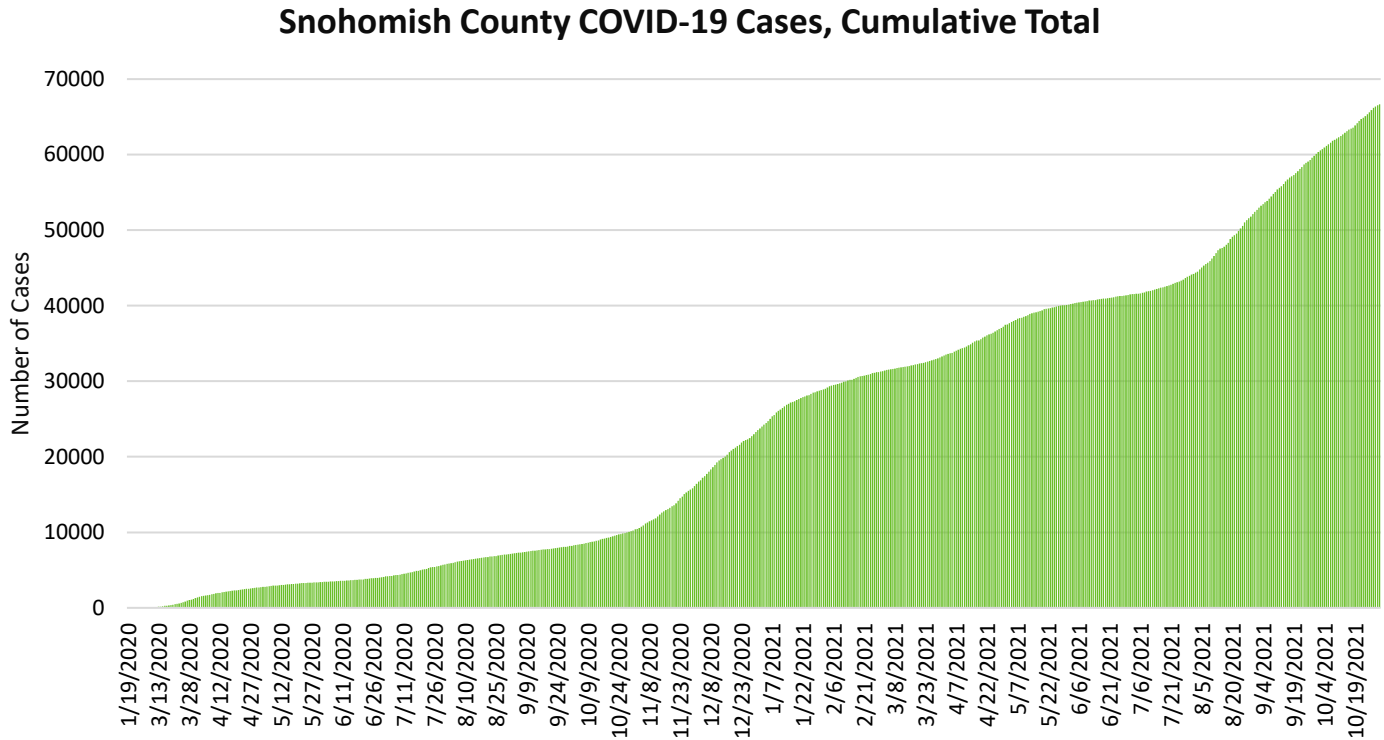


Table 1: Sex at birth of COVID-19 cases in Snohomish County

Sex at birth	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Female	3,285	3,763	33,389
Male	3,268	3,883	33,214
Unknown	11	12	59
Grand Total	6,564	7,658	66,662

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

Age group in years	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
0-14	1,483	1,482	8,882
15-19	430	482	4,717
20-29	814	1,206	12,287
30-39	1,162	1,493	12,532
40-49	970	1,134	10,393
50-59	802	881	8,450
60-69	536	566	5,226
70-79	247	271	2,460
80+	119	142	1,690
Unknown	1	1	25
Grand Total	6,564	7,658	66,662

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

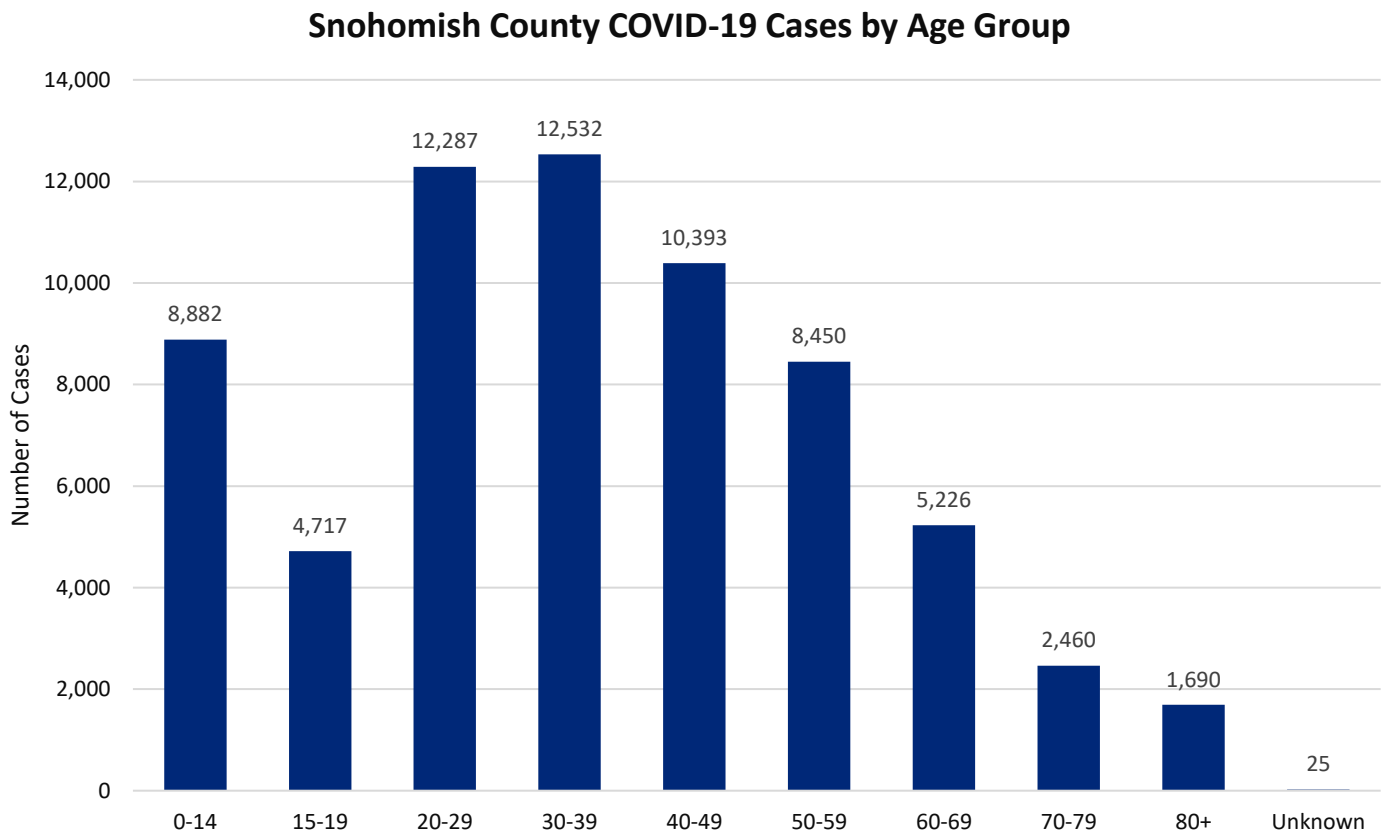
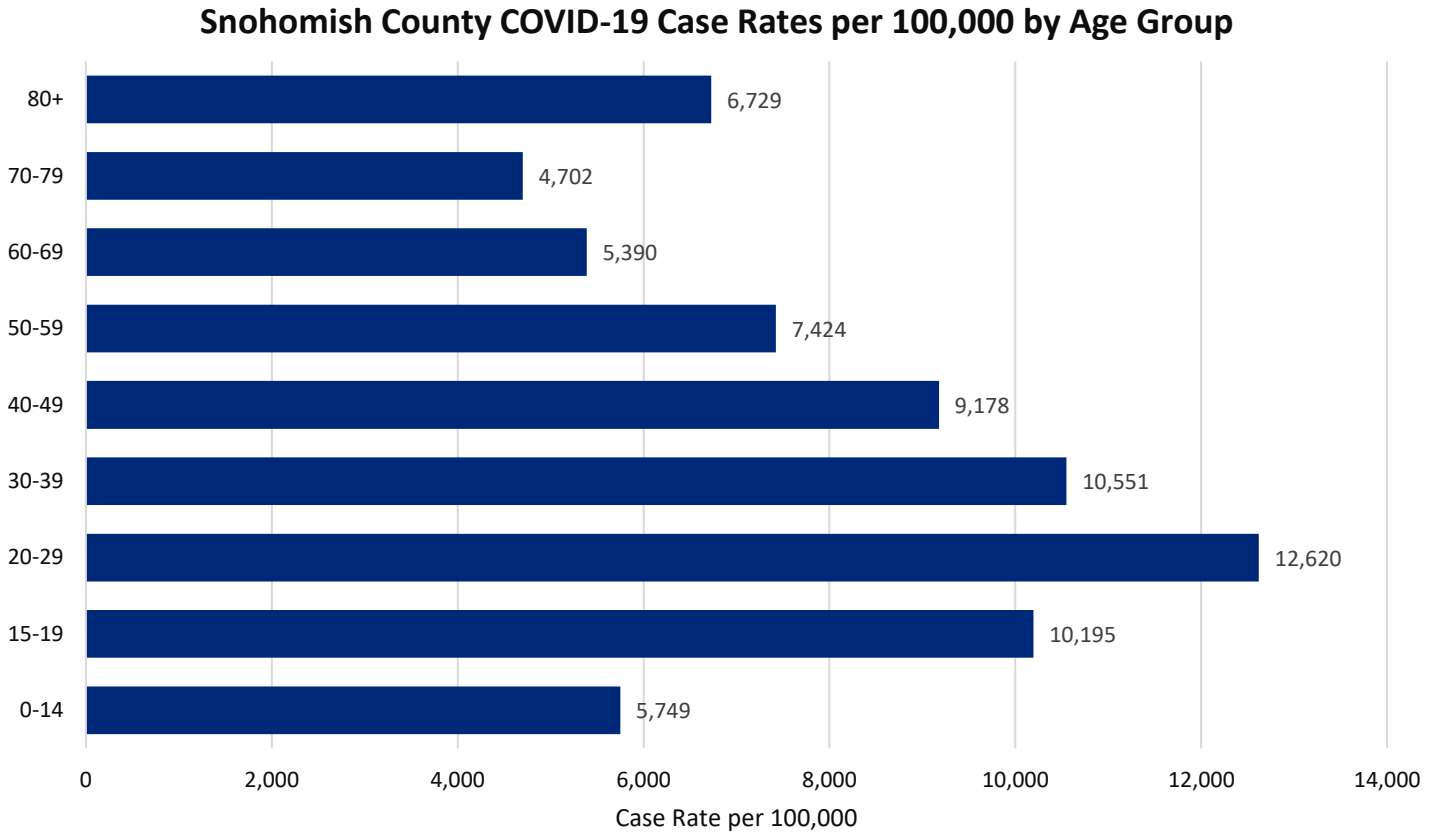


Figure 6: Snohomish County cumulative COVID-19 case rates per 100,000 by age group



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

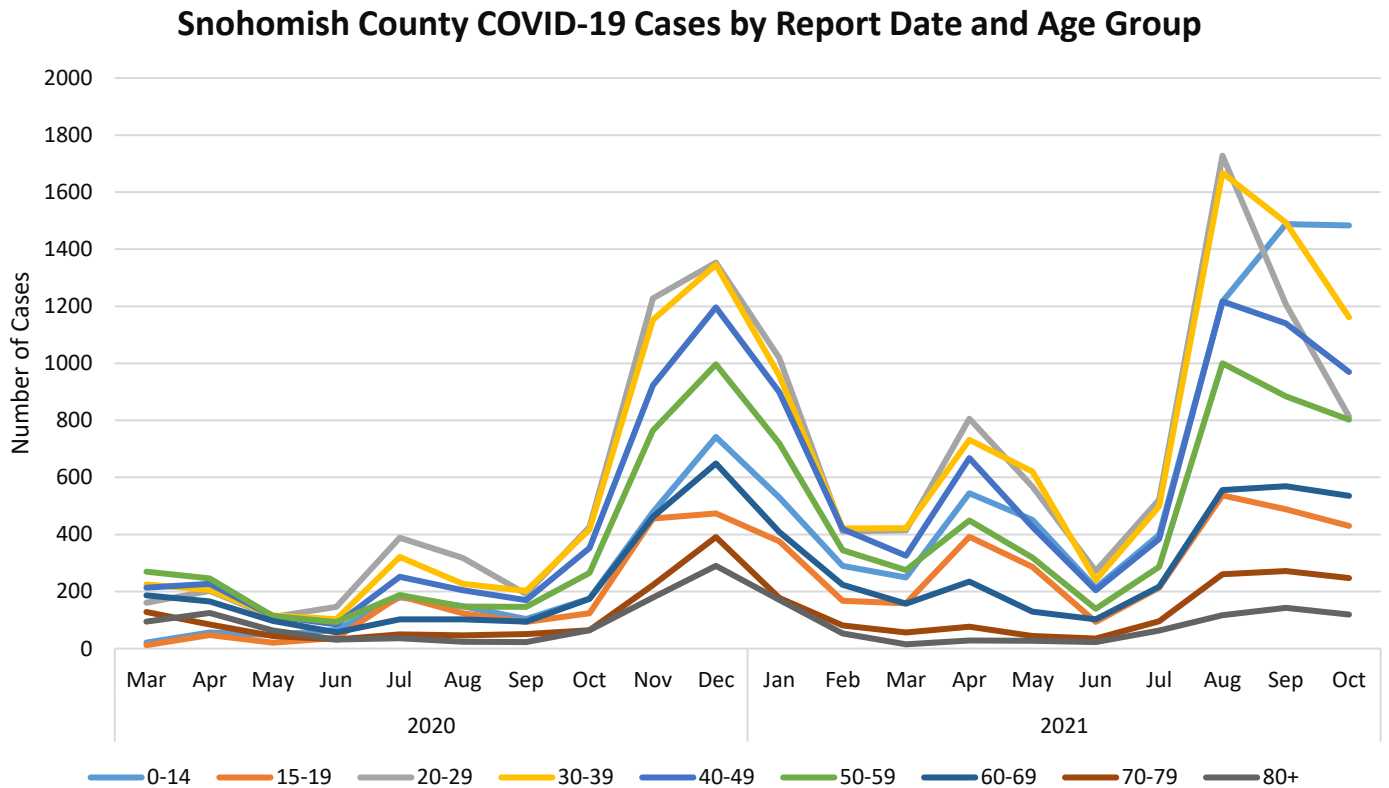
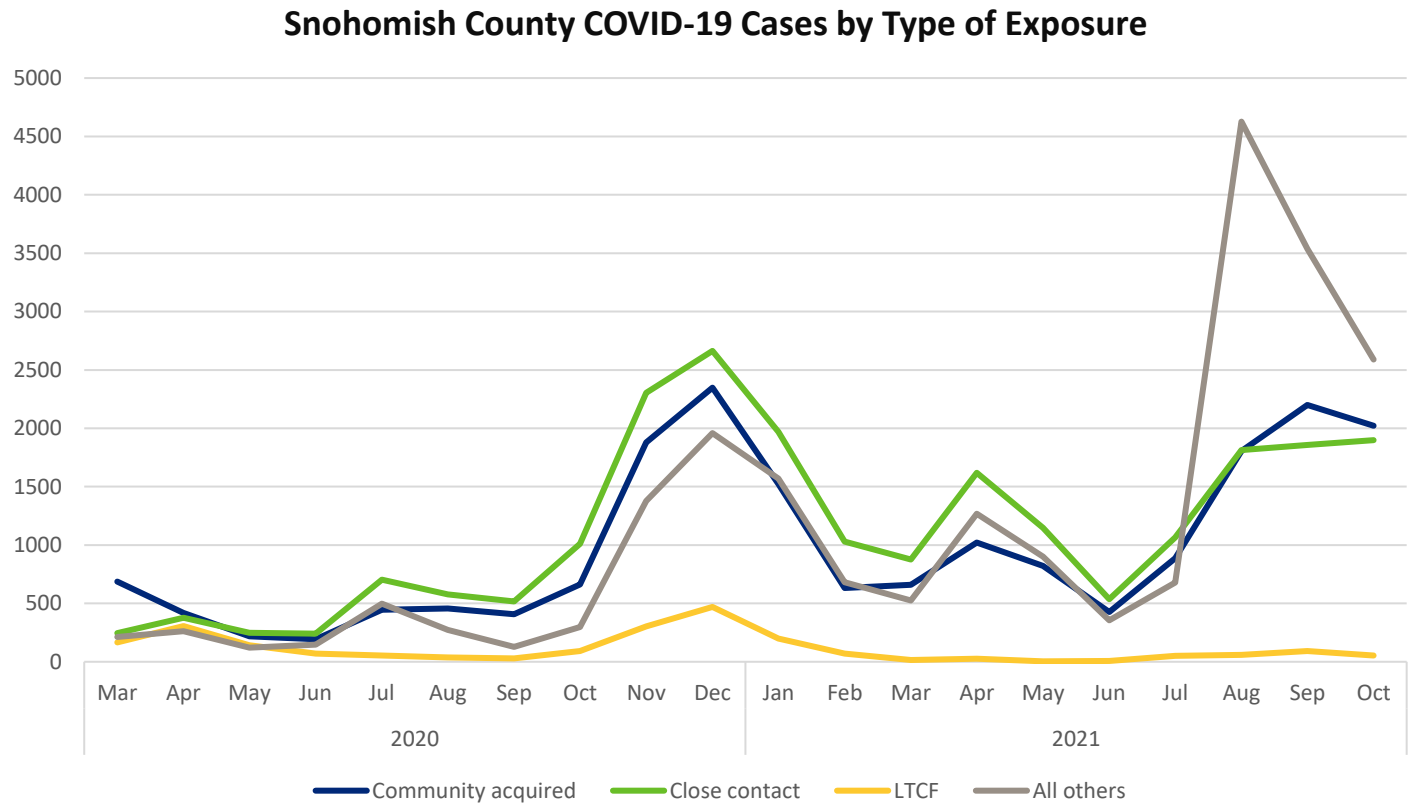


Table 3: Type of exposure among COVID-19 cases in Snohomish County

Type of exposure	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Close contact	1,899	1,855	22,694
Community acquired	2,021	2,193	19,711
Long-term Care Facility Associated	54	90	2,249
Corrections	5	12	686
Healthcare Worker	<5	0	553
Travel	<5	0	155
Nosocomial	<5	0	60
Unknown	2,584	3,508	20,554
Grand Total	6,564	7,658	66,662

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



*Note: ‘all others’ includes healthcare workers, corrections, nosocomial, travel-associated and unknown/lost to follow-up

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

Current status	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Home isolation	1,424	2,120	1,425
Hospitalized	65	64	70
Survived ¹	3,926	3,599	63,267
Deceased	31	17	771
Unknown <28 days since case report	1,118	1,858	1,129
Grand Total	6,564	7,658	66,662

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	991	2%	1008
2020	April	89	937	8%	1026
2020	May	88	457	19%	545
2020	June	99	387	21%	486
2020	July	216	973	18%	1189
2020	August	126	896	13%	1022
2020	September	79	621	10%	700
2020	October	163	1549	10%	1712
2020	November	420	4082	9%	4502
2020	December	821	4837	14%	5658
2021	January	597	3458	15%	4055
2021	February	271	1639	14%	1910
2021	March	158	1419	10%	1577
2021	April	268	2462	10%	2730
2021	May	215	1916	10%	2131
2021	June	113	943	11%	1056
2021	July	107	1648	6%	1755
2021	August	692	3840	15%	4532
2021	September	425	3896	10%	4321
2021	October	334	3492	10%	3826
Grand Total		5,298	40,448	12%	45,746

Data source: WDRS, only includes lab positive cases with available symptom status data.

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

Ever hospitalized	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
No	3,710	3,891	42,546
Yes	219	213	2,903
Unknown	2,635	3,554	21,213
Grand Total	6,564	7,658	66,662

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Table 7: COVID outbreaks by type

Type of outbreak	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Adult family home	8	3	78
Agriculture	1	2	8
Bar	1	0	6
Behavioral health	3	0	8
Camp	0	1	2
Childcare	1	12	74
Community	1	0	1
Construction	2	5	90
Corrections	0	0	2
Distribution	1	1	14
Emergency services	0	0	5
Faith based services	4	1	40
Financial Institution	2	0	11
Food processing	2	1	19
Government	2	4	25
Gym	0	0	3
Healthcare provider	0	2	19
Home health	0	0	4
Hospital	0	0	7
Landscaping	1	0	12
Leisure/recreation	0	2	21
LTCF	4	10	134
Manufacturing	12	8	141
Personal Care and Services	0	1	15
Real estate	2	0	15
Restaurant	2	16	105
Retail	21	22	176
School	20	66	132
Service provider	4	19	110
Shelter	0	0	6
Social Event	0	1	28
Supported Living	0	2	4
Transportation	0	1	8
Utilities	3	3	21
Youth Sports	1	2	7
Total number of outbreaks (number of cases)	98 (475)	185 (934)	1,351 (8,715)

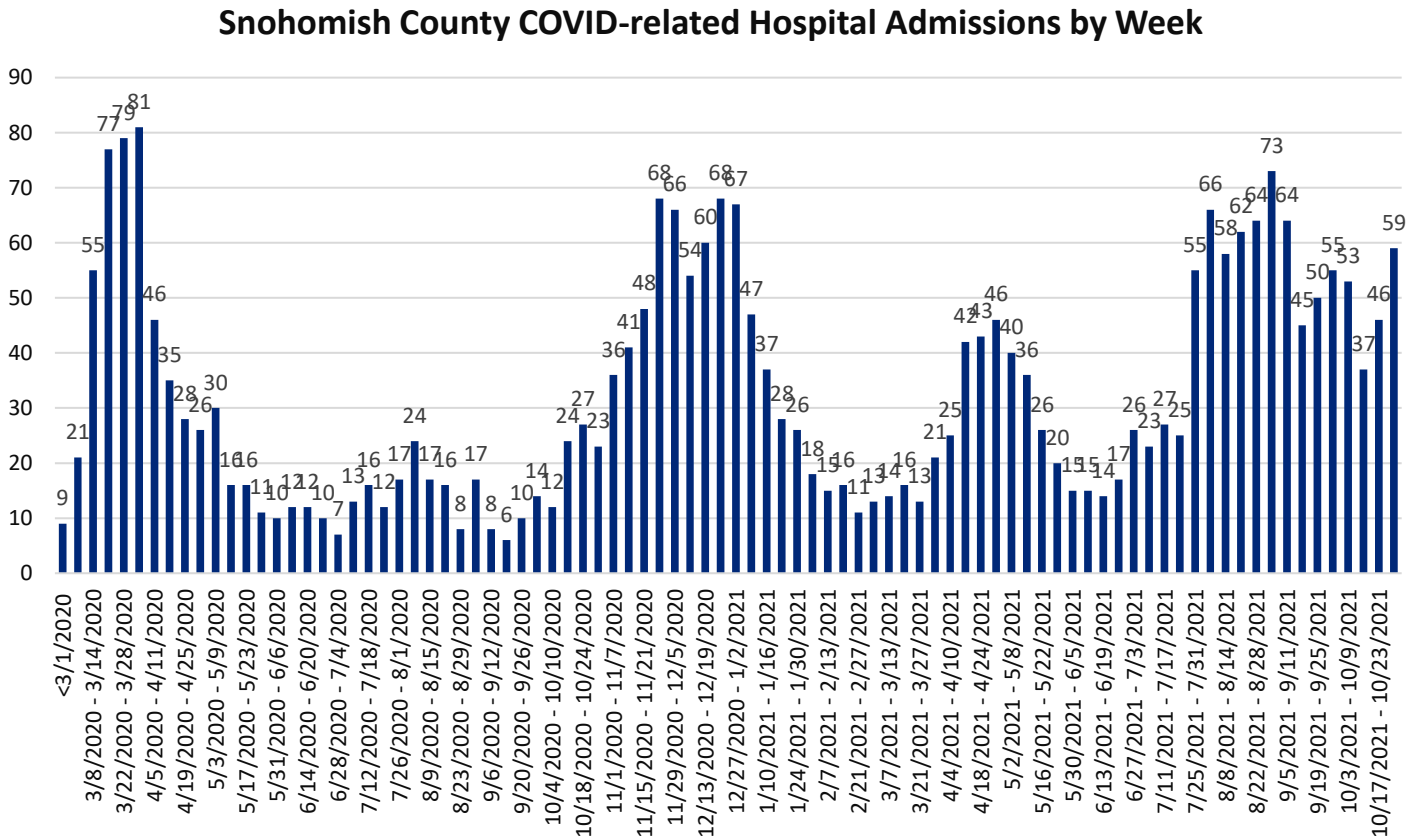
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Table 8: City of residence of COVID-19 cases in Snohomish County

City	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Arlington	637	834	4,580
Bothell	442	479	4,582
Brier	34	49	362
Darrington	21	33	155
Edmonds	348	287	3,484
Everett	1,240	1,305	15,098
Gold Bar	45	78	388
Granite Falls	142	186	987
Index	<5	8	13
Lake Stevens	516	616	4,563
Lynnwood	656	777	8,228
Marysville	812	1,033	7,564
Mill Creek	141	131	1,246
Monroe	268	252	3,138
Mountlake Terrace	98	158	1,553
Mukilteo	111	108	1,172
North Lakewood	<5	<5	15
Silvana	<5	7	33
Snohomish	571	675	5,045
Stanwood	256	303	2,301
Startup	0	<5	6
Sultan	73	129	677
Tulalip	120	170	1,162
Woodinville	18	23	199
Woodway	<5	9	81
Unknown	3	6	30
Grand Total	6,564	7,658	66,662

COVID-19 CONTROL PROCESS INDICATORS

Figure 9: COVID-related hospital admissions by week



Data source: Snohomish Health District COVID-19 database

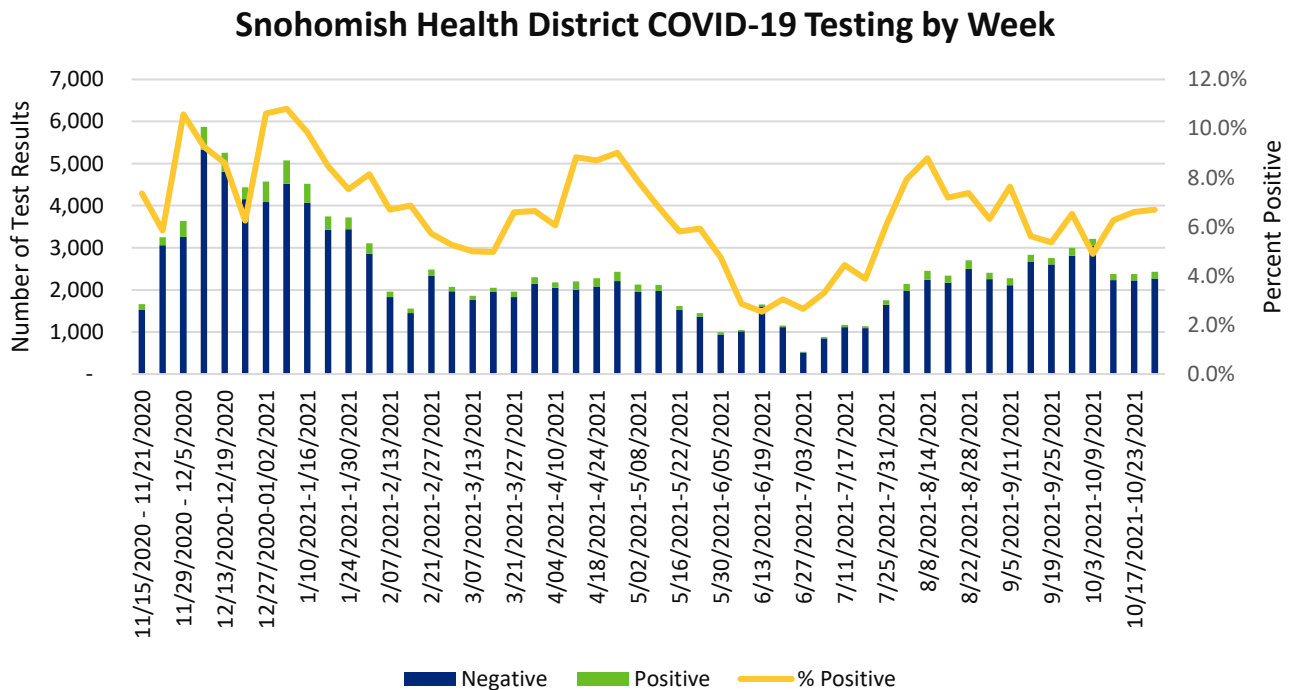
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Table 9: Snohomish Health District testing activity by week

Week	Tests Reported	Negative	Positive	% Positive
9/12/2021-9/18/2021	2,834	2,675	159	5.6%
9/19/2021-9/25/2021	2,756	2,608	148	5.4%
9/26/2021-10/02/2021	3,003	2,807	196	6.5%
10/3/2021-10/9/2021	3,210	3,053	157	4.9%
10/10/2021-10/16/2021	2,379	2,230	149	6.3%
10/17/2021-10/23/2021	2,379	2,222	157	6.6%
10/24/2021-10/30/2021	2,433	2,270	163	6.7%
10/31/2021-11/06/2021	1,819	1,703	116	6.4%
Total	20,813	19,568	1,245	6.0%

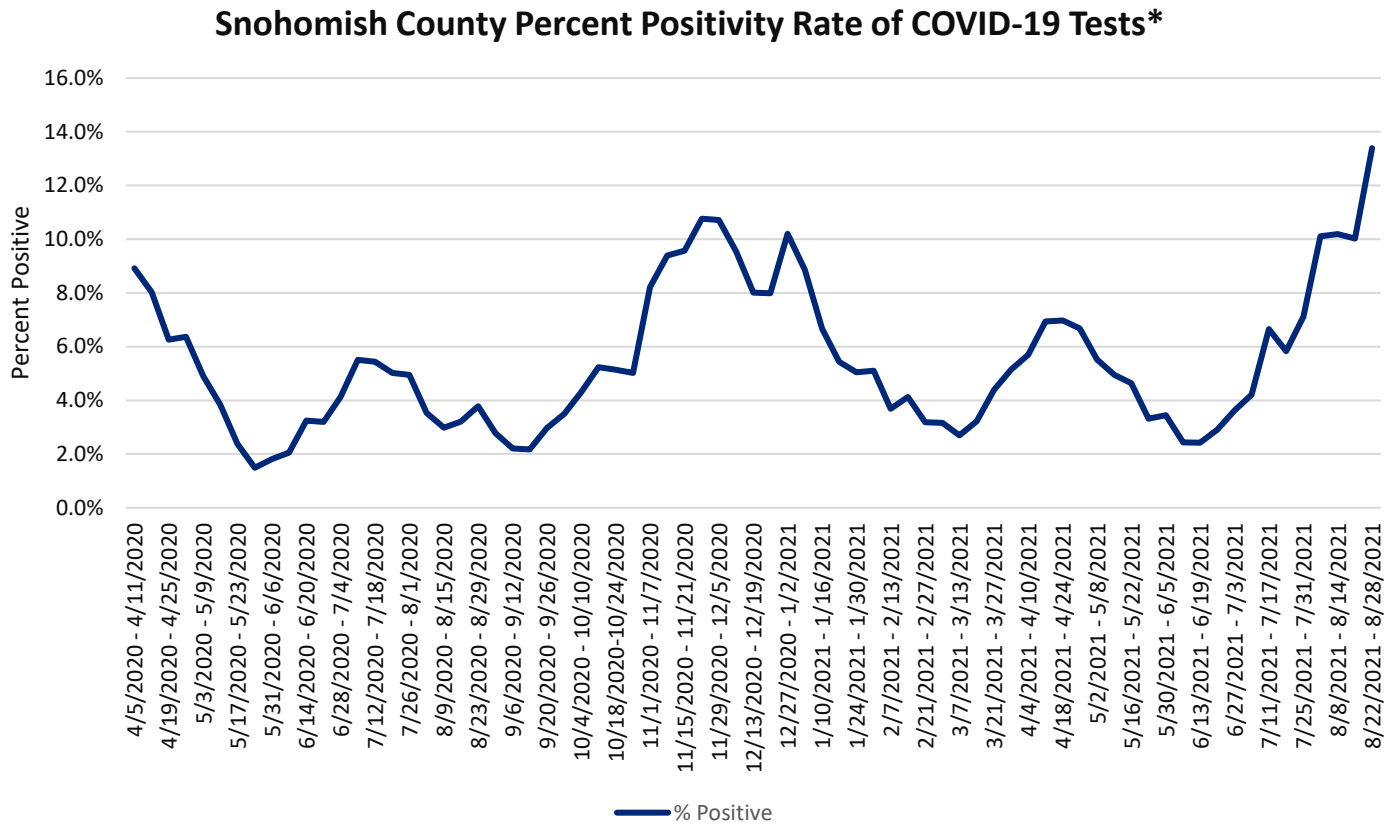
*Data source WA DOH COVID-19 data dashboard. Data after 8/21/2021 is incomplete and not included in this table.

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



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



*Data source: Washington State Department of Health COVID-19 data dashboard. Data is incomplete past 8/28/2021 and is not included.

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
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%
8/22-9/4/2021	4,119	597	14%	878	21%
9/5-9/18/2021	3,666	890	24%	1,409	38%
9/19-10/2/2021	2,955	810	27%	1,243	42%
10/3-10/16/2021	2,769	800	29%	1,216	44%
10/17-10/30/2021	3,221	1,037	32%	1,458	45%

Data source: Snohomish Health District COVID-19 database

Figure 12: Case notification to investigation completion interval in days (10/17/2021-10/30/2021)

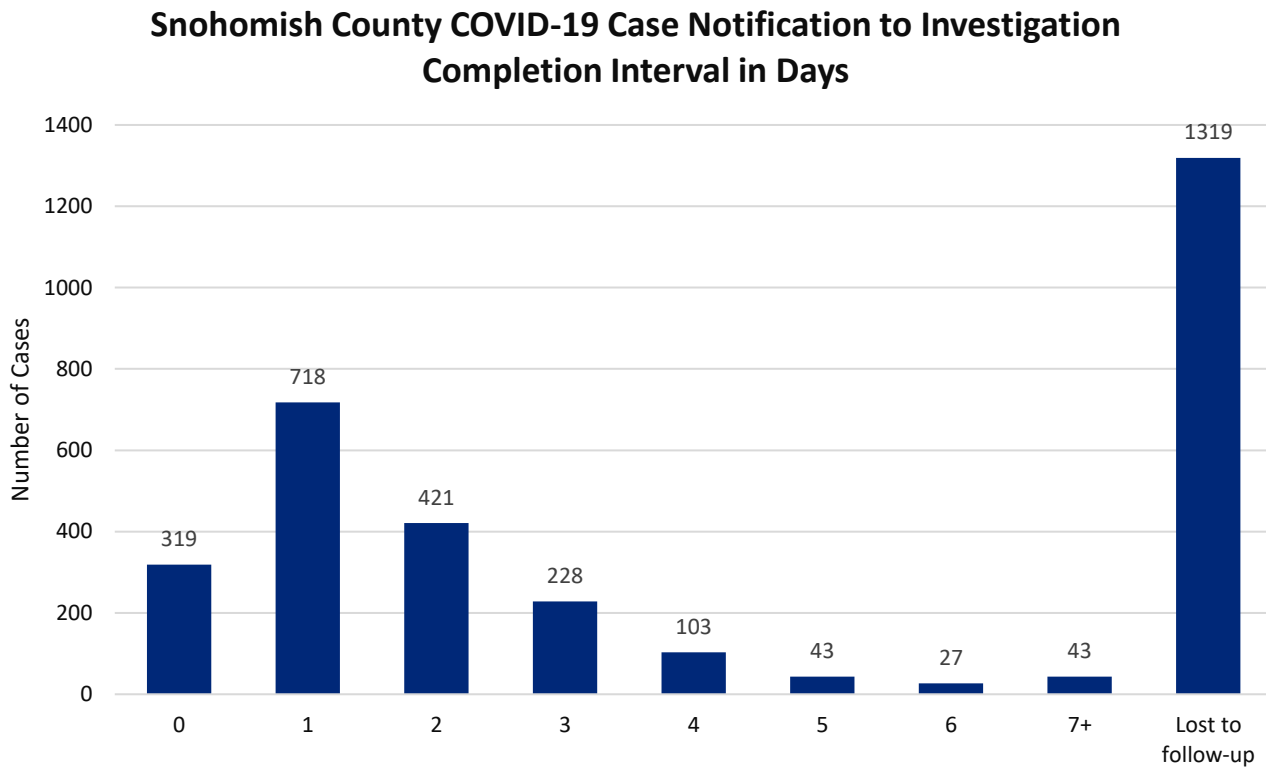


Table 11: Percent of identified contacts notified and quarantined within 2 days

Week	Contacts identified	Number contacted within 2 days	Percent contacted within 2 days
7/11-7/24/2021	792	513	65%
7/25-8/7/2021	721	330	46%
8/8-8/21/2021	513	292	57%
8/22-9/4/2021	283	178	63%
9/5-9/18/2021	79	74	94%
9/19-10/2/2021	274	190	69%
10/3-10/16/2021	264	214	81%
10/17-10/30/2021	489	375	77%

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

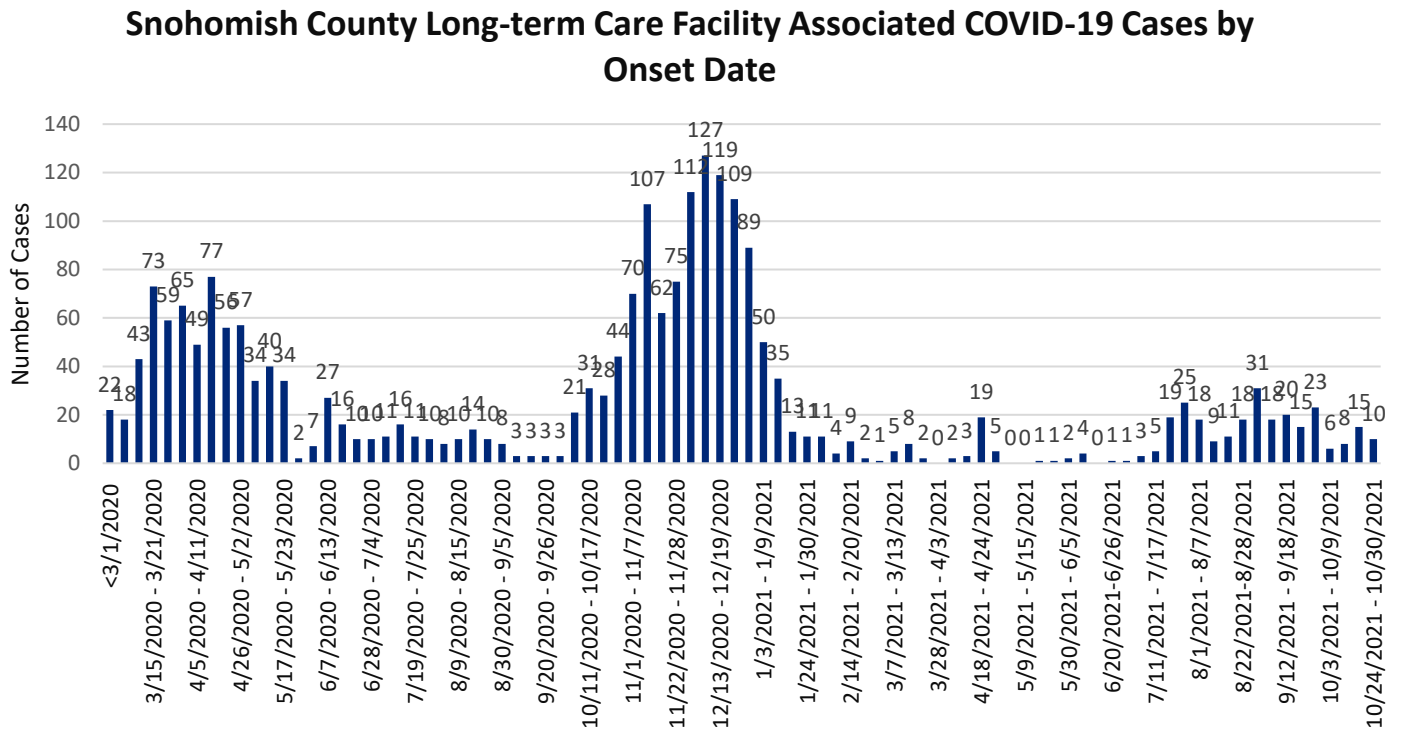


Table 12: Type of LTCF-associated COVID-19 cases (by date of report)

Type	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Resident	24	49	1,229
Staff	26	41	1,003
Other	<5	<5	17
Grand Total	54	90	2,249

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

Current status	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Home isolation	21	38	22
Hospitalized	<5	<5	<5
Survived ¹	29	45	1,927
Deceased	<5	<5	297
Unknown	2	2	2
Grand Total	54	90	2,249

¹No 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	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
No	39	75	1,569
Yes	6	11	387
Unknown	9	4	293
Grand Total	54	90	2,249

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*
Josephine Caring Community #3	13	8/10/2021	11/21/2021
Pacifica Senior Living Lynnwood #3	20	10/1/2021	11/18/2021
1st Abundance of Love AFH	5	10/5/2021	10/27/2021
Julie's Adult Family Home Lynnwood	9	10/27/2021	11/22/2021

*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

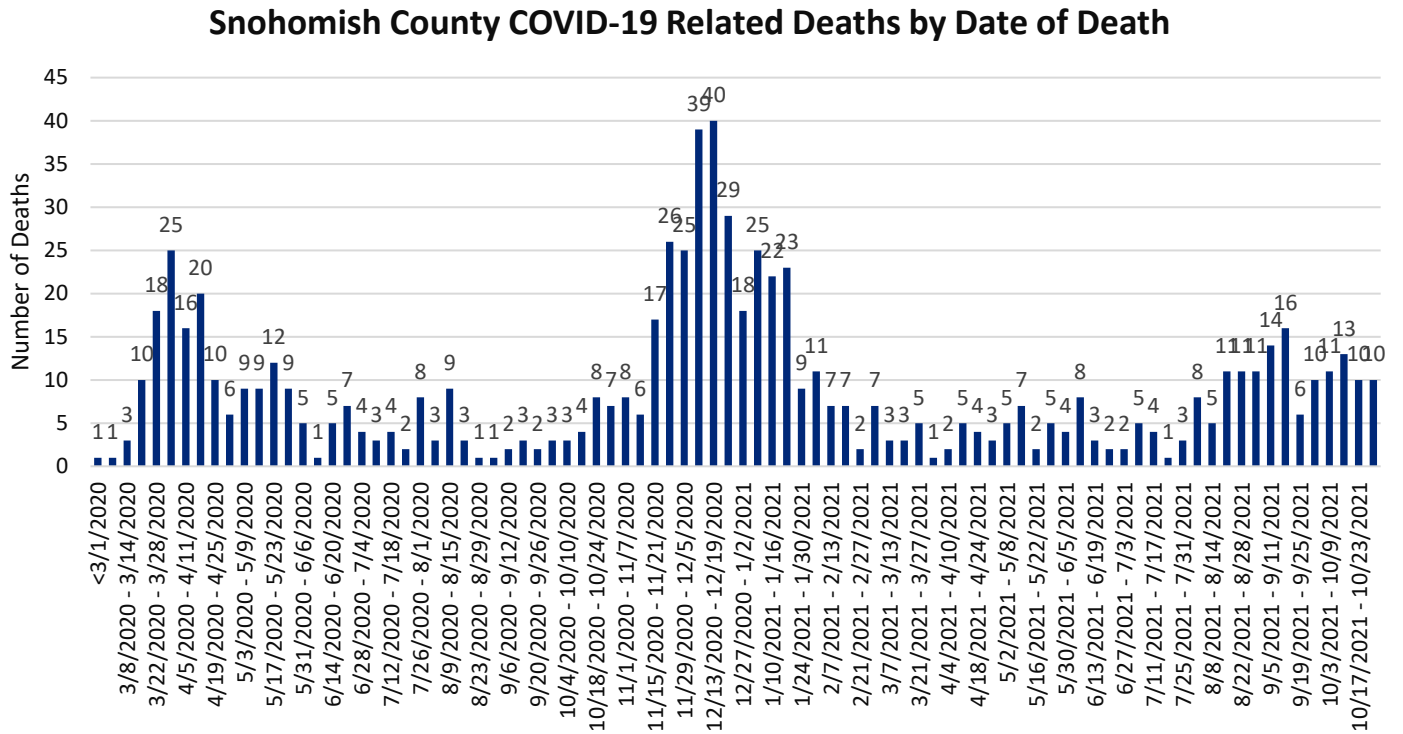


Table 16: Gender of COVID-19 related deaths in Snohomish County by case report date

Sex at birth	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Female	17	7	363
Male	14	10	408
Grand Total	31	17	771

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

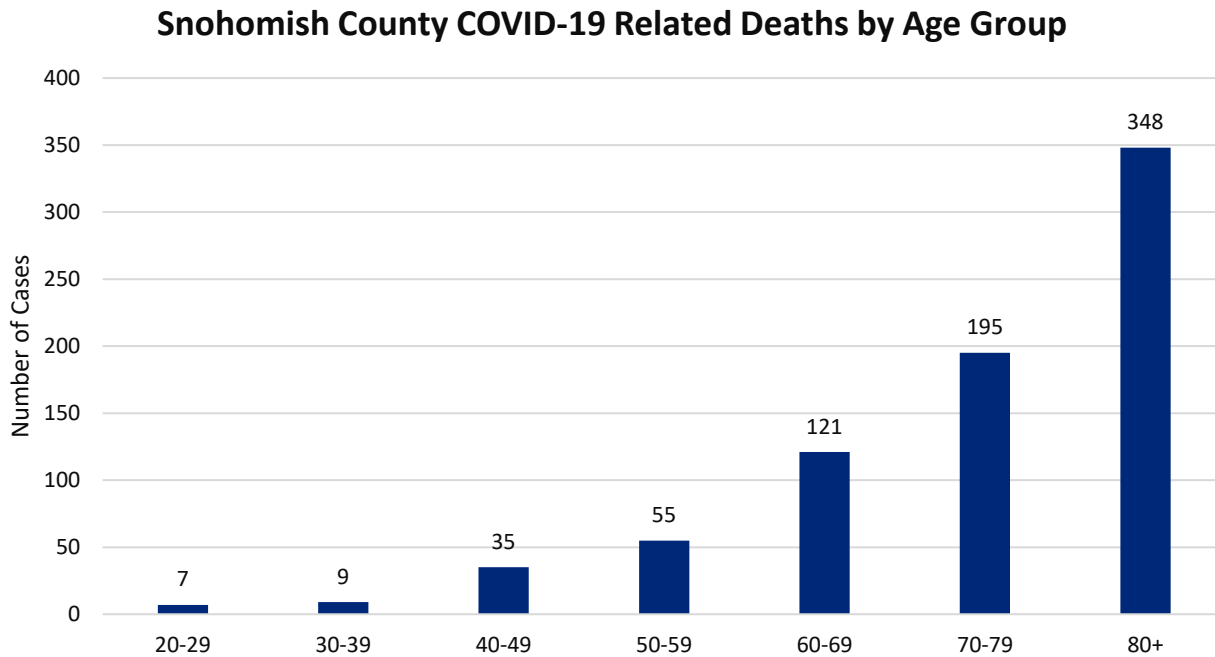
Age group in years	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
0-14	<5	<5	<5
15-19	<5	<5	<5
20-29	<5	<5	7
30-39	<5	<5	9
40-49	<5	<5	35
50-59	5	<5	55
60-69	7	<5	121
70-79	9	<5	195
80+	8	6	348
Grand Total	31	17	771

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 (%)
0-14	<5	<1%	0.6	0.0%
15-19	<5	0%	0.0	0.0%
20-29	7	1%	7.2	0.1%
30-39	9	1%	7.6	0.1%
40-49	35	5%	30.9	0.3%
50-59	55	7%	48.3	0.7%
60-69	121	15%	124.8	2.3%
70-79	195	25%	372.7	7.9%
80+	348	46%	1,385.6	20.6%
Grand Total	771	100%	92.8	1.2%

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



*Excludes 0–19-year-olds due to small numbers

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

Underlying health condition	Number	Percent
Yes	669	86.8%
No	44	5.7%
Unknown	58	7.5%
Grand Total	771	100.0%

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

Ever hospitalized	Number	Percent
Yes	560	72.6%
No	180	23.3%
Unknown	31	4.0%
Grand Total	771	100.0%

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

Type of exposure	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Long-term care facility associated	<5	<5	297
Community acquired	<5	5	184
Close contact	5	<5	111
Nosocomial	<5	<5	20
Travel	<5	<5	<5
Healthcare worker	<5	<5	<5
Unknown	23	7	155
Grand Total	31	17	771

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

City	October 2021	September 2021	Cumulative 1/20/2020-10/31/2021
Arlington	<5	5	46
Bothell	<5	<5	39
Darrington	<5	<5	<5
Edmonds	<5	<5	70
Everett	<5	5	196
Gold Bar	<5	<5	<5
Granite Falls	<5	<5	6
Lake Stevens	<5	<5	29
Lynnwood	<5	<5	102
Marysville	6	<5	87
Mill Creek	<5	<5	12
Monroe	<5	<5	36
Mountlake Terrace	<5	<5	14
Mukilteo	<5	<5	13
Snohomish	<5	<5	33
Stanwood	<5	<5	55
Sultan	<5	<5	9
Tulalip	<5	<5	14
Woodinville	<5	<5	<5
Grand Total	31	17	771

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). All data are from the Washington State Disease Reporting System (WDRS).

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

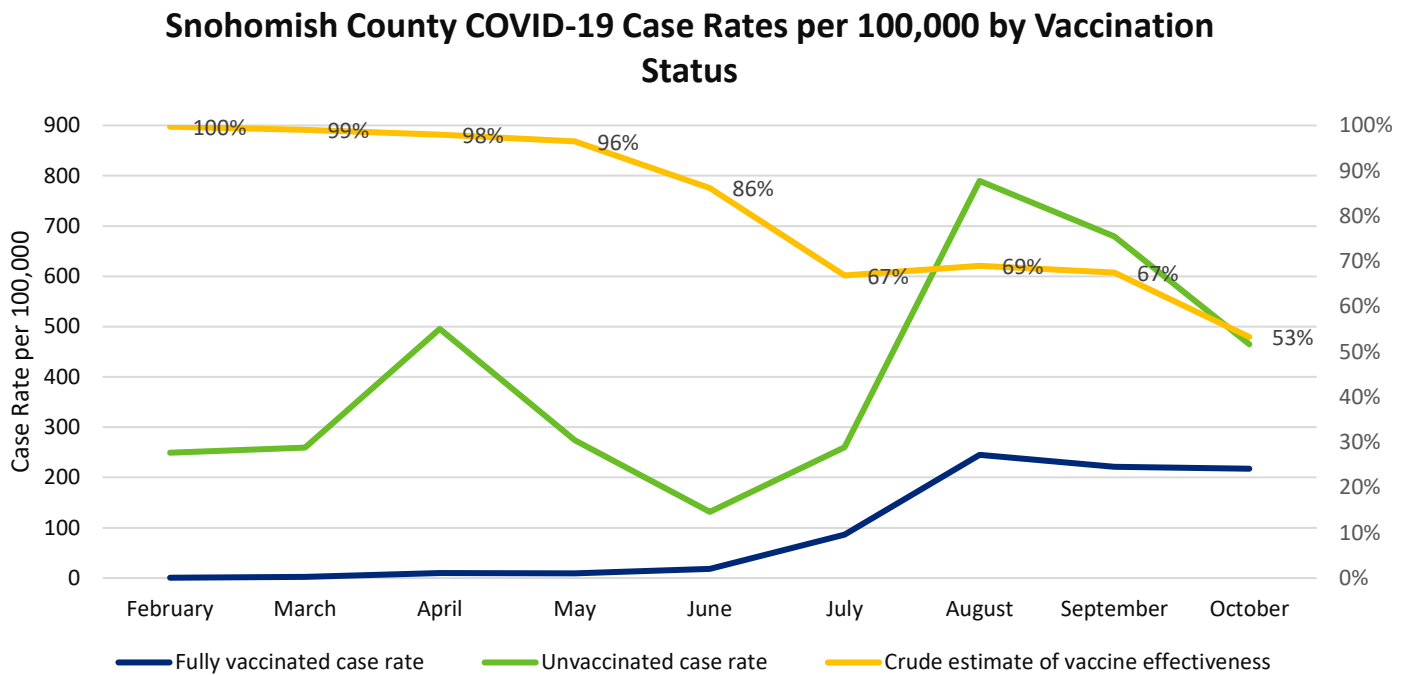


Table 22: COVID-19 cases by vaccination status

Month	Total number of cases	Number of COVID-19 vaccine breakthrough cases	Percent unvaccinated
February	2,110	6	100%
March	2,213	21	99%
April	4,270	86	98%
May	2,398	82	97%
June	1,266	154	88%
July	2,921	727	75%
August	8,737	2,069	76%
September	7,605	1,866	75%
October	5,758	1,834	68%
Total	37,278	6,845	82%

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

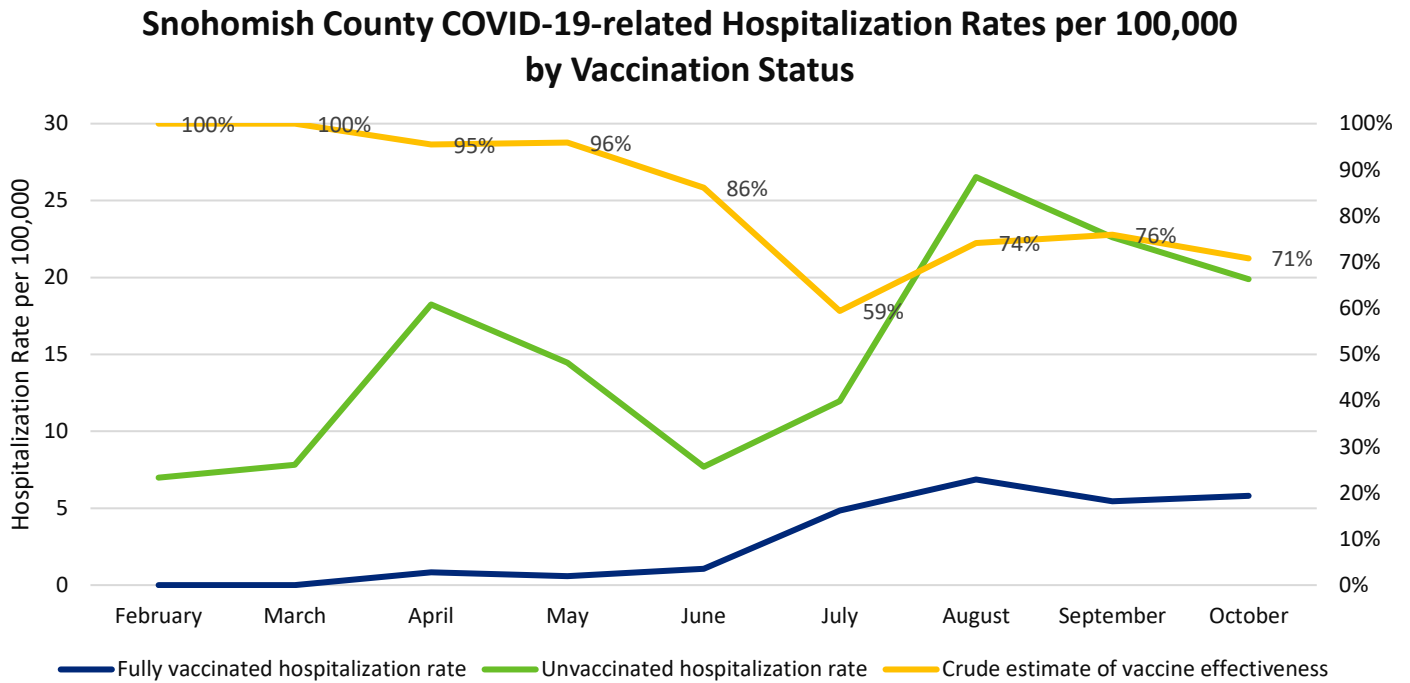


Table 23: COVID-19-related hospitalizations by vaccine status

Month	Total COVID-19 related hospitalizations	COVID-19 vaccine breakthrough hospitalizations	Percent unvaccinated
February	59	0	100%
March	66	0	100%
April	161	7	96%
May	127	5	96%
June	74	9	88%
July	142	41	71%
August	282	58	79%
September	237	46	81%
October	217	49	77%
Total	1,365	215	84%

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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	
July	14	6	57%
August	42	6	86%
September	48	<5	
October	46	6	87%
Total	246	23	91%