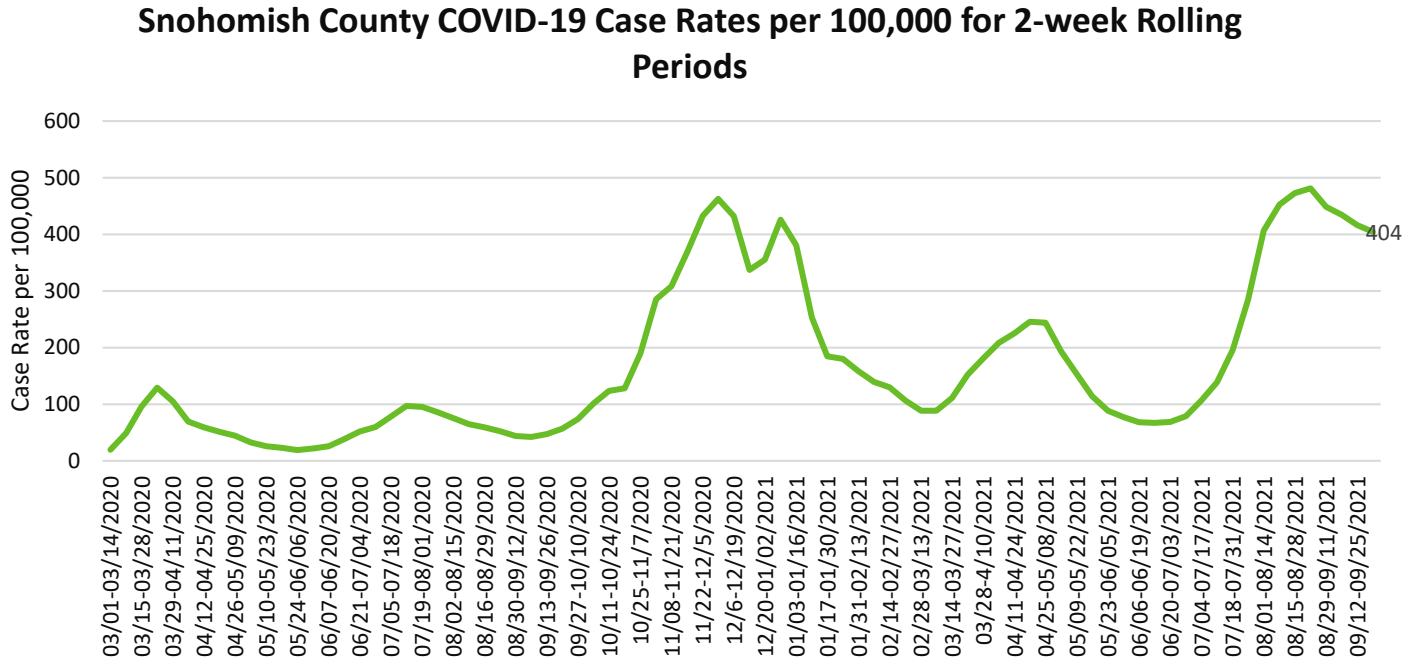


**SNOHOMISH HEALTH DISTRICT  
 COVID-19 EPIDEMIOLOGY REPORT  
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**COVID-19 EPIDEMIOLOGIC OVERVIEW**

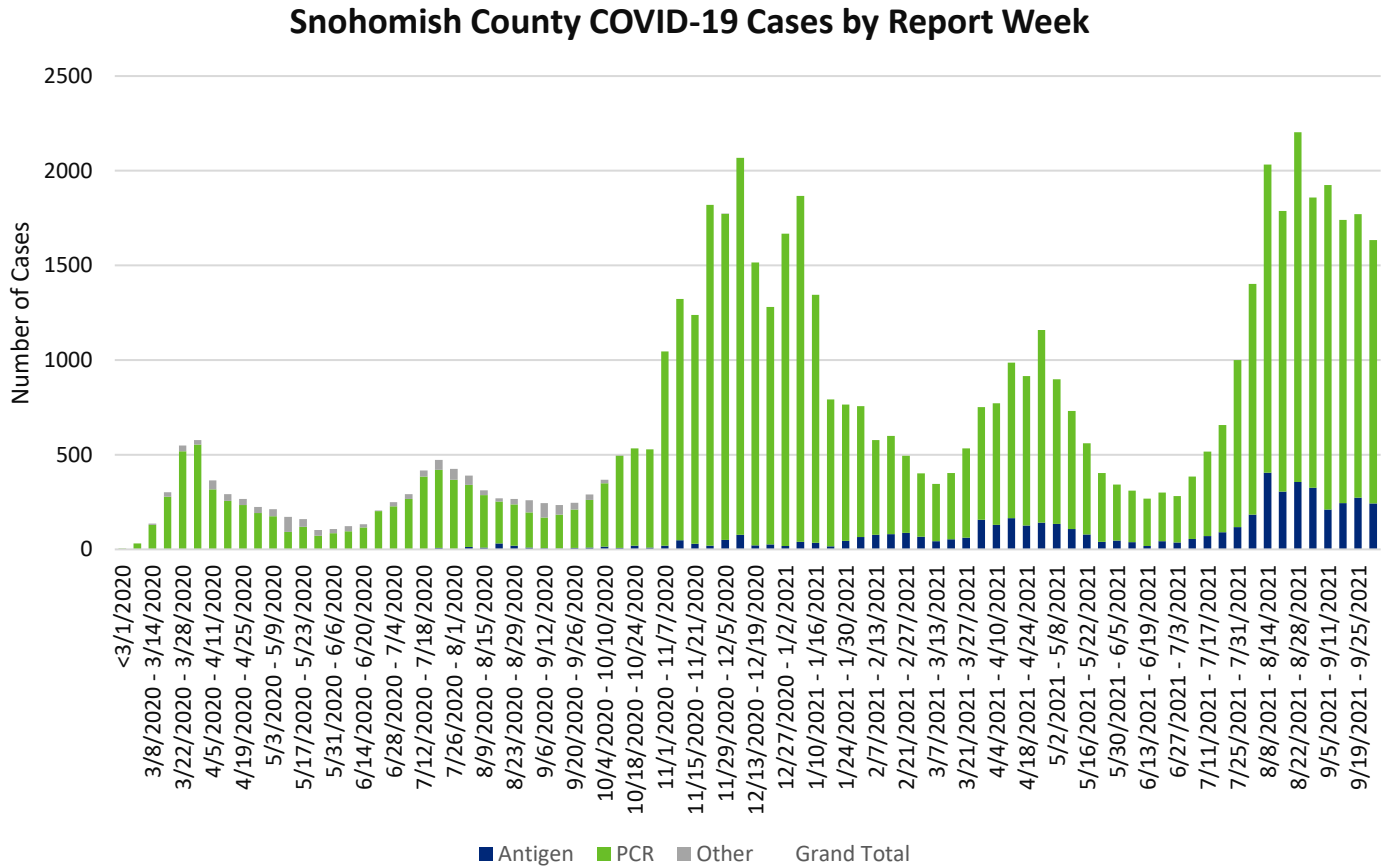
Figure 1: Snohomish County COVID-19 case rates per 100,000



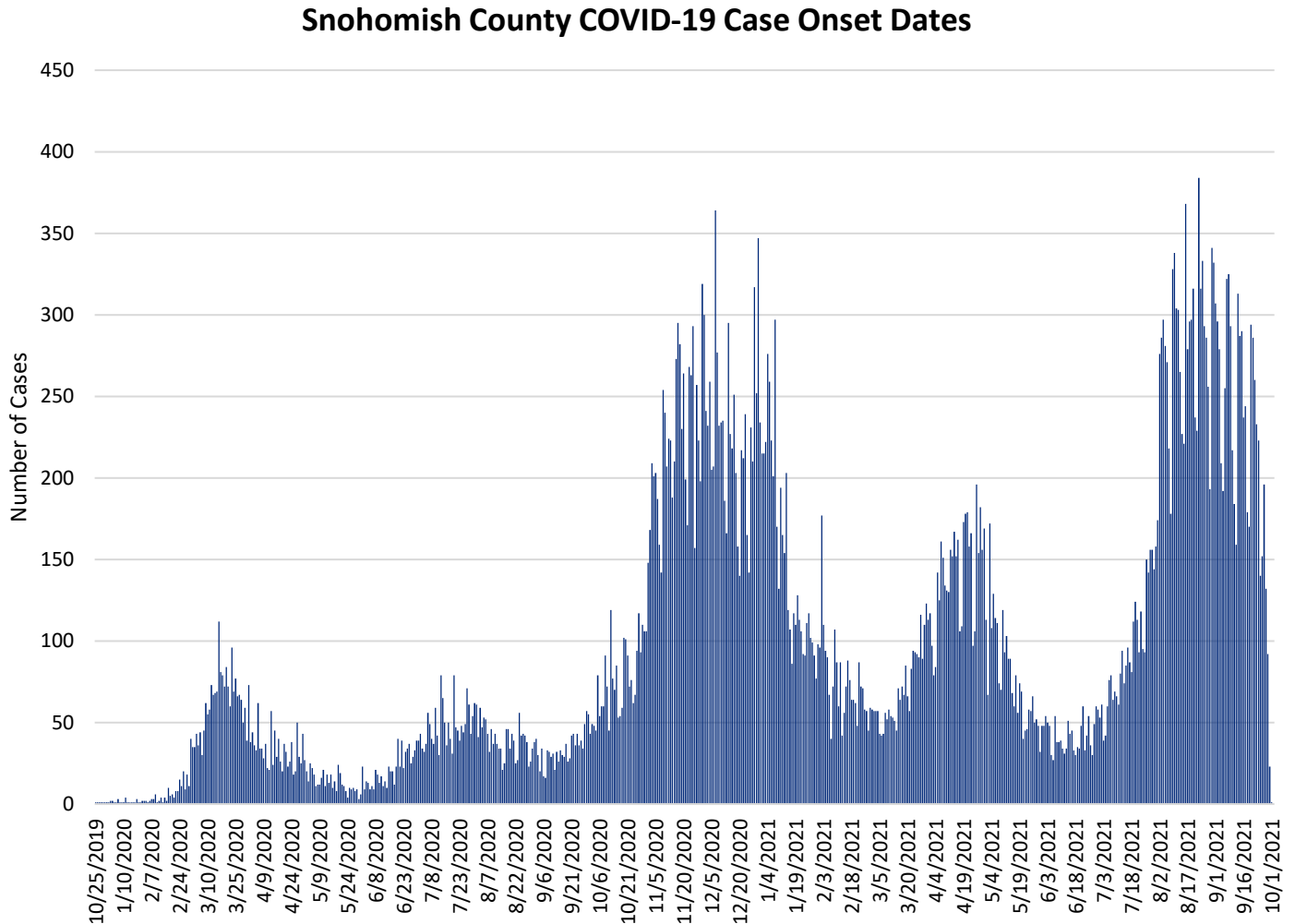
Data source: Snohomish Health District COVID-19 database.

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



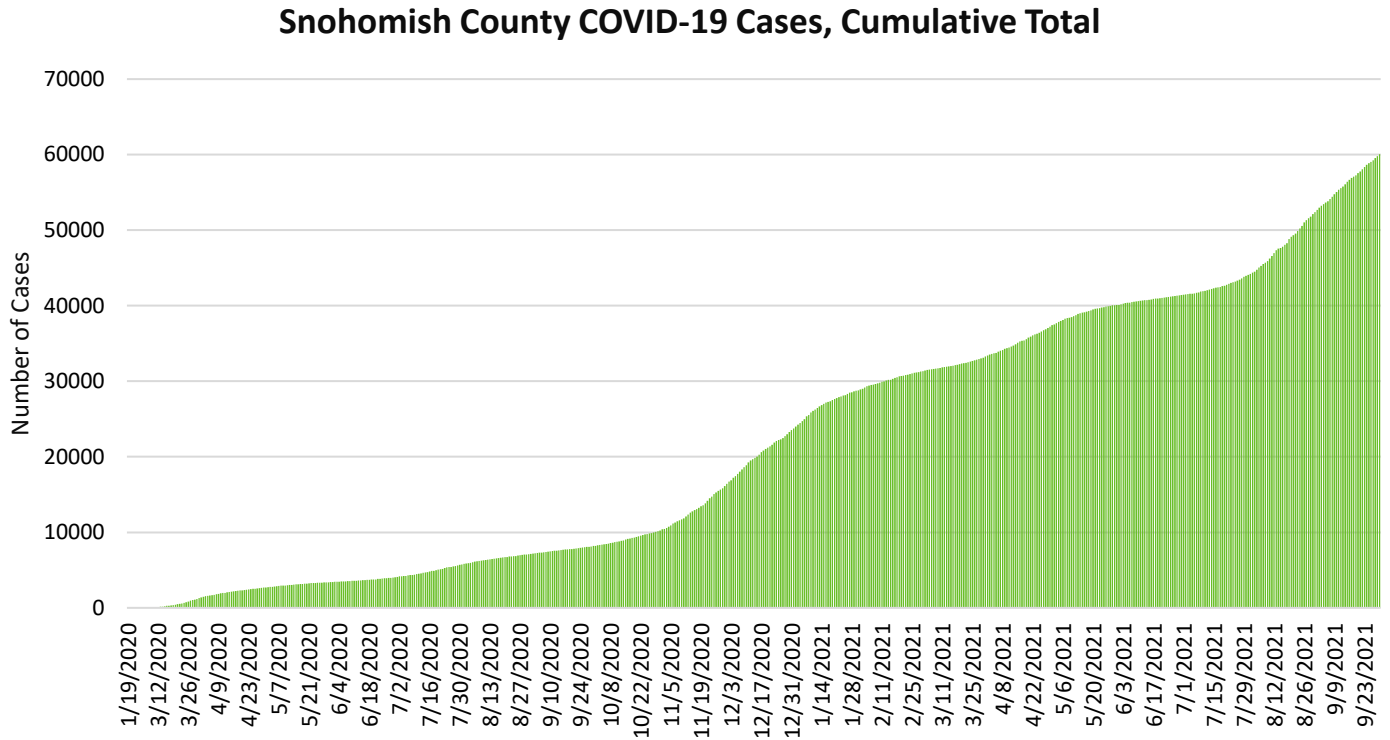
**Figure 3: COVID-19 epidemiologic curve**



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**

<b>Sex at birth</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
Female	3,763	4,017	30,102
Male	3,883	4,075	29,908
Unknown	12	18	47
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

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

Age group in years	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
0-14	1,482	1,193	7,392
15-19	482	524	4,280
20-29	1,206	1,691	11,473
30-39	1,493	1,630	11,366
40-49	1,134	1,189	9,415
50-59	881	969	7,639
60-69	566	544	4,687
70-79	271	251	2,212
80+	142	116	1,570
Unknown	1	3	23
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

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

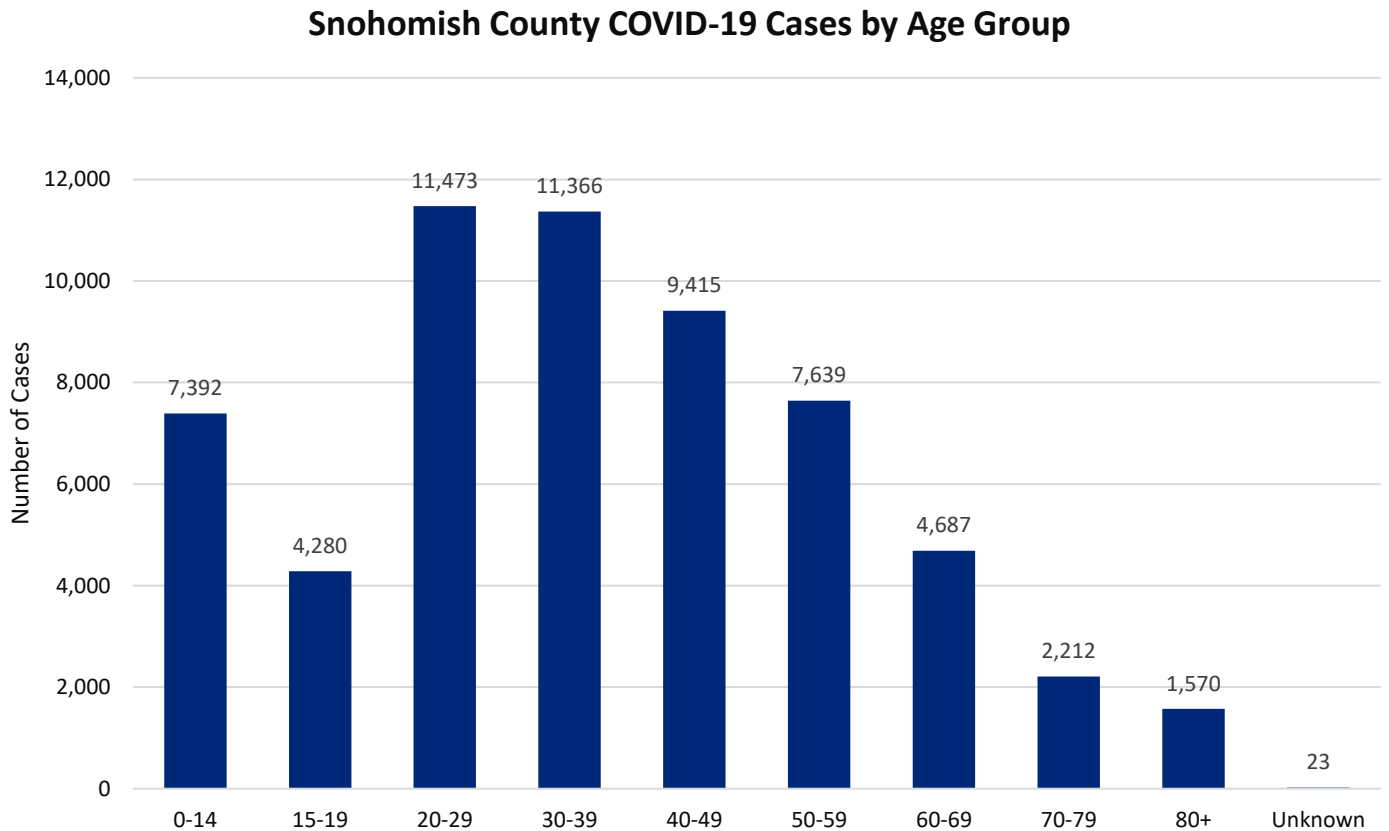
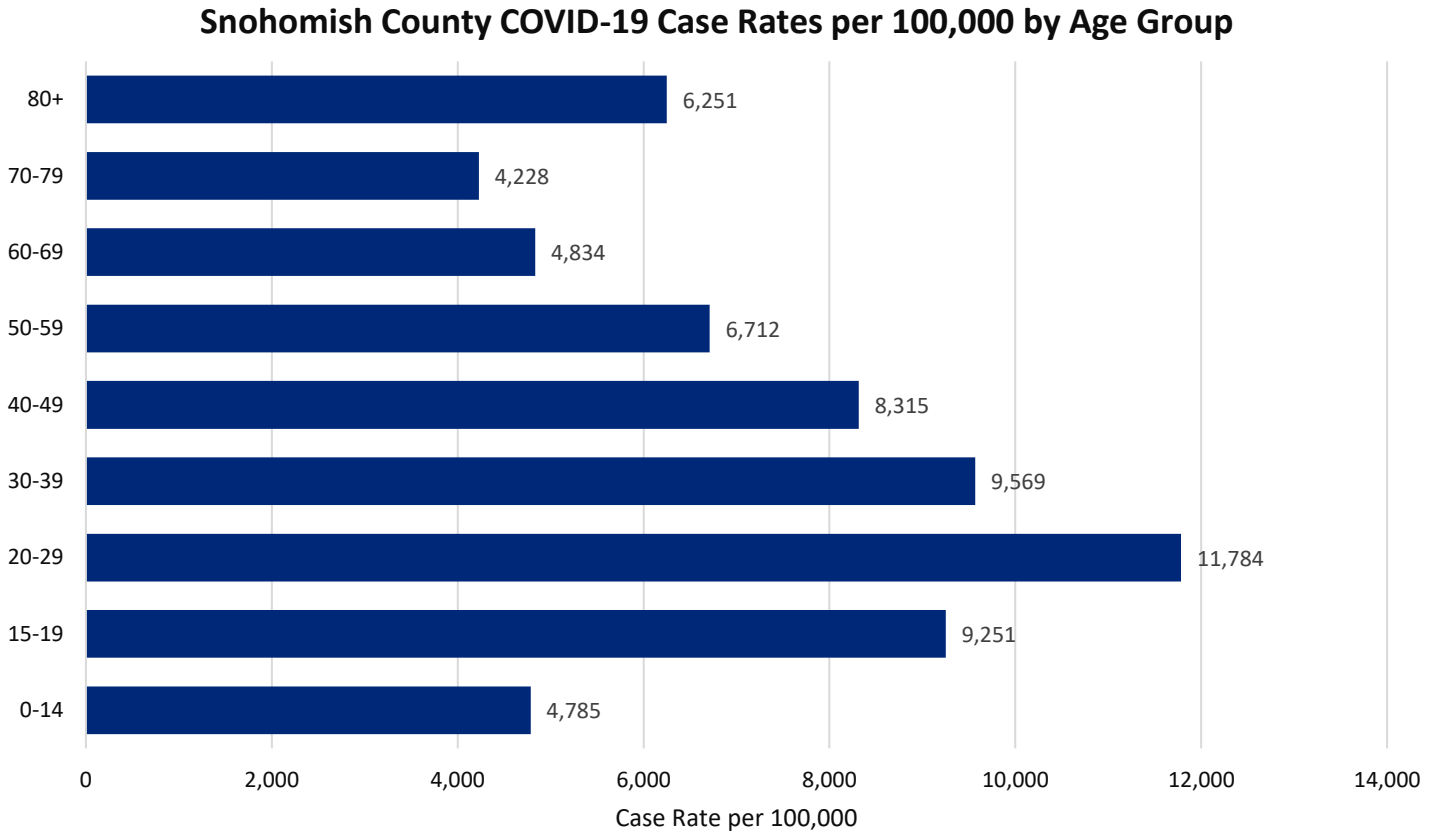
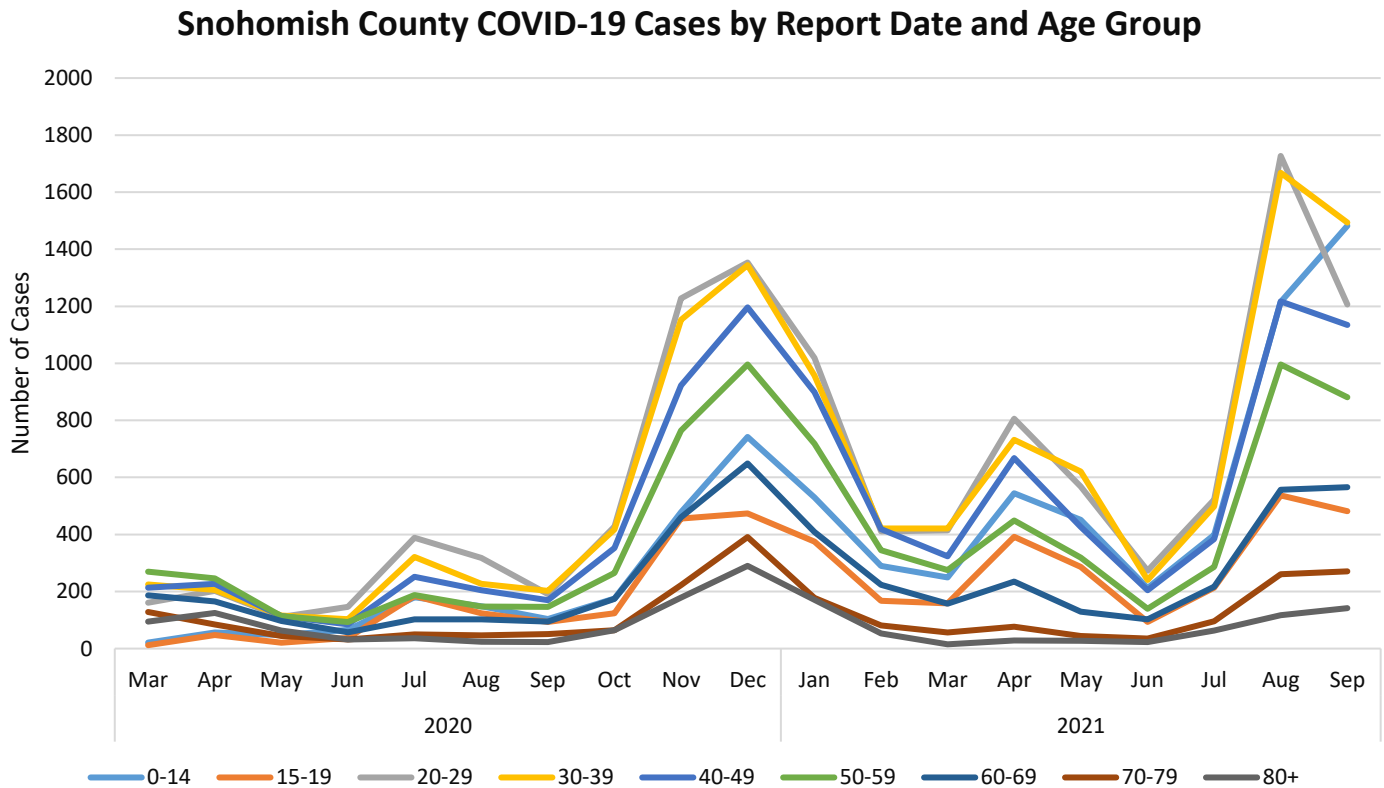


Figure 6: Snohomish County cumulative COVID-19 case rates per 100,000 by age group



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

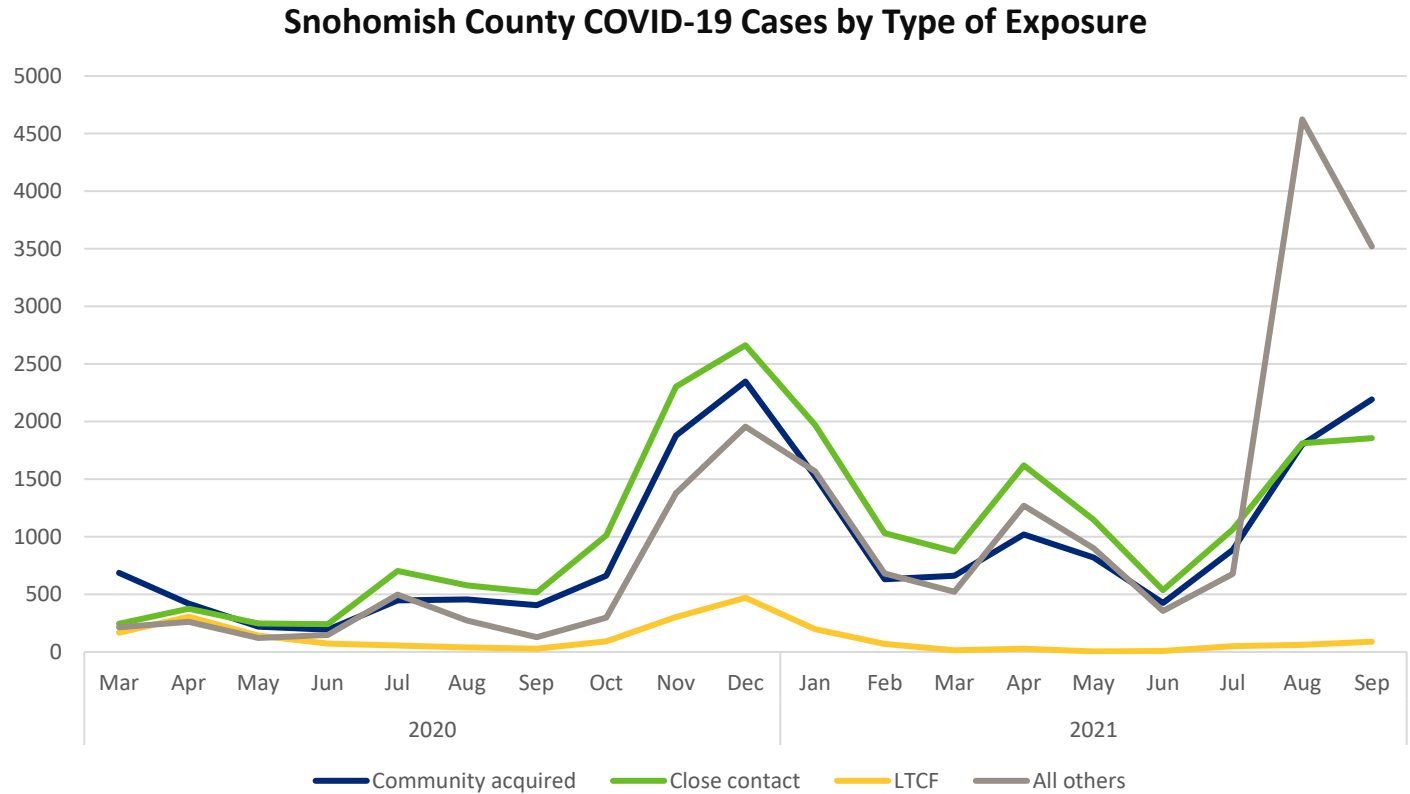


**Table 3: Type of exposure among COVID-19 cases in Snohomish County**

Type of exposure	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
Close contact	1,855	1,813	20,790
Community acquired	2,193	1,808	17,681
Long-term Care Facility Associated	90	53	2,194
Corrections	12	8	681
Healthcare Worker	0	<5	553
Travel	0	<5	155
Nosocomial	0	0	59
Unknown	3,508	4,427	17,944
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

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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	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
Home isolation	2,120	2,192	2,120
Hospitalized	64	59	80
Survived <sup>1</sup>	3,599	2,954	55,263
Deceased	17	27	724
Unknown <28 days since case report	1,858	2,878	1,870
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

<sup>1</sup>No 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	19	1,040	2%	1,059
2020	April	97	1,055	8%	1,152
2020	May	92	391	19%	483
2020	June	100	382	21%	482
2020	July	217	998	18%	1,215
2020	August	129	856	13%	985
2020	September	76	650	10%	726
2020	October	178	1,618	10%	1,796
2020	November	410	4,051	9%	4,461
2020	December	799	4,760	14%	5,559
2021	January	601	3,426	15%	4,027
2021	February	267	1,625	14%	1,892
2021	March	156	1,412	10%	1,568
2021	April	268	2,456	10%	2,724
2021	May	214	1,908	10%	2,122
2021	June	114	938	11%	1,052
2021	July	107	1,635	6%	1,742
2021	August	693	3,827	15%	4,520
2021	September	426	3,907	10%	4,333
<b>Grand Total</b>		<b>4,963</b>	<b>36,937</b>	<b>12%</b>	<b>41,900</b>

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

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

Ever hospitalized	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
No	3,891	3,421	38,825
Yes	213	239	2,679
Unknown	3,554	4,450	18,553
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

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**Table 7: COVID outbreaks by type**

Type of outbreak	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
Adult family home	3	2	71
Agriculture	2	2	7
Bar	0	0	6
Behavioral health	0	2	6
Camp	1	1	2
Childcare	12	9	73
Community	0	0	1
Construction	5	3	88
Corrections	0	0	2
Distribution	1	1	13
Emergency services	0	2	5
Faith based services	1	2	37
Financial Institution	0	0	9
Food processing	1	0	17
Government	4	2	25
Gym	0	0	3
Healthcare provider	2	1	19
Home health	0	0	4
Hospital	0	1	7
Landscaping	0	1	12
Leisure/recreation	2	2	21
LTCF	10	14	132
Manufacturing	8	7	130
Personal Care and Services	1	0	15
Real estate	0	0	14
Restaurant	16	6	104
Retail	22	16	164
School	66	0	122
Service provider	19	10	106
Shelter	0	1	6
Social Event	1	0	28
Supported Living	2	0	4
Transportation	1	0	8
Utilities	3	1	19
Youth Sports	2	2	7
<b>Total number of outbreaks (number of cases)</b>	<b>185 (934)</b>	<b>88 (473)</b>	<b>1,287 (8,085)</b>

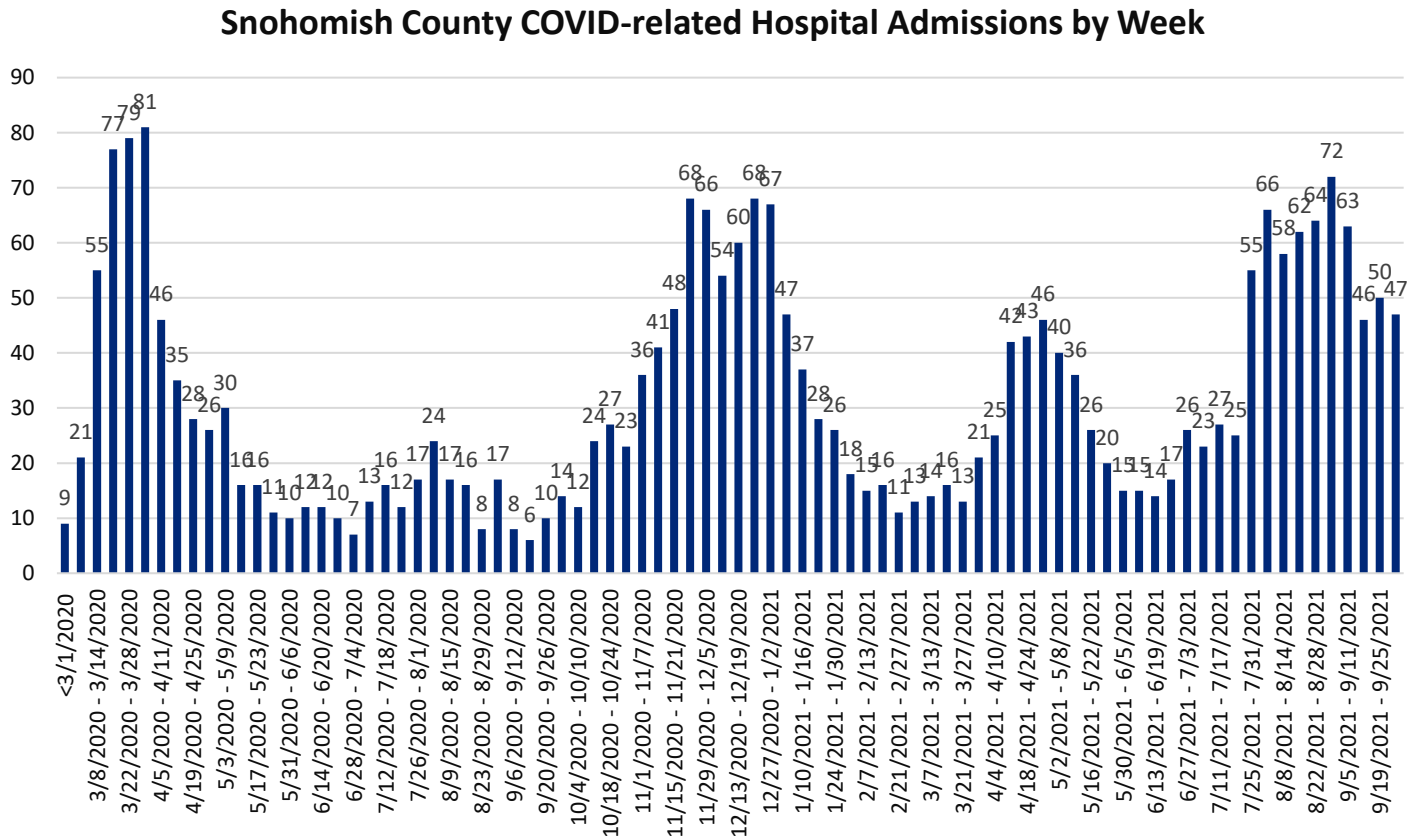
**MONTHLY COVID-19 REPORT  
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**Table 8: City of residence of COVID-19 cases in Snohomish County**

<b>City</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
Arlington	834	635	3,941
Bothell	479	547	4,138
Brier	49	52	328
Darrington	33	48	134
Edmonds	287	401	3,134
Everett	1,305	1,715	13,851
Gold Bar	78	58	343
Granite Falls	186	171	844
Index	8	<5	12
Lake Stevens	616	660	4,045
Lynnwood	777	831	7,565
Marysville	1,033	994	6,748
Mill Creek	131	136	1,105
Monroe	252	227	2,867
Mountlake Terrace	158	192	1,454
Mukilteo	108	136	1,061
North Lakewood	<5	0	12
Silvana	7	6	29
Snohomish	675	618	4,471
Stanwood	303	404	2,042
Startup	<5	<5	6
Sultan	129	68	602
Tulalip	170	163	1,042
Woodinville	23	25	180
Woodway	9	14	76
Unknown	6	6	27
<b>Grand Total</b>	<b>7,658</b>	<b>8,110</b>	<b>60,057</b>

**COVID-19 CONTROL PROCESS INDICATORS**

Figure 9: COVID-related hospital admissions by week



Data source: Snohomish Health District COVID-19 database

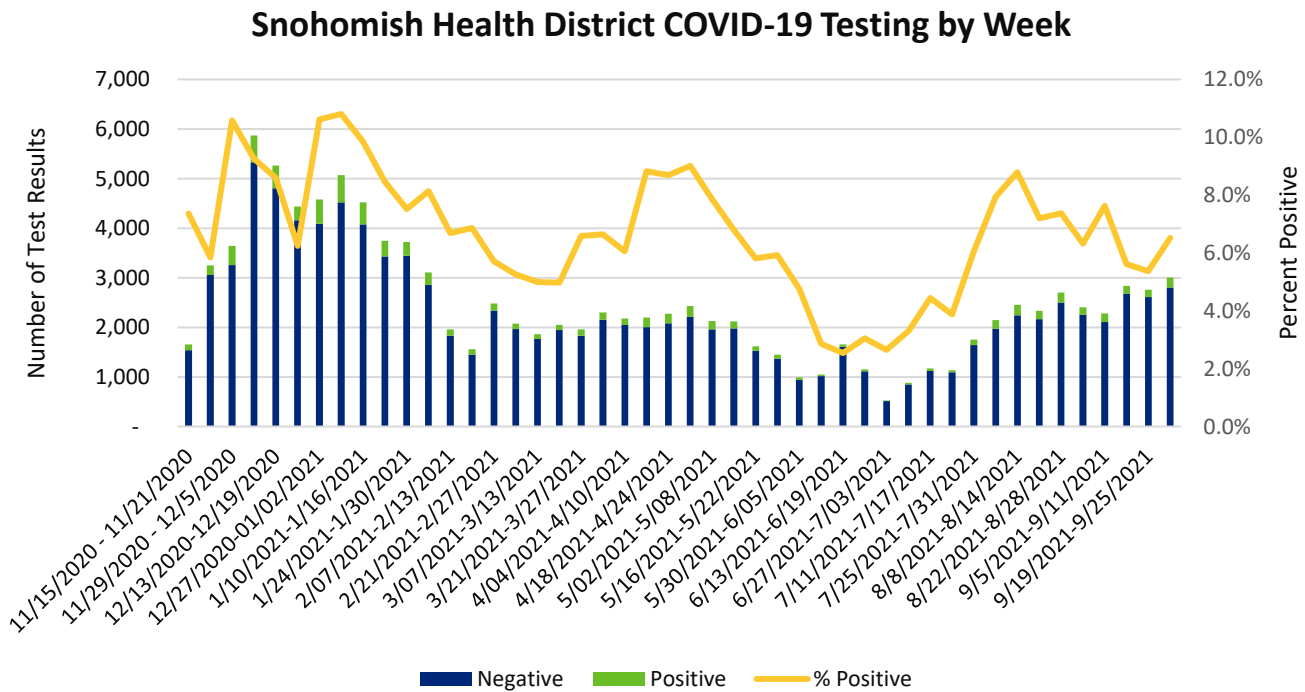
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**Table 9: Snohomish Health District testing activity by week**

Week	Tests Reported	Negative	Positive	% Positive
8/8/2021-8/14/2021	2,456	2,240	216	8.8%
8/15/2021-8/21/2021	2,336	2,168	168	7.2%
8/22/2021-8/28/2021	2,700	2,501	199	7.4%
8/29/2021-9/4/2021	2,406	2,254	152	6.3%
9/5/2021-9/11/2021	2,281	2,107	174	7.6%
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%
<b>Total</b>	<b>20,772</b>	<b>19,360</b>	<b>1,412</b>	<b>6.8%</b>

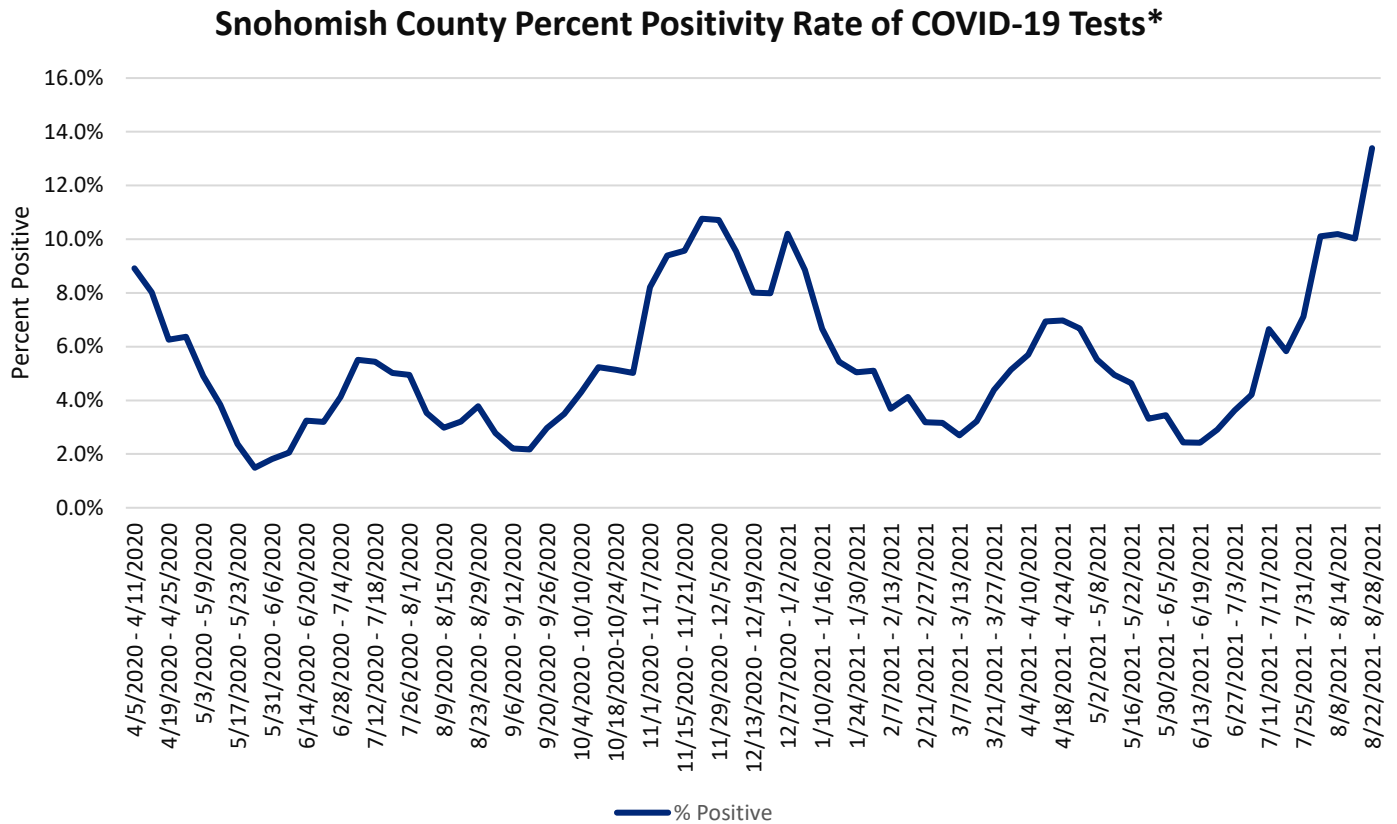
\*Data source WA DOH COVID-19 data dashboard. Data after 8/21/2021 is incomplete and not included in this table.

**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.

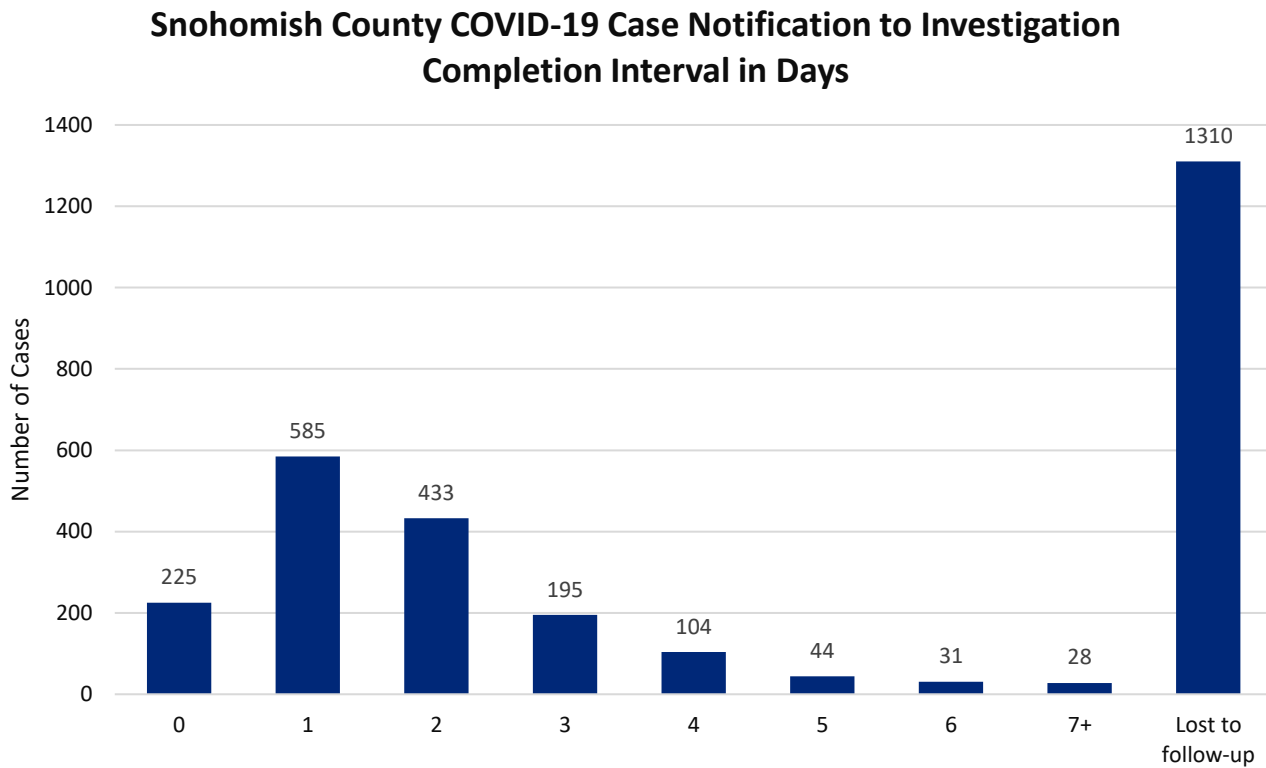
**Table 10: Percent of case investigations completed within 1 and 2 days of initial notification of case**

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
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%
9/5-9/18/2021	3,666	890	24%	1,409	38%
9/19-10/2/2021	2,955	810	27%	1,243	42%

Data source: Snohomish Health District COVID-19 database

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**Figure 12: Case notification to investigation completion interval in days (9/19-10/2/2021)**



**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
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%
8/22-9/4/2021	283	178	63%
9/5-9/18/2021	79	74	94%
9/19-10/2/2021	274	190	69%

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

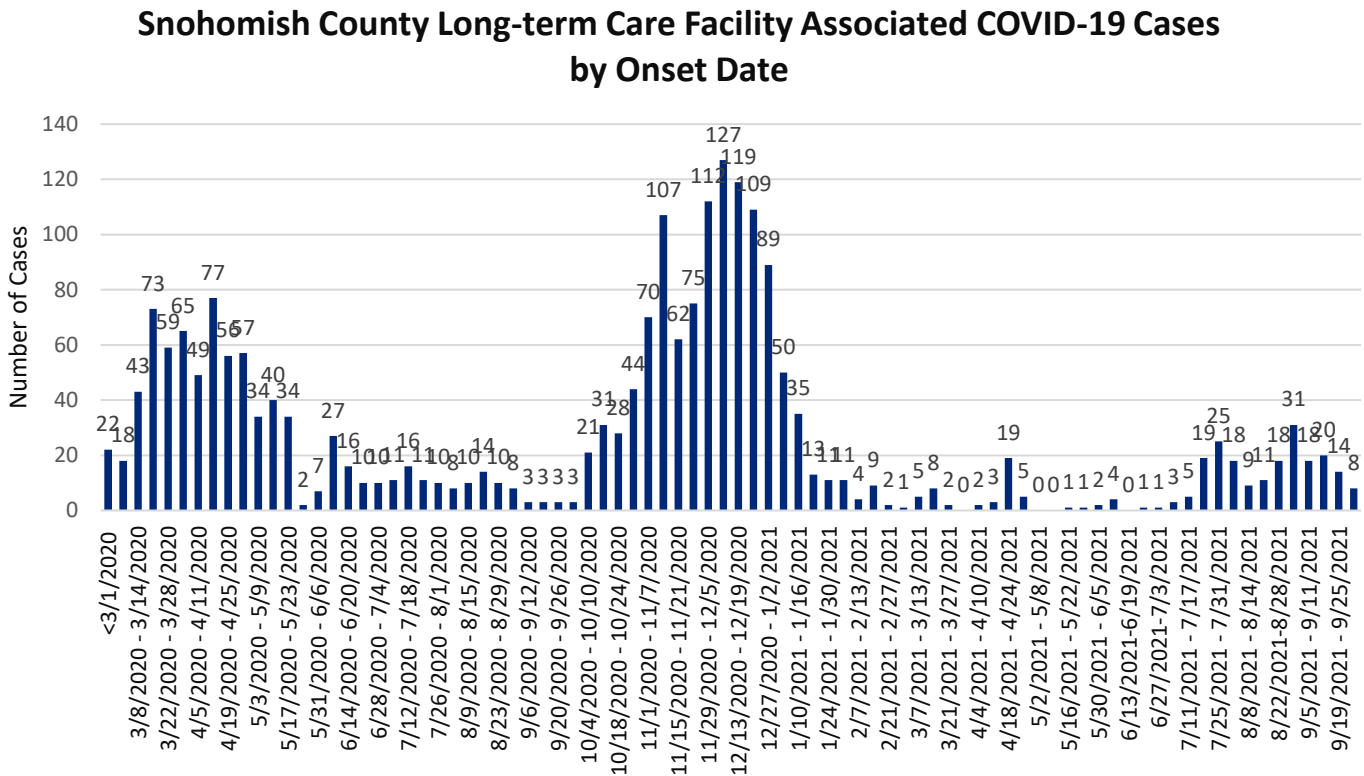


Table 12: Type of LTCF-associated COVID-19 cases (by date of report)

Type	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
Resident	49	25	1,205
Staff	41	28	976
Other	0	0	13
<b>Grand Total</b>	<b>90</b>	<b>53</b>	<b>2,194</b>



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

<b>Current status</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
Home isolation	38	34	38
Hospitalized	<5	<5	2
Survived <sup>1</sup>	45	16	1,859
Deceased	<5	<5	293
Unknown	<5	<5	2
<b>Grand Total</b>	<b>90</b>	<b>53</b>	<b>2,194</b>

<sup>1</sup>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)**

<b>Ever hospitalized</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
No	75	45	1,531
Yes	11	<5	380
Unknown	<5	<5	283
<b>Grand Total</b>	<b>90</b>	<b>53</b>	<b>2,194</b>

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

<b>Facility</b>	<b>Number</b>	<b>Date outbreak reported</b>	<b>Date outbreak resolved*</b>
Bethany at Silver Lake #4	6	9/13/2021	10/27/2021
Josephine Caring Community #3	10	8/10/2021	10/28/2021
Aegis of Lynnwood #3	14	9/21/2021	10/26/2021

\*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

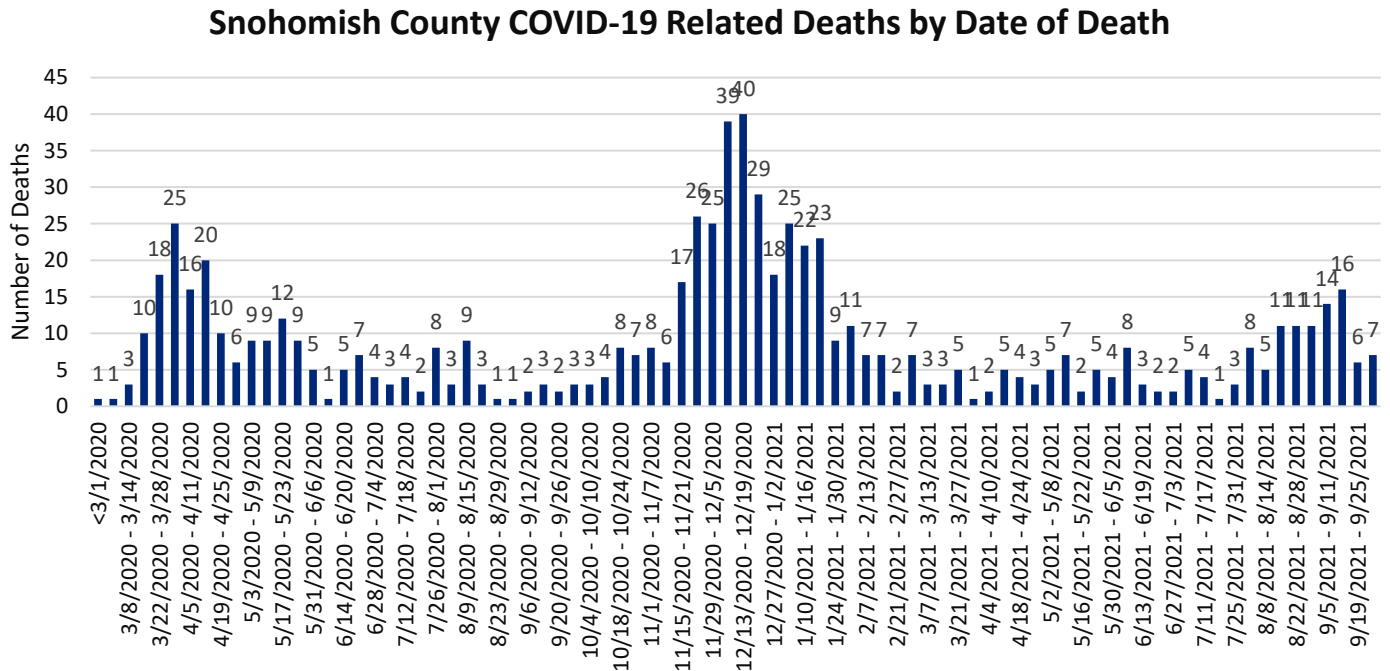


Table 16: Gender of COVID-19 related deaths in Snohomish County by case report date

Sex at birth	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
Female	7	11	339
Male	10	15	385
<b>Grand Total</b>	<b>17</b>	<b>26</b>	<b>724</b>

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

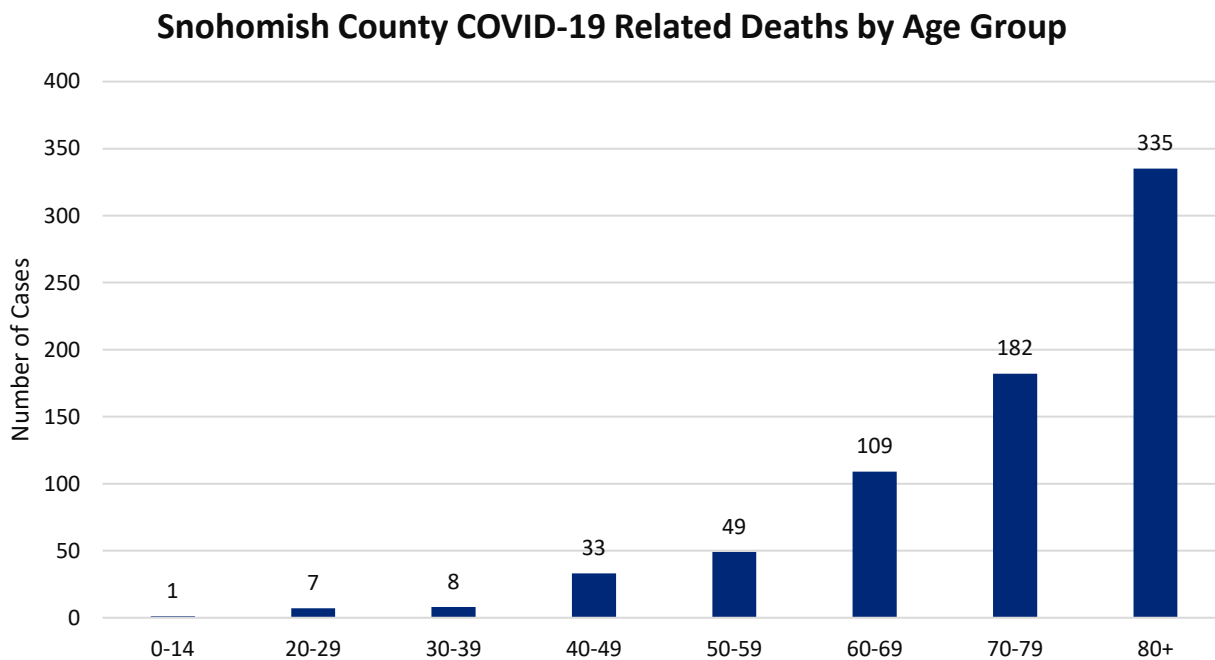
Age group in years	September 2021	August 2021	Cumulative 1/20/2020-9/30/2021
0-14	<5	<5	<5
20-29	<5	<5	7
30-39	<5	<5	8
40-49	<5	<5	33
50-59	<5	<5	49
60-69	<5	5	109
70-79	<5	9	182
80+	6	6	335
<b>Grand Total</b>	<b>17</b>	<b>26</b>	<b>724</b>

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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 (%)
0-14	<5	N/A	N/A	N/A
20-29	7	1%	7.2	0.1%
30-39	8	1%	6.7	0.1%
40-49	33	5%	29.1	0.4%
50-59	49	7%	43.1	0.6%
60-69	109	15%	112.4	2.3%
70-79	182	25%	347.8	8.2%
80+	335	46%	1,333.8	21.3%
<b>Grand Total</b>	<b>724</b>	<b>100%</b>	<b>85.7</b>	<b>1.2%</b>

**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	632	87.3%
No	42	5.8%
Unknown	50	6.9%
<b>Grand Total</b>	<b>724</b>	<b>100.0%</b>

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

<b>Ever hospitalized</b>	<b>Number</b>	<b>Percent</b>
Yes	518	71.5%
No	178	24.6%
Unknown	28	3.9%
<b>Grand Total</b>	<b>724</b>	<b>100.0%</b>

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

<b>Type of exposure</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
Long-term care facility associated	<5	<5	293
Community acquired	5	5	176
Close contact	<5	6	105
Nosocomial	<5	<5	20
Travel	<5	<5	<5
Healthcare worker	<5	<5	<5
Unknown	7	12	126
<b>Grand Total</b>	<b>17</b>	<b>26</b>	<b>724</b>

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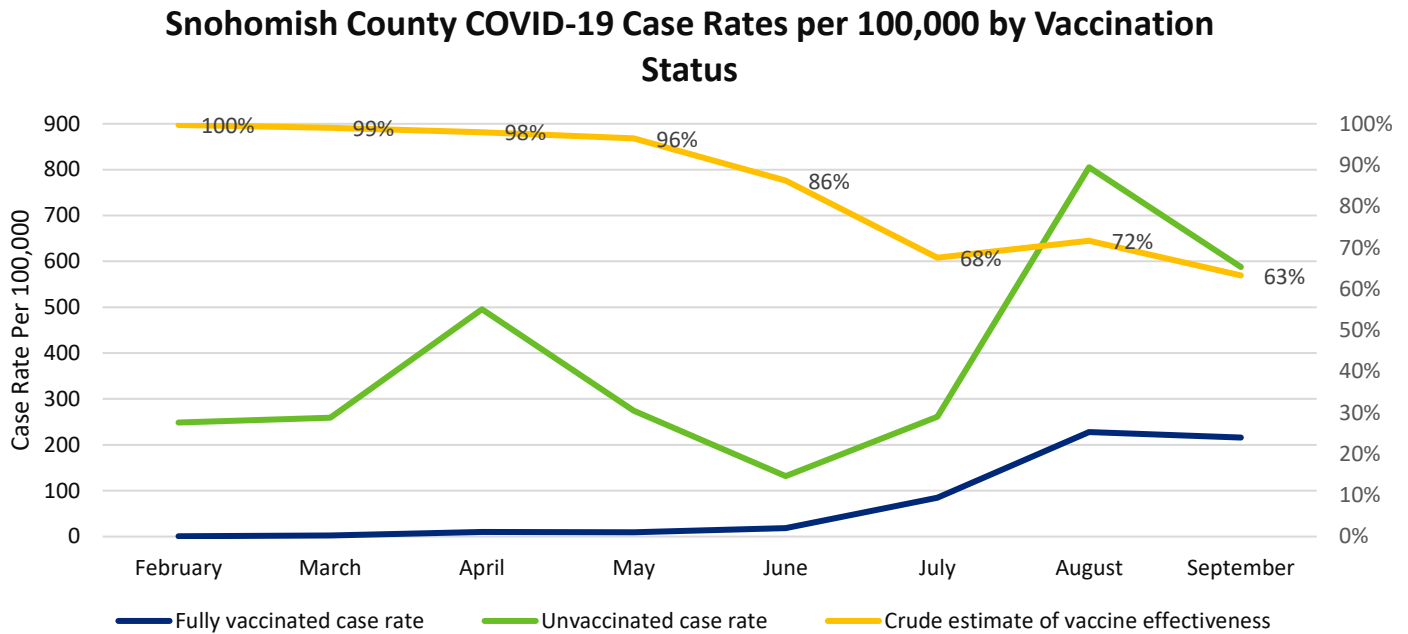
**Table 21: City of residence of COVID-19 related deaths in Snohomish County**

<b>City</b>	<b>September 2021</b>	<b>August 2021</b>	<b>Cumulative 1/20/2020-9/30/2021</b>
Arlington	5	<5	44
Bothell	<5	<5	37
Darrington	<5	<5	3
Edmonds	<5	<5	66
Everett	5	<5	184
Gold Bar	<5	<5	3
Granite Falls	<5	<5	5
Lake Stevens	<5	<5	27
Lynnwood	<5	<5	98
Marysville	<5	<5	78
Mill Creek	<5	<5	12
Monroe	<5	<5	35
Mountlake Terrace	<5	<5	12
Mukilteo	<5	<5	13
Snohomish	<5	<5	30
Stanwood	<5	<5	53
Sultan	<5	<5	7
Tulalip	<5	<5	14
Woodinville	<5	<5	3
<b>Grand Total</b>	<b>17</b>	<b>26</b>	<b>724</b>

**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 2<sup>nd</sup> mRNA vaccine or 1<sup>st</sup> Johnson & Johnson vaccine).

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

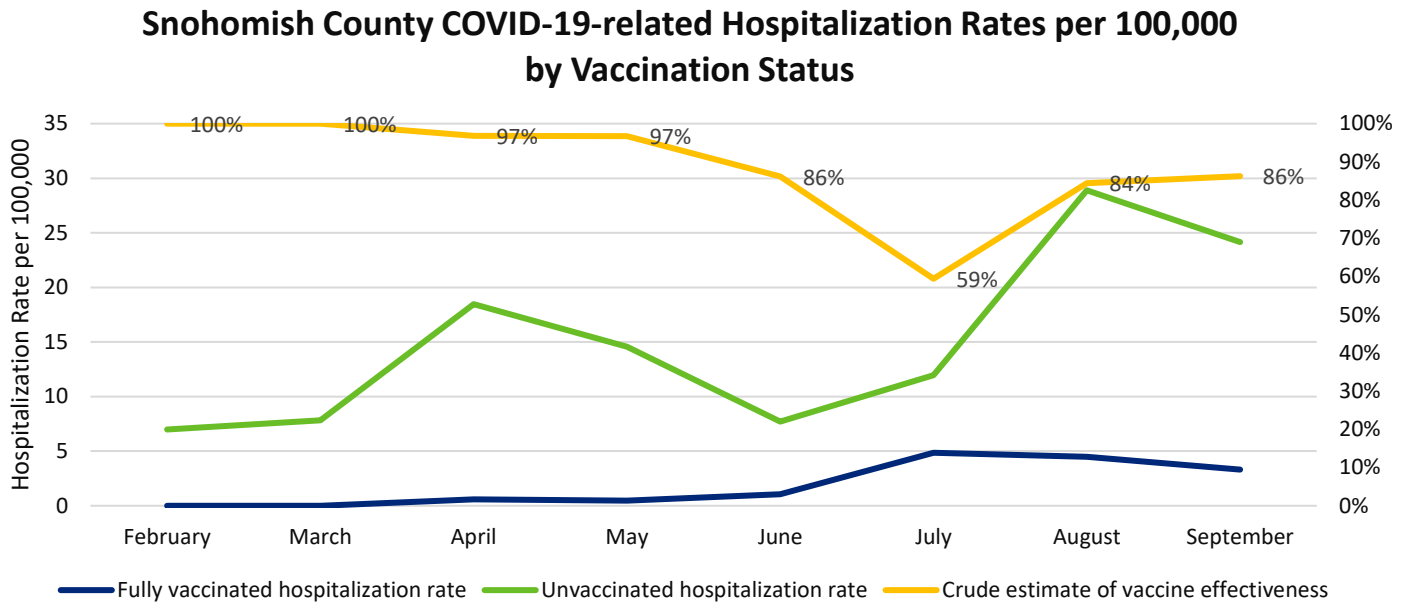


**Table 22: COVID-19 cases by vaccination status**

Month	Total number of cases	Number of COVID-19 vaccine breakthrough cases	Percent unvaccinated
February	2,108	6	100%
March	2,211	21	99%
April	4,269	86	98%
May	2,399	82	97%
June	1,266	153	88%
July	2,921	716	75%
August	8,723	1,924	78%
September	6,789	1,824	73%
<b>Total</b>	<b>30,686</b>	<b>4,812</b>	<b>84%</b>

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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	5	97%
May	127	<5	
June	74	9	88%
July	142	41	71%
August	282	38	87%
September	232	28	88%
<b>Total</b>	<b>1,143</b>	<b>125</b>	<b>89%</b>

**MONTHLY COVID-19 REPORT**  
**SNOHOMISH HEALTH DISTRICT**  
**SEPTEMBER 30, 2021 (RELEASED: OCTOBER 28, 2021)**

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

<b>Month</b>	<b>Total COVID-19 related deaths</b>	<b>COVID-19 vaccine breakthrough deaths</b>	<b>Percent unvaccinated</b>
February	30	<5	
March	23	<5	
April	15	<5	
May	21	<5	
June	19	<5	
July	15	6	60%
August	43	6	86%
September	51	<5	
<b>Total</b>	<b>217</b>	<b>15</b>	<b>93%</b>