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COVID-19 Data Update

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Healthy People, Thriving Communities



WASHINGTON COUNTY Public Health











Overview

- Viral transmission
- Historical perspective (death/contagion)
- State of outbreak in USA and Oregon
- Metrics
- Symptom profile, deaths and hospitalizations

Is SARS-CoV2 airborne?

Modes of viral transmission



It's all about size

Aerosol: any collection of particles suspended in the air

Aerosol size:

Large droplets: fall to the ground within seconds without evaporating (100+ μ m)

Small droplets: minutes to fall to the ground without evaporating (50 μ m)

Airborne particles: water evaporates quickly leaving droplet nuclei (5-10 μ m) to float in the air for hours without requiring circulation





Guess which ones are primarily transmitted via airborne?

This number may change as we learn more about this movid sease

Public Health messaging is the same

The fewer the people, the better

The more distance, the better

The less hand/mouth contact, the better

The more covered mucous membranes, the better

History and Trends



https://www.visualcapitalist.com/h istory-of-pandemics-deadliest/



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United States COVID-19 Cases in the Last 7 Days By State and Jurisdiction



LATEST DATA

AS OF OCTOBER 6, 2020



Case count over time Washington County as of 10/8/2020

COVID-19 Metrics

Regional Public Health Phase 2 Readiness Indicators

Public Health Indicators	% ED visits for COVID- like illness	Trend in percent of tests that are positive in the last 7 days	Percent increase in new cases in last 7 days	Percent of cases not traced to a known source in last 7 days	Trend in COVID-19 hospitalizations over the last 14 days	Percent of cases in last 7 days with follow up within 24 hours
	Should be below 1.5%	Should not trend up	Should be no more than 5%	Should be below 30%	Should downtrend	Should be 95% or more
Washington County	0.8%	5.2% (no trend)	14%	32%	Downtrend	99%
Clackamas County	0.8%	5.4% (uptrend)	-16%	36%	Downtrend	98%
Multnomah County	0.8%	6.1% (uptrend)	-10%	43%	Downtrend	93%
Tri-County	0.8%	5.6% (uptrend)	-4%	38%	Downtrend	96%

How does COVID-19 look in our community?

COVID-19 Symptom Profile

Vary based on age

Youngest age group (infant <1yr)

- Rhinorrhea
- Cough

Age1-9

- Fever
- Felt feverish

Age 10-20

- Headache
- Cough

Age 30-40

- Cough
- Headache

Age 50-60

- Cough
- Myalgia

Age 70-80+

- Cough
- Fever

Overall 12% of our cases are asymptomatic

Highest in May (20%) Lowest in March (1%)

For all preexisting conditions:

Most frequently reported symptom was **cough** for all except current smoking and cannabis use (**headache**)

COVID-19 Cases by Age

For each case in ages 0 to 4 there is: 1 case in ages 5 to 18 4 cases in ages 19 to 24 3 cases in ages 25 to 49 2 cases in ages 50 to 1 cases in ages 65+

Race Specific Incidence Rates

Race	Cases	Percent of Cases	Percent of Population
White alone	1260	30.1%	76.1%
Black or African American alone	134	3.2%	2.0%
American Indian and Alaska Native alone	15	0.4%	0.6%
Asian alone	217	5.2%	10.2%
Native Hawaiian and Other Pacific Islander alone	75	1.8%	0.4%
Some other race alone	2106	50.3%	5.3%
Two or more races	67	1.6%	5.3%
Unknown	312	7.5%	NA
TOTAL	4195	100%	100%

Washington County residents who identify as Black/African American alone, Native Hawaiian/Pacific Islander alone are over represented compared to their proportion of the population in the county. The race category other alone was largely composed people who identified as Hispanic.

COVID-19 Cases by Race

For each case in people who identify as (PWIA) white there are: **24 cases** in PWHIA other race alone (usually Hispanic/Latinx) **11 cases** in PWIA Native Hawaiians and Other Pacific Islanders **4 cases** in PWIA Black or African Americans 1 case in PWIA American Indians or Alaska Natives 1 case in PWIA Asians 1 case in PWIA two or more races

Ethnicity Specific Incidence Rates

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	Ethnicity	Cases	Percent of Cases	Percent of Population	
	Hispanic	2198	52%	17%	
369	Non-Hispanic	1791	43%	83%	
	Unknown	206	5%	NA	
Incidence Rate (per 100,000)	Total	4195	100%	100%	
Hispanic Non-Hispanic					

Hispanic Washington County residents are disproportionately impacted by the pandemic. They compose ~17% of the county population but make up more than 50% of COVID cases and have an incidence rate that is ~3x that of the general public.

COVID-19 Deaths

COVID-19 Deaths by Month



COVID Deaths by Age

For one death in ages 25-49 there are:

4 deaths in the 50-64 age group

36 deaths in the 65+ age group

COVID Deaths by Race

For each death in people who identify as (PWIA) white there are: **7** deaths in PWIA other race alone (usually Hispanic/Latinx) 4 deaths in PWIA American Indians or Alaska Natives **1 death in PWIA Asians**

<1 death in PWIA two or more races

COVID Deaths by Ethnicity

DEATH RATE (PER 100,000)



Ethnicity	COVID Deaths	Percent of cases	Percent of Deaths	Percent of Population
Hispanic	15	52%	26%	17%
Non-Hispanic	39	43%	67%	83%
Unknown	4	5%	7%	NA
Total	58	100%	100%	100%

Hispanic Washington County residents are disproportionately impacted by the pandemic. They compose 17% of the county population but make up more than 25% of COVID deaths and have a mortality rate that is ~2x that of the general public.

Hospitalizations

Washington County as of 10/8/2020



Hospitalizations over time

Hospitalizations by Age

Age Group	Percent of Cases	Percent of Hospitalizations
0 to 4	3%	1%
5 to 18	12%	1%
19 to 24	13%	5%
25 to 49	46%	29%
50 to 64	17%	25%
65 plus	9%	38%
Unknown	<1%	0%
Overall	100%	8%

Despite making up about a fourth of total cases, those over the age of 50 compose more than half of the hospitalizations. Risk of hospitalization increases with increasing age, and is consistent with national COVID data.

Hospitalizations by Race

Race	Percent of Cases	Percent of Hospitalizations
White alone	30%	44%
Black or African American alone	3%	2%
American Indian and Alaska Native alone	0.4%	0.9%
Asian alone	5%	4%
Native Hawaiian and Other Pacific Islander alone	2%	3%
Some other race alone	50%	43%
Two or more races	2%	1%
Unknown	7.6%	2.1%
Total	100%	100%

Hospitalizations closely follow case composition, with small increases in hospitalization for cases who identify as AI/AN, Whites, and Pacific Islander in Washington County.

Hospitalizations by Ethnicity

Ethnicity	Percent of hospitalizations	Percent of cases	Percent of Deaths	Percent of Population
Hispanic	46%	52%	26%	17%
Non-Hispanic	52%	43%	67%	83%
Unknown	2%	5%	7%	NA
Total	100%	100%	100%	100%

Despite comprising a greater proportion of cases in Washington County, cases who identify as Hispanic are less likely than non-Hispanics to be hospitalized.

