COVID-19 Public Health Update

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BoCC meeting | December 30, 2020
Deschutes County Cases (Cumulative)

3,881 Cases
22 deaths

Data are shown based on the date a case first became identified as a case.

Data as of 12/29/20
Deschutes County Cases by Week

Data are shown based on the date a case first became identified as a case.

Data as of 12/28/20
Deschutes County Cases by Age Group

Data as of 12/29/20
Deschutes County COVID Electronic Laboratory Reports (ELRs) by Week

Beginning 12/3/20, Oregon Health Authority transitioned to reporting total COVID Electronic Laboratory Reports (ELRs) rather than reporting total persons tested for COVID. Electronic Laboratory Reports better reflect the total volume of COVID tests for a county and may include duplicate positive and/or duplicate negative test results for individuals.

Data as of 12/29/20
School Metrics: Two-week Case Rates per 100,000 population

Data are provisional and subject to change.

Data as of 12/28/20
School Metrics: Two-week Percent Positivity

Data are provisional and subject to change.

Data as of 12/28/20
Risk-based Framework for Counties

Oregon’s COVID-19 Risk Levels

Statewide Metrics
12/13/2020 - 12/26/2020
376.7 cases per 100k residents
6.5% test positivity

COVID-19 Risk Levels
- Lower
- Moderate
- Extreme

Hover over one of the bars below to highlight the counties in that risk level

Oregon Counties by COVID-19 Risk Level

Notes:
COVID-19 data are provisional and subject to change.

Data as of 12/28/2020
Daily Count of COVID-19 Patients Currently Hospitalized (St. Charles Health System Data)

Data as of 12/29/20
How mRNA vaccines work

1. Scientists take part of the virus genetic code that tells cells what to build and coat it in a lipid so it can enter the body’s cells.

2. This is injected into the patient.

3. The vaccine enters the cells and tells them to produce the coronavirus spike protein.

4. If the patient encounters coronavirus, the antibodies and T-cells are triggered to fight the virus.

This prompts the immune system to produce antibodies and activate T-cells to destroy infected cells.

Source: Nature
Accelerated Vaccine Development

<table>
<thead>
<tr>
<th>Years</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>10</th>
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<tbody>
<tr>
<td>Traditional paradigm (&gt;5 years)</td>
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<td>Discovery/screening</td>
<td>Phase I</td>
<td>Phase II</td>
<td>Phase III</td>
<td>Commercial launch</td>
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<td>Small-scale clinical trial material</td>
<td>Commercial scale-up</td>
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<tr>
<td>Scale-up at financial risk</td>
<td>Commercial scale-up</td>
<td>Scale to meet global demand (billions of doses)</td>
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<td>Potential accelerated pathway for COVID-19 vaccine</td>
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<tr>
<td>Limited preclinical testing</td>
<td>Data on surrogate of protection</td>
<td>Emergency use authorization for a small-volume release (millions of doses)</td>
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<td>Start Phase II with interim Phase I data</td>
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Source: NEJM
What steps are taken to ensure that vaccines are safe?

The U.S. Food and Drug Administration oversees a careful process to ensure that vaccines are tested thoroughly before being offered to the public, including the below three-phase review process for all new vaccines.

PHASE I
A small group of healthy volunteers receive the vaccine to test for safety and potential side effects.

PHASE II
Several hundred people representative of the U.S. population receive the vaccine to test how diverse immune systems respond.

PHASE III
Thousands of people receive the vaccine to test widespread effectiveness, side effects, and safety.

The FDA licenses a vaccine only if it's safe and effective and the benefits outweigh the risks. For any COVID-19 vaccine, the FDA will also review two months of follow-up data after volunteers get their second vaccine doses.

Source: Public Health Collaborative
What to expect post-vaccination

COVID-19 vaccination will help protect you from getting COVID-19. You may have some side effects, which are normal signs that your body is building protection. These side effects may feel like flu and may even affect your ability to do daily activities, but they should go away in a few days.

Common side effects

On the arm where you got the shot:
- Pain
- Swelling

Throughout the rest of your body:
- Fever
- Tiredness
- Chills
- Headache

Helpful tips

If you have pain or discomfort, talk to your doctor about taking an over-the-counter medicine, such as ibuprofen or acetaminophen.

To reduce pain and discomfort where you got the shot:
- Apply a clean, cool, wet washcloth over the area.
- Use or exercise your arm.

To reduce discomfort from fever:
- Drink plenty of fluids.
- Dress lightly.

When to call the doctor

In most cases, discomfort from fever or pain is normal. Contact your doctor or healthcare provider:
- If the redness or tenderness where you got the shot increases after 24 hours.
- If your side effects are worse or do not seem to be going away after a few days.

Remember

- Side effects may feel like flu and even affect your ability to do daily activities, but they should go away in a few days.
- With most COVID-19 vaccines, you will need 2 shots in order for them to work. Get the second shot even if you have side effects after the first one, unless a vaccination provider or your doctor tells you not to get a second shot.
- It takes time for your body to build protection after any vaccination. COVID-19 vaccines that require 2 shots may not protect you until a week or two after your second shot.
- It’s important for everyone to continue using all the tools available to help stop this pandemic as we learn more about how COVID-19 vaccines work in real-world conditions. Cover your mouth and nose with a mask when around others, stay at least 6 feet away from others, avoid crowds, and wash your hands often.

Source: CDC
## Deschutes County COVID-19 Vaccination Data as of 12/29/20

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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<tbody>
<tr>
<td># people with vaccination series in progress</td>
<td>1,398</td>
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<tr>
<td># people fully vaccinated</td>
<td>0</td>
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<tr>
<td># people with vaccination series in progress or fully vaccinated per 10,000 population</td>
<td>72.43</td>
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</tbody>
</table>

*Includes of people with vaccination series in progress or fully vaccinated*
Thank you