Women in Medicine and Science:
Tackling COVID-19 Vaccine Myths
What’s true, what’s myth, who should I believe?

Saint Louis University School of Medicine is partnering with experts to answer your questions about the COVID-19 vaccine. During this one-hour online seminar we will hear from experts in research, infectious disease, and family and community medicine on the facts about COVID-19 vaccines. The choice to be vaccinated for COVID-19 is a personal one. It’s vital to ask questions and be informed with the latest information that will allow you to make a good decision for yourself.

- Esmeralda Aharon, M.A., program director, staff and community engagement for the Office of Diversity, Equity and Inclusion, Saint Louis University School of Medicine.
- Sharon Frey, M.D., clinical director of SLU’s Center for Vaccine Development and principal investigator of the Moderna trial at SLU
- Denise Hooks-Anderson, M.D., assistant dean for Diversity, Equity and Inclusion and associate professor, Family and Community Medicine at Saint Louis University
- Niva Lubin-Johnson, M.D., FACP, an internal medicine physician based in Chicago, served as the 119th President of the National Medical Association (NMA) and serves as chair of the Women Physicians Section Governing Council for the American Medical Association (AMA)
MYTH 1: You can delay routine vaccinations until the pandemic is over.

You shouldn’t postpone your vaccinations.
MYTH 2: The COVID-19 vaccines were developed too fast to be safe. There were not enough participants in the clinical trials to declare the vaccines safe.

The technology used to develop the new COVID-19 vaccines is not new.
MYTH 3: I already had COVID-19, so I do not need the vaccine.

It’s not clear how long a natural infection with COVID-19 provides immunity from the disease. There are reports of individuals becoming reinfected with the virus.
MYTH 4: COVID-19 vaccines were developed to deliver a microchip into my body. The vaccine will alter my DNA.

The vaccine does not contain a microchip. Messenger RNA (mRNA) vaccines work in the cell’s cytoplasm and never enter the cell nucleus, where the DNA, your genetic material, lives.
MYTH 5: I will not need to wear a mask after I am vaccinated.

The COVID-19 vaccines protect you from getting seriously ill from COVID-19. But it’s not known if the vaccine will keep you from being infected then transmitting the virus to others.
What are the ingredients in the COVID-19 vaccine? Do the COVID-19 vaccines contain aborted fetal tissue?

The active ingredient in both Pfizer and Moderna vaccines is mRNA. The mRNA tells your cells how to make a protein from the coronavirus. Once your body knows how to make the protein, it can recognize COVID-19 and fight it off. The vaccines also contain lipids (fats), various salts, sucrose, and other stabilizing ingredients to help your body use the mRNA. No, the COVID-19 vaccines do not contain any aborted fetal cells. However, Pfizer and Moderna did perform confirmation tests (to ensure the vaccines work) using fetal cell lines. Fetal cell lines are not the same as fetal tissue. Fetal cell lines are cells that grow in a laboratory. They descend from cells taken from elective abortions in the 1970s and 1980s. No fetal cell lines were used to manufacture the vaccine, and they are not inside the injection you receive.

Submit question in the Q & A feature
What are the side effects of the COVID-19 vaccine? Is there a risk of severe allergic reaction if I receive the vaccine?

You may have pain and swelling at the injection site and experience fever, chills, tiredness, and headache. Side effects may feel like flu and even affect your ability to do daily activities, but they should go away in a few days. Serious problems from vaccination can happen, but they are rare. There have been approximately 21 cases of anaphylaxis out of nearly 2 million doses of the Pfizer vaccine, compared to 1-5 cases per 10,000 people given Penicillin.
Does the COVID-19 vaccine cause infertility? I am pregnant or plan to become pregnant, can I still get the vaccine? Are there additional risks for me?

It is especially important that certain eligible patient populations, including pregnant women, consult with their trusted physicians when considering whether to take the vaccine. ACOG recommends that COVID-19 vaccines should not be withheld from pregnant individuals who meet criteria for vaccination based on ACIP-recommended priority groups.

Submit question in the Q & A feature
Where can I find the best source of information regarding pregnancy and COVID-19 vaccine?

ACOG.ORG and discuss with your provider.
What is the difference between Pfizer, Moderna, and Johnson & Johnson COVID-19 vaccines?

Pfizer and Moderna uses mRNA technology. Johnson & Johnson utilizes a viral vector technology.
Can you get Covid-19 once you get the vaccine? Can you transmit Covid-19 to someone else after getting the vaccine?

It typically takes a few weeks for the body to build immunity (protection against the virus that causes COVID-19) after vaccination. That means it’s possible a person could be infected with the virus that causes COVID-19 just before or just after vaccination and still get sick. We don’t yet know whether getting a COVID-19 vaccine will prevent you from spreading the virus that causes COVID-19 to other people, even if you don’t get sick yourself. CDC will continue to update as we learn more.

Submit question in the Q & A feature
How can people trust the vaccine in underprivileged communities with the history of being mistreated and tested on in the past?

The choice to be vaccinated for COVID-19 is a personal one. It’s vital to have a relationship with your primary care physician and to ask questions and raise concerns until you have answers that allow you to make a good decision for yourself.
Why is diversity so important in clinical trials?

When people have different genetic and biologic makeup, their bodies can produce antibodies differently. This means to ensure a vaccine will protect people of all ethnic groups, we need to make sure everyone is fully represented in clinical trials.
How has COVID-19 impacted women?

Unemployment data in the U.S. indicate that women make up 54 percent of the overall job losses to date. Mothers continue to shoulder the majority of family caregiving responsibilities and are faced with lack of childcare infrastructure and online schooling.

Source: McKinsey & Company
What barriers have you encountered as a woman in medicine and research?

Sexism, racism, and microaggression.

Submit question in the Q & A feature
What advice would you give a young female doctor just starting out in her career?

Role of advocacy and negotiation.
What communication skills do you use to increase rapport with patients and inform them about the COVID-19 vaccine?

Building trust and longitudinal relationships.

Submit question in the Q & A feature
Which lasts longer, immunity after getting COVID-19 or protection from COVID-19 vaccines?

We don’t know how long natural immunity might last. Current evidence suggests that getting the virus again (reinfection) is uncommon in the 90 days after the first infection with the virus that causes COVID-19. We won’t know how long immunity lasts after vaccination until we have more data on how well COVID-19 vaccines work in real-world conditions.
Where can I get a vaccine and when?

Visit covidvaccine.mo.gov to find out when you are eligible to receive the vaccine and locations offering vaccinations. In the St. Louis area, selected health care systems include BJC Healthcare, SSM Health, Mercy St. Louis, St. Luke’s Hospital and the St. Louis County Health Department.
WHEN CAN I GET VACCINATED?

The state of Missouri is currently working to vaccinate residents that are eligible under our phased approach.

COVID-19 Vaccine Availability

<table>
<thead>
<tr>
<th>Phase 1A</th>
<th>Phase 1B</th>
<th>Phase 2</th>
<th>Phase 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-Term Care Facility</td>
<td>Tier 1</td>
<td>Accelerating Economic Recovery</td>
<td>All Missouri Residents</td>
</tr>
<tr>
<td>Residents and Staff</td>
<td>First Responders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Healthcare Workers</td>
<td>Tier 2</td>
<td>Disproportionately Affected</td>
<td></td>
</tr>
<tr>
<td>(Patient Facing)</td>
<td>High Risk Individuals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMS/EMT/Paramedics</td>
<td>Tier 3</td>
<td>Homeless</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Critical Infrastructure</td>
<td></td>
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https://covidvaccine.mo.gov/residents/
Phase 1B – Tier 1
Protecting those who keep us safe and help us during an emergency

- Public Health Administrators and Staff
- Law Enforcement
- Fire Services
- Corrections
- Emergency Management
- Public Works
- Emergency Services

Tier 1

Phase 1B – Tier 2
Protecting those who are at increased risk for severe illness

- Anyone 65 and older
- Any adults with:
  - Cancer
  - Chronic Kidney Disease
  - COPD
  - Heart Conditions
  - Weakened immune system due to organ transplant
  - Severe obesity (BMI >40)
  - Pregnancy
  - Sickle Cell Disease
  - Type 2 Diabetes Mellitus
  - Individuals with intellectual and/or developmental disabilities such as Down Syndrome

Tier 2

Phase 1B – Tier 3
Protecting those who keep the essential functions of society running

- Education (K-12)
- Childcare
- Communications Infrastructure
- Dam & Sector
- Energy Sector
- Food & Agriculture Sector 1
- Government
- Information Technology
- Nuclear Reactor Sector
- Transportation Systems
- Water and Wastewater Systems

Tier 3
So, now what?

If you’ve been fully vaccinated:

- You can gather indoors with fully vaccinated people without wearing a mask.
- If you’ve been around someone who has COVID-19, you do not need to stay away from others or get tested unless you have symptoms.
- However, if you live in a group setting (like a correctional or detention facility or group home) and are around someone who has COVID-19, you should still stay away from others for 14 days and get tested, even if you don’t have symptoms.

CDC.gov

Submit question in the Q & A feature
Soul of a Storm
Poem by ©Ms Moem

She has the soul of a storm and the freedom of the wind.

She has eyes like the stars with moonshine within.

With the strength of the sea and lightning in her toes
She dances on the breeze of change wherever she goes.

Hotter than a volcano and deeper than the oceans
A whirling, swirling myriad of feelings & emotions.

She is daughter of the earth, primordially inspired.

She is water, she is wood. She is earth. She is fire!
Resources

American Academy of Family Physicians (AAFP) - familydoctor.org
BJC Healthcare - BJC.org
Centers for Disease Control and Prevention (CDC) - cdc.gov
Illinois Department of Public Health - dph.illinois.gov
Mercy – Mercy.net or 1-833-364-6777
Missouri Department of Health and Senior Services - health.mo.gov
National Institutes for Health (NIH) - nih.gov

National Medical Association (NMA) - nmanet.org
Regional Response Team - FAQs
SLUCare Physician Group - SLUCare.edu
SSM Health - SSMHealth.com
St. Louis City Department of Health - stlouis-mo.gov or 314-615-2660
The Center for Black Health & Equity and American Lung Association - Understanding Immunizations and the COVID-19 Vaccines
Vatican – Vatican.va
A recording of this webinar will be available on the News and Events page of our website.

Questions: ODEI@health.slu.edu