

#### Clinical Case 1

 22-year-old first-time mom in her second trimester, tells you she read online that the COVID-19 and flu vaccines can cause miscarriage. She tells you her mother and grandmother believe that vaccines during pregnancy are dangerous. She plans to avoid all shots during pregnancy.

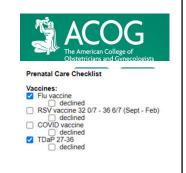
### Clinical Case 2

 28-year-old first-time mom in her first trimester, tells you she read online that the flu vaccines can cause miscarriage. She tells you she gets the flu anytime she is vaccinated. She says she doesn't trust the vaccine and plans to avoid all shots during pregnancy.

# Why Immunization Discussion is Important

- Vaccination is one of the most impactful health interventions, saving millions of lives globally every year.
- It is effective and efficient, safeguarding individuals from preventable diseases and contributing to the health and wellbeing of communities.
- Vaccination plays a pivotal role in driving economic progress by reducing healthcare cost and mitigating the burden of diseases.
- Maternal vaccination protects mother-baby dyad.

Vaccines Routinely Recommended During Pregnancy



ACOG's current recommendations for vaccination during pregnancy for Tdap, COVID-19, influenza, and RSV remain in place.

"For the sake of public health and the health of individuals across the country, immunization recommendations must be based on the full body of medical evidence, without bias or prejudice,"

"Immunization is especially important during pregnancy, when the risks of severe outcomes are heightened—and when vaccines can provide critical protection to the infant after birth. The prospect of unvaccinated patients and their infants developing respiratory distress and being hospitalized from COVID-19, flu, or RSV is frightening.

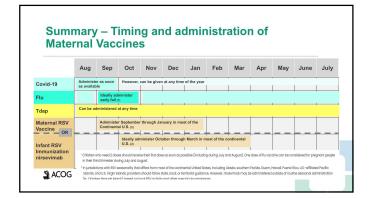
The fact remains that vaccination is our best tool to prevent serious outcomes from respiratory diseases."

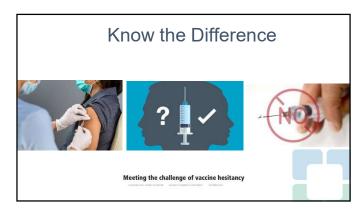
# Vaccines Routinely Recommended During Pregnancy

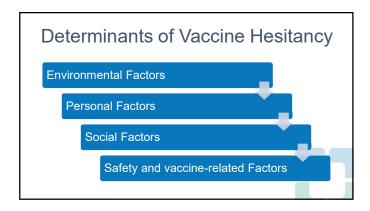
- · Influenza vaccine
- · Tdap vaccine
- COVID-19 vaccine
- RSV vaccine

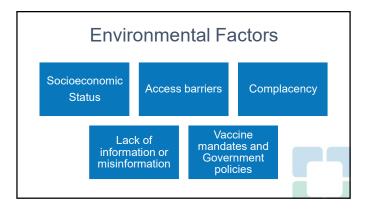


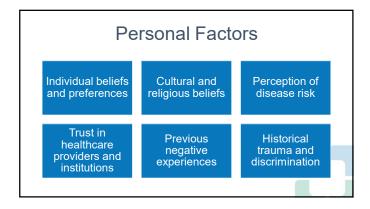
"Can be offered to nonimmune person

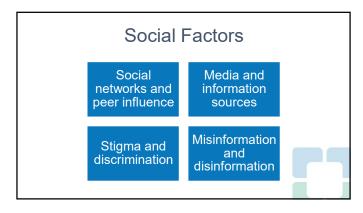


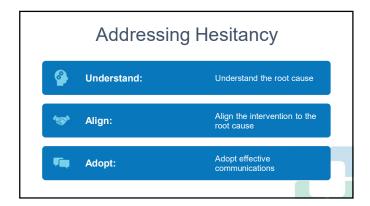


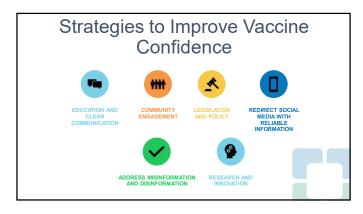


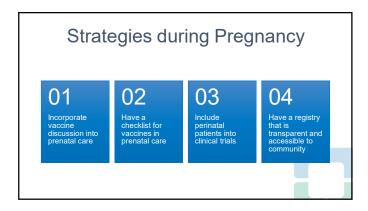












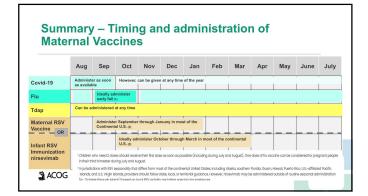


## Integrate Non-Medical Staff

- Doulas/Community Health Workers are allies in vaccine advocacy.
  - Trust, empathy, and education make a difference.
  - Close, ongoing contact with birthing individuals.
  - Deep cultural and emotional connection
  - Unique position to influence health decisions.

### The Obstetric Provider

- · Counseling by an OB provider is powerful.
- · Be clear and transparent.
  - Risks and Benefits.
  - Don't be dismissive.
- Continue to care for patients who decide not to be vaccinated, share resources, and encourage the continued use of prevention measures.
- Document conversation: Accepted/Declined/Undecided



### **Tdap Vaccine**

- · Vaccinate between 27-36 weeks of gestation.
- Morbidity and mortality attributable to pertussis (whooping cough) occurs in infants who are 3 months and younger.
   Infants do not begin their own vaccine series against pertussis until approximately 2 months of age.
- Pregnant women should be counseled that the administration
  of Tdap during each pregnancy is safe and important to make
  sure that each newborn receives the highest possible
  protection against pertussis at birth.

### COVID-19 Vaccine

- Vaccine may occur at anytime/trimester
- ACOG strongly recommends in pregnancy.
- Receive a vaccine or booster dose once available.
- COVID-19 infection in pregnancy has historically been associated with an increased risk of severe disease, adverse pregnancy outcomes, maternal death.
- Severe COVID-19 infection associated with increased risk of preterm birth.

The impact of COVID-19 on pregnancy outcomes: a systematic review and meta-analysis

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RESULTS: We included 42 studies involving 483546 people who were pregnant.

IMTERPERTATIONS: COVID-19 may be associated with increjaced risks of pre-eclampsis, preferre birth and other

#### COVID-19 Vaccine

- There is no evidence of adverse maternal/ fetal effects from vaccinating pregnant individuals with the COVID-19 vaccine.
- The effectiveness of COVID-19 vaccines is similar in pregnant and nonpregnant individuals of similar age for prevention of COVID-19 infection and hospitalizations.
- COVID-19 vaccines decrease the risk of severe COVID-19 disease
- Even if a patient gets sick after being vaccinated, their chance of becoming severely ill is extremely low.
- Vaccination during pregnancy provides passive immunity to the infant, protecting them from COVID-19 in the first few months of life before they can be vaccinated.

ACOG strongly <u>recommends</u> that all pregnant and lactating people receive an updated COVID-19 vaccine/booster.

#### Influenza Vaccine

- Vaccination between Oct-May. Preferably in October.
- · Vaccination may occur at any trimester
- Vaccine decreases risk of severe disease; it will not prevent all infections but ameliorates severity.
- Immune changes in pregnancy may increase the risk of flu complications such as preterm birth.
- Vaccine protects mother and baby; especially when administered in the third trimester.
  - Passive immunity to fetus.
  - Babies do not receive vaccine until 6 months of age.



### Maternal RSV Vaccine

- · Infant hospitalization rate is highest among 0-6 months of age.
- Estimated 100-300 children less than 5 years of age die yearly.
- · Maternal vaccination occurs between Sept-January.
- · Vaccination occurs between 32-36w6d during the RSV season.
- Do not administer if delivery is planned <2 weeks.</li>
- It is administered once and do not give if patient received in previous pregnancy.
  - Counsel and discuss the administration of monoclonal antibodies within 1 week of delivery and by 8 months of infant life if maternal RSV was not given.

#### Maternal RSV Vaccine

- Efficacy: Vaccine reduced the risk of severe Lower Respiratory Tract Infection (LRTI) in infants by 81.9% within 90 days and 69.4% within 180 days post delivery.
- Effectiveness: Significantly decreased RSV LRTI and hospitalization in the first 6 months of life and markedly documented decrease in the first 3 months of infants' life.
- Safety Preterm birth documented in research: 5.7% vs.4.7 %; however, in the 2023-2024 season, PTB was 4.1% (expected range in population 3.1%-6.1%).
  - Slight increased risk of gestational hypertension, however not severe preeclampsia.
- Razzini 2025, Perez 2025, Gentile 2025, Williams 2025, Moro 2024, Desilva 2025, Fleming Dutra 2023, Jones 202

