Caring for Pregnant Patients With Asthma During the COVID-19 pandemic

There is limited information about COVID-19 and pregnancy. We hope the following information will be useful to practicing allergists and their patients.

**Does pregnancy increase the need for critical care in the setting of COVID-19 infection?**
Historically, pregnant individuals have been thought to be at increased risk of severe morbidity and mortality from specific respiratory infections, such as flu and SARS. With regard to COVID-19, the limited data currently available do not indicate that pregnant individuals are at an increased risk of infection or severe morbidity compared with non-pregnant individuals in the general population. However, pregnant women should take the same precautions as the general public to prevent infection, and if they do become sick, prompt management of symptoms is important.

**Is timing of delivery affected by COVID-19?**
Having severe symptoms or complications from any illness might affect timing of delivery. Reports of women hospitalized with symptoms of COVID-19 during the second and third trimesters of pregnancy have included preterm deliveries, but it is not clear if these were due to the mother’s infection or other reasons. For women with suspected or confirmed COVID-19 in the third trimester who recover, it is reasonable to attempt to postpone elective delivery until a negative test result is obtained in an attempt to avoid transmission to the neonate.

**Does COVID-19 present an increased risk of adverse perinatal and fetal outcomes?**
It’s too early for researchers to know how COVID-19 might affect a fetus. Some pregnant women with COVID-19 have had preterm births and early reports showed a higher rate of delivery by caesarean sections. **Multiple small studies from China have shown that severe maternal and neonatal complications have not been observed for pregnant women with COVID-19.** In limited reports of infants born to women with COVID-19 illness around the time of delivery, most newborns have not had evidence of infection. However, a small number of newborns have tested positive for the virus soon after delivery. This suggests the possibility that the virus could pass from a mother to a baby during pregnancy, but more research is needed.

**Are there special considerations for pregnant women with asthma?**
Few data exist to indicate that having asthma is associated with an increased risk of becoming infected with COVID-19 or a more severe course in the non-pregnant infected patient. There are even fewer data for pregnant asthmatic women with COVID-19. However, the U.S. Centers for Disease Control and Prevention (CDC) does indicate that those with moderate to severe asthma might be at a higher risk for severe illness from COVID-19. In one study of 46 pregnant women with COVID-19 infection, four had asthma. Of the six women with severe disease in that study, two had asthma, but one was overweight and the other was obese with hypertension. Current recommendations emphasize the need to maintain asthma control during
pregnancy. Reducing controller therapy could put pregnant women with asthma at increased risk of an asthma exacerbation necessitating medical care, which could then put them at an increased risk of being exposed to COVID-19.

**Is breastfeeding safe during COVID-19 infection?**
Breast milk provides protection against serious childhood infections. Women are often encouraged to continue breastfeeding or providing breast milk even when they are sick with a virus, such as the flu. Information about COVID-19 in breastfeeding women is limited at this time. Most case reports have not detected virus in the breastmilk of infected mothers. In two cases virus was detectable, but it was not clear if this could have been due to contamination. Research to resolve this question is ongoing.

**Are there ongoing studies to which pregnant women could be referred?**
Researchers are still learning how COVID-19 affects pregnant women. As part of their Pregnancy Studies, the organization MotherToBaby is interested in examining the short and long-term effects of COVID-19 in pregnancy and breastfeeding. This study will consist of phone calls over the course of the pregnancy and post-delivery, as well as release of medical records related to the pregnancy and infant’s development. If you have a pregnant patient with COVID-19, please consider enrolling them at [mothertobaby.org](http://mothertobaby.org) or by calling 866-626-6847.

The Vaccines and Medications in Pregnancy Surveillance System (VAAMPS) also is continuing to study asthma medications during pregnancy. **VAMPSS is a nationwide post-marketing surveillance system established to comprehensively monitor the use and safety of vaccines and medications during pregnancy, coordinated by the AAAAI. You can learn more about VAMPSS at the AAAAI website.** If you have a pregnant patient with asthma, please consider enrolling them in the VAMPSS studies at [mothertobaby.org](http://mothertobaby.org) or by calling 866-626-6847.

**References**

MotherToBaby: [https://mothertobaby.org//?s=covid](https://mothertobaby.org//?s=covid)
