

## Pregnancies Complicated by Pre-existing Conditions

### Objectives

- Describe the inter-relational effects between pregnancy and asthma treatment and control
- Discuss the pharmacologic treatment for asthma in pregnancy and their mechanisms of action and side effects
- Identify barriers and cofounders that adversely affect effective treatment of asthma during pregnancy
- Explain the key inflammatory and metabolic changes that occurs when pregnancy is affected by obesity
- Summarize the complications that can affect pregnancy due to obesity for both the mother and fetus
- Review the recommended management approaches for treatment of obesity during pregnancy in the antepartum, intrapartum and postpartum periods

### Content Outline

1. Asthma During Pregnancy
  - A. Effects of the pregnancy on asthma
  - B. Effects of asthma on the pregnancy
  - C. Pharmacological treatments of asthma during pregnancy
  - D. Barriers to achieving asthma control and avoiding exacerbations during pregnancy
2. Obesity in Pregnancy
  - A. Inflammatory and metabolic changes
  - B. Maternal and fetal/neonatal complications of obesity in pregnancy
  - C. Management of obesity in pregnancy during antepartum, intrapartum, and postpartum periods

### Reading Material Resources

**Module WB2526: Pregnancies Complicated by Pre-existing Conditions** is based on the resources listed below. A copy of each resource is included with the module.

Chronic Management of Asthma During Pregnancy, Namazy, et al., Immunology Allergy Clinics of North America, 43 (2023), 65-85

Obesity in Pregnancy, Creanga, et al., New England Journal of Medicine, 387:3, July 21, 2022, 248-259