

## Preventing Preeclampsia

### Objectives

- Discuss the role of statins in the prevention of preeclampsia
- Review the pathophysiology of preeclampsia and the effect of statins
- Identify the mechanism and the effect of statins by cell type
- Assess studies results relating to statin use and preeclampsia
- Summarize the timeline events in aspirin history and specific aspects of its use in pregnancy
- Explain the mechanism of action of aspirin and its effects on preeclampsia
- Recap studies results relating to aspirin use in reducing preeclampsia
- Characterize the pros and cons for consideration of using universal aspirin as primary prevention of preeclampsia

### Content Outline

1. Statins for Prevention of Preeclampsia
  - A. Statin pharmacologic properties and principal effects
  - B. Pathophysiology of preeclampsia and the effect of statins
  - C. Mechanism of action of statins
  - D. Maternal and fetal effects of statin use in pregnancy
2. Prevention of Preeclampsia with Aspirin
  - A. Summary of aspirin history in health care
  - B. Effects of aspirin on preeclampsia rates
  - C. Mechanism of action of aspirin
  - D. Cost benefits relating to aspirin use in pregnancy

### Reading Material Resources

**Module WB2423: Preventing Preeclampsia** is based on the resources listed below. A copy of each resource is included with the module.

The role of statins in the prevention of preeclampsia, Smith, et al., American Journal of Obstetrics and Gynecology, Elsevier, February 2022, S1171-S1181

Prevention of Preeclampsia with Aspirin, Rolnik, et al., American Journal of Obstetrics and Gynecology, Elsevier, February 2022, S1108-S1119