

## *Sex and gender in asthma*

<https://err.ersjournals.com/content/errev/30/162/210067.full.pdf>

Asthma is a heterogenous inflammatory lung disease with different phenotypes and responses to therapeutics in males and females. The incidence, prevalence, and severity of asthma varies with age, and is influenced by sex, gender, and sex hormones. In this review article, Chowdhury et al. summarize the most recent literature on the contributions of sex hormones, and genetic, epigenetic, and environmental factors in the manifestation of asthma across the life span. Further, the mechanisms driving airway inflammation in asthma pathogenesis and the response to therapeutics in males and females are summarized, as well as the influence of physiological hormonal fluctuations occurring in pregnancy, menopause, the menstrual cycle, and use of oral contraceptives.