

# Sexual precocity and its treatment

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**Background:** Puberty is a complex and dynamic period in development during which individuals transition from the juvenile to adult state. Regulated by multiple genetic and endocrine controls, it is characterized by somatic growth and sexual maturation. Sexual precocity is defined as the appearance of secondary sexual characteristics before the lower limit of the normal age for pubertal onset.

**Data sources:** Based on recent publications and the experience with the disease of our group, we reviewed the normal timing and order of puberty, the definition of sexual precocity, the classification of sexual precocity, the differential diagnosis of sexual precocity, variations in pubertal development, the diagnosis of sexual precocity, and the treatment of sexual precocity.

**Results:** Sexual precocity can be classified as either gonadotropin-releasing hormone (GnRH)-dependent or GnRH-independent. Regardless of the etiology, sexual precocity causes increased height velocity, somatic development, and skeletal maturation, which may have profound physical and psychological implications.

**Conclusions:** The treatment of sexual precocity is focused on its cause and must address both its psychosocial and clinical implications. For GnRH-dependent precocious puberty, GnRH agonists are the main pharmacological agents used. Alternatively, the treatment of disorders causing GnRH-independent sexual precocity is directed toward the underlying abnormality.

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## Introduction

Puberty is a complex process of developmental change regulated by multiple genetic and endocrine factors. It is characterized by increased statural growth, somatic development, skeletal maturation, the appearance of secondary sex characteristics, and, ultimately, the onset of reproductive capability. Pulsatile secretion of hypothalamic gonadotropin-releasing hormone (GnRH) due to the pubertal "reawakening" of the GnRH pulse generator from its relative quiescent state during childhood regulates the release of the pituitary gonadotropins follicle-stimulating hormone (FSH) and luteinizing hormone (LH). The pulsatile and rising FSH and LH levels then lead to the increases in serum gonadal sex steroids (estrogen in females and testosterone in males), which yield the physical changes of puberty.

## Normal timing and order of puberty

Descriptive standards for assessing pubertal development are in wide use (sexual maturation stages or Tanner stages)<sup>[1,2]</sup> and make it possible to objectively record the progression of secondary sexual development.

In girls, the first sign of puberty is typically an increase in linear growth, though breast development is often the first sign noted by parents and physicians.<sup>[1]</sup> Both are due to the actions of estrogen;<sup>[3]</sup> the rapid growth is secondary to estrogen-mediated increases in growth hormone (GH) secretion and insulin like growth factor-1 levels,<sup>[3,4]</sup> whereas breast development is secondary to estrogen-mediated effects on the glandular and connective tissues of the mammary glands.<sup>[7,8]</sup> Areolar changes in size, erectility, and color also occur in a predictable sequence. Other features reflecting estrogen action include enlargement of the labia minora and majora, dulling of the vaginal mucosa, and the production of a clear or slightly whitish vaginal secretion. Alternatively, pubic hair development is due to the secretion of adrenal and gonadal androgens. Moreover, although breast development and pubic hair growth often occur at similar rates, they are best staged separately as discrepancies may exist. In boys, the first sign of puberty is usually an increase in the size of the testes to more than 2.5 cm in longest diameter (excluding the epididymis), equivalent to a testicular volume of 4 mL or greater.<sup>[7]</sup> As in females, pubic

# Sexual Precocity

**William Acton (Surgeon)**



## **Sexual Precocity:**

**Sexual Precocity** Hugh Jolly,1955      **The Functions and disorders of the reproductive organs** William Acton,1888

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