

# Clinical longitudinal standards for height, weight, height velocity, weight velocity, and stages of puberty

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# INTRODUÇÃO

- Baseadas em dados de curvas Britânicas 1965;
- CURVAS
  - Transversal
  - Longitudinal
  - Longitudinal mista (híbrida)

# INTRODUÇÃO

- CURVAS INICIAS
  - Mais dados transversais
  - Difícil avaliação clínica
- CURVAS MODIFICADAS
  - Dados longitudinais
  - Vantagens

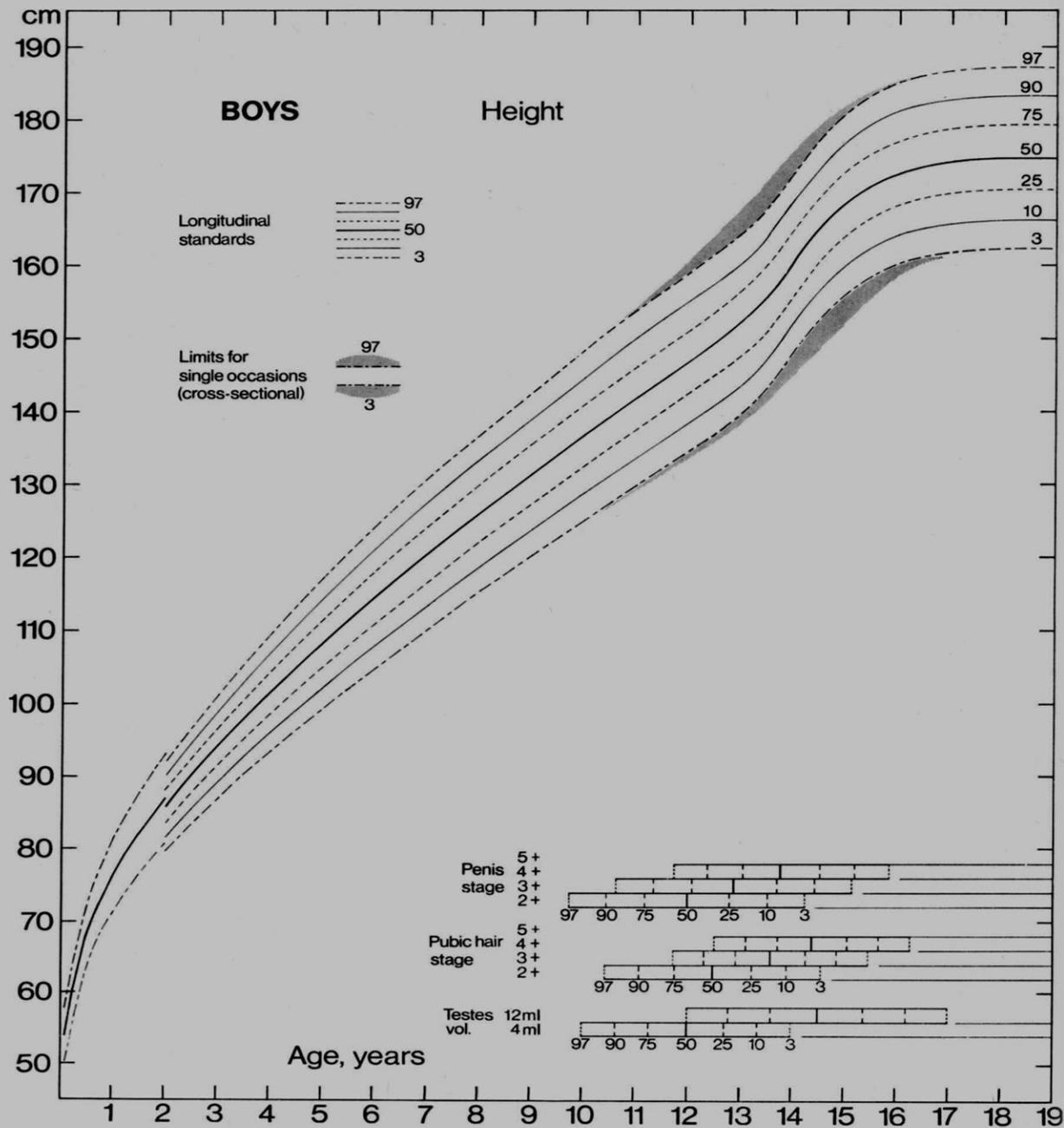


FIG. 1.—Longitudinal standards for height attained at given age, boys. The shaded areas represent the 97th and 3rd centile limits of cross-sectionally derived standards.

CURVA DE ALTURA X IDADE  
SEXO MASCULINO



FIG. 2.—Longitudinal standards for weight attained at given age, boys. The shaded areas represent the 97th and 3rd centile limits of cross-sectionally derived standards.

CURVA DE PESO X IDADE  
SEXO MASCULINO

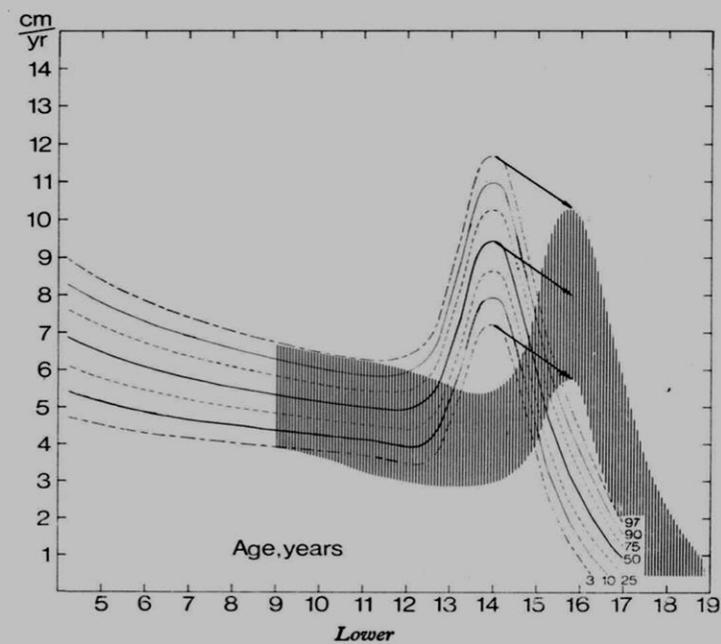
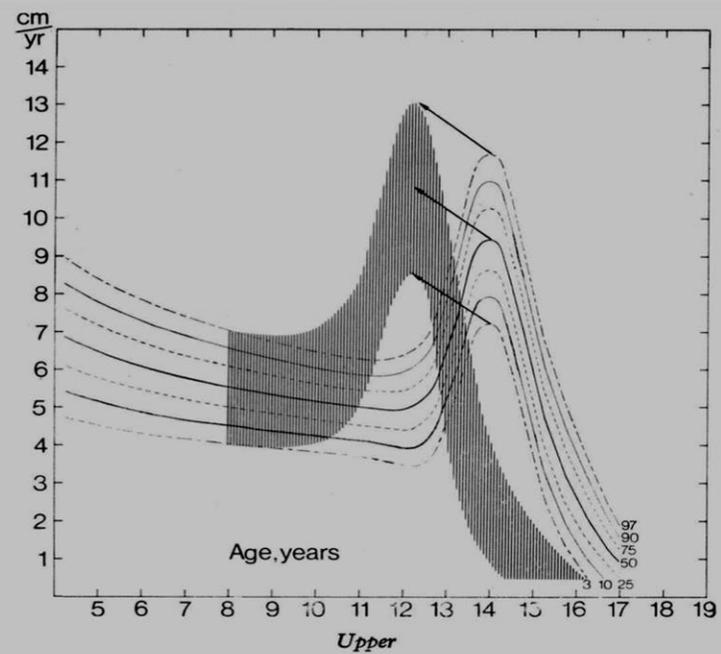
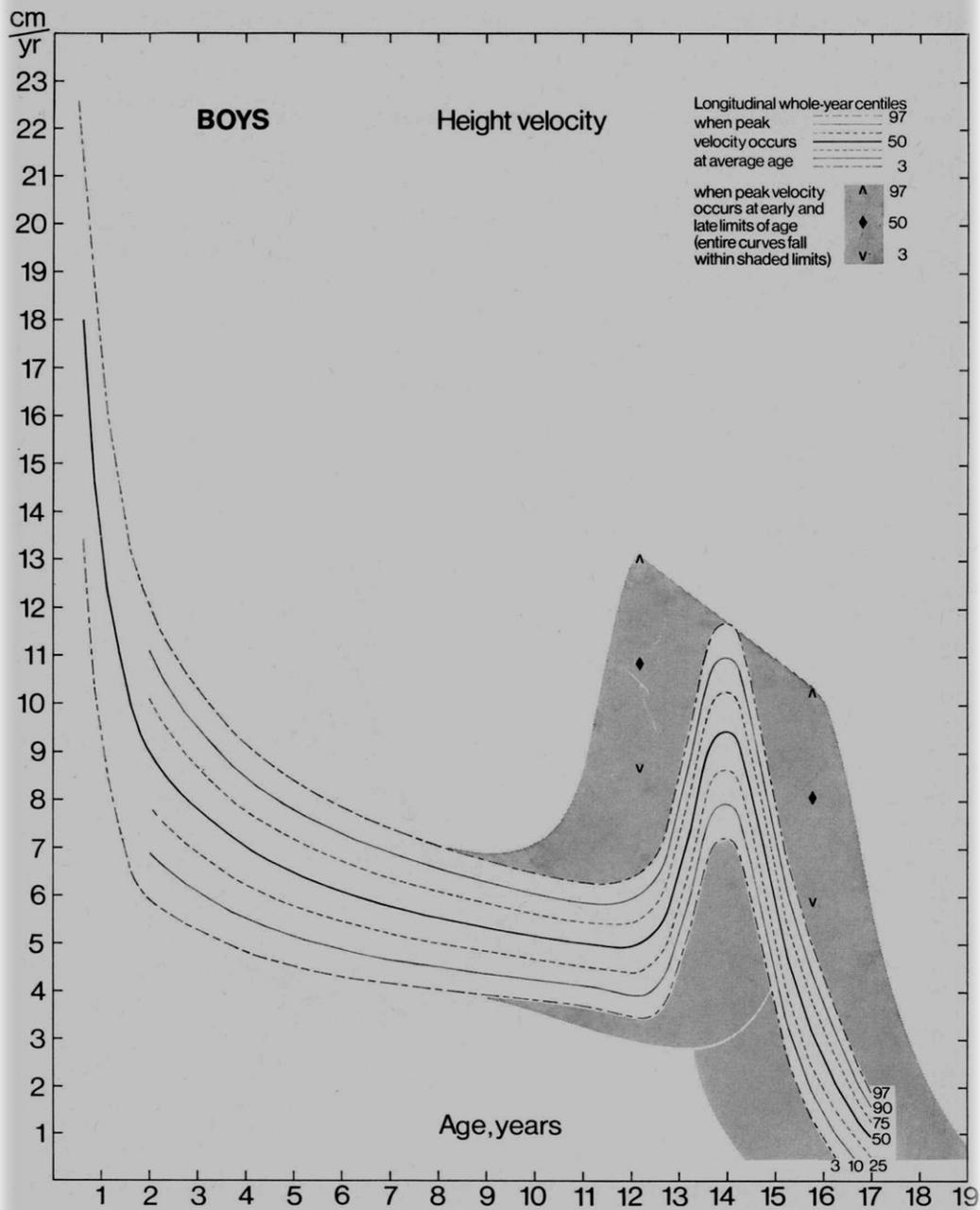


FIG. 3.—Construction of longitudinal standards for height velocity. Centiles represent boys having peak velocity at average age of peak. Upper, hatched area represents centiles for boys with peak occurring 2 SDs of age before mean age (approximately 2 years early). Lower, hatched area represents centiles for boys with peak occurring 2 SDs after mean age (approximately 2 years late).

CURVAS DE VELOCIDADE DE  
CRESCIMENTO X IDADE  
SEXO MASCULINO



CURVA DE VELOCIDADE DE CRESCIMENTO X IDADE SEXO MASCULINO

FIG. 4.—Longitudinal standards for height velocity, boys. Shaded area represents total of hatched areas in Fig. 3 upper and lower; it thus encloses all velocity curves within 3rd-97th centile limits for age and for peak velocity. 3rd, 50th, and 97th centiles for early- and late-maturing boys are indicated by arrowhead and diamond symbols.

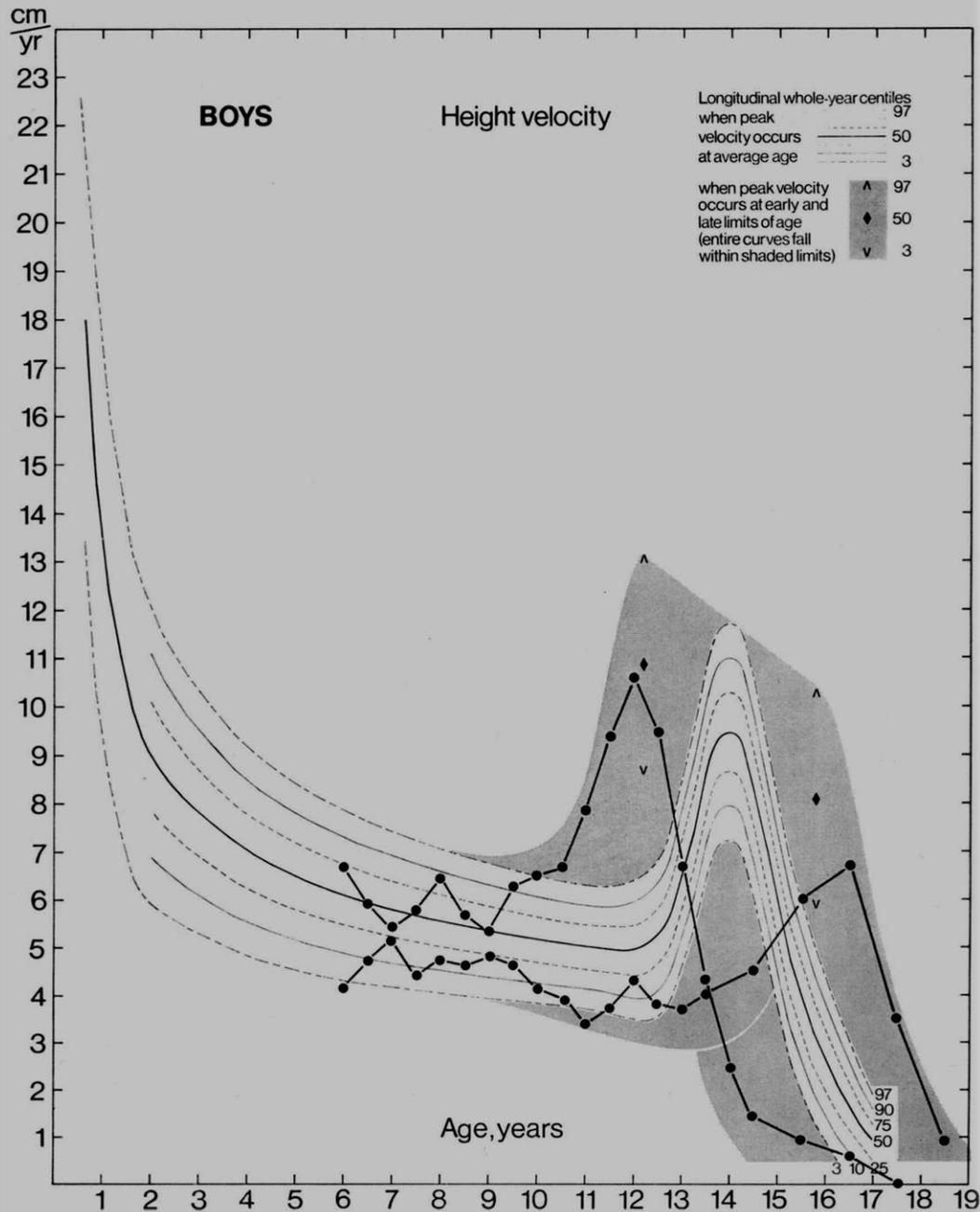
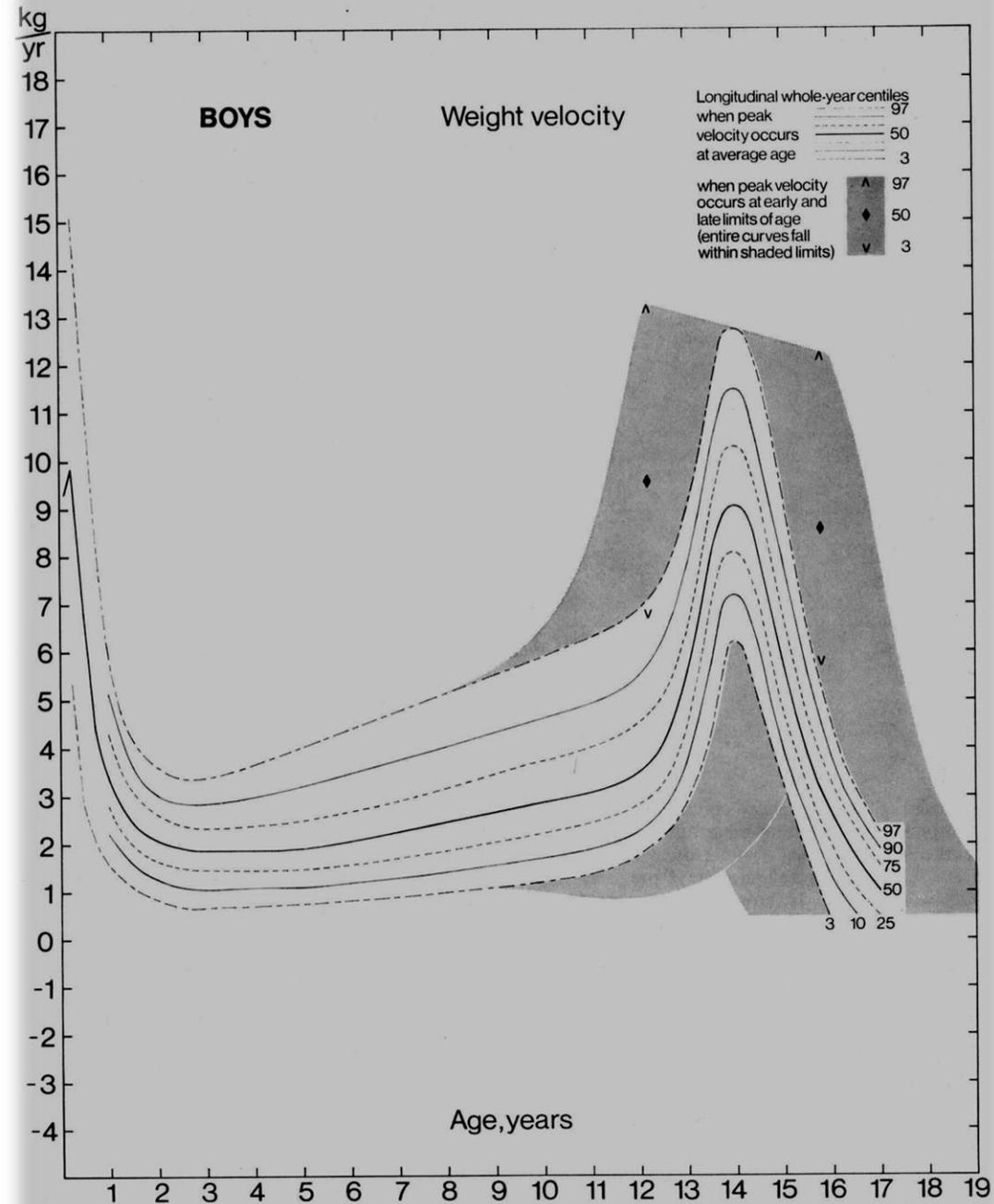


FIG. 5.—Height velocities of an early and a late maturing boy. Whole-year velocities plotted every 6 months, at central point of last completed year, except from age 14 onwards, where only annual measurements were available.

COMPARAÇÃO MATURADOR  
 PRECOCE X MATURADOR TARDIO



CURVA DE VELOCIDADE DE GANHO DE PESO X IDADE SEXO MASCULINO

FIG. 6.—Longitudinal standards for weight velocity, boys. Shaded areas as for Fig. 4.

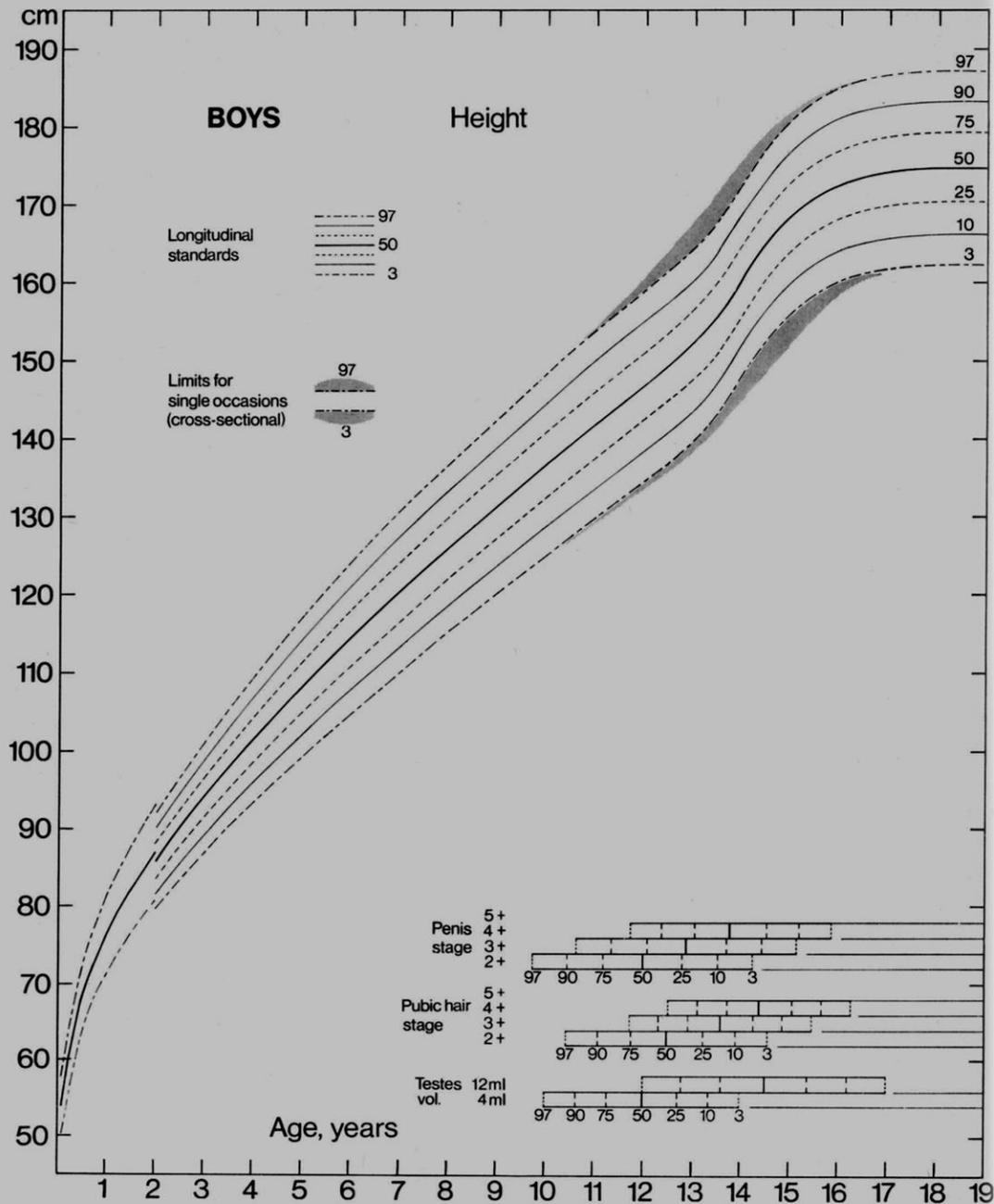
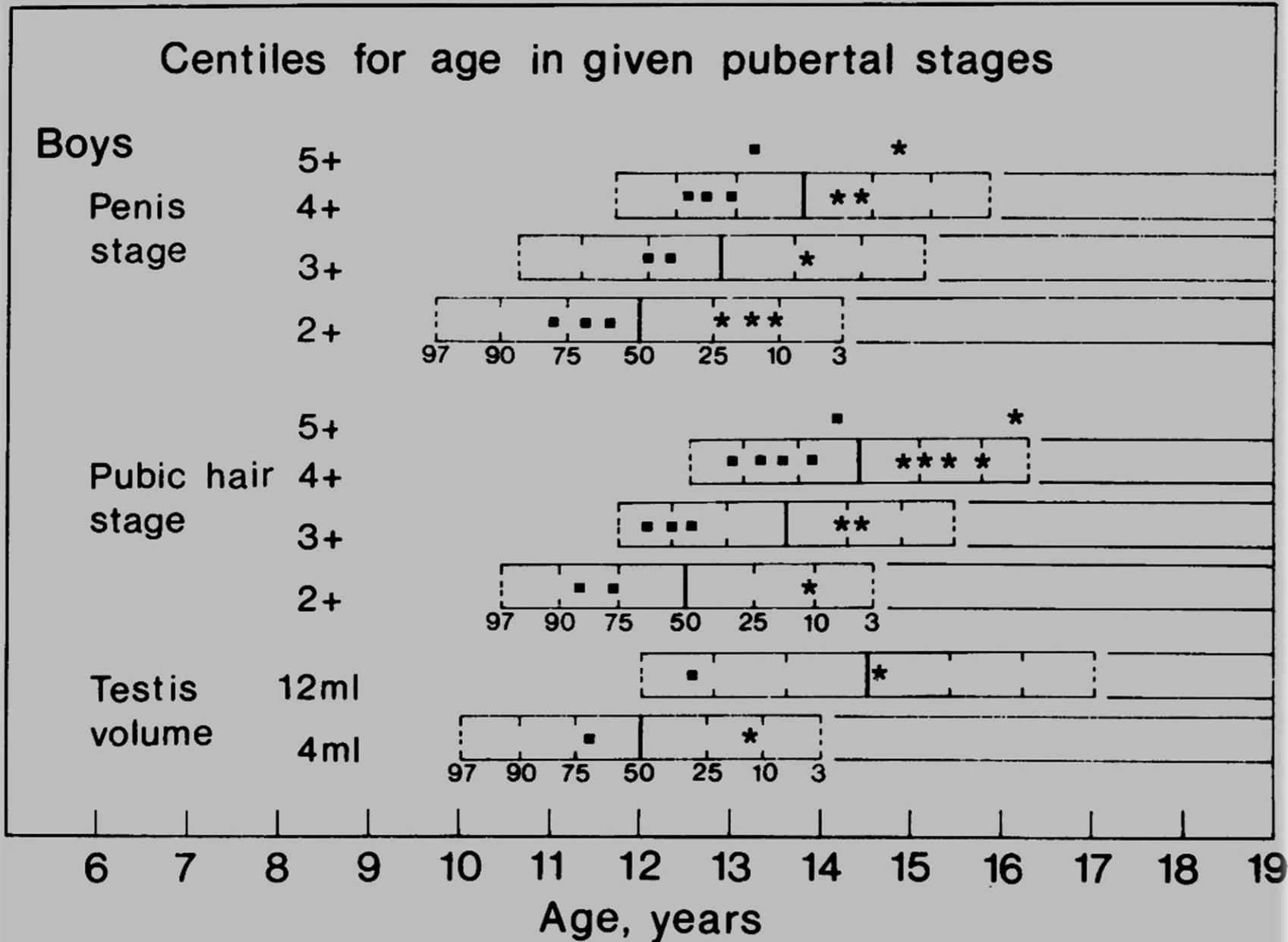


FIG. 1.—Longitudinal standards for height attained at given age, boys. The shaded areas represent the 97th and 3rd centile limits of cross-sectionally derived standards.

ESTÁGIOS PADRÃO DE PUBERDADE



ESTÁGIOS PADRÃO DE PUBERDADE

FIG. 7.—A generally early-maturing boy (■) and a generally late-maturing (\*) boy plotted at successive ages on the puberty standards.



**OBRIGADA!!!!**