



"Vöxtur og þroski"
Ragnar Bjarnason Dr Med
2020/21

Vöxtur og þroski

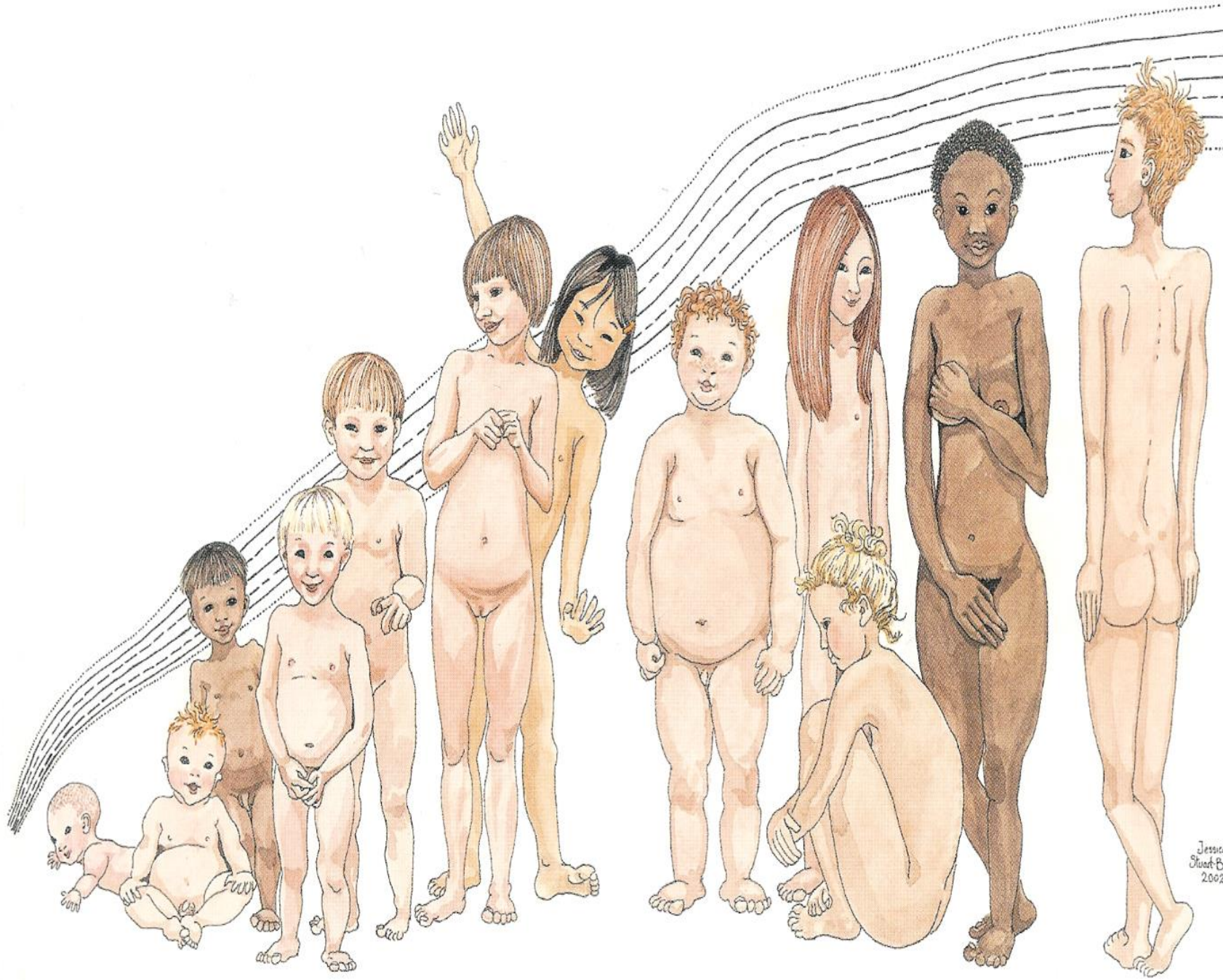
Ragnar Bjarnason Dr Med
Prófessor, yfirlæknir
Barnaspítala Hringssins

2020/21





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Jessica Stuart-Be
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Notkun vaxtarkúrva

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Barns nöfn: [] Dátumið: [] Fjölskipti: [] Sex: Pojke
 Aldur: [] Hæð: [] Væðing: []

1. Er barnið eðlilega stórt?
2. Vex barnið á eðlilegum hraða?
3. Eru eðlileg tengsl milli lengdar og þyngdar?

Barns nöfn: [] Dátumið: [] Fjölskipti: [] Sex: Pojke
 Aldur: [] Hæð: [] Væðing: []

Table 1 (Left):
 Dátum: []
 Hæð: []
 Væðing: []
 LITLA G: []
 Þyngd: []
 Þyngdarhlutf. (BMI): []

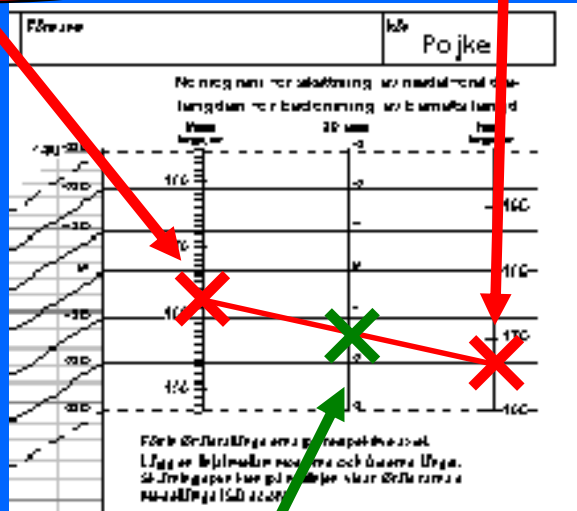
Table 2 (Right):
 Dátum: [] Hæð: [] Væðing: [] LITLA G: [] Þyngd: [] Þyngdarhlutf. (BMI): []



Hæð barns

M 163 cm

P 165 cm



Meðal lengd foreldra -1.5 SD

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Target hæð:

$$\frac{\text{Hæð föður (180cm)} + \text{Hæð móður (174cm)} \pm 13\text{cm}}{2}$$

$$\text{Drengur} = (180 + 174 + 13) / 2 = 183,5\text{cm}$$

$$\text{Stúlka} = (180 + 174 - 13) / 2 = 170,5\text{cm}$$

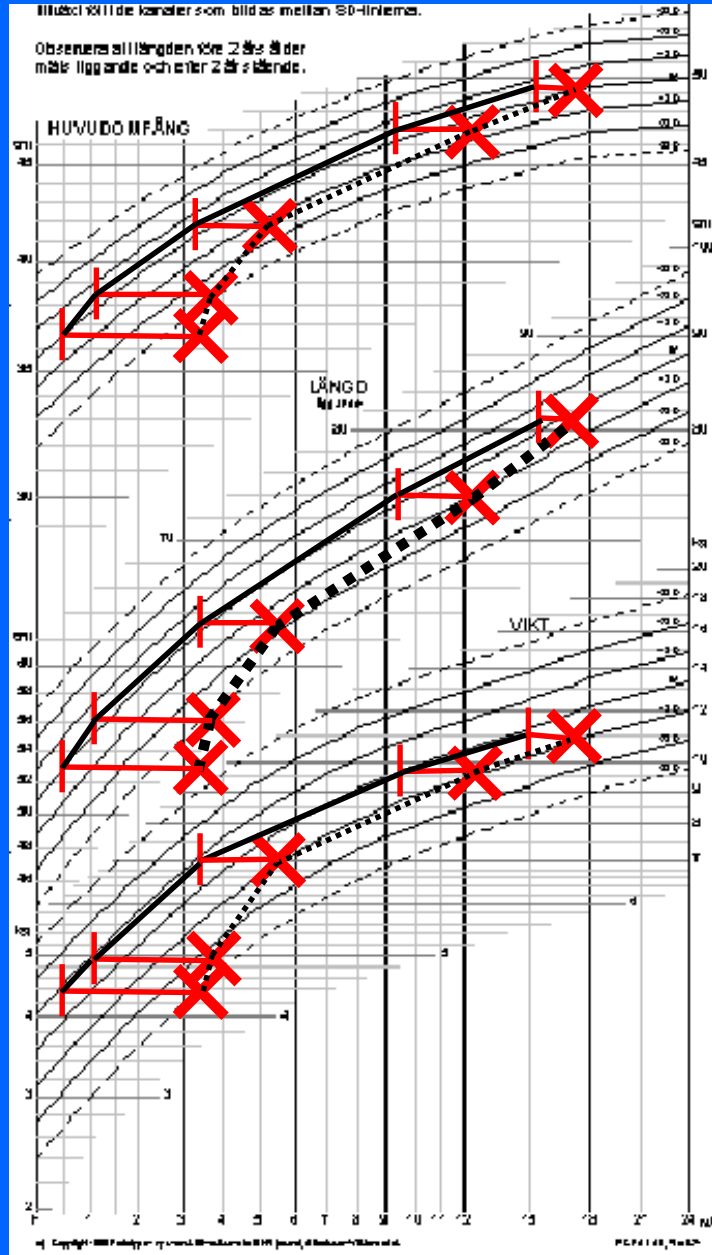
Maður af “sömu” hæð og kona er 13cm hærri
 $180 - 13 = 167$

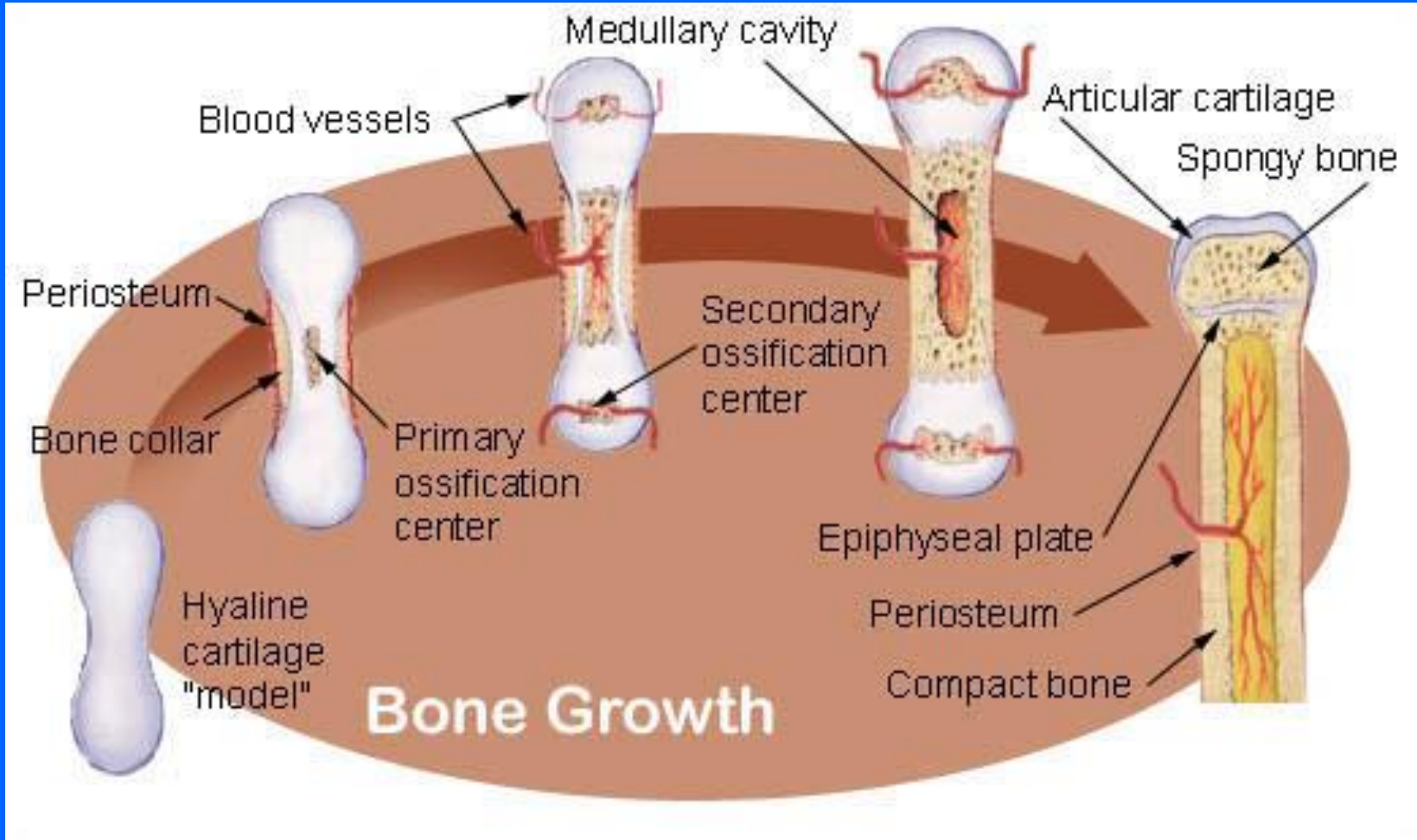
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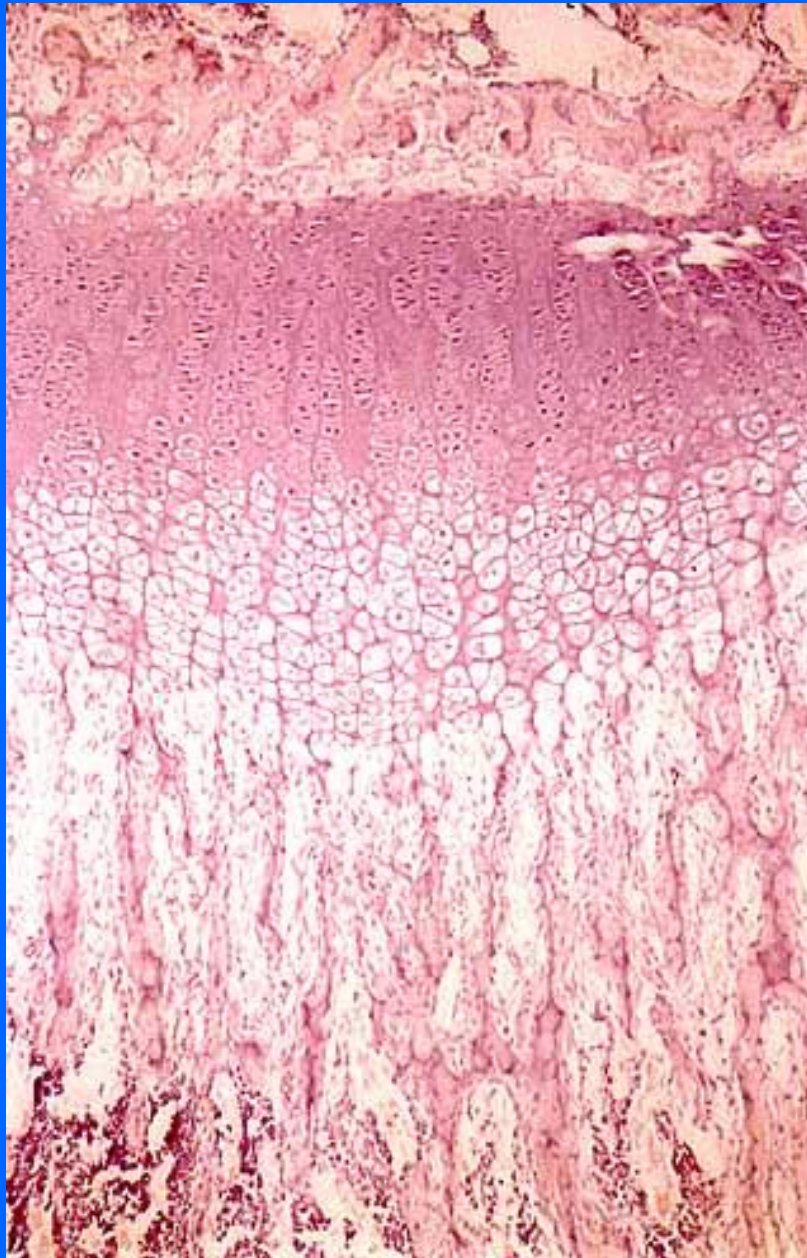
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Resting zone

Proliferating zone

Hypertrophic zone

Ossification zone

Trabecular bone

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Bone Development of the Hand

1 year



3 years



13 years

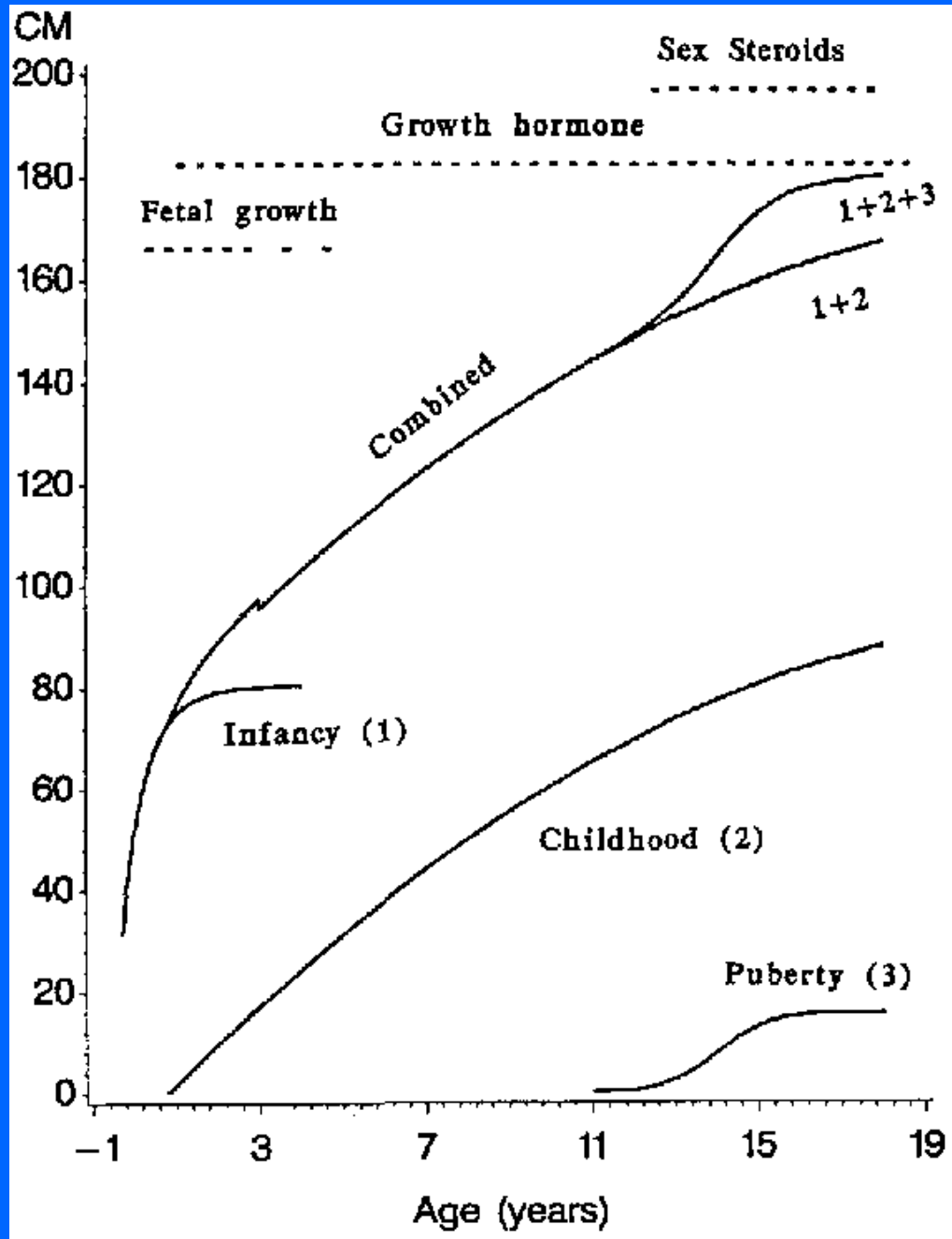


Adult





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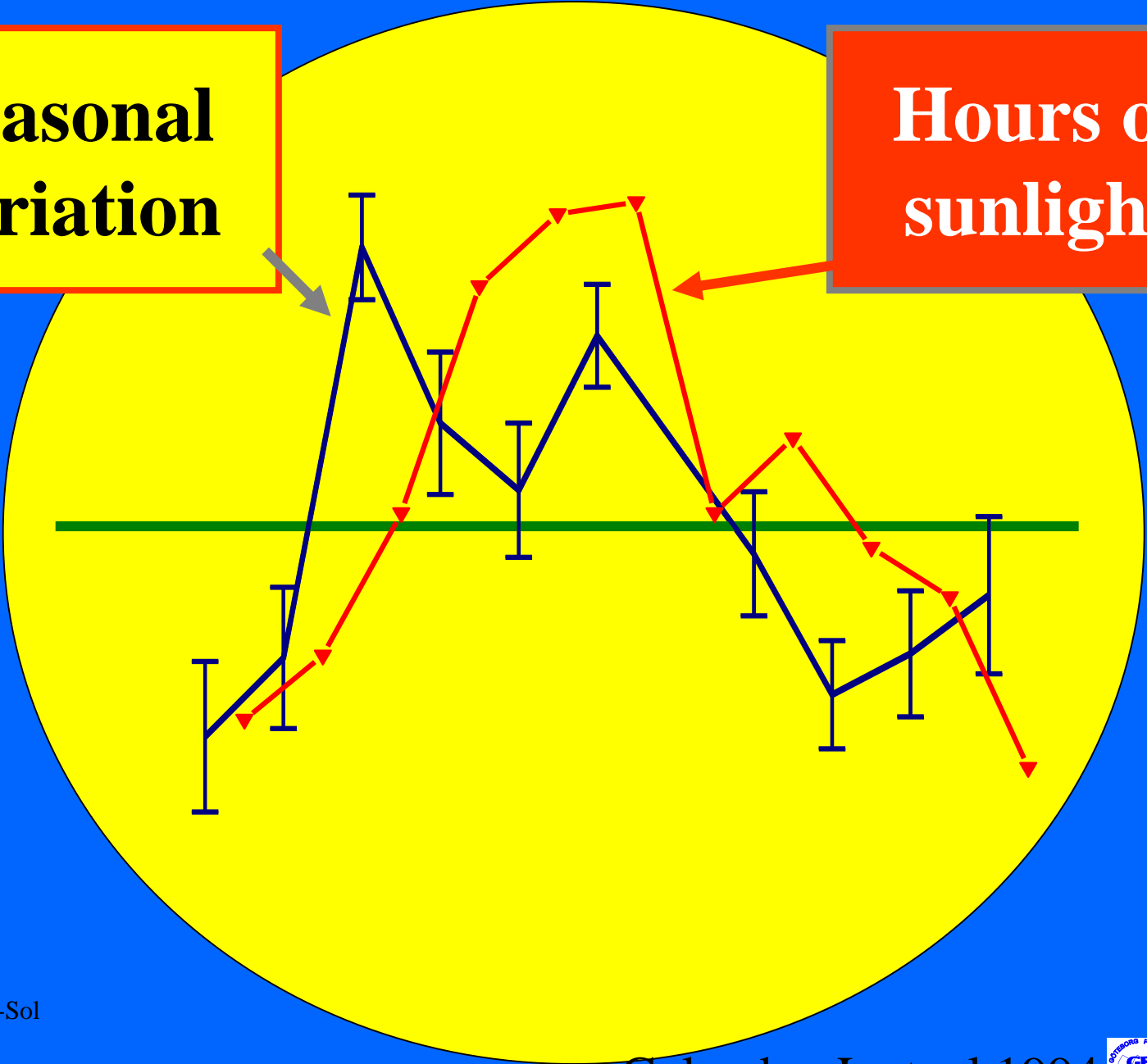


ICP kerfi
vaxtar



Seasonal variation

Hours of sunlight



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Tillväxt-Sol

Gelander, L et. al 1994





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Personnúmer (ID number)	Eftirnafn	Förnamn	Kön Pojke ♂
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Moder

Vikt Kg	Längd cm	Huvudomf cm
---------	----------	-------------

Fader

Vikt Kg	Längd cm	Huvudomf cm
---------	----------	-------------

Födelseuppgifter

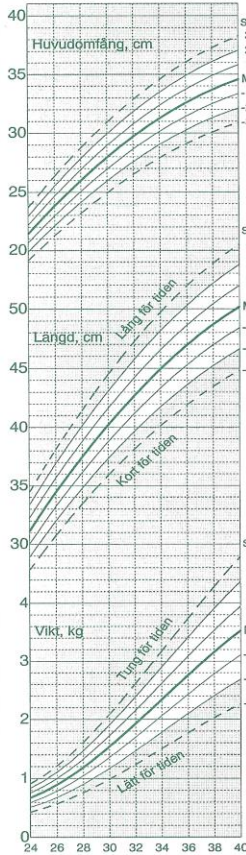
Graviditetstid, veckor + dagar

Ålderskorrektion, veckor

Vikt Kg	Längd cm	Huvudomf cm
---------	----------	-------------

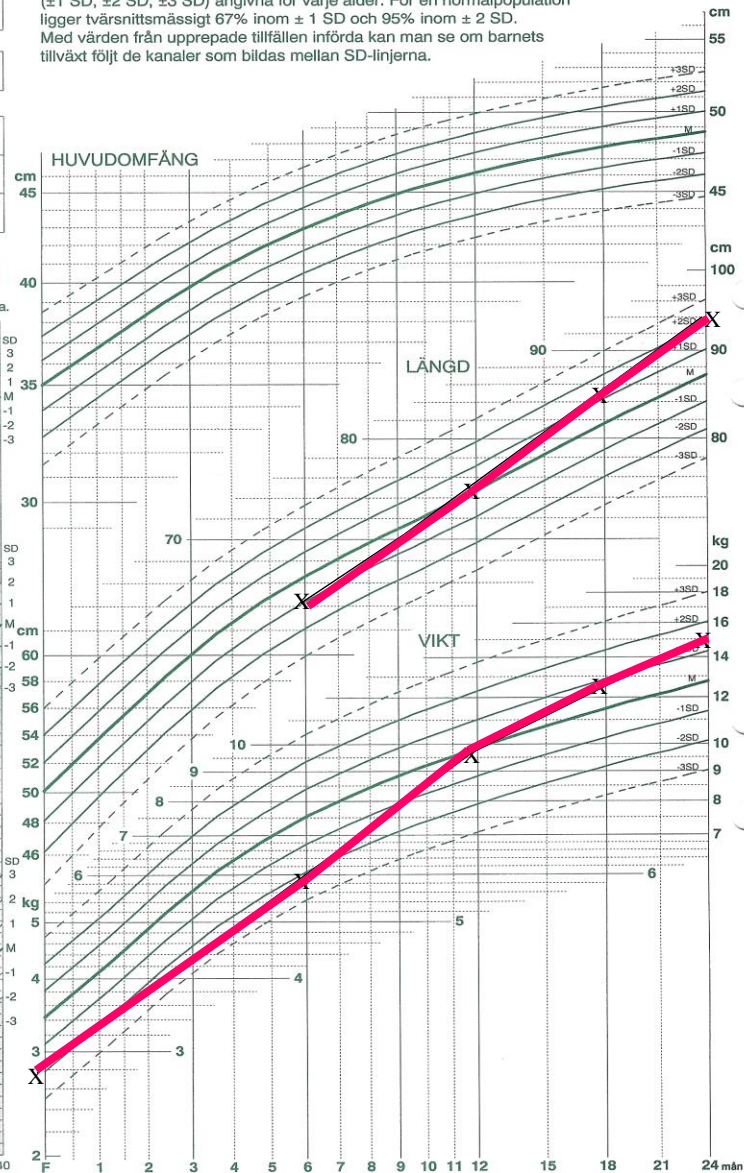
Prematurkurvor

För barn födda före graviditetsvecka 37 använd nedanstående kurvor tills barnet är motsvarande 40 veckor. Använd därefter de ordinarie kurvorna.



© Copyright 1999 Niklasson A, Karlberg P.

För vikt, längd och huvudomfång är medelvärden jämte standardavvikelser (± 1 SD, ± 2 SD, ± 3 SD) angivna för varje ålder. För en normalpopulation ligger tvärsnittsmässigt 67% inom ± 1 SD och 95% inom ± 2 SD. Med värden från upprepade tillfällen införda kan man se om barnets tillväxt följt de kanaler som bildas mellan SD-linjerna.



© Copyright 1999 Albertsson Wikland K, Karlberg J. Acta Paediatrica (Suppl) 399:64-70, 1994

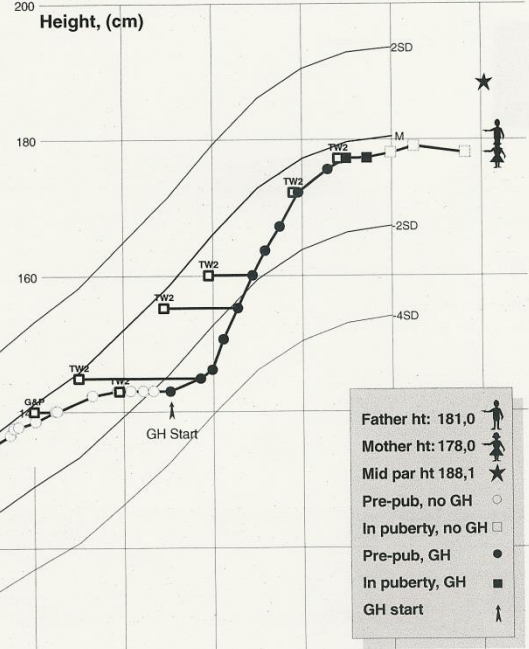
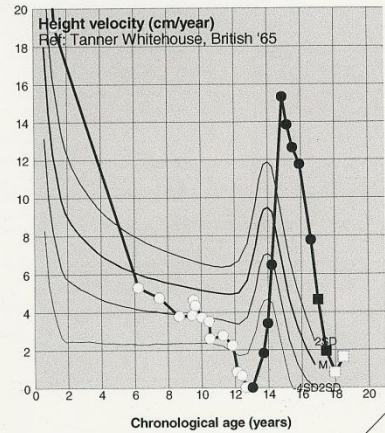
GP-GRC; PC PAL AB Ver 1.0
Överlåtelse rätt till Kommentus Gruppen AB



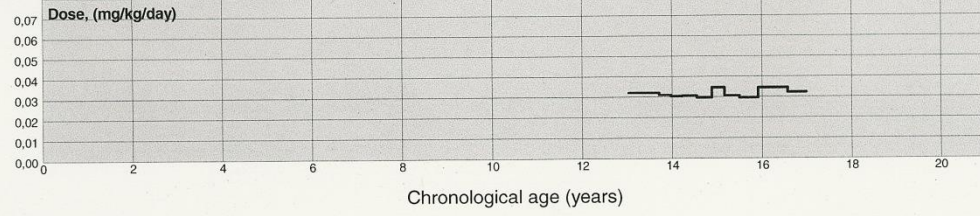
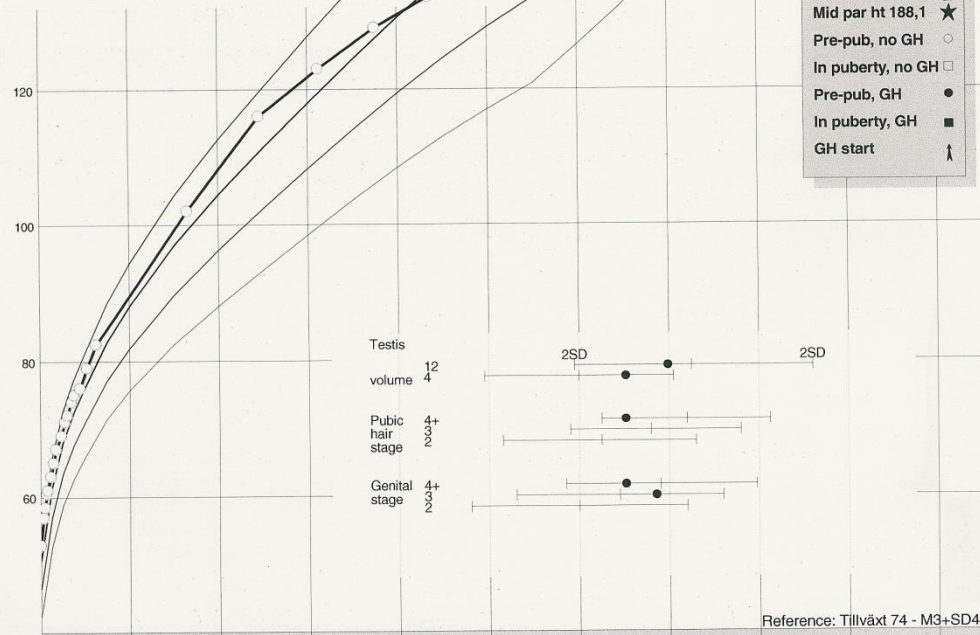
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ID: [redacted] Diagnosis: 2.2.1.9. Tumour of the pituitary/hypothalamic area;
 Sex: Male Initials: JN Others (specify)
 Birth date: 1980-03-09 KIGS no: 1735



Father ht: 181,0
 Mother ht: 178,0
 Mid par ht 188,1
 Pre-pub, no GH ○
 In puberty, no GH □
 Pre-pub, GH ●
 In puberty, GH ■
 GH start ▲



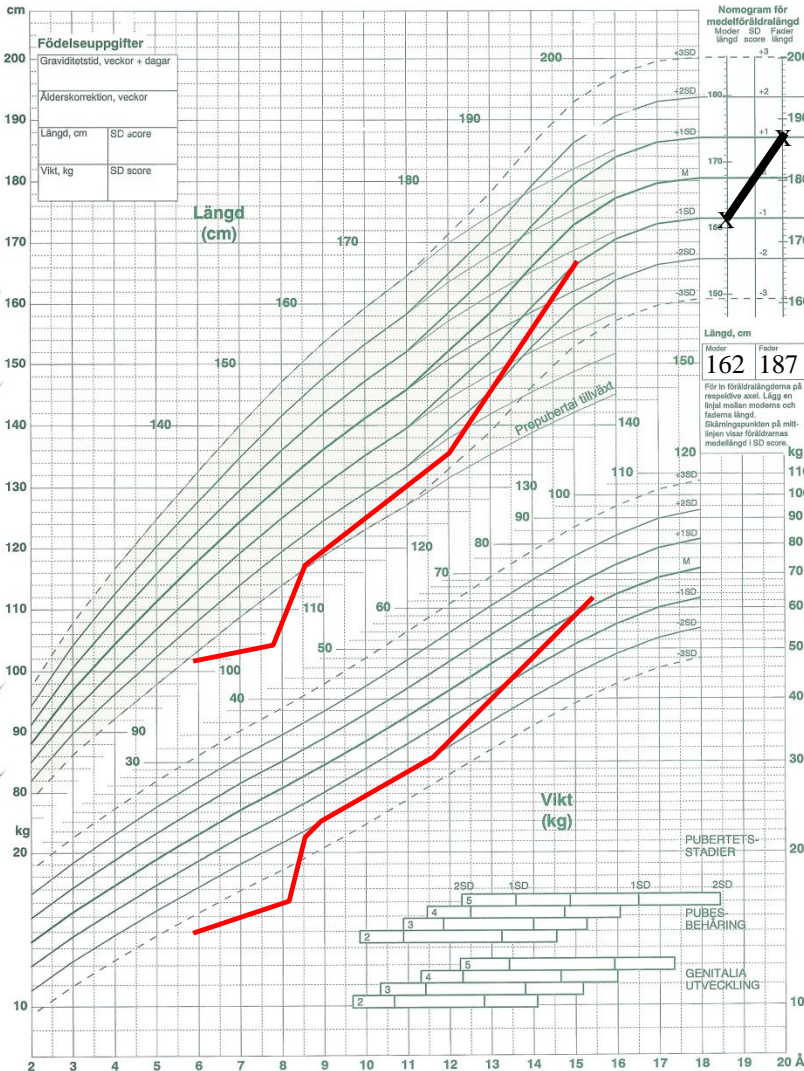
Chronological age (years)



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Personnr (10/12 siffror) Eftirnafn **AB 79** Förnafn Kón **Pojke ♂**



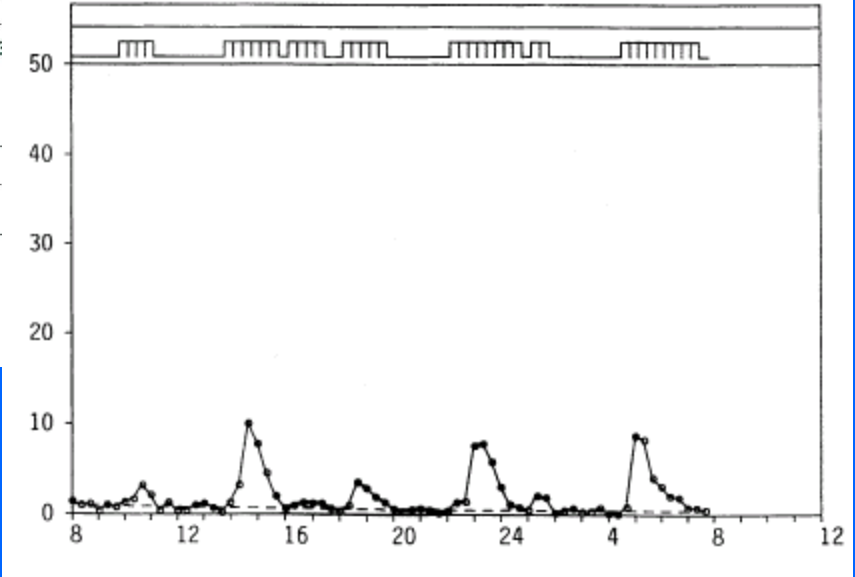
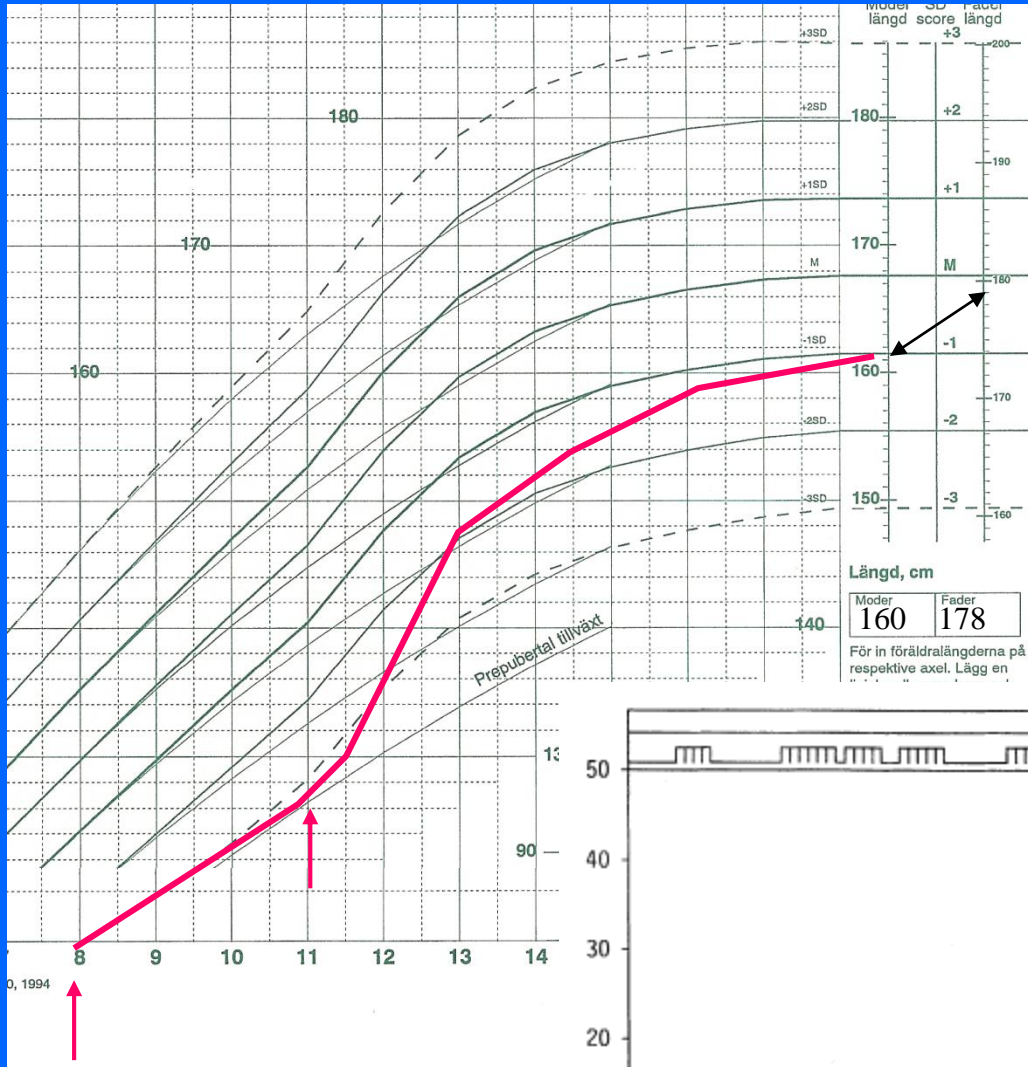
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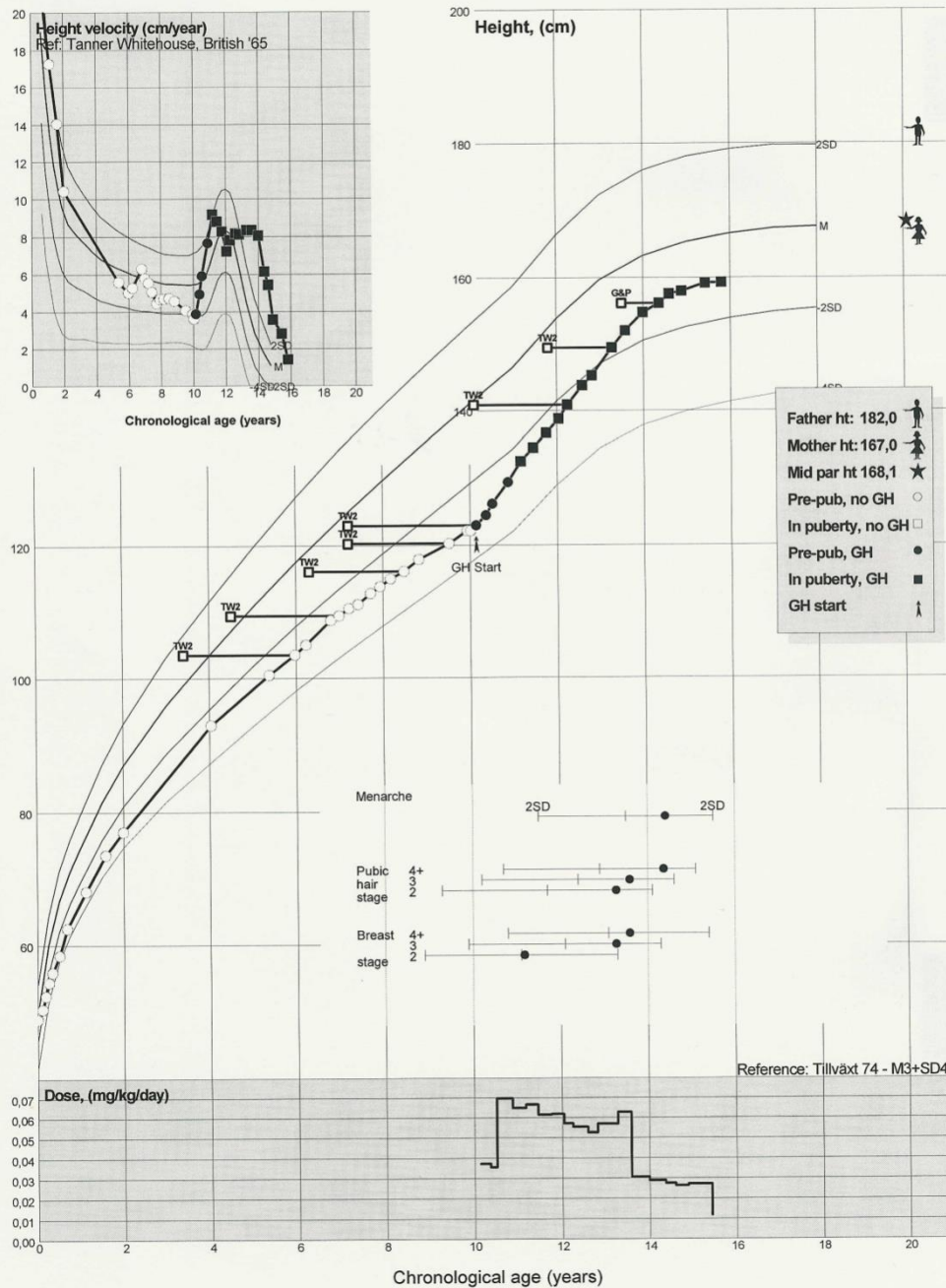
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ID: [REDACTED] Diagnosis: 3.2.1. Turner syndrome (Specify Karyotype or use KIGS)
 Sex: Female Initials: LE Turner CRF
 Birth date: 1987-12-05 KIGS no: 2259

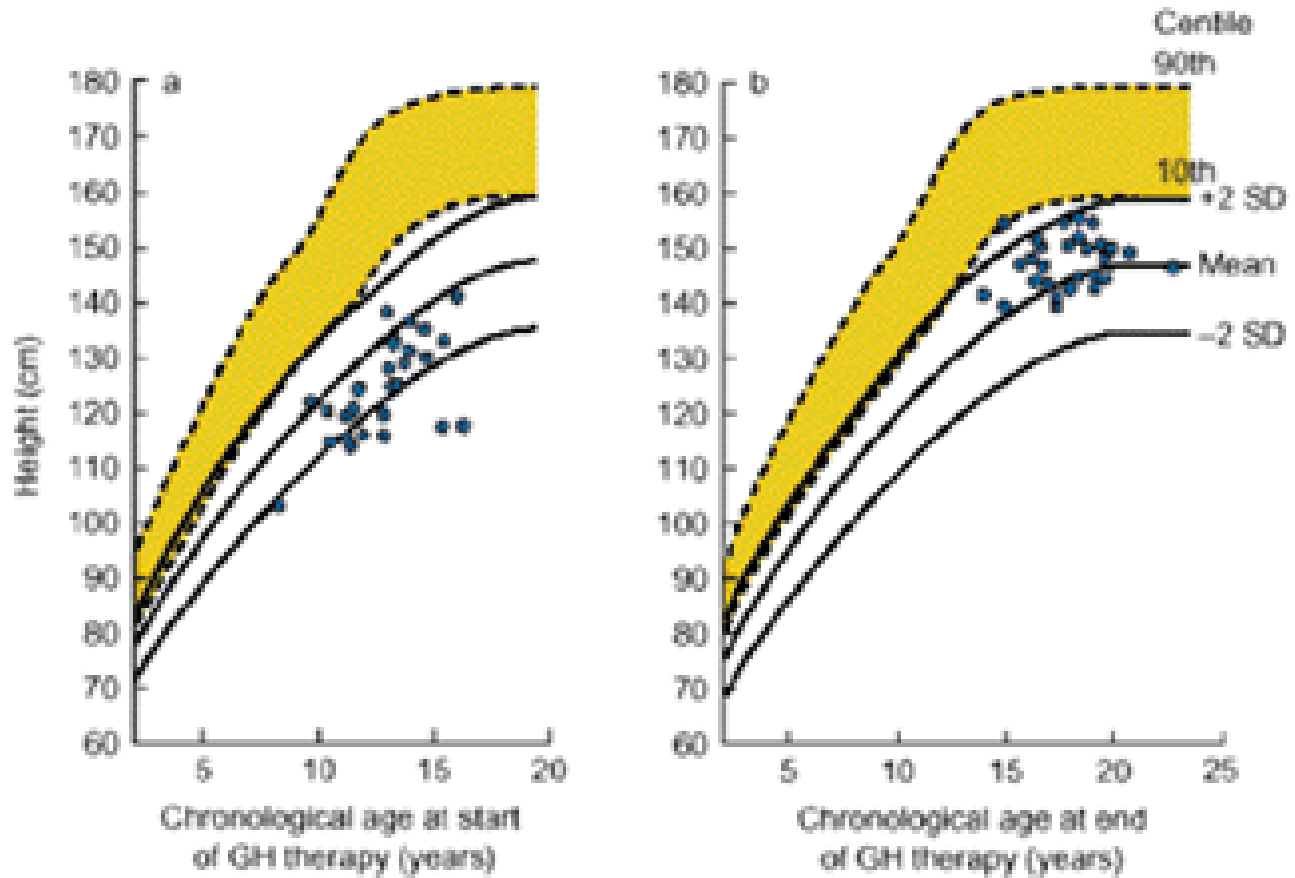


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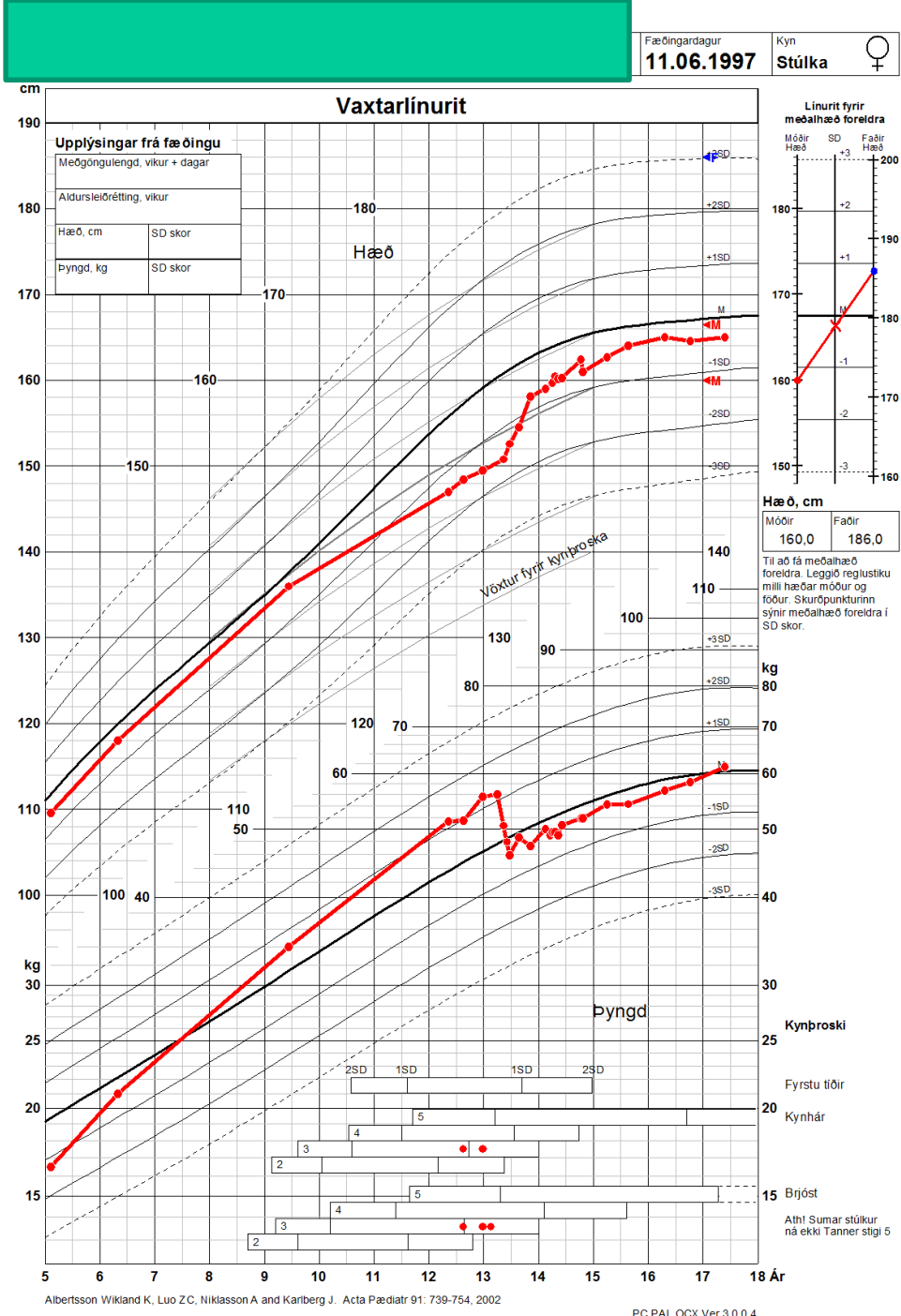


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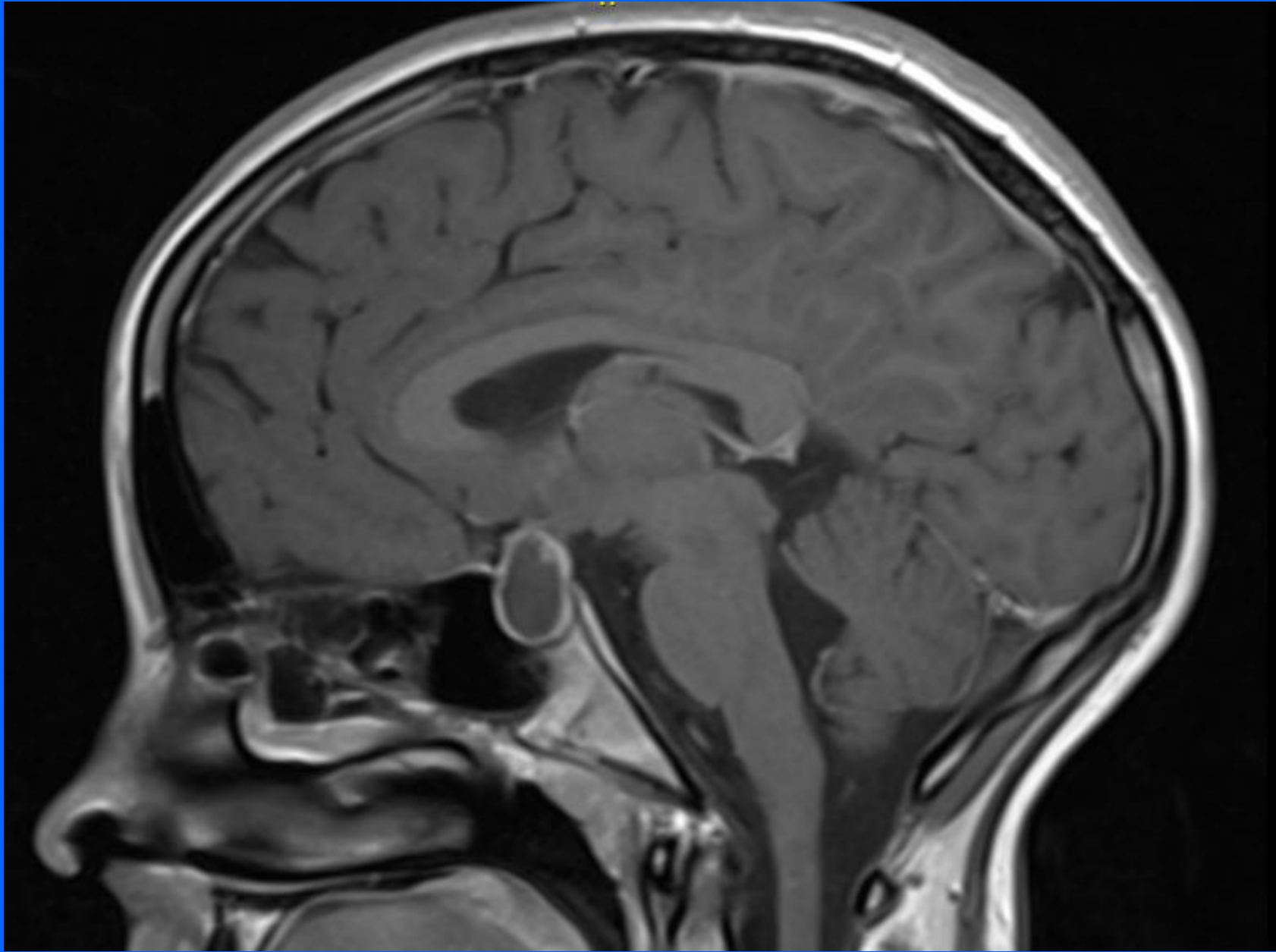
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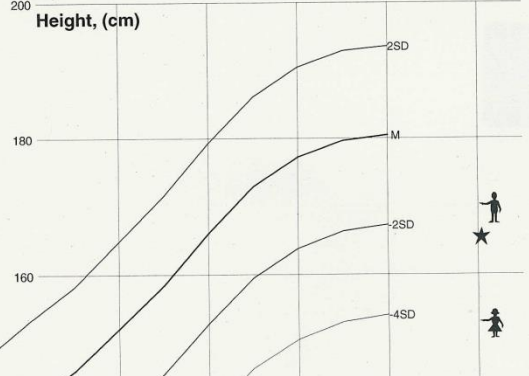
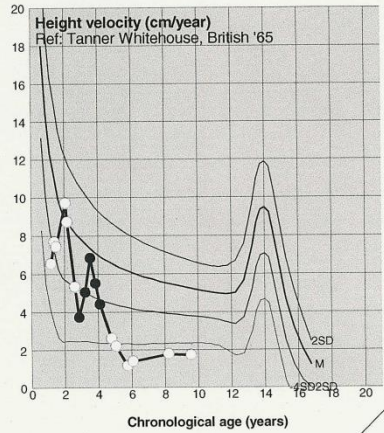




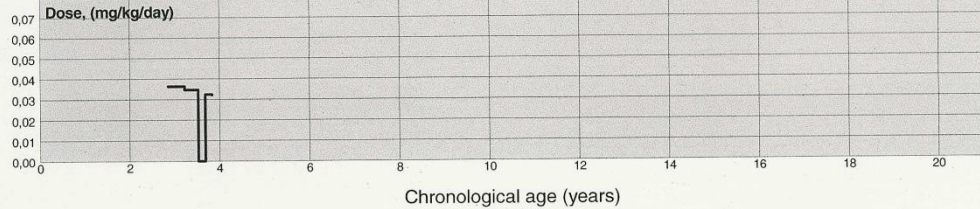
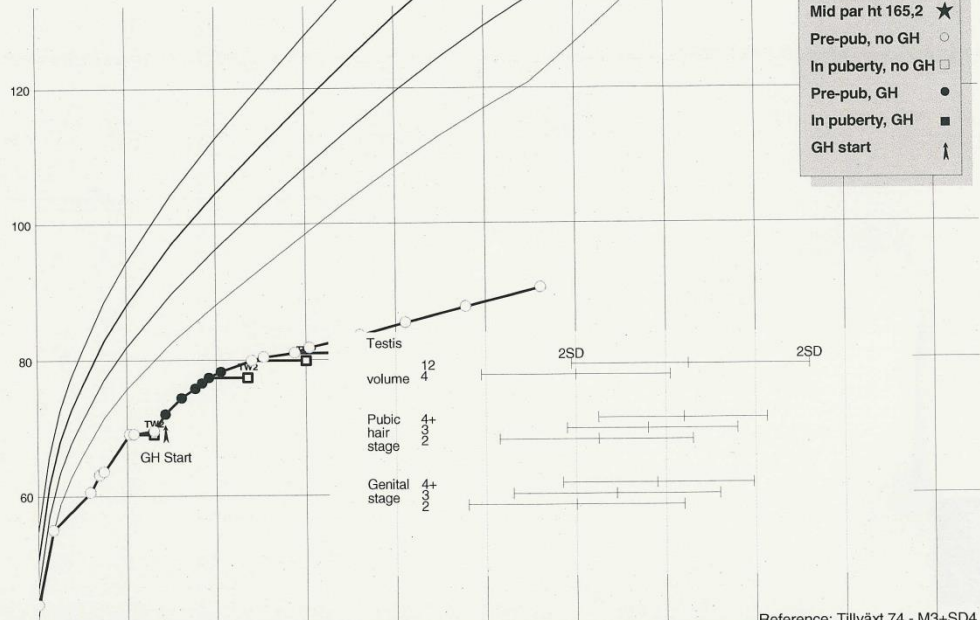
ID: [redacted] Diagnosis: 3.6.9. Skeletal dysplasia; Others (specify)

Sex: Male Initials: RB

Birth date: 1991-07-30 KIGS no: 1634



Father ht: 170,0
 Mother ht: 153,0
 Mid par ht 165,2
 Pre-pub, no GH ○
 In puberty, no GH □
 Pre-pub, GH ●
 In puberty, GH ■
 GH start ⤴

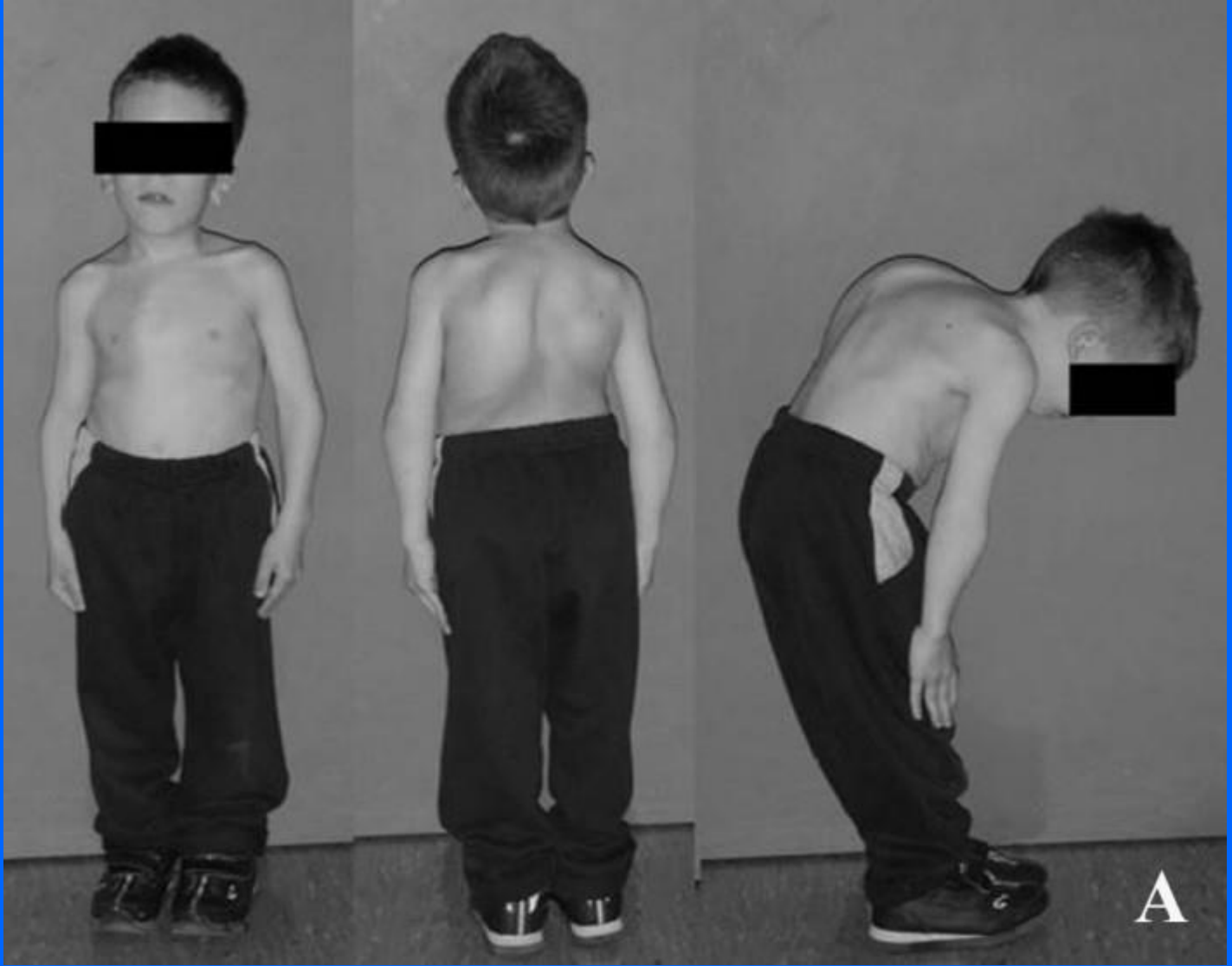


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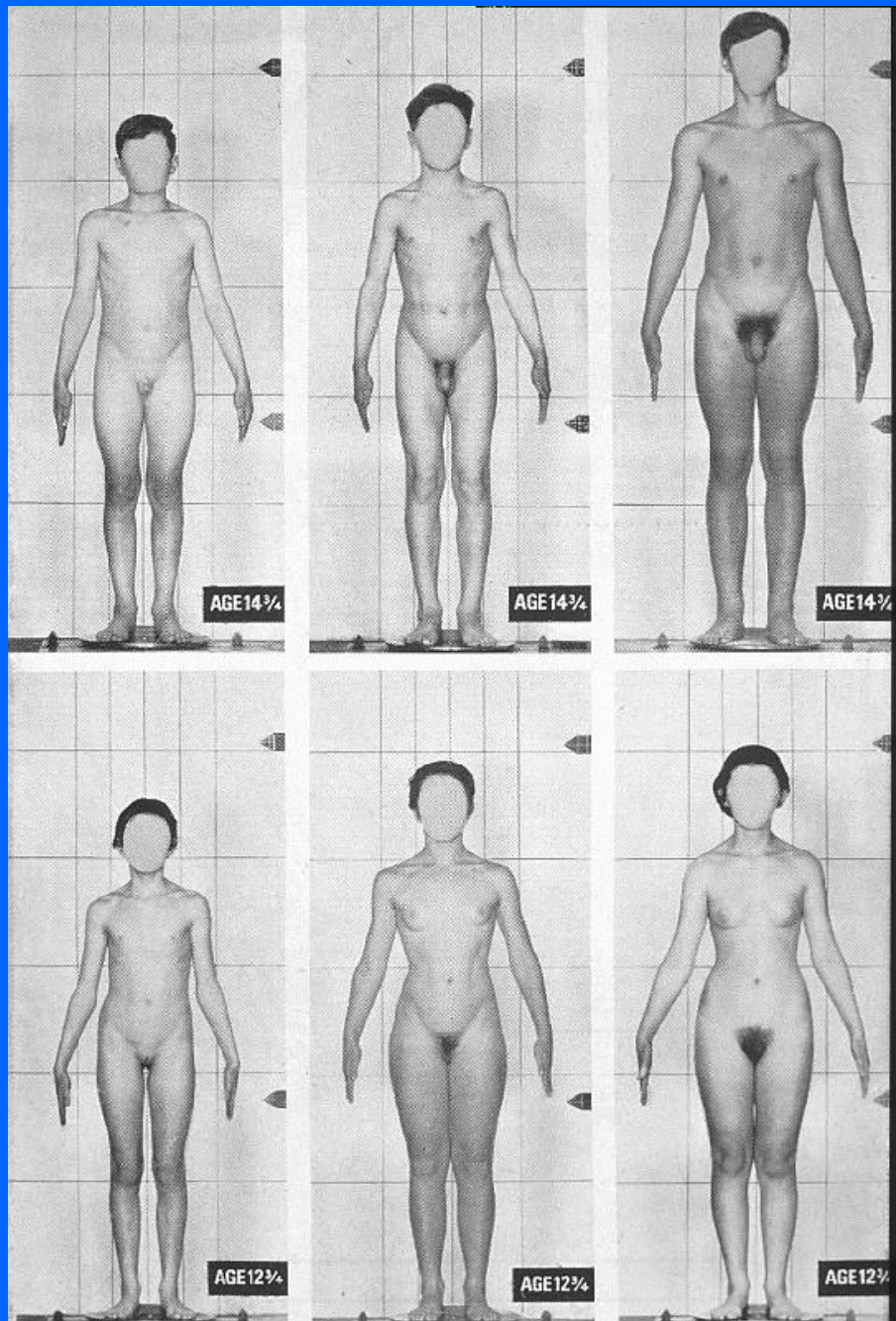


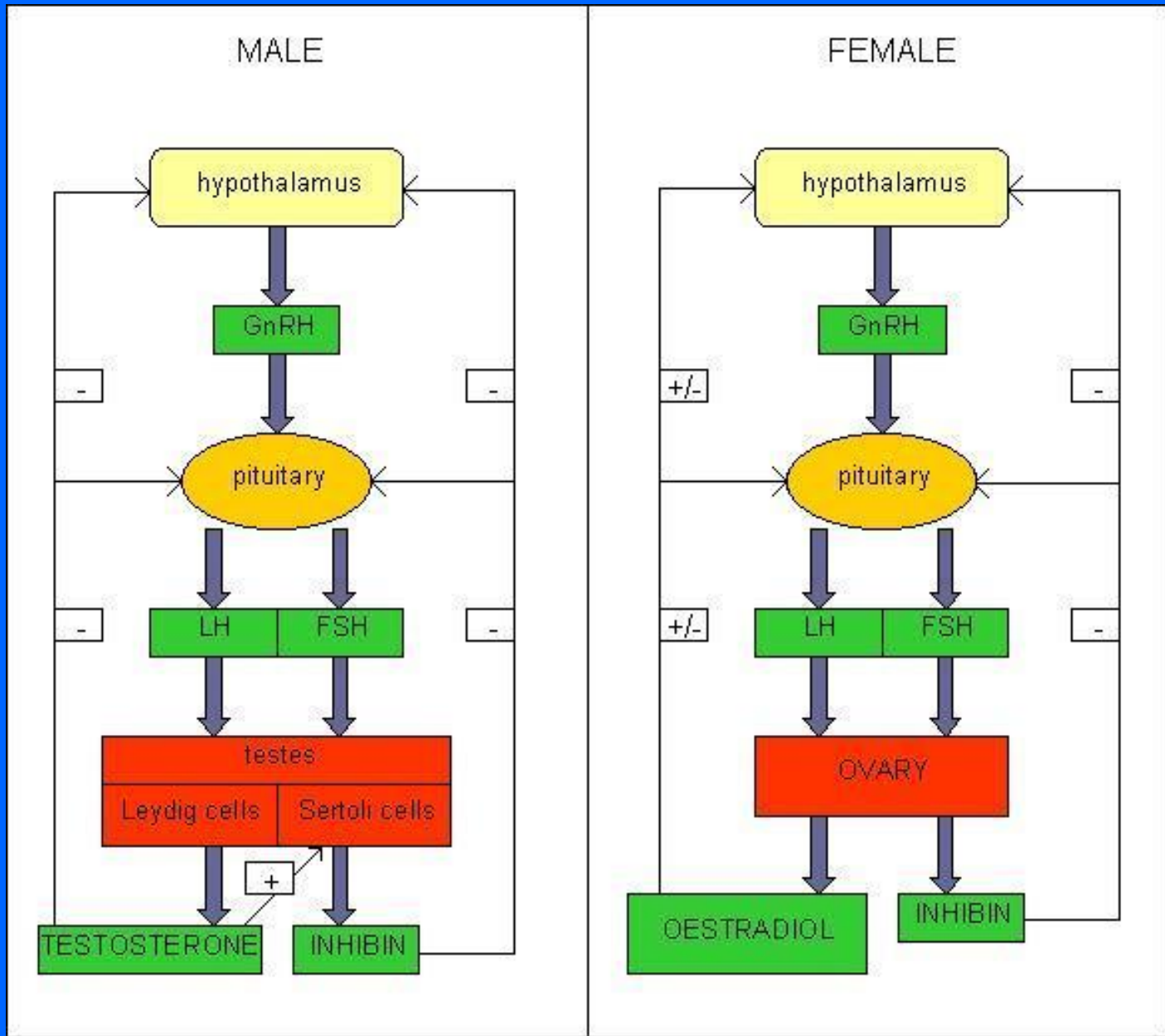
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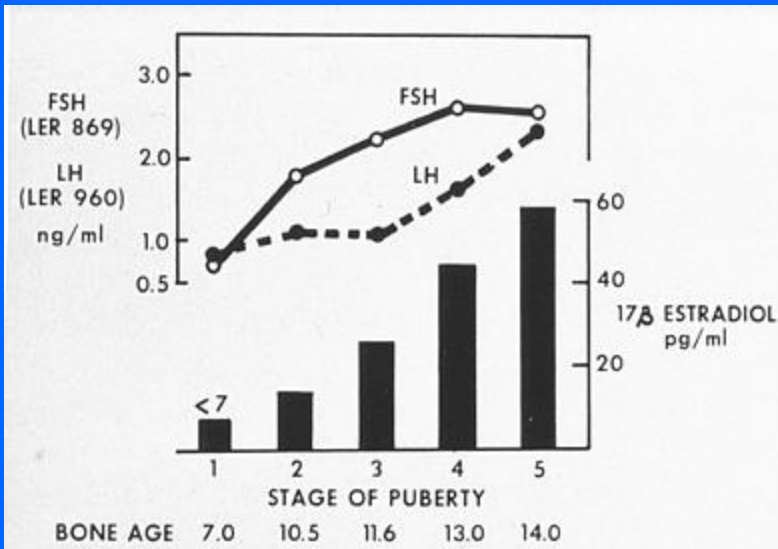


Figure 10-6. Mean plasma estradiol, FSH, and LH concentrations in prepubertal and pubertal females by pubertal stage of maturation (P₁ = prepubertal, P₅ = menstruating adolescents) and the mean bone age for each stage. (From Grumbach¹)

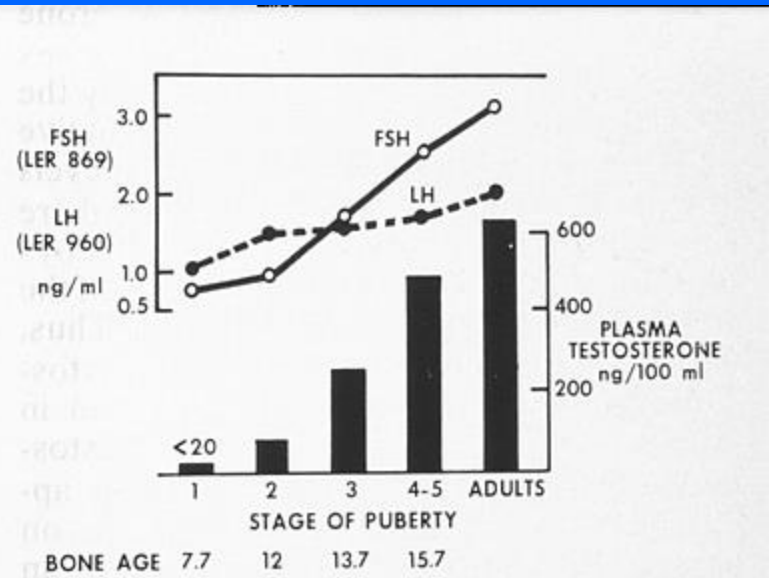
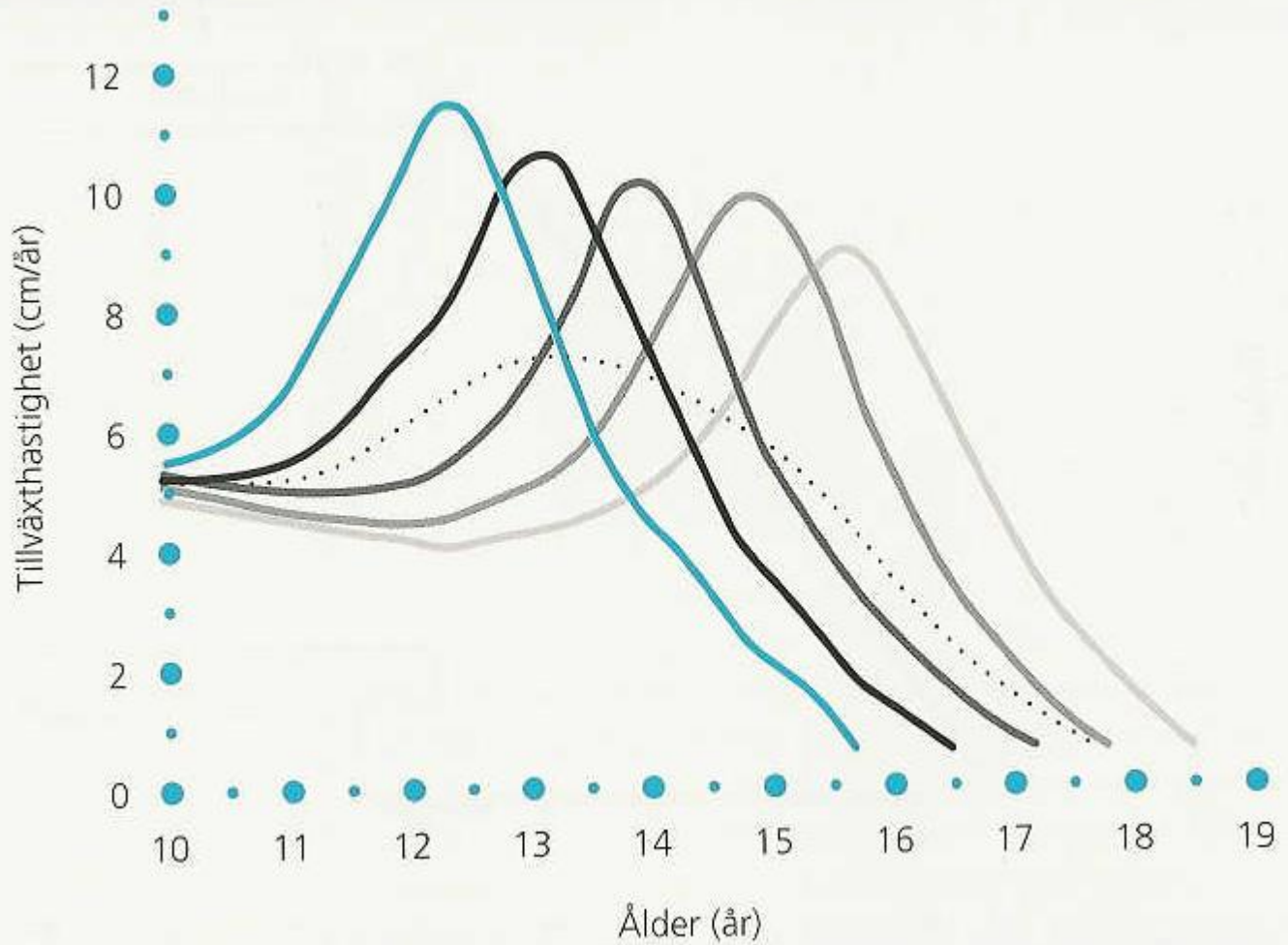


Figure 10-7. Mean plasma testosterone and gonadotropins in normal boys by stage of maturation (P₁ = prepubertal) and the mean bone age for each stage. (From Grumbach.¹)

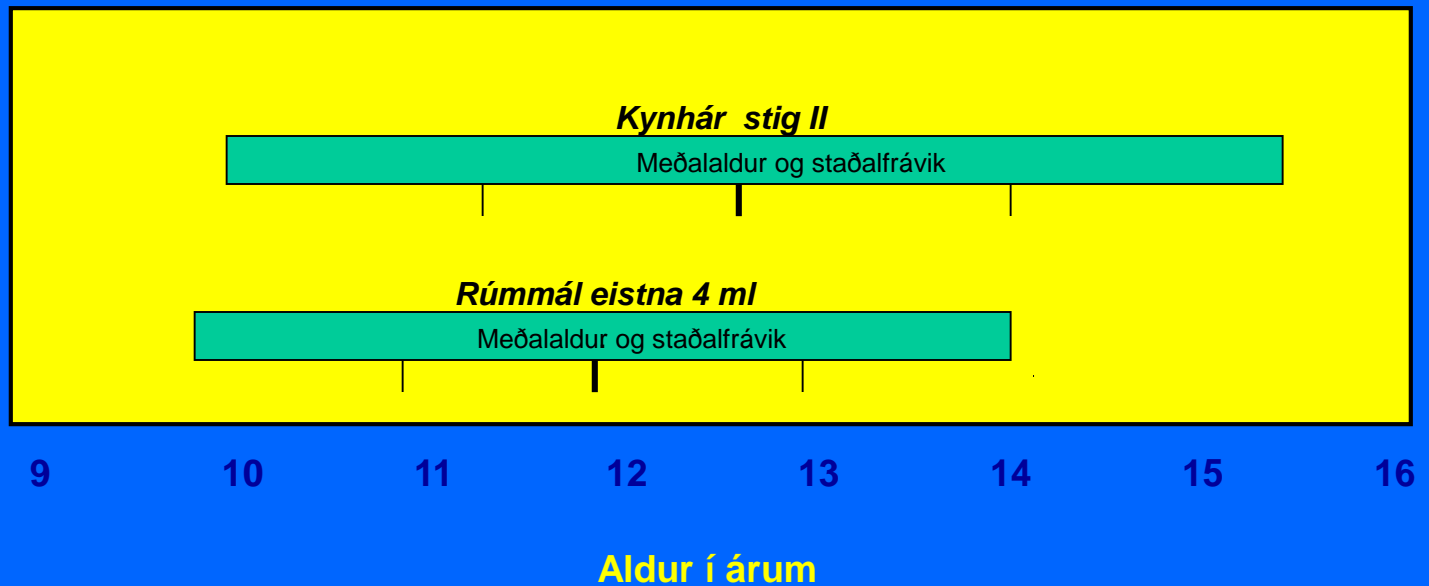


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Fyrstu einkenni kynþroska hjá íslenskum drengjum



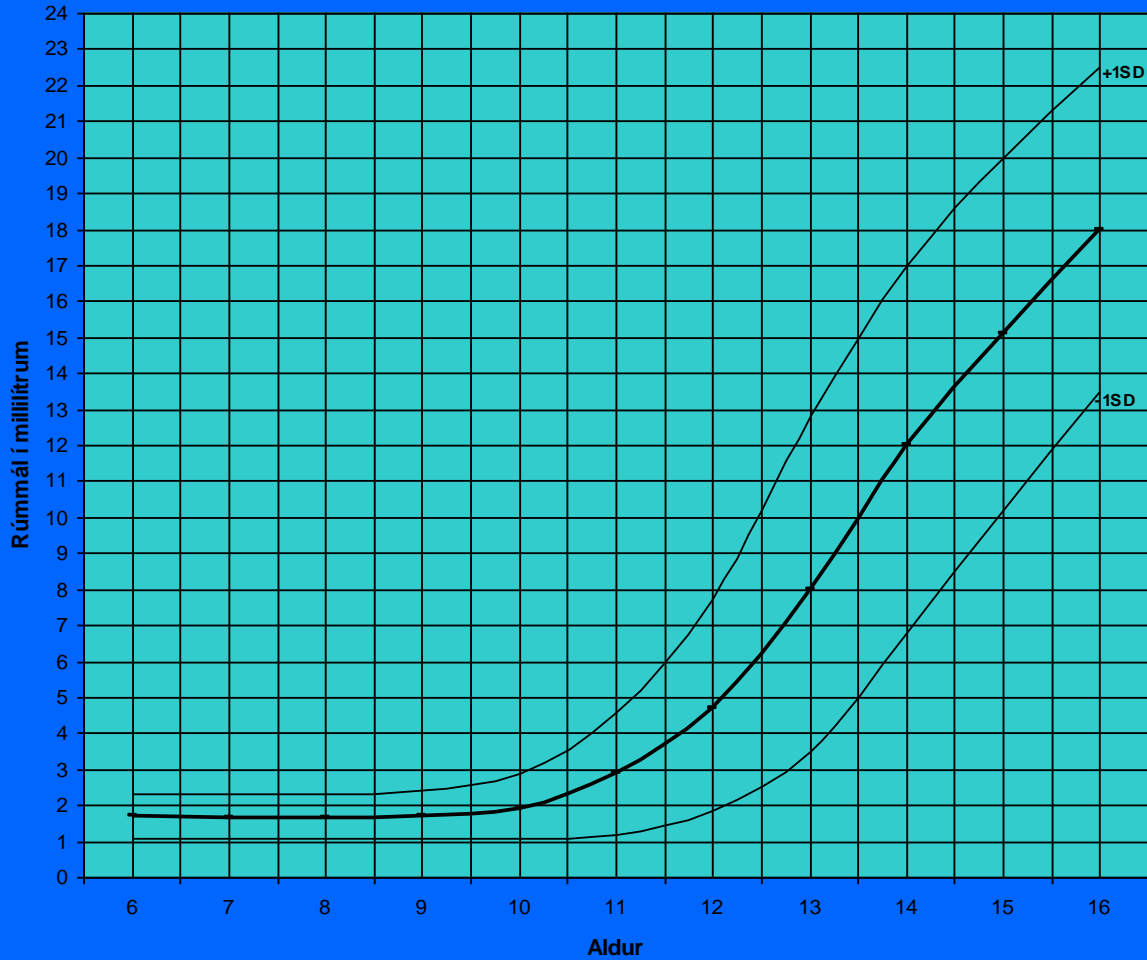
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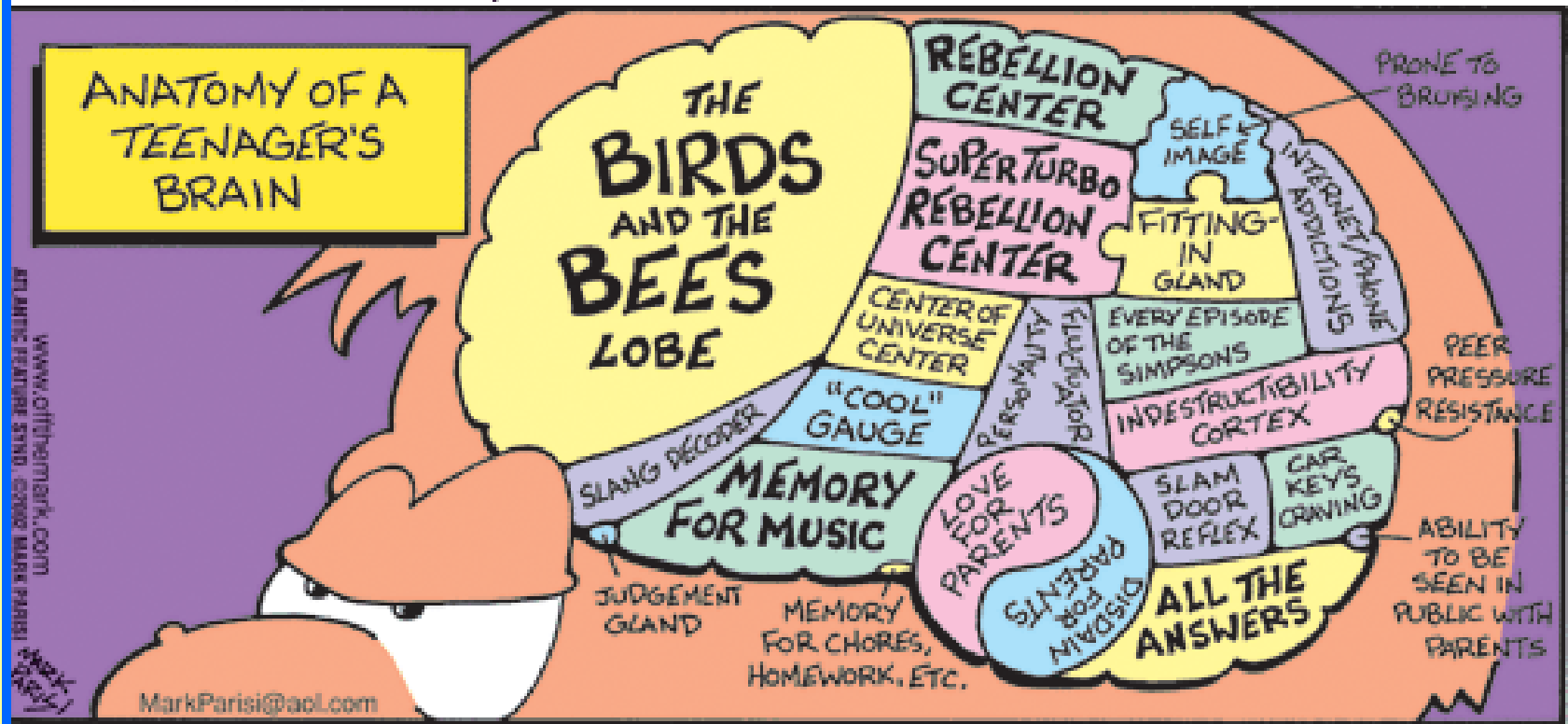


Íslenskir drengir - rúmmál eistna miðað við aldur

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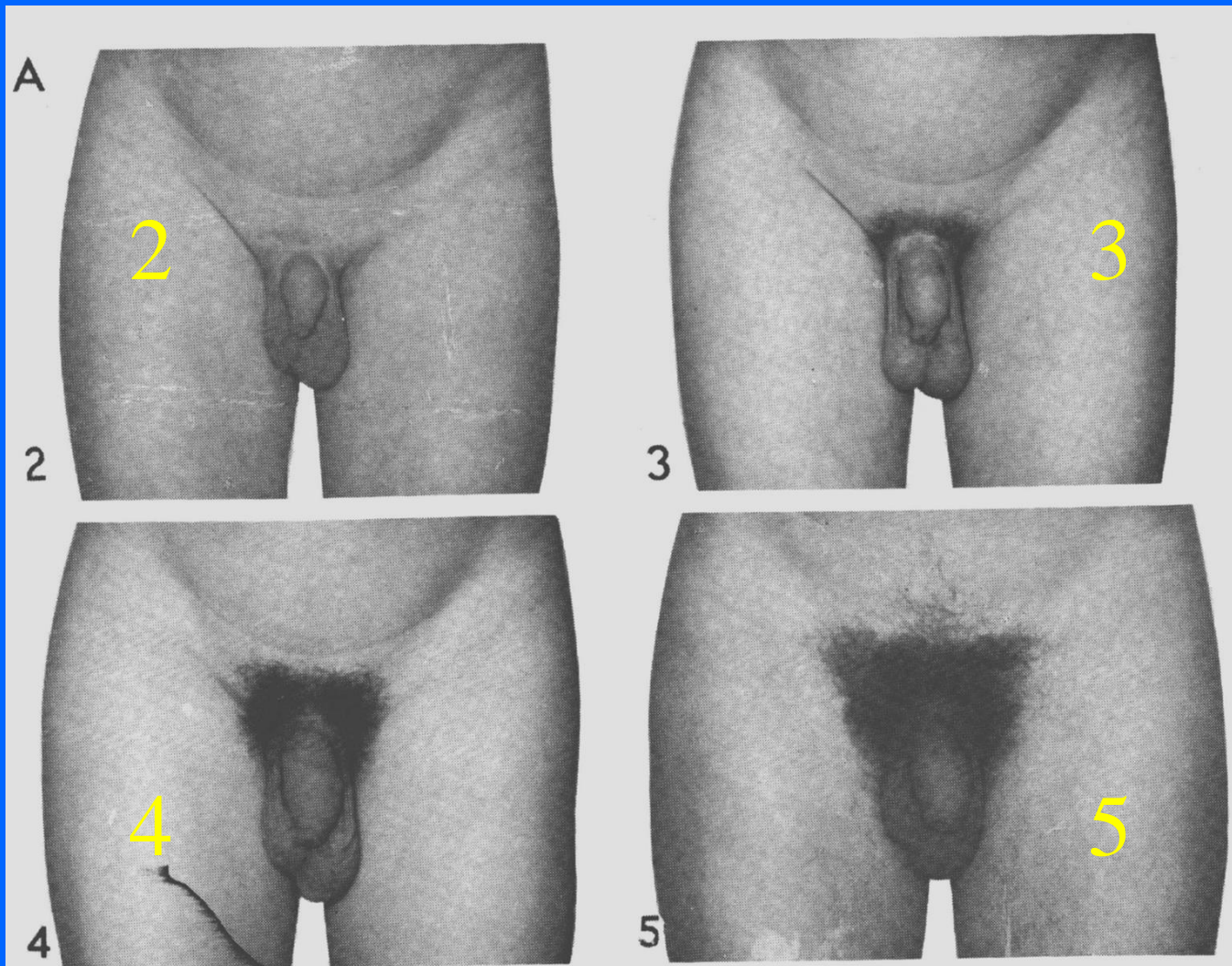


Nafn á tæknibúnaði?

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Tanner stigun

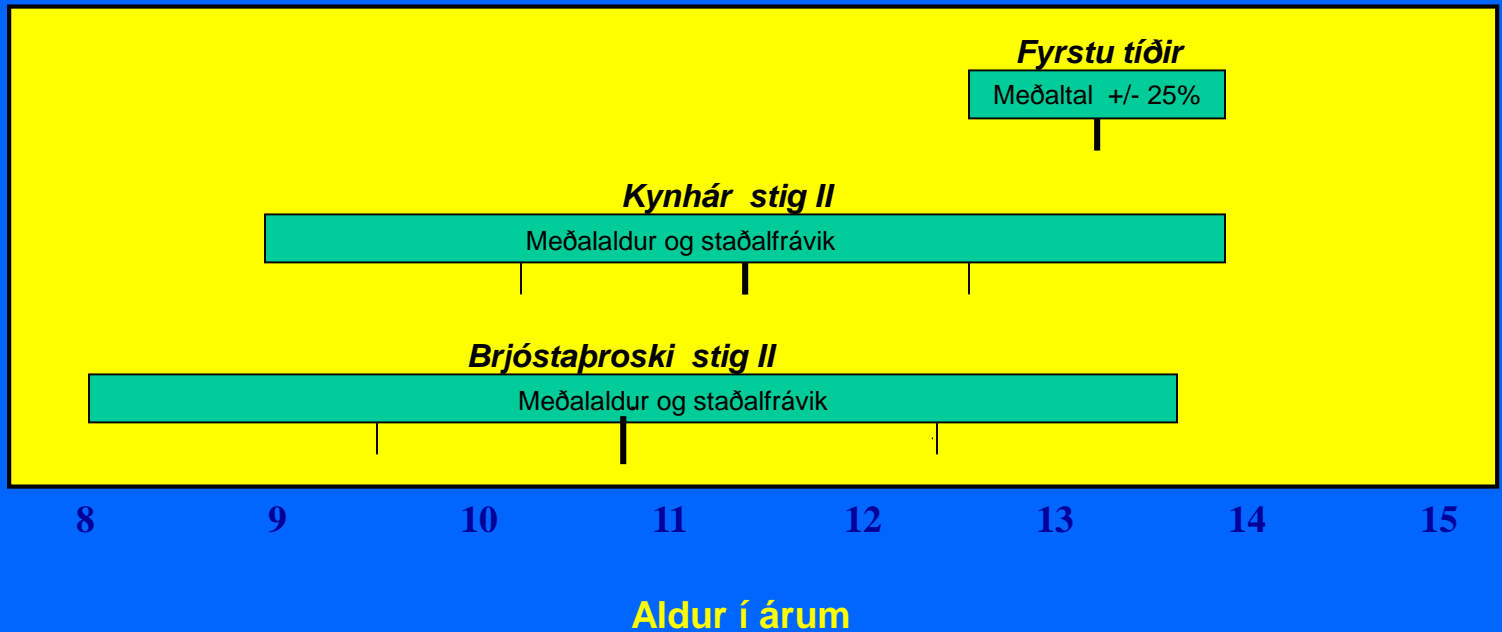


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Fyrstu einkenni kynþroska hjá íslenskum stúlkum

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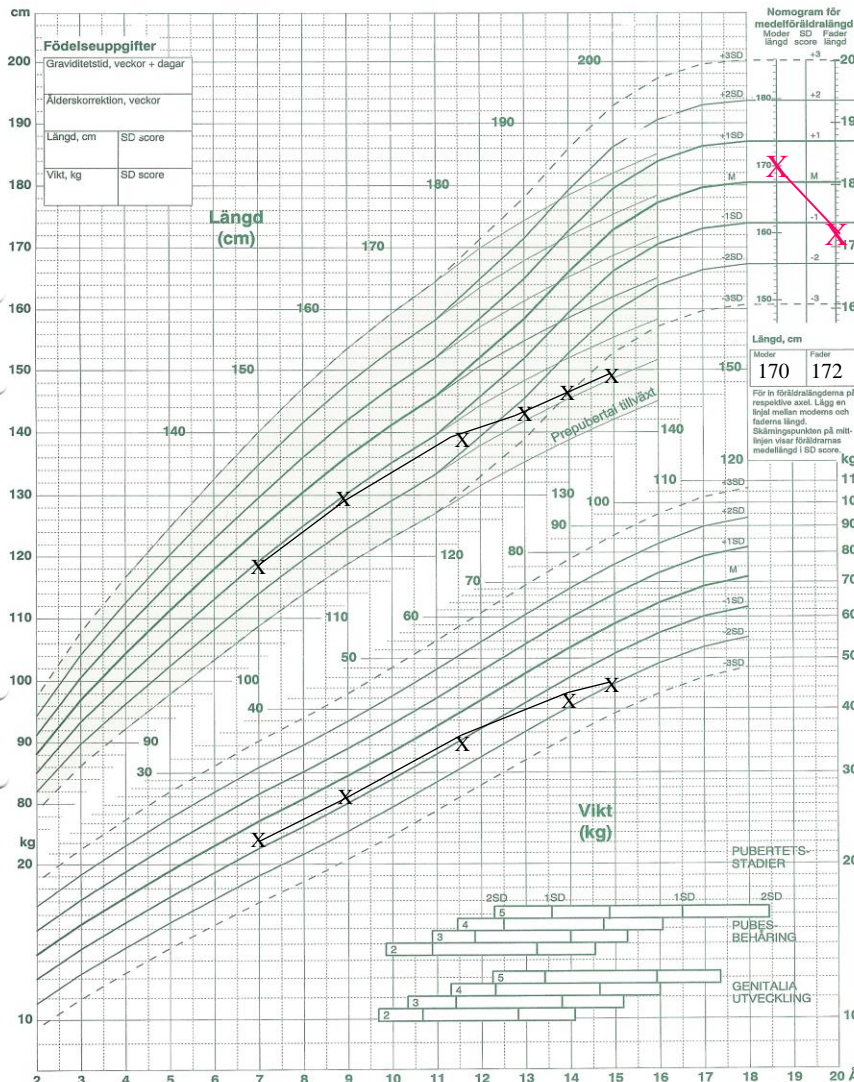


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Personnr (10/12 siffror) _____ Eftirnamm _____ Förmamm _____ Kón **Pojke** ♂

Vaxtarkúrva 3



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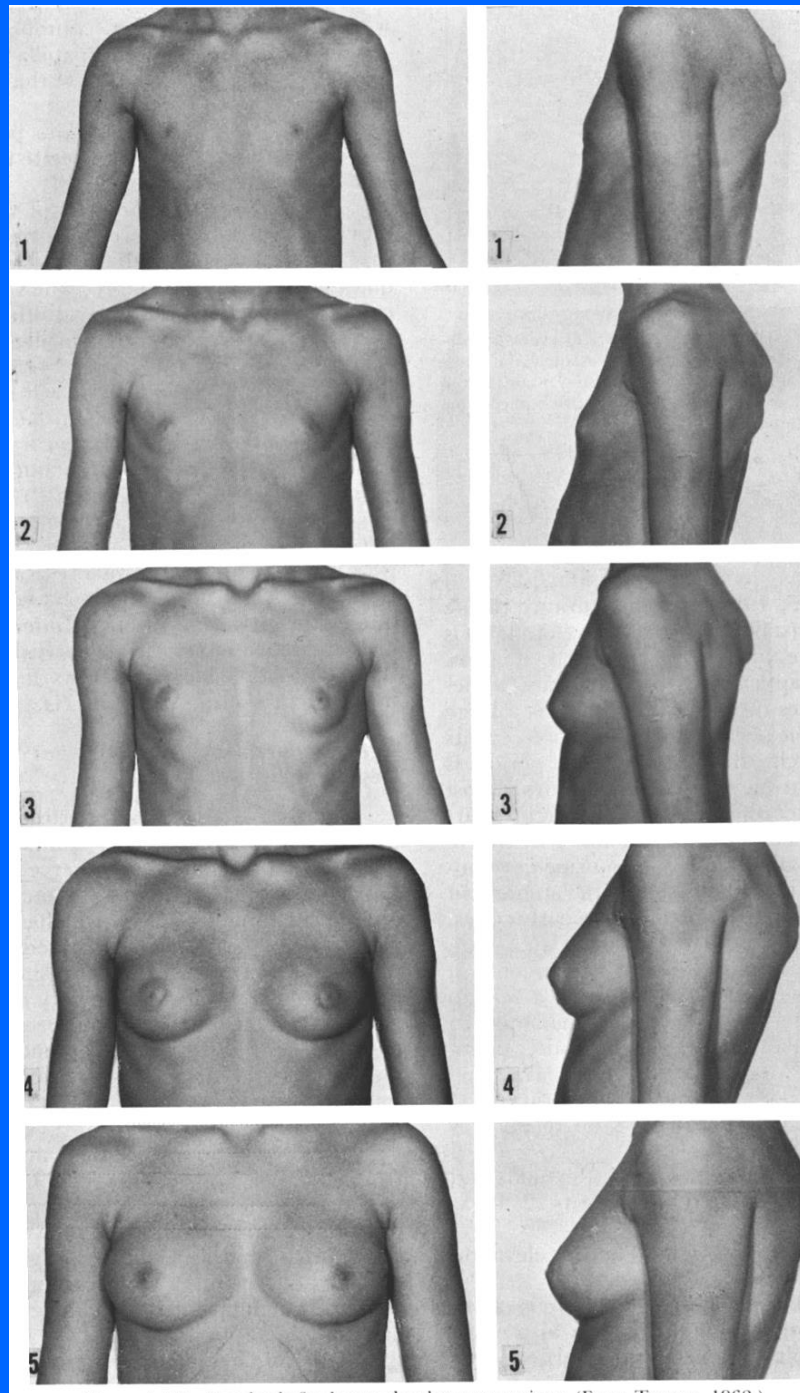
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Tanner stigun



1

2

3

4

5





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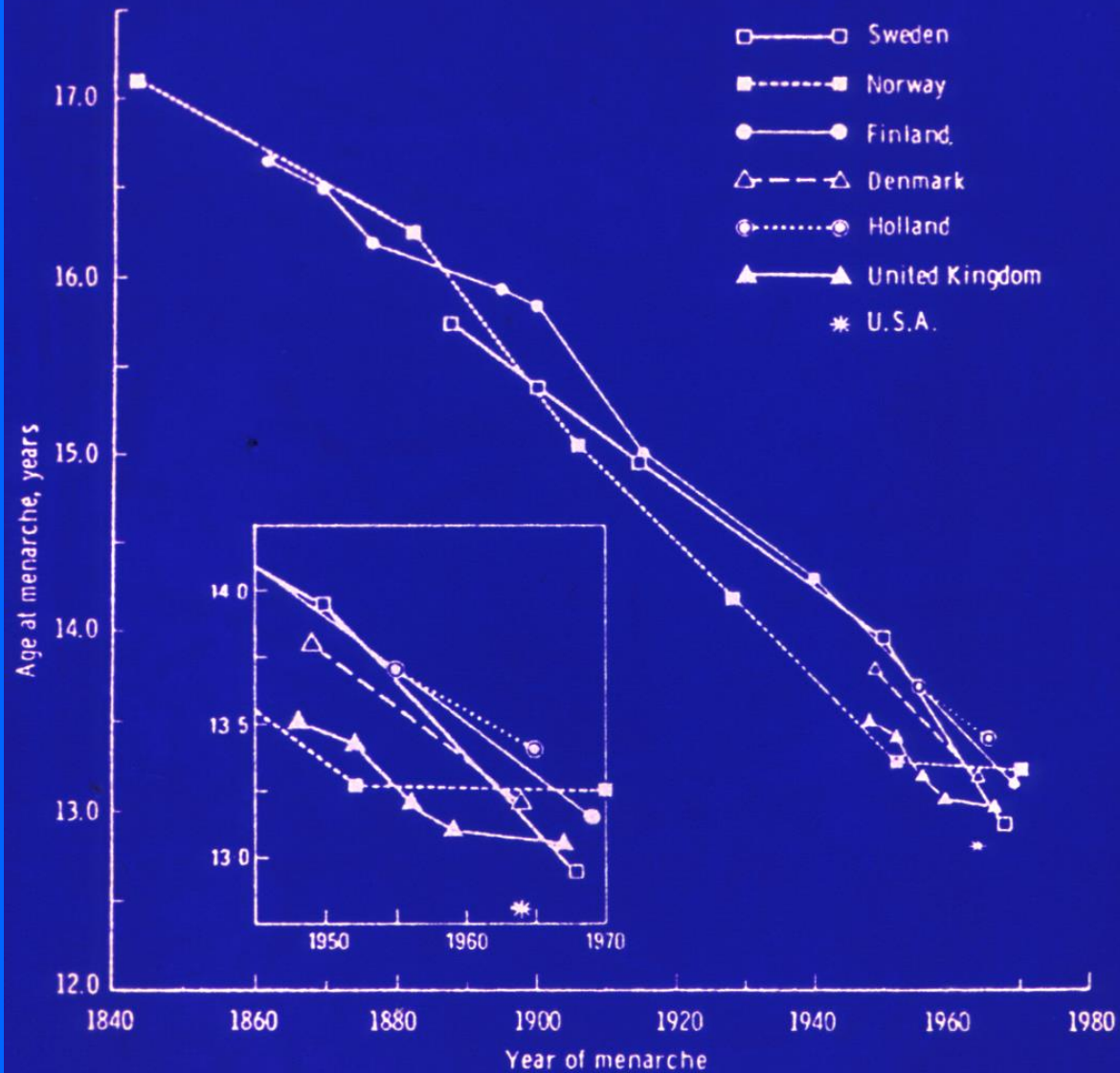


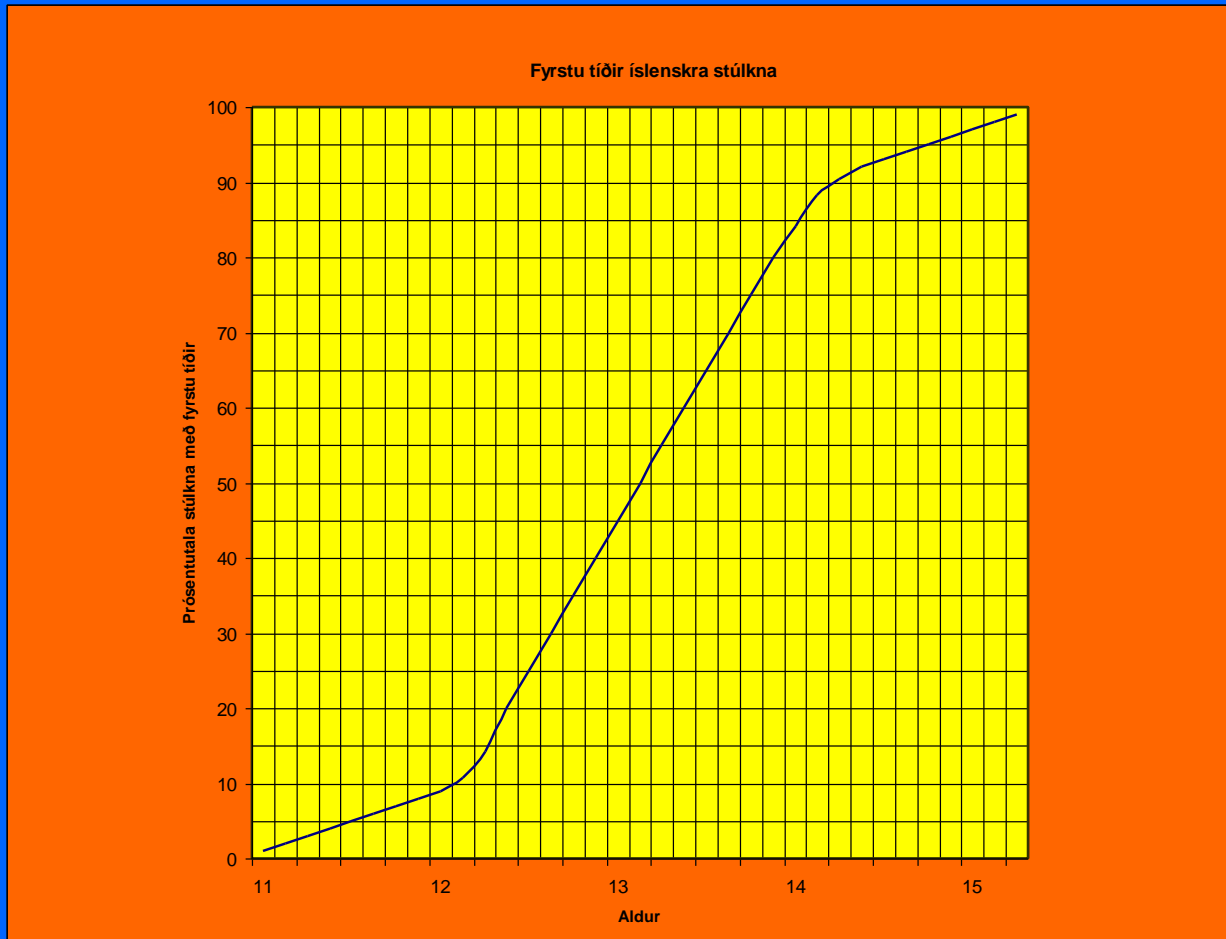
Figure 1-34 Secular trend in age at menarche 1840-1970. (From Tanner, 1973.) For sources of data, see Tanner (1962, 1966, 1973).





Íslenskar stúlkur - menarche

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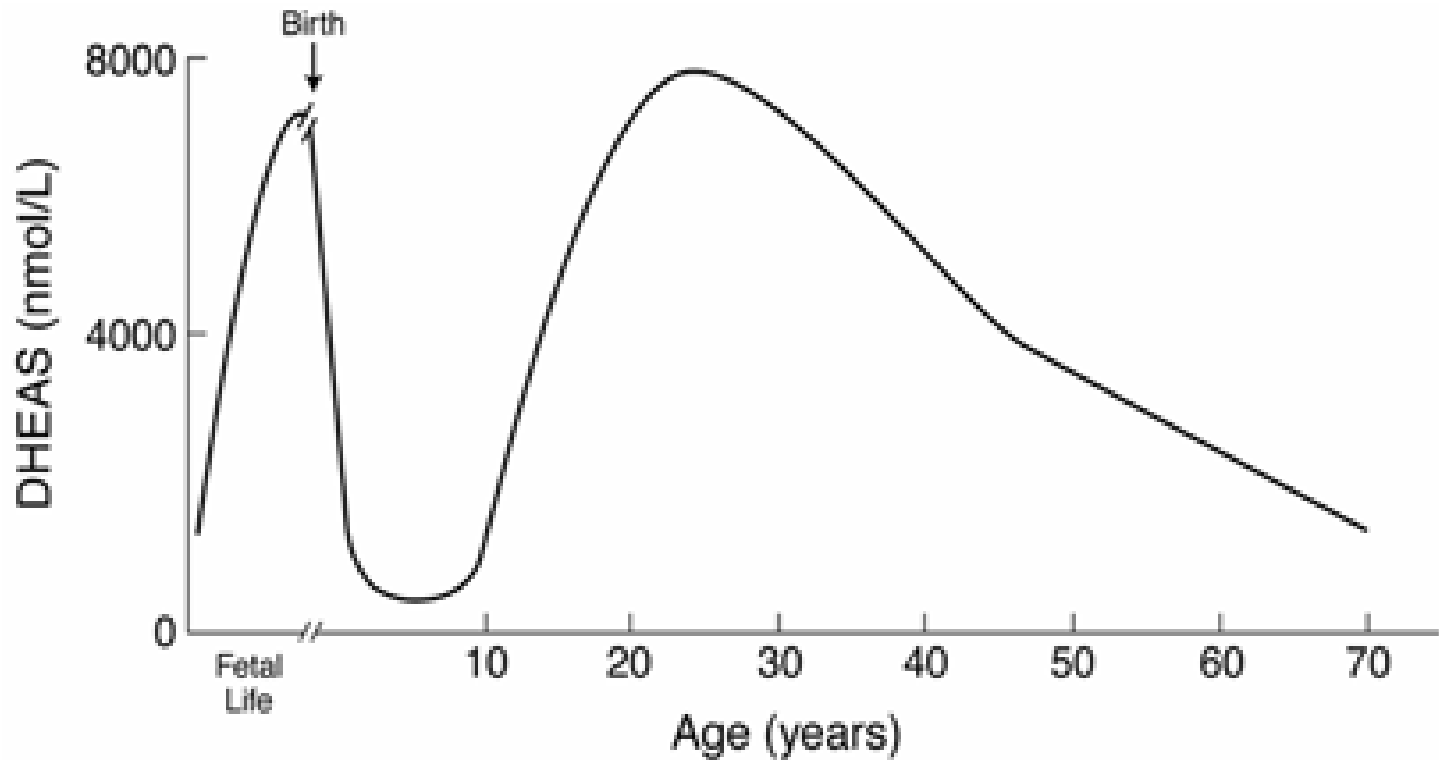




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Figure 3. Circulating levels of DHEA-sulfate during human aging



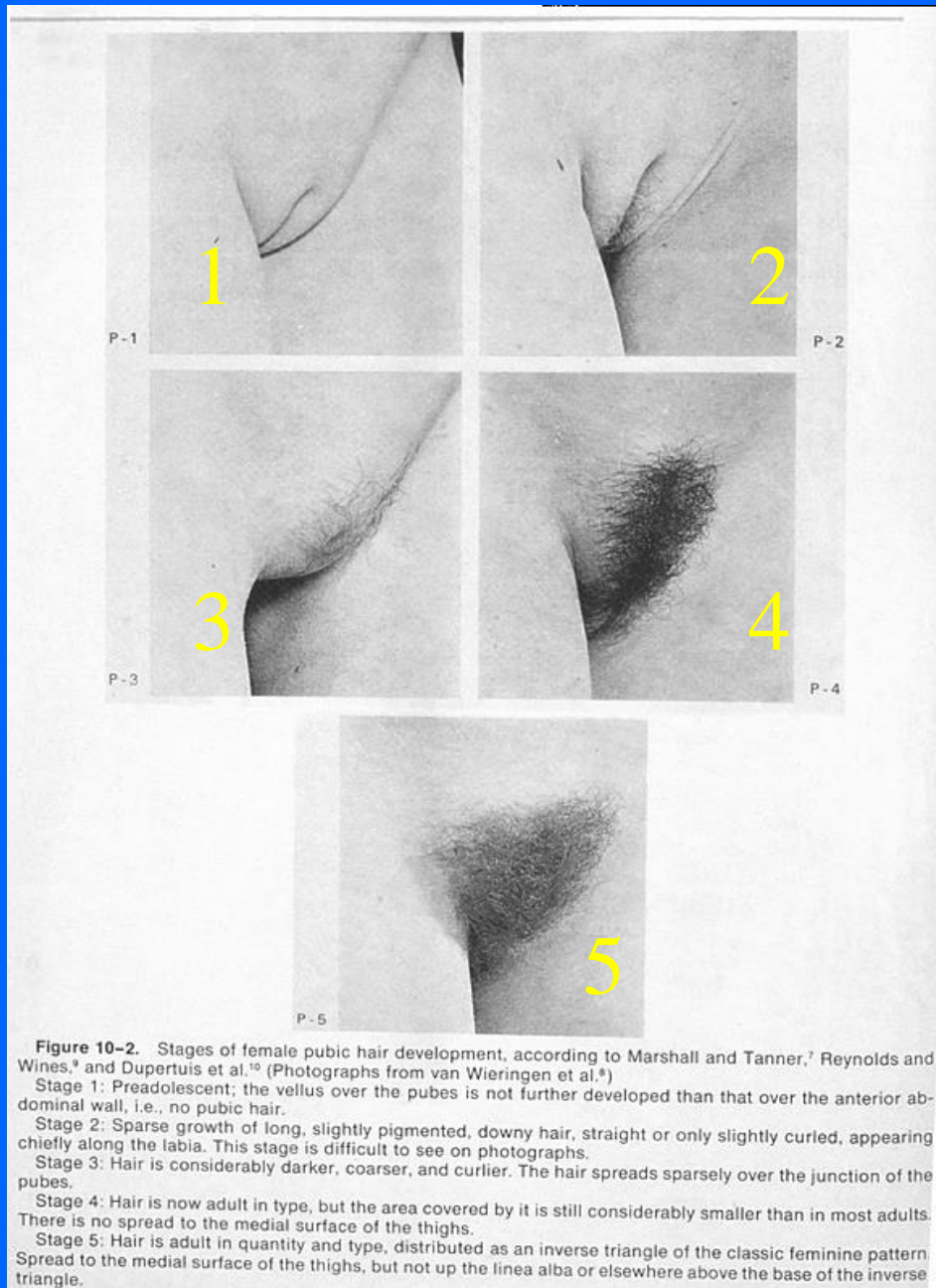


Figure 10-2. Stages of female pubic hair development, according to Marshall and Tanner,⁷ Reynolds and Wines,⁹ and Dupertuis et al.¹⁰ (Photographs from van Wieringen et al.⁸)

Stage 1: Preadolescent; the vellus over the pubes is not further developed than that over the anterior abdominal wall, i.e., no pubic hair.

Stage 2: Sparse growth of long, slightly pigmented, downy hair, straight or only slightly curled, appearing chiefly along the labia. This stage is difficult to see on photographs.

Stage 3: Hair is considerably darker, coarser, and curlier. The hair spreads sparsely over the junction of the pubes.

Stage 4: Hair is now adult in type, but the area covered by it is still considerably smaller than in most adults. There is no spread to the medial surface of the thighs.

Stage 5: Hair is adult in quantity and type, distributed as an inverse triangle of the classic feminine pattern. Spread to the medial surface of the thighs, but not up the linea alba or elsewhere above the base of the inverse triangle.

Tanner stigun



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CHILDREN'S WORLD MAP

