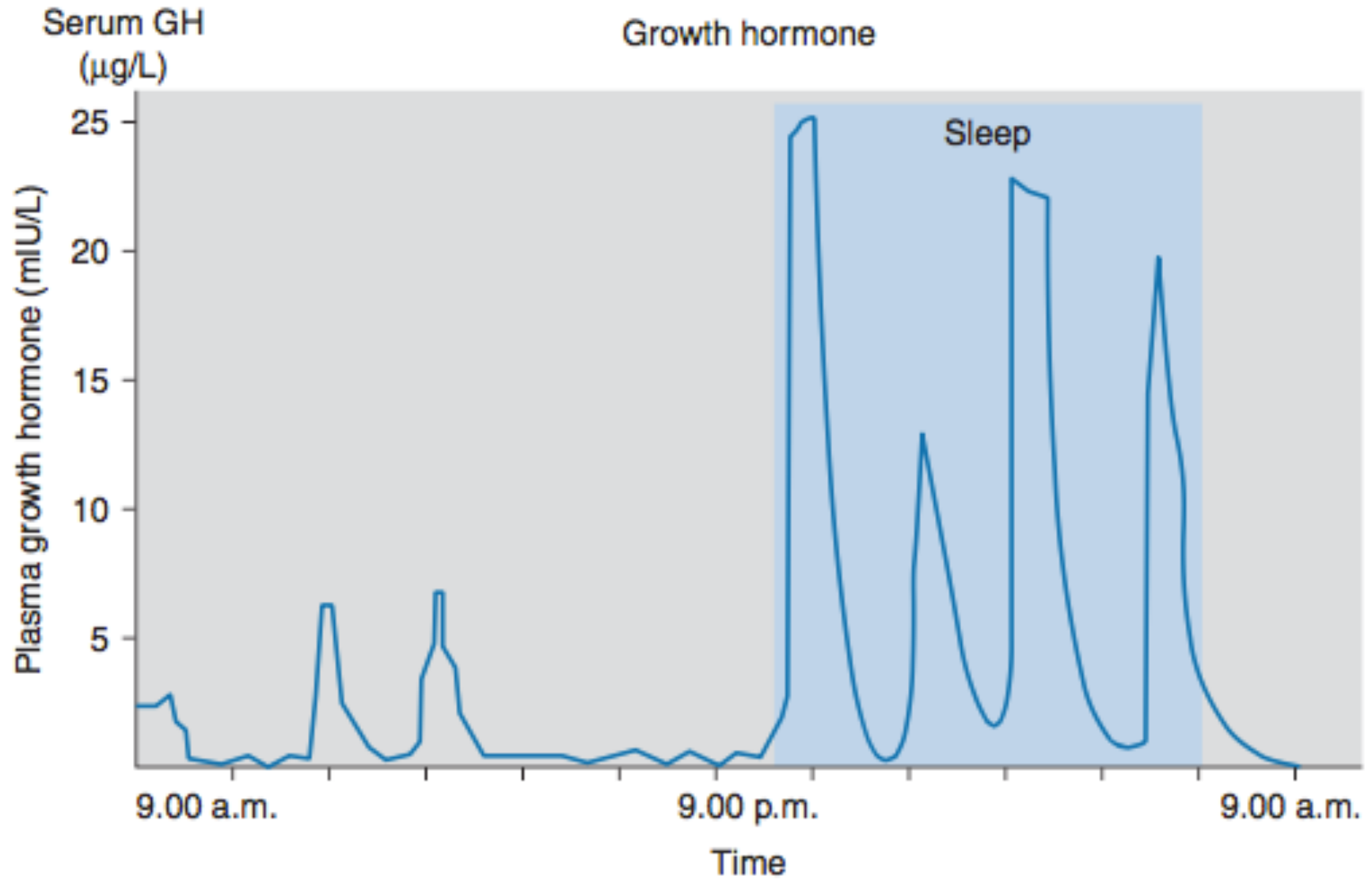


GH



CUM
?

DIRECTE

lipoliza

transport AA intratisular

gluconeogeneza

crestere cartilaje

mediate IGF1

Proteina sintetizata HEPACTIC

formare osoasa

sinteza proteica

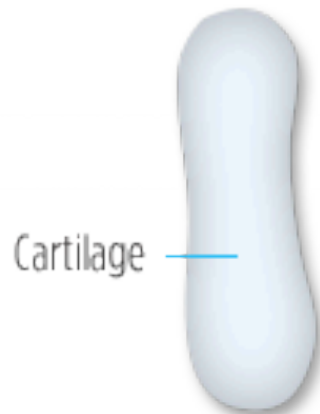
uptake glucoza muscular

supravietuire neuronală

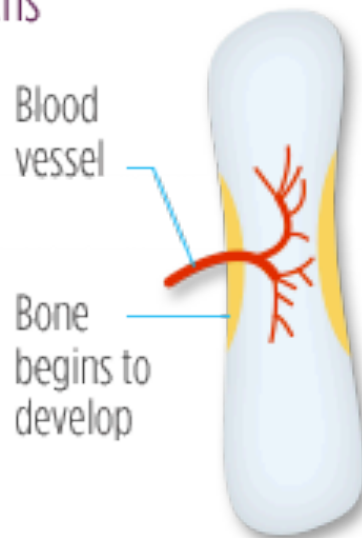
sinteza mielina

inhiba degradarea proteica

Fetus:
First 2 months

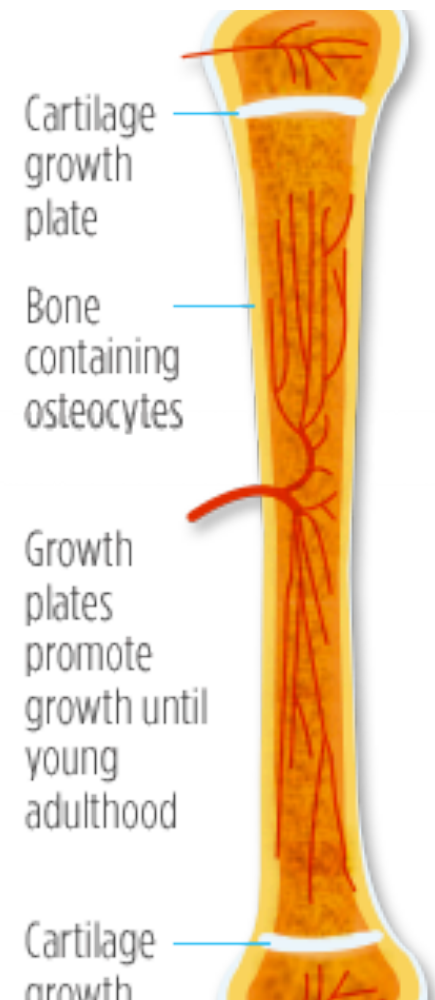
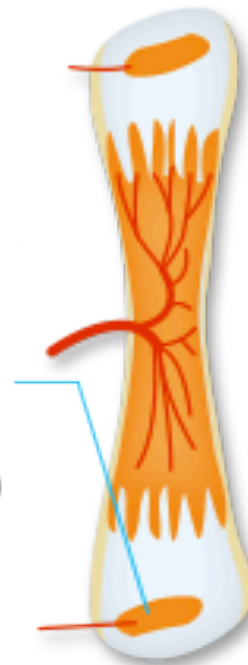


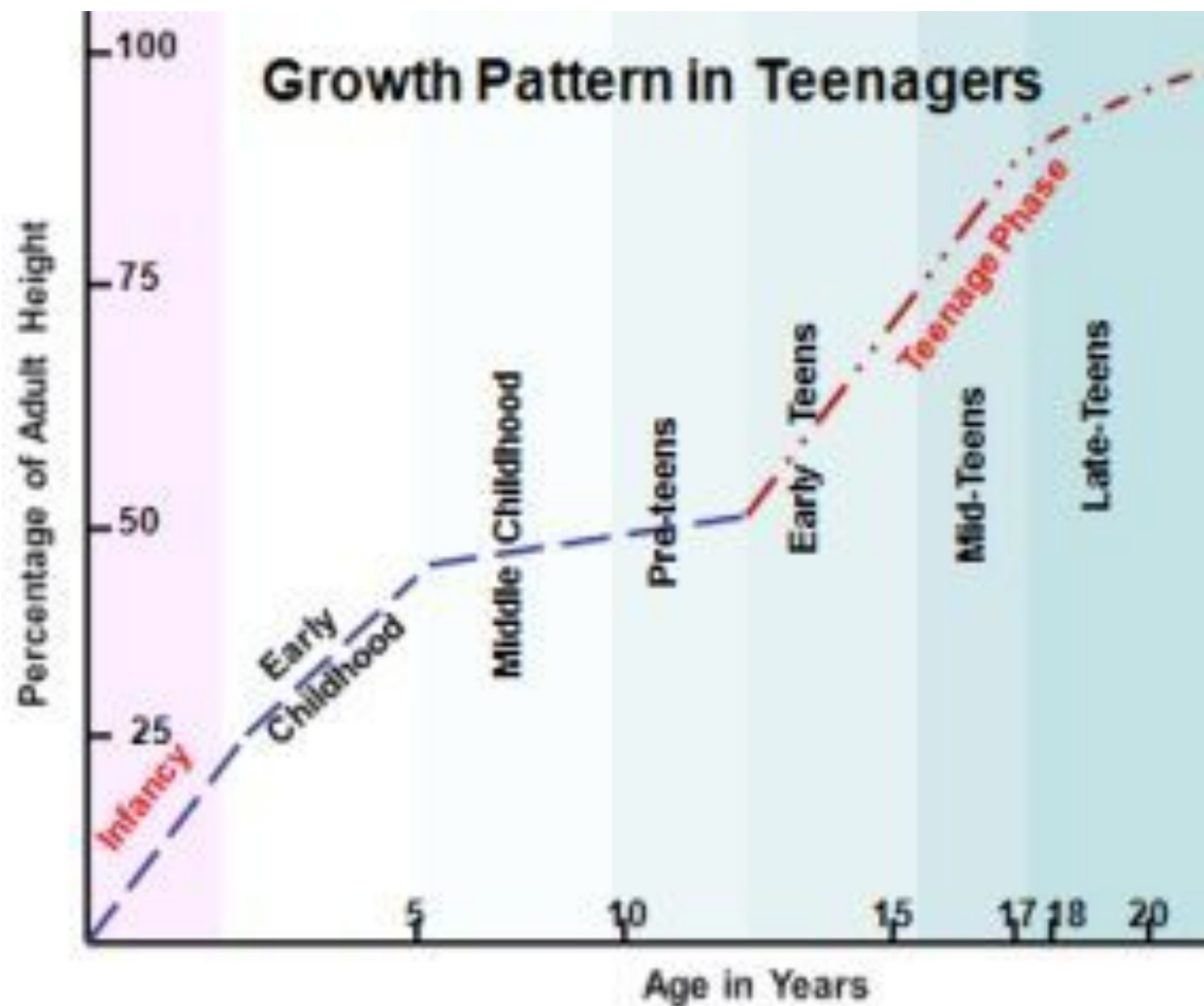
Fetus:
At 2-3 months



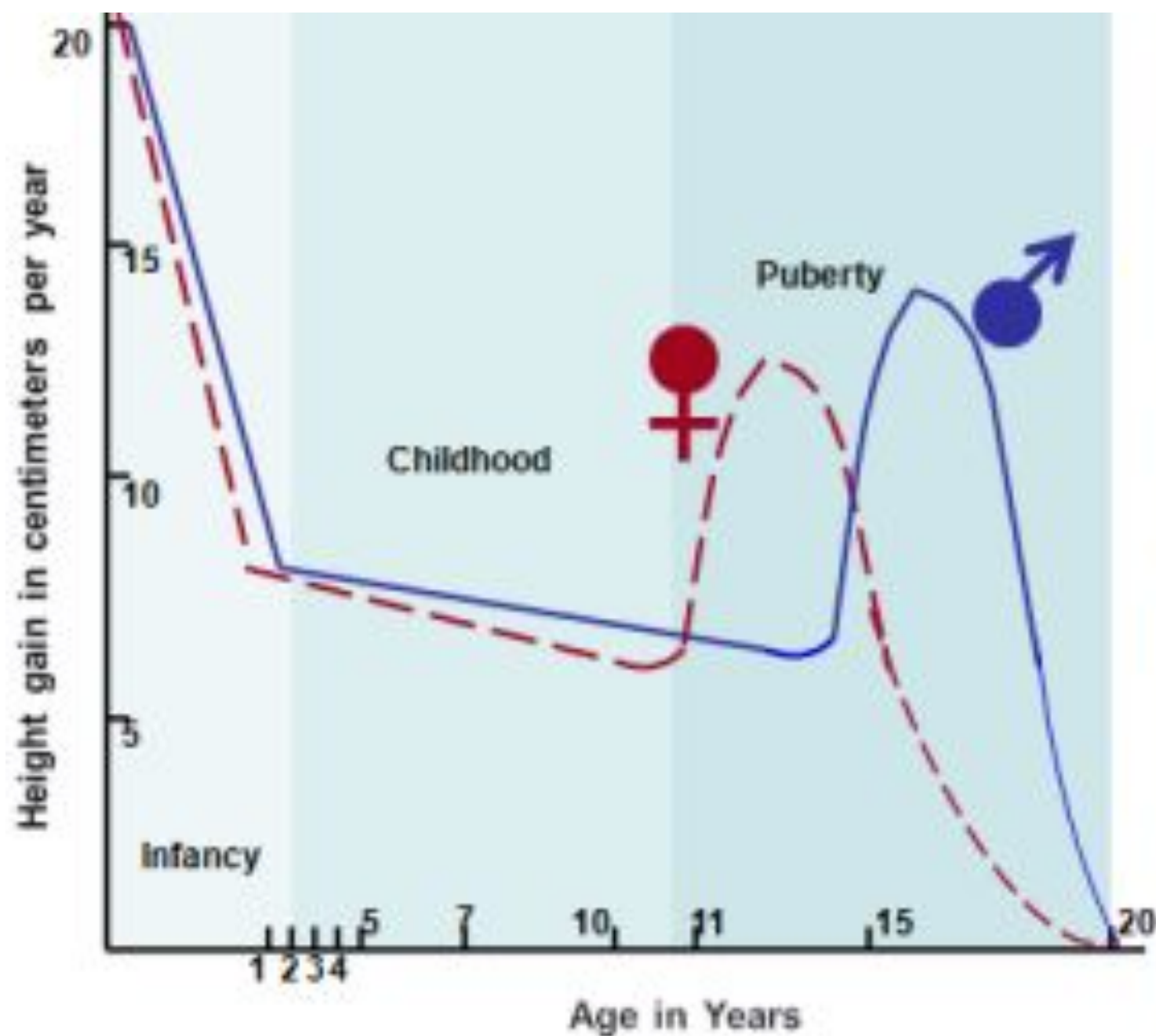
Childhood

More cartilage begins to turn to bone

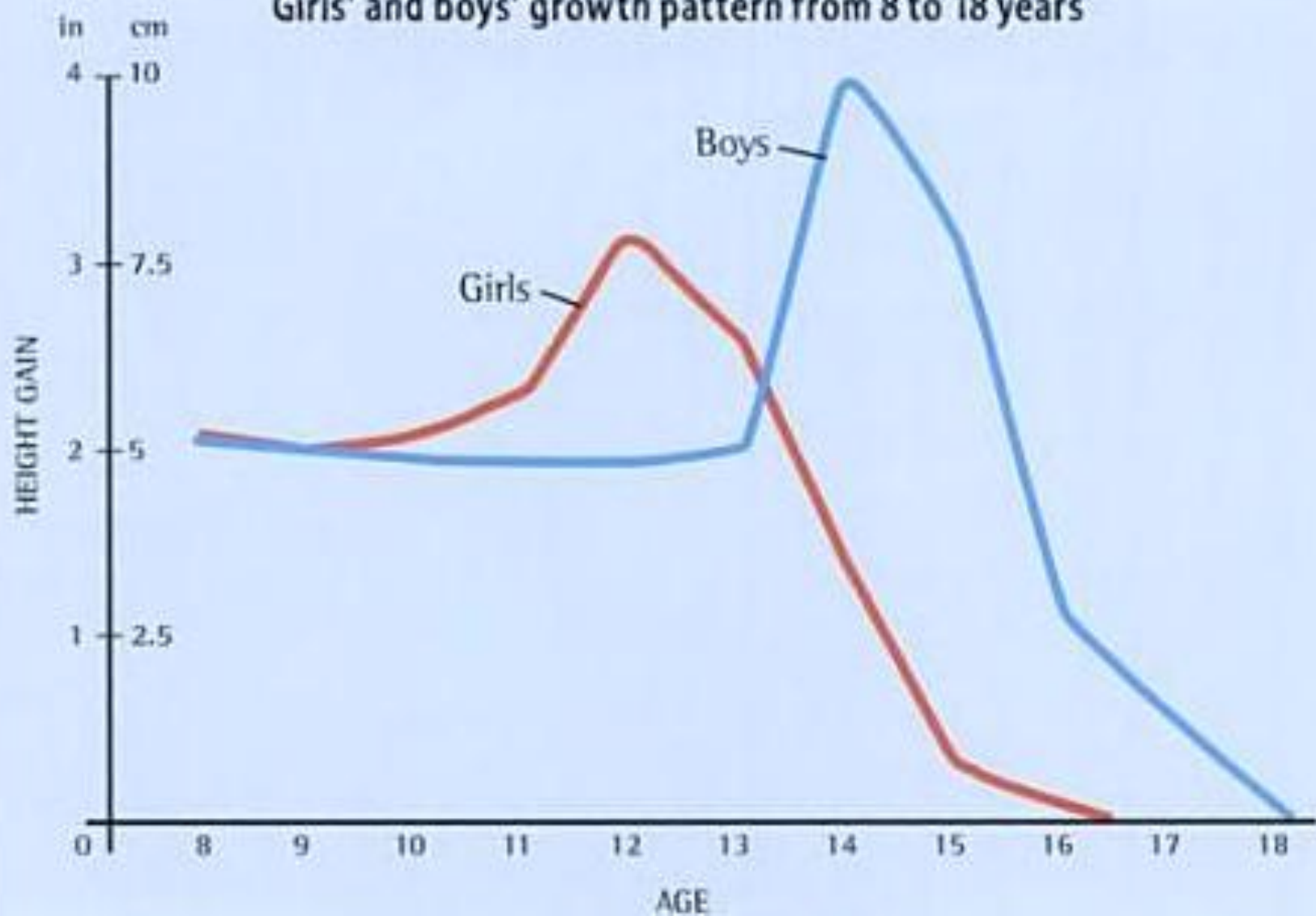




Normal Growth Velocity Pattern of Childhood




Girls' and boys' growth pattern from 8 to 18 years



HIPERSOMATOTROPIA = Exces de GH

- Adenom hipofizar
- Proliferare celule acidofile mutante (GH±PRL)
= Mutatie somatica prot G – avantaj proliferativ
- HIPERSECRETIE de GH → IGF1
- 100% macroadenoame (diametru de > 1 cm)
- 86-130/1 milion persoane

EXCES DE GH

- Secretie crescuta de GH
- Cresterea amplitudinii + pulsurilor GH **ALEATORII**
- Alterarea controlului dinamic
- Raspuns anormal la teste de **INHIBITIE**
- Sinteza anormala  de IGF

Billy Crystal



STORY BY
JIM KAMEN
SCREENPLAY BY
JOHN KAMEN
DIRECTED BY
JIM KAMEN
CASTING BY
JIM KAMEN
COSTUME DESIGNER
JIM KAMEN
EDITED BY
JIM KAMEN
PRODUCTION DESIGNER
JIM KAMEN
EXECUTIVE PRODUCERS
JIM KAMEN
PRODUCED BY
JIM KAMEN
A UNITED ARTISTS FILM

A
comedy
of incredible
proportions.

My
GIANT

SOMATIC

sd morfologic

= cresterea organelor

METABOLIC

sd metabolic

= urmari metabolice

HORMONAL

sd endocrin

= insuficienta celorialti tropi

TUMORAL

sd functional

= sd tumoral hipofizar

?

Rar in copilarie

Frecvent adult: F=B, > 40 de ani, vechime minim 5 - 10 ani

Sd Morfologic INAINTE inchidere cartilaje cresterE

Simptome

- Trasaturi dure
- Secundare metabolice

Semne

- Talie peste media varstei
- Viteza de crestere foarte mare
- Varsta osoasa accelerata
- Crestere parti moi

Palme

Plante

Degete groase





Dg \neq clinic gigantism

1. Statura inalta constitutional
2. Statura inalta genetic
3. Sd Marfan
4. Gigantism cerebral
5. Sd Klinefeter
6. XYY, XYYY
7. Pubertati precoce





review: Shrek 2 | Tor.com



Sd morfologic DUPA inchidere cartilaje crester

Simptome

- Dureri osteoarticulare
- Paretezii
- Transpiratii excesive
- Intoleranta la caldura
- Letargie/oboseala
- Oligomenoree
- Galactoree
- Disfunctie erectila
- Infertilitate

- Cefalee
- Fotofobie

Semne

- Proliferare parti moi 100%
buze, limba, urechi, nas
- Crestere oase spongioase 100%
 - Palme
 - Plante
 - Facies = baze temporale
 - Ingrosare calvarium
 - prognatism
- Hiperhidroza 88%
- Crestere ponderala 87%
- Papiloame 45%
- Hipertricoza
- Gusa 30%
- Acanthosis nigricans 30%
- HTA 24%
- Cardiomegalie 16%





1977



1981



1983



1988



(a) Age 9



(b) Age 16



(c) Age 33



(d) Age 52

Loss of oval
facial features

Worsening of
prognathism

Sd metabolic

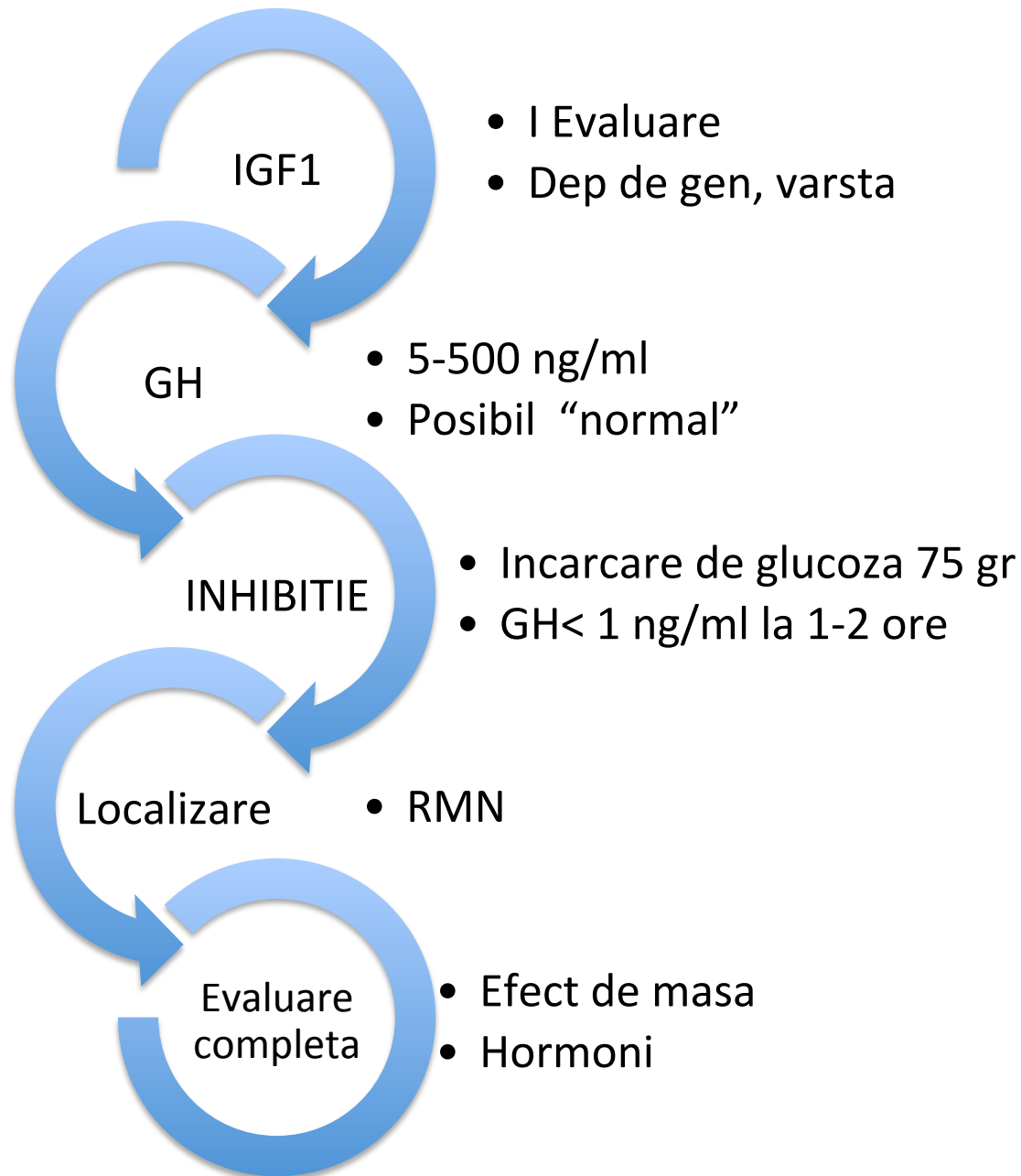
- Hiperglicemie (70%) → ATG (50%) → DZ

Sd endocrinologic

- Insuficienta alti tropi hipofizari
 - Hipogonadism 60%
 - Hipotiroidism 13%
 - Hipocorticotropism 4%

Sd functional = sd tumoral hipofizar

- Compresiune structuri invecinate +



TEST DE INHIBITIE

- Recoltare initiala
 - Glicemie
 - IGF1
 - GH
- Administrare 75/100 grame glucoza
- Repetare recoltare la 60'/120' analize



NOVATEST

0215 277 909

VOUCHER ANALIZE ACROMEGALIE

SERIA: 2017B00509
EXEMPLAR MEDIC

- ☐ IGF-1
☐ hGH (hormon de creștere uman)

- ☐ Glicemie
☐ Hb A1c - Hemoglobină glicată

DATA EMITERII

Ziua

Luna

Anul

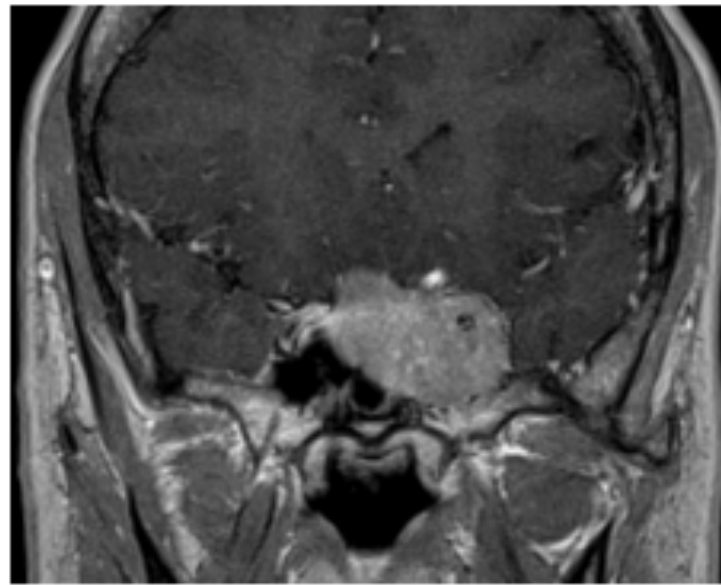
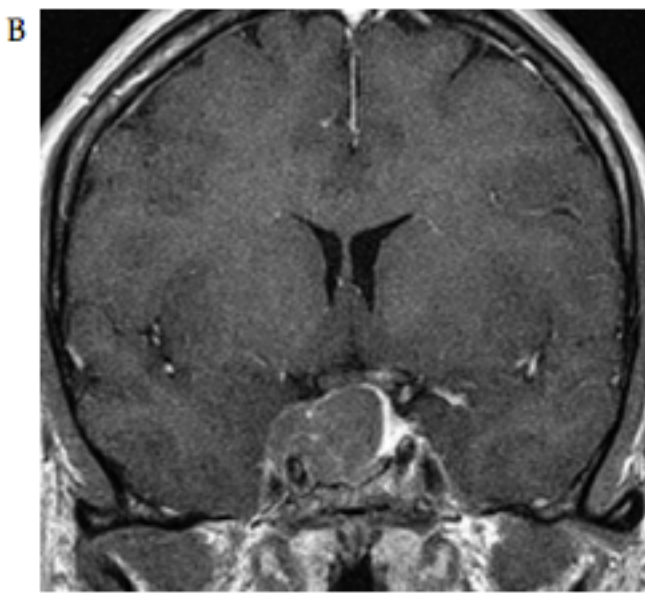
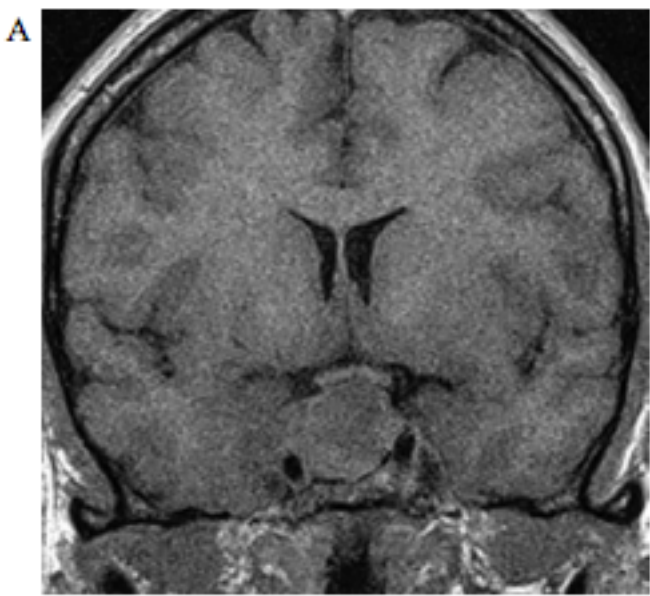
03

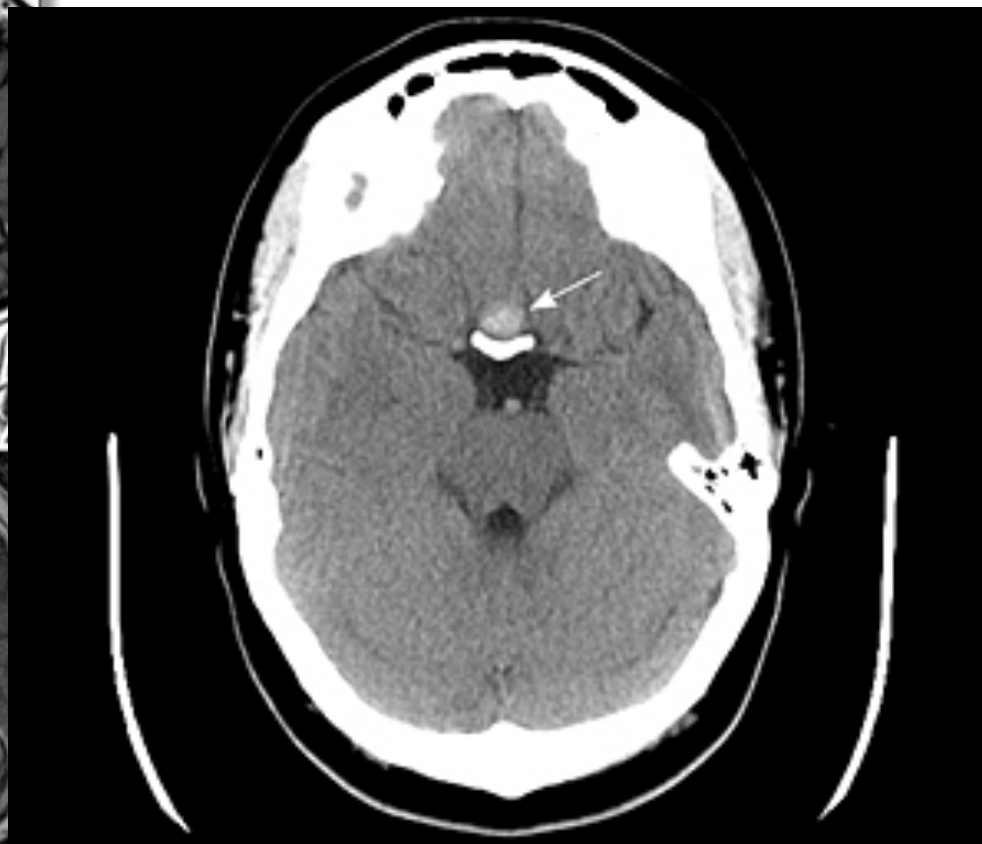
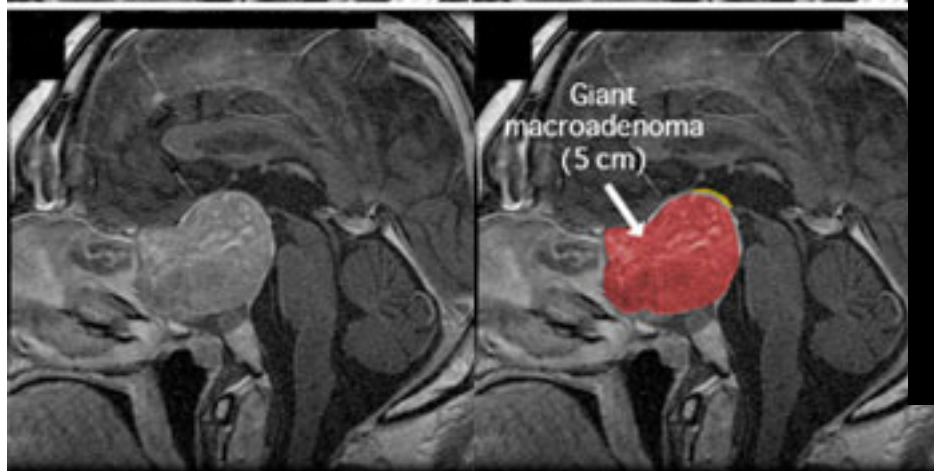
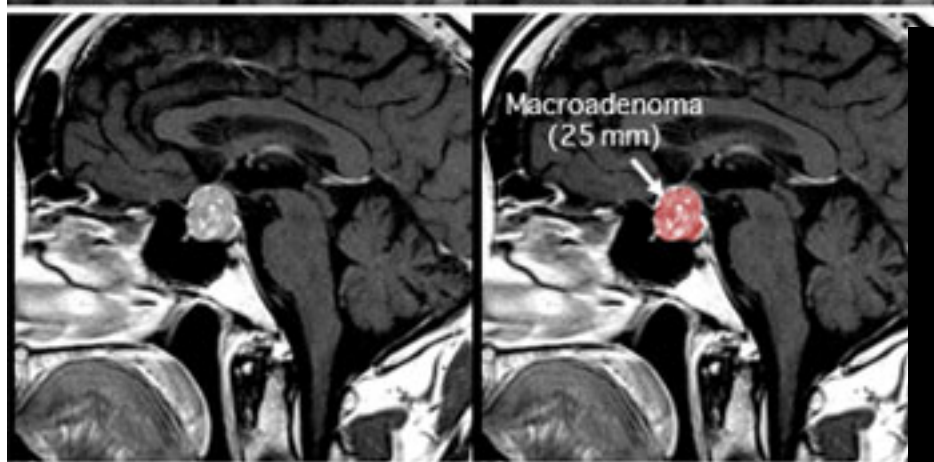
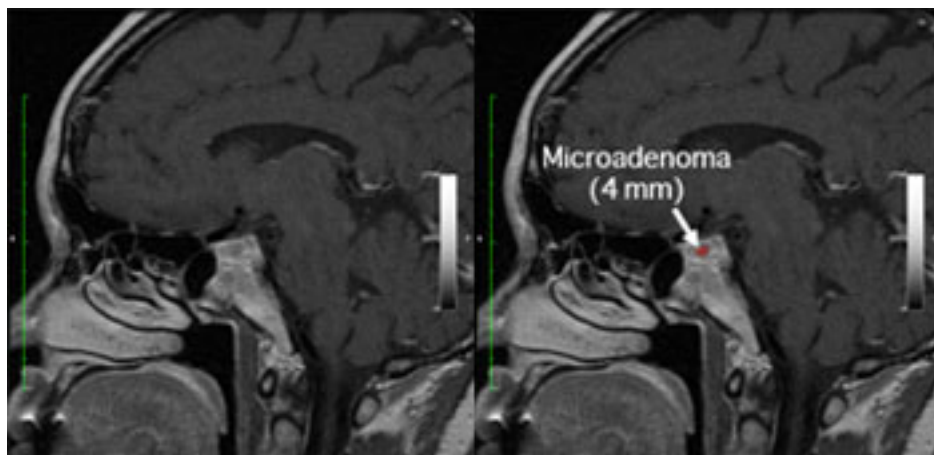
02

2017

 **NOVARTIS**
ONCOLOGY







Dg complicatiilor

- DZ TTGO/FO/VCN/microalbuminurie
- HTA FO/microalbuminurie/RFG
- CMH EKG/disfunctie diastolica/ECO
- GN eco, FNAC

Diagnostic ≠

1. Alte cauze de hipersecretie gh/IGF1

- Anxietate
- Efort fizic excesiv
- Afectiune acuta
- BCR
- Infometare
- Malnutritie protein calorica
- Anorexie nervoasa

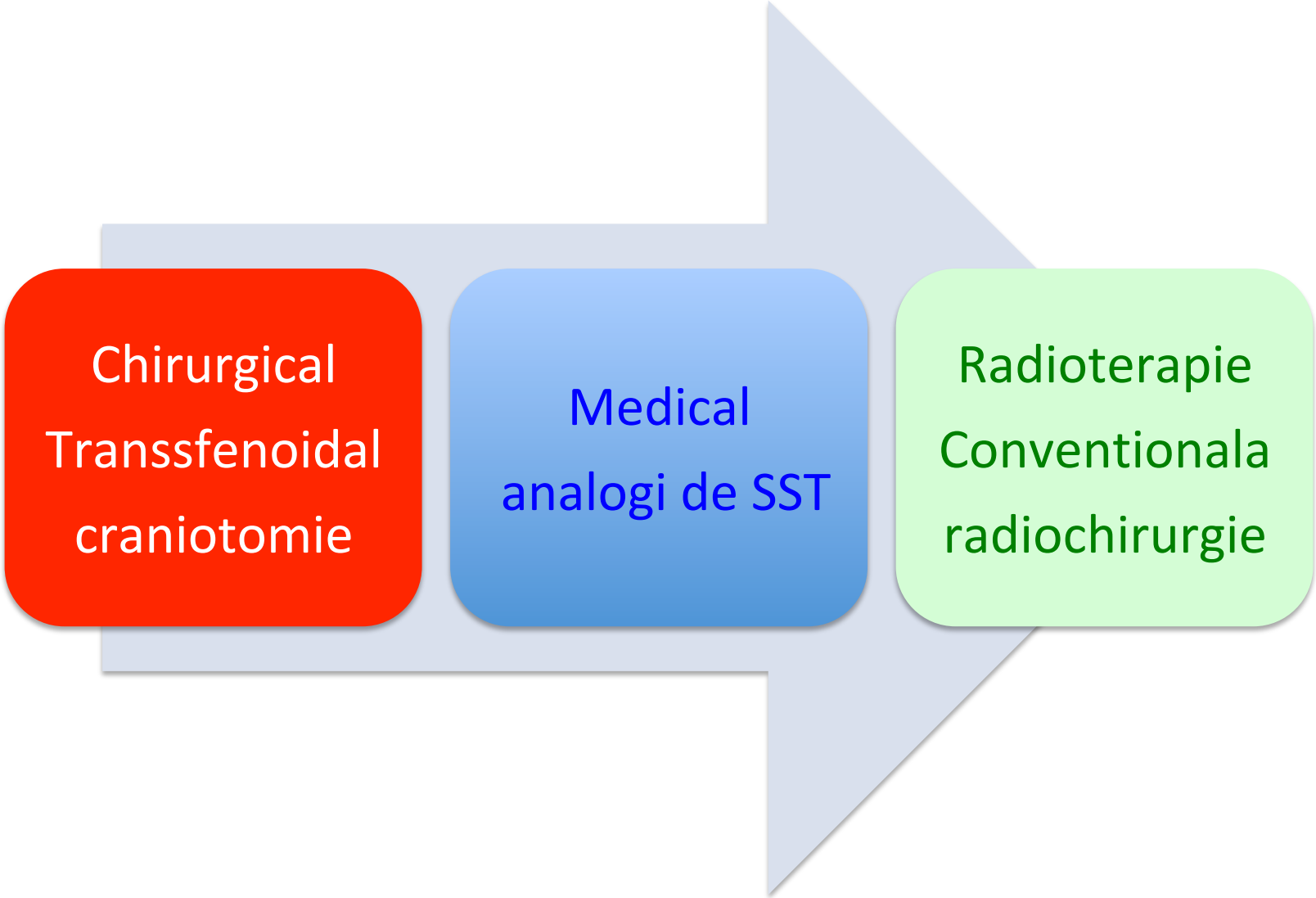
ABSENTA
tablou clinic

2. Secretie ectopica de GH sau GHRH

- carcinom pulmonar
- tumori carcinoide
- celule C pancreatice

Hipofiza
normala

Tratament

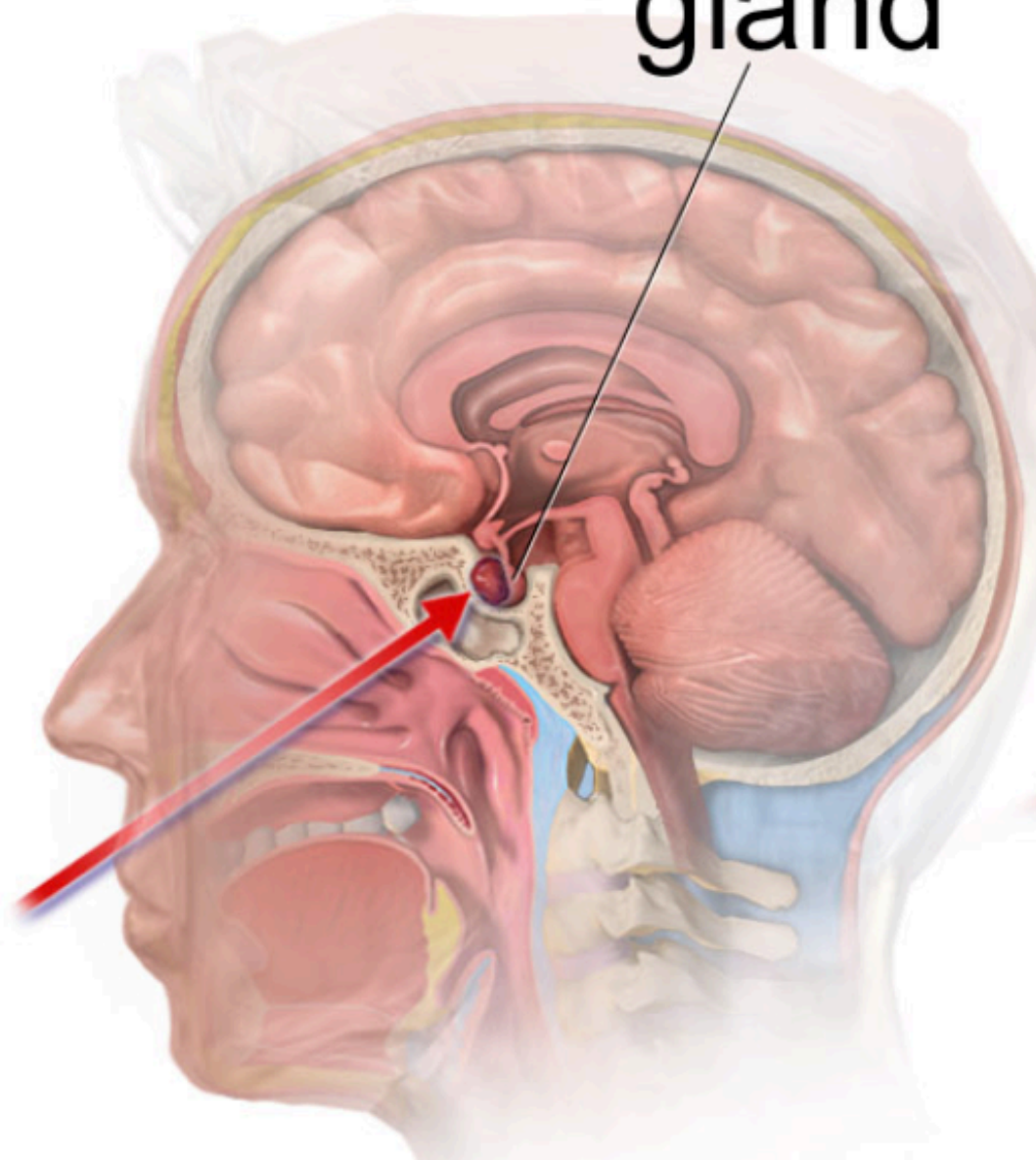


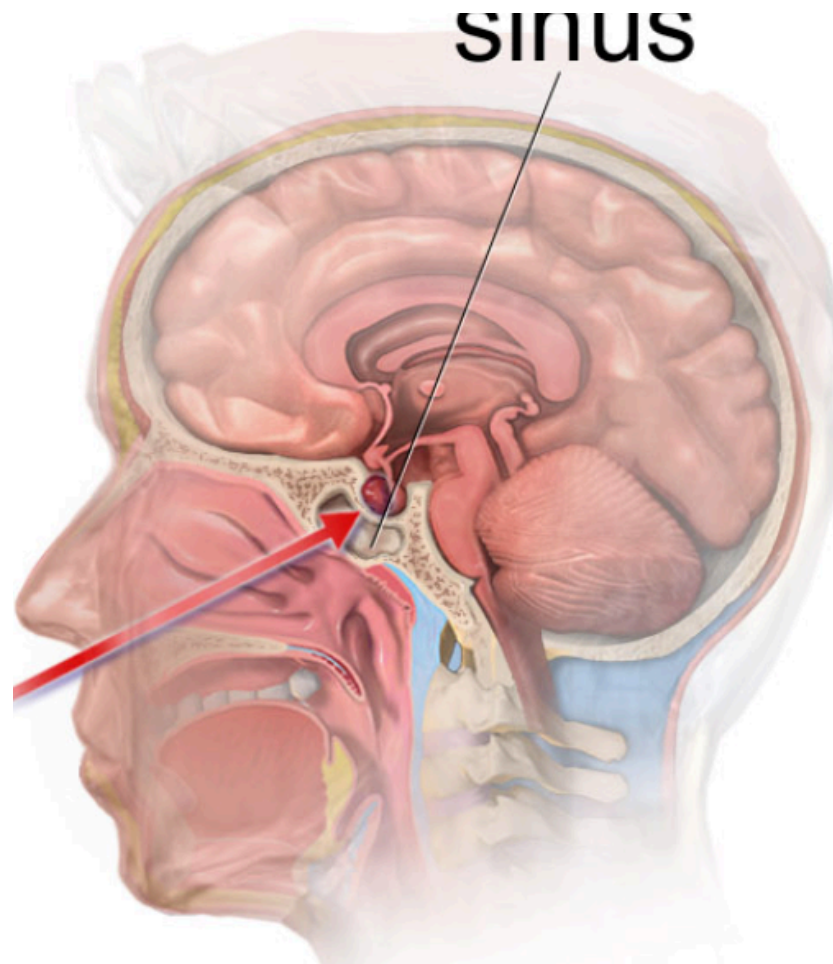
Chirurgical
Transsfenoidal
craniotomie

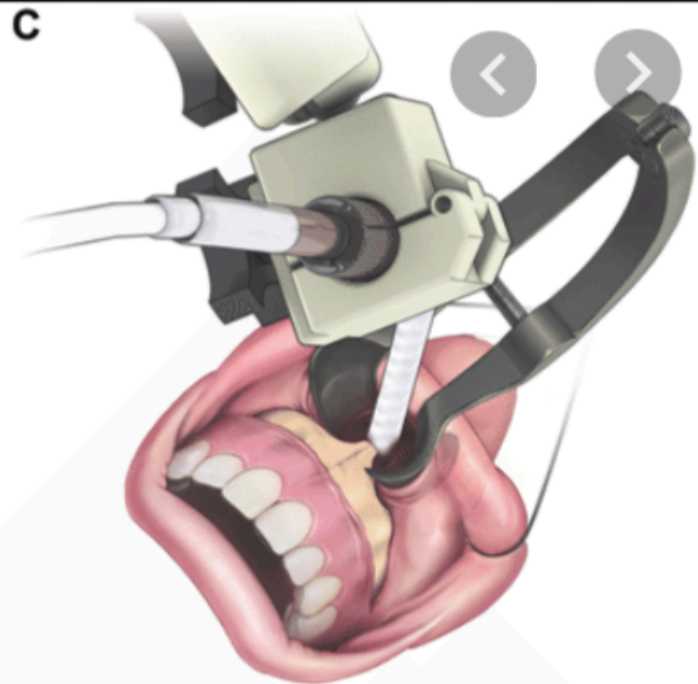
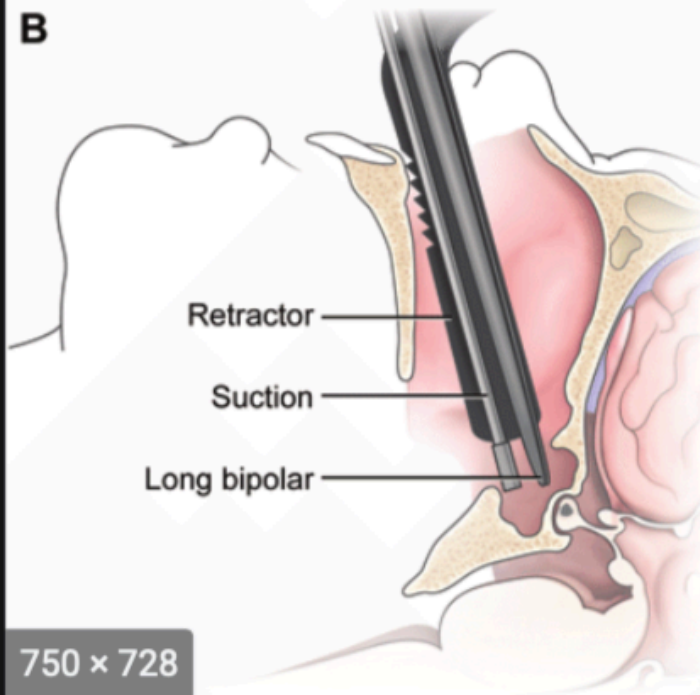
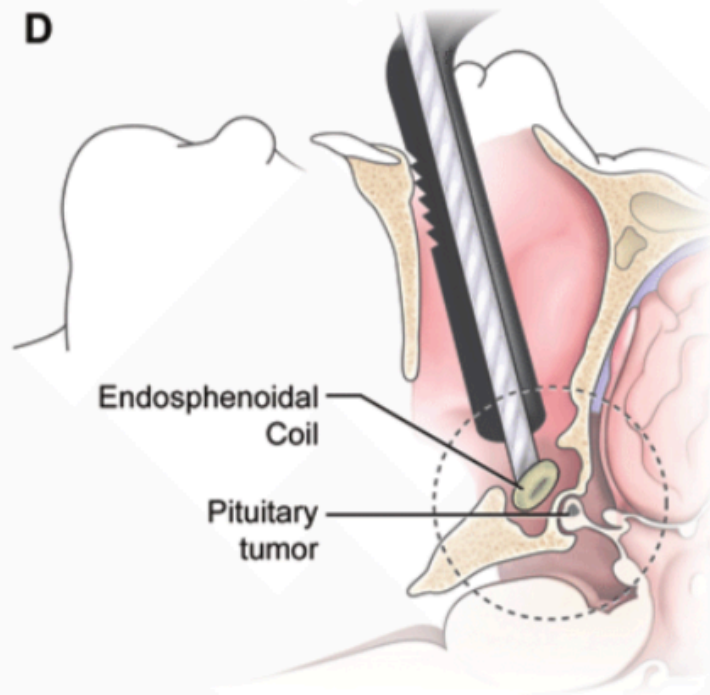
Medical
analogi de SST

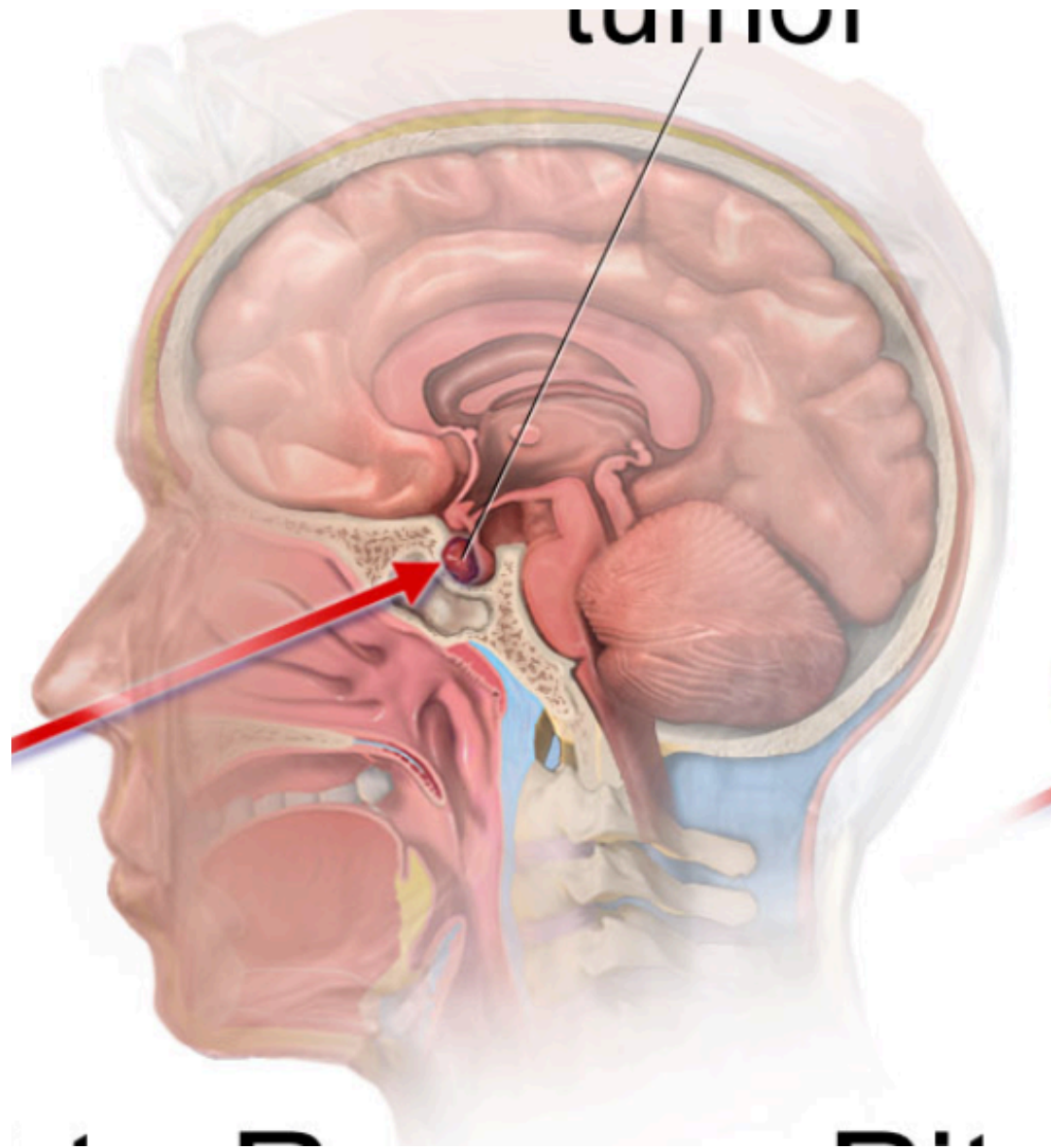
Radioterapie
Conventionala
radiochirurgie

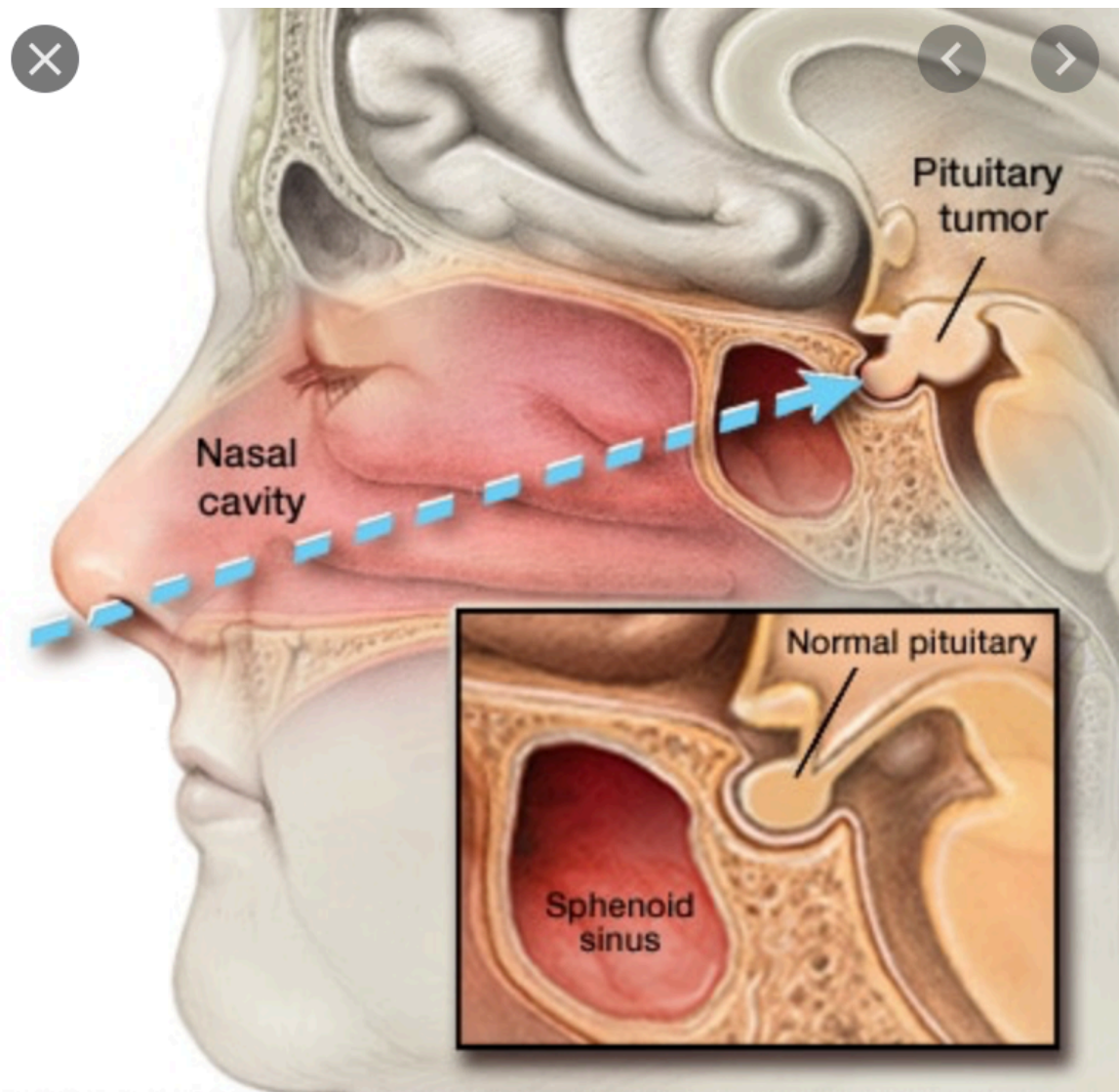
gland





A**C****B****D**





- **I linie = Chirurgical**

- adenomectomie selectiva transsfenoidala
- craniotomie extensie supraselara

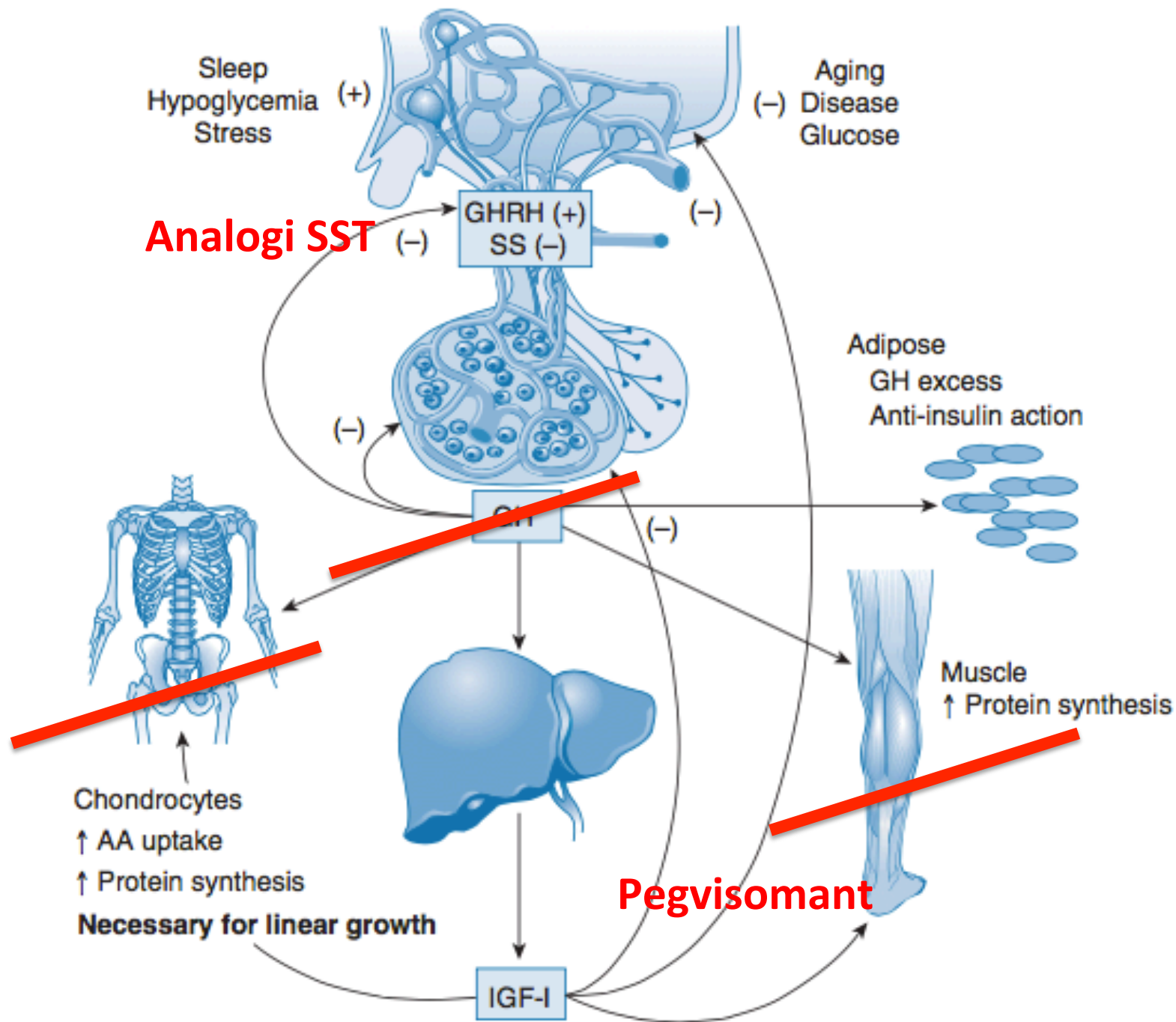
Rezultate reducere GH = 60-80% cazuri

tumora < 2cm
GH < 50 ng/mL

= 30-60%

Recurenta < 5%

tumora > 2 cm
extensie supras
GH > 50 ng/mL



- linia II = medicamentos **ANALOGI SOMATOSTATINA**

- Hipersecretie reziduala (Rx, Ch) OCTREOTID
- Contraindicatie pentru chirurgie LANREOTID
- Tumori mici, de preferat la varstnici

Actiune: activare receptor SST 2, SST5

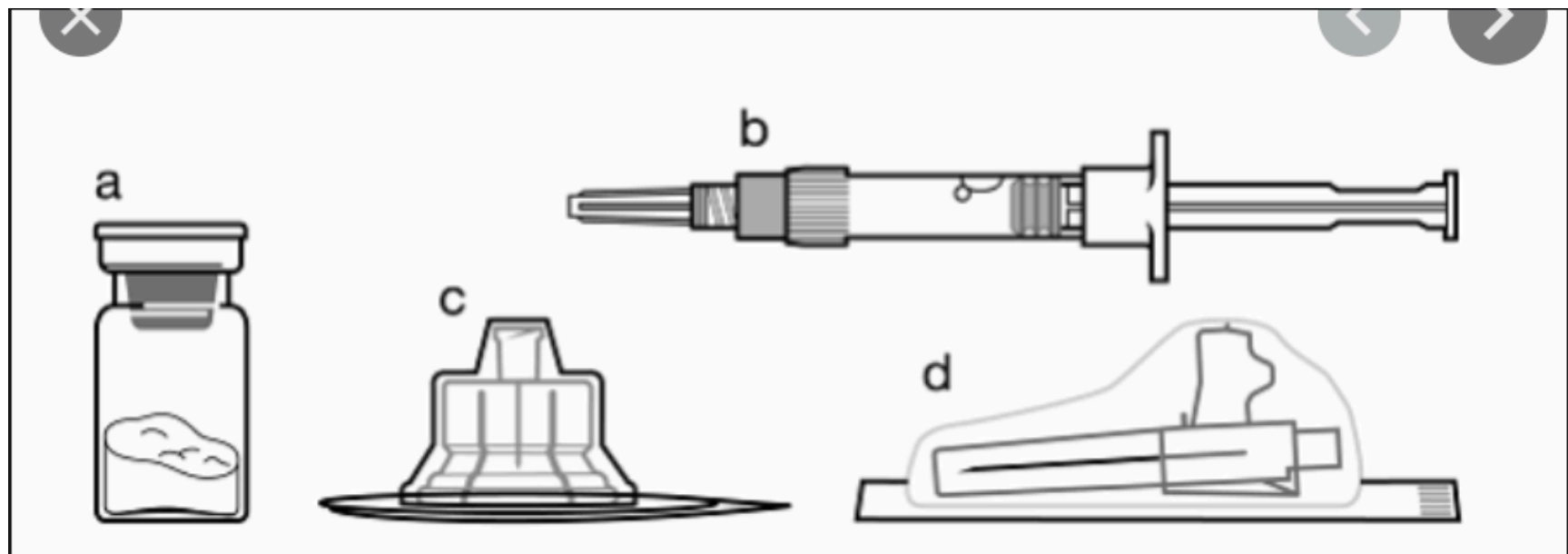
Adminsitrare lunara (retard)

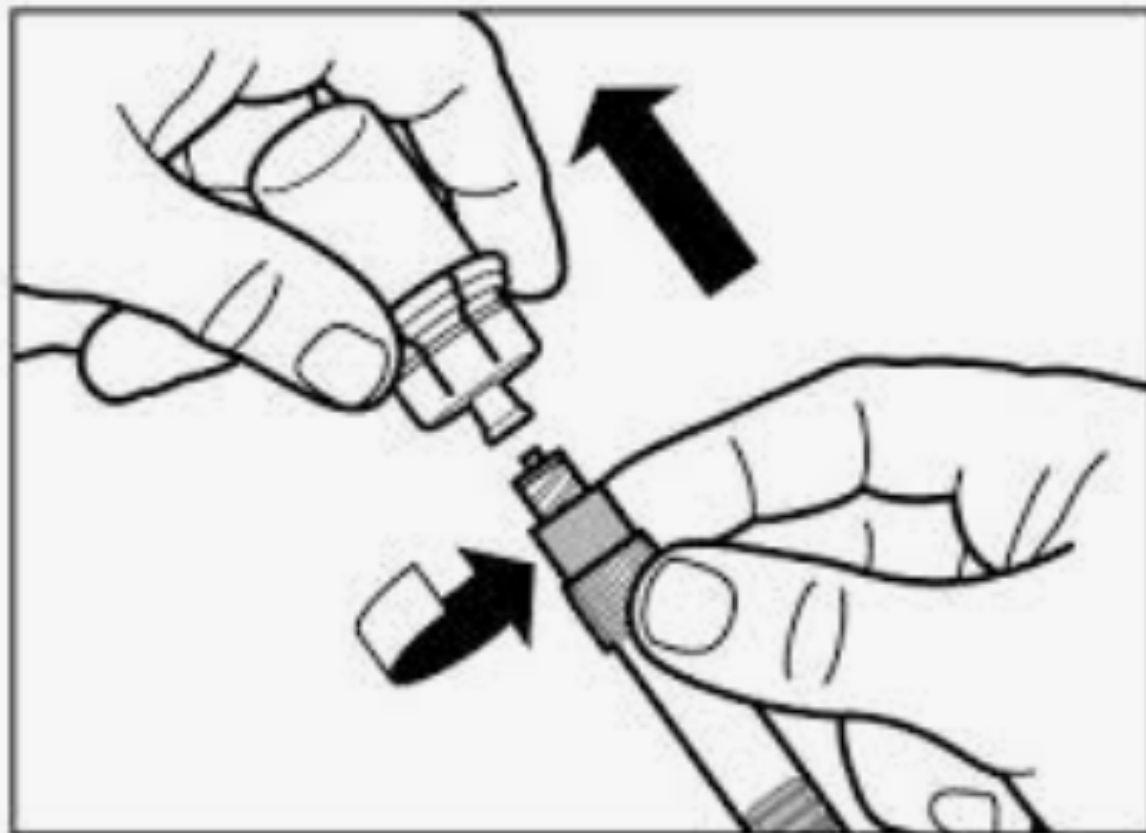
Rezultate

reducere GH =	75 % cazuri
reducere tumorală =	cu circa 20% din initial

SANDOSTATIN

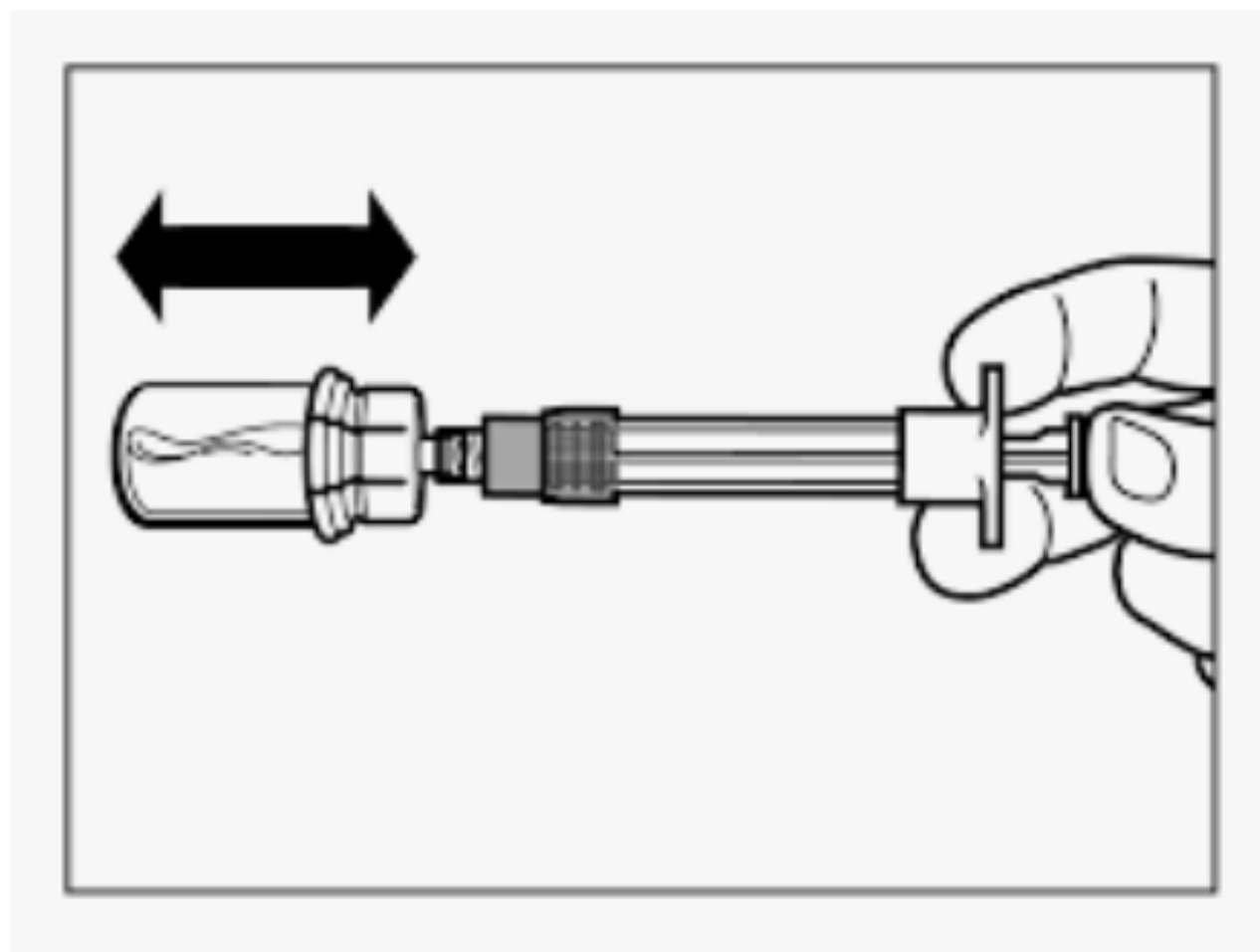










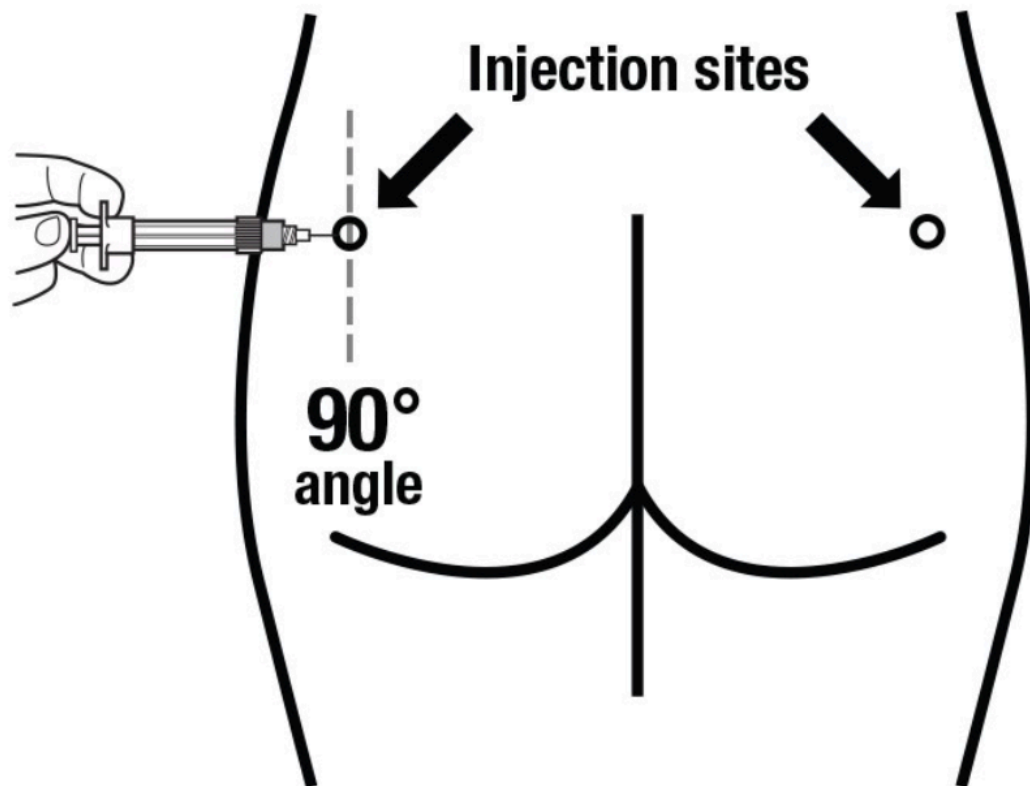




5 Minutes







PEGVISOMANT

Antagonist receptor GH

Administrare zilnica, sc

Normalizeaza IGHF1 la 90% din cazuri

De rezerva: cost/administrare zilnica

Linia III - Radioterapie

1. Conventionala

45 Gy

succes in 60-80%

nerecomandata

normalizare GH in 10-15 ani

hipopituitarism 100%

2. Gamma knife chirurgie radiologica

25-75 Gy

remisiune 50-90% in 2 ani

In paralel

- Tratatamentul complicatiilor
 - Insuficienta liniilor hipofizare
 - GN
 - Obezitate
 - DZ
 - Afectiuni cardiace
 - HTA
 - Cardiomegalie
 - CMH

RASPUNS bun

- Clinic OK
- IGF1 N
- Inhibitie
GH < 1 mg/ml

RASPUNS partial

- Clinic variabel
- IGF ↑
- Inhibitie
GH < 1 mg/ml

REZISTENT

- Clinic activ
- IGF ↑
- Inhibitie
GH > 1 mg/ml
- GH > 1 mg/ml

Tratament

