



# Constipation- more than Movicol ?

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# Learning Points

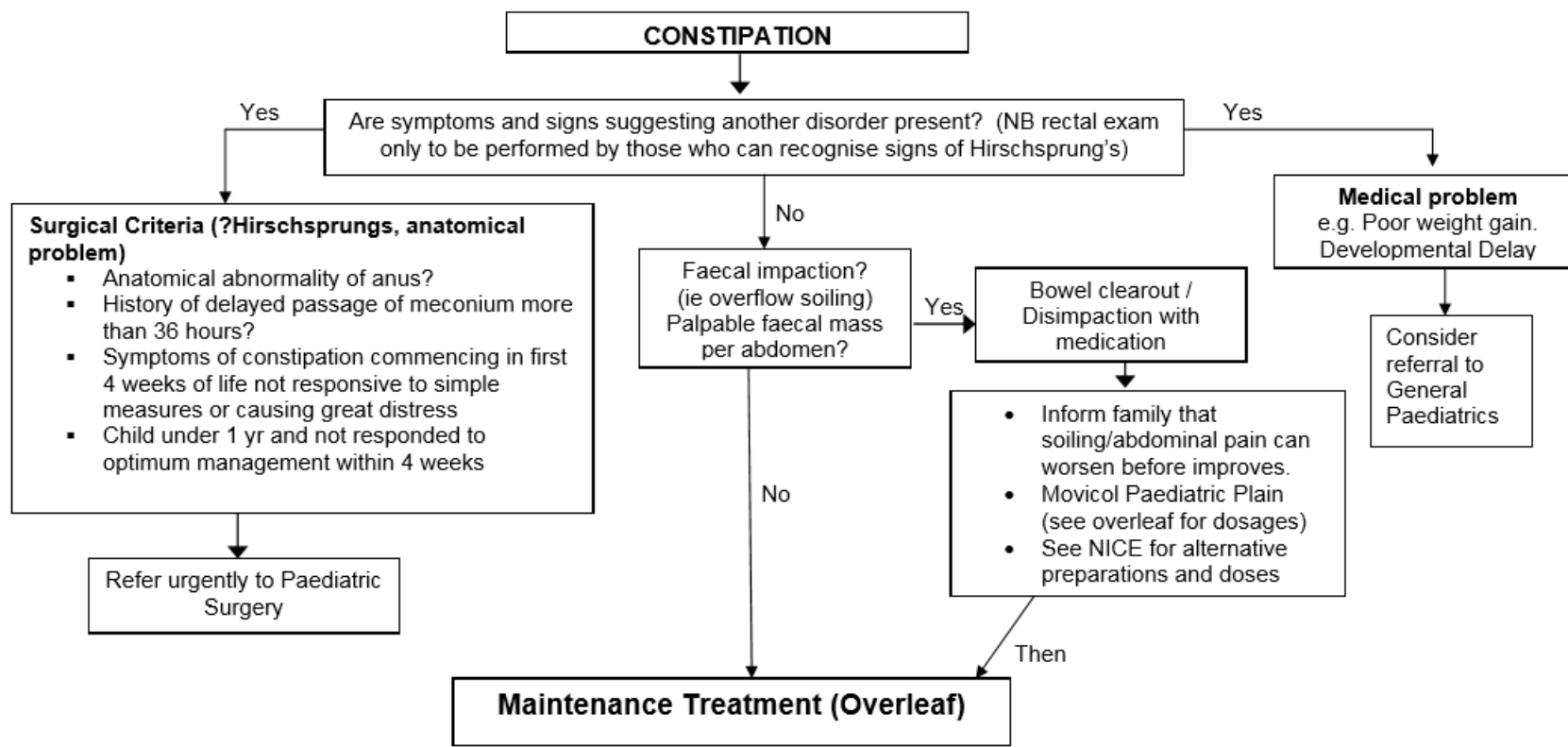
- ▶ How to rule out an underlying cause for constipation
- ▶ How to diagnose and treat faecal impaction
- ▶ How to manage encopresis
- ▶ Learn about the many ways in which constipation can present
- ▶ How to assess Chronic Abdominal Pain in Children
- ▶ How to do a growth assessment in 30 seconds
- ▶ Learn about the Role of Specialist Paediatric Continence Nurse

# Case 1

- ▶ 4 year old boy
- ▶ Mum says “always been constipated”
- ▶ Bowels open large stool which “ blocks the toilet” every 3 days
- ▶ In between gets “liquid” in the underwear
- ▶ “Doesn’t seem to notice” – comes home in soiled pants
- ▶ GP colleague started movicol but increased soiling so mum has stopped it.

How would you Assess further?

What is the most likely diagnosis and what would be your management ?



<u>Age</u>	<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>	<u>Day 6</u>	<u>Day 7</u>
< 1yr NICE (unlicensed)	0.5 – 1 Sachet	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1
1 - 5yrs (unlicensed)	2 Sachets	4	4	6	6	8	8
5 – 11 yrs	4 Sachets	6	8	10	12	12	12
12 yrs + (Movicol adult)	4	6	8	8	8		

NB **Do not increase once child has had loose watery stools** for approximately 24 hours, but cut back to maintenance regime, often half disimpaction dose

### Behavioural Changes

- Positive daily toileting routine (3-4 per day for 5-10 mins)
- Rewards e.g. Star Charts. use of balloons, whistles or bubbles to encourage sitting/pushing.
- Explanation of condition and consider giving this document to parents
- Bowel diary
- Lots of praise and encouragement for the child

### Dietary Changes

**(Do not use dietary changes alone - use with medication and behavioural measures)**

- Increase fibre intake
- Ensure adequate fluids (6-8 cups daily)
- Avoid excessive milk (>1pint) intake beyond infancy

### Medication (>6 months of age)

If under 6 months consider discussion with paediatrician. Lactulose can be used at this age.

#### • **Movicol Paediatric Plain sachets**

- 6 mths-1yr 0.5-1 sachets daily (NICE, non BNFC dose)
- 1-6 yrs 1 sachet daily, adjust dose to produce soft painless stool (max 4 sachets daily)
- 6-12 yrs 2 sachets daily, adjust dose to produce soft painless stool (max 4 sachets daily)

#### **Add stimulant laxative if Movicol not sufficient**

##### **Senna syrup (7.5mg/5ml) (NICE doses)**

- 1 mnth-4yrs 2.5-10mls once daily
- 4-18yrs 2.5-20mls once daily

Details of doses of other stimulant laxatives can be found at

[www.nice.org.uk/nicemedia/live/12993/48754/48754.pdf](http://www.nice.org.uk/nicemedia/live/12993/48754/48754.pdf)

Substitute stimulant laxative if Movicol not tolerated and add in Lactulose if stool hard.

Inform parents that will need to be on medication for several months before weaning off.

Structured follow up

GP

To ensure good management of treatment regime at

1 week by phone

2 weeks

4 weeks

6-8 weeks

} Phone / Clinic

Health Visitor / School Nurse

# Encopresis and Soiling

In the UK separate definitions are used for encopresis and soiling, in contrast in the USA the term encopresis is used to describe any regular passage of stool into underwear. (The terms non-retentive and retentive encopresis are sometimes used)

- ▶ In the UK encopresis is described as the passage of a normal stool in a socially inappropriate or unacceptable place

(Non-retentive encopresis)

- ▶ Soiling is described as the involuntary passage of fluid or semisolid stool into underwear (most commonly as a result of overflow from a faecally loaded rectum)

(Retentive encopresis)

# Encopresis and Soiling

- ▶ Although parents may find it frustrating, soiling is very rarely thought to be caused by a child misbehaving. They usually can't help it and some children may not even realise they've had an accident.
- ▶ Children who have this problem may feel ashamed, guilty, frustrated or angry, and may act secretively to try to hide the problem.
- ▶ Most children who soil their pants are severely constipated. They may ignore the urge to go to the toilet and "hold on" to avoid the pain of passing stools.
- ▶ This leads to faecal impaction – when a large, solid stool becomes stuck in their rectum (back passage) and begins to stretch and weaken the surrounding muscle walls. Watery stools then leak out from around this blockage.



## Case 2

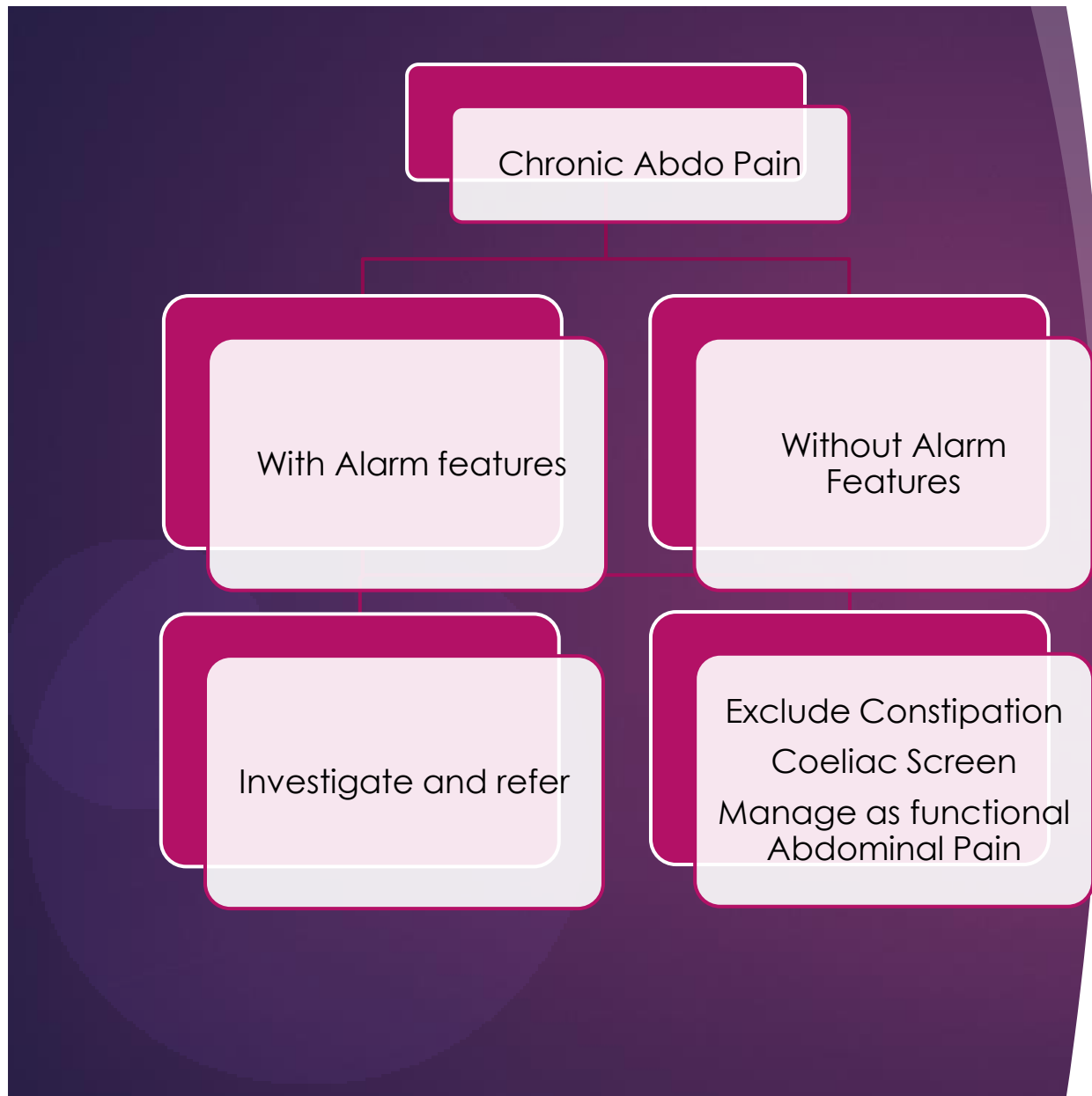
- ▶ 6 year old boy
- ▶ 1 year history of central and lower abdominal pain
- ▶ Pain occurs after eating and lasts for approximately 15minutes
- ▶ Active boy- who eats well and is growing normally
- ▶ No change in bowel habit
- ▶ Initially his symptoms were worse at school and aunties house but now it can occur anywhere
- ▶ FBC UE LFT CRP normal
- ▶ On examination BMI was 18.3

# Presentation of symptoms

- ▶ Common things present commonly and common things present uncommonly
- ▶ 3 main diagnoses to consider in Chronic Abdominal pain in children
- ▶ Stool diary often needed to diagnose constipation
- ▶ Growth Assessment essential for chronic abdominal pain
- ▶ Affect on daily activities is used to class severity

# Which of the following can be a initial presentation of Constipation?

- ▶ Abdominal Pain
- ▶ Rectal Bleeding
- ▶ Rectal Prolapse
- ▶ Recurrent UTI's
- ▶ Enuresis
- ▶ Vulvovaginitis



Chronic abdominal pain:

- Child >3 years old
- $\geq 3$  episodes over  $\geq 3$  month period
- Affecting daily activities

Alarm symptoms/signs?

- Involuntary weight loss/failure to thrive
- Gastrointestinal bleeding
- Chronic, persistent diarrhoea or vomiting (some minor vomiting may occur in Functional Abdominal Pain)
- Persistent right upper quadrant or right lower quadrant abdominal pain
- Unexplained fever
- Family history of inflammatory bowel disease (IBD)
- Jaundice
- Urinary symptoms, back or flank pain
- Abnormal examination findings

[History of constipation – manage constipation, [Constipation in Children Guideline](#)]  
 [In pubertal girls, consider pregnancy test & screening for sexually transmitted disease]

Yes

Investigate:

Blood tests (all) – FBC, ESR/PV, Ferritin, CRP, U/E, LFT, glucose, amylase/lipase, Coeliac screen

Urine test (all) – Urinalysis +/- culture if dip test suggests UTI

Ultrasound (selective) – if right upper quadrant pain, right lower quadrant pain, jaundice, urinary symptoms, back/flank pain, weight loss/failure to thrive, abnormal examination

No

Coeliac screen

Functional Abdominal Pain:

Reassurance and education

Focus on resuming normal function rather than on complete resolution of pain

Consider psychological, pharmacological intervention if pain persists (Appendix 2)

Positive

Refer:

Paediatric Gastroenterology (BRHC) if positive coeliac screen or investigations strongly suggestive of IBD (especially if positive family history).

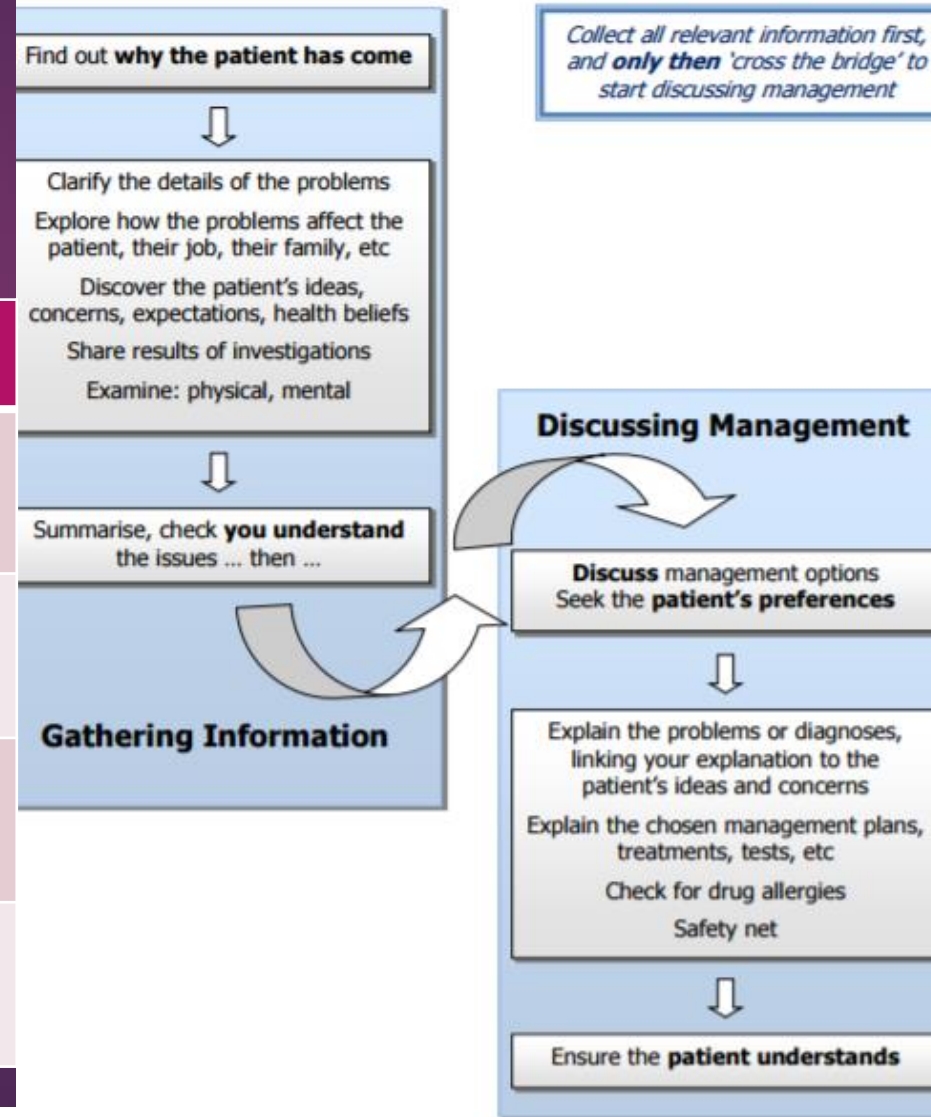
General Paediatrics (BRHC, Southmead, Thornbury, Cossham, South Bristol Community Hospital) if alarm symptoms/signs +/- abnormal test results.

# Management of Functional Abdominal pain

## Using Consultation Skills for a Bespoke Management Plan

<b>Ideas</b>	Might be food allergy	food diary/ short term exclusion Coeliac screen?
<b>Concerns</b>	Physical disease	Explain- common and if no alarm symptoms and growing then unlikely anything serious
<b>Expectation</b>	Extensive investigations	GA needed for endoscopy Blood tests rarely helpful.
<b>Psycho-social Issues</b>	Missing School	Letter to school Stand by medication

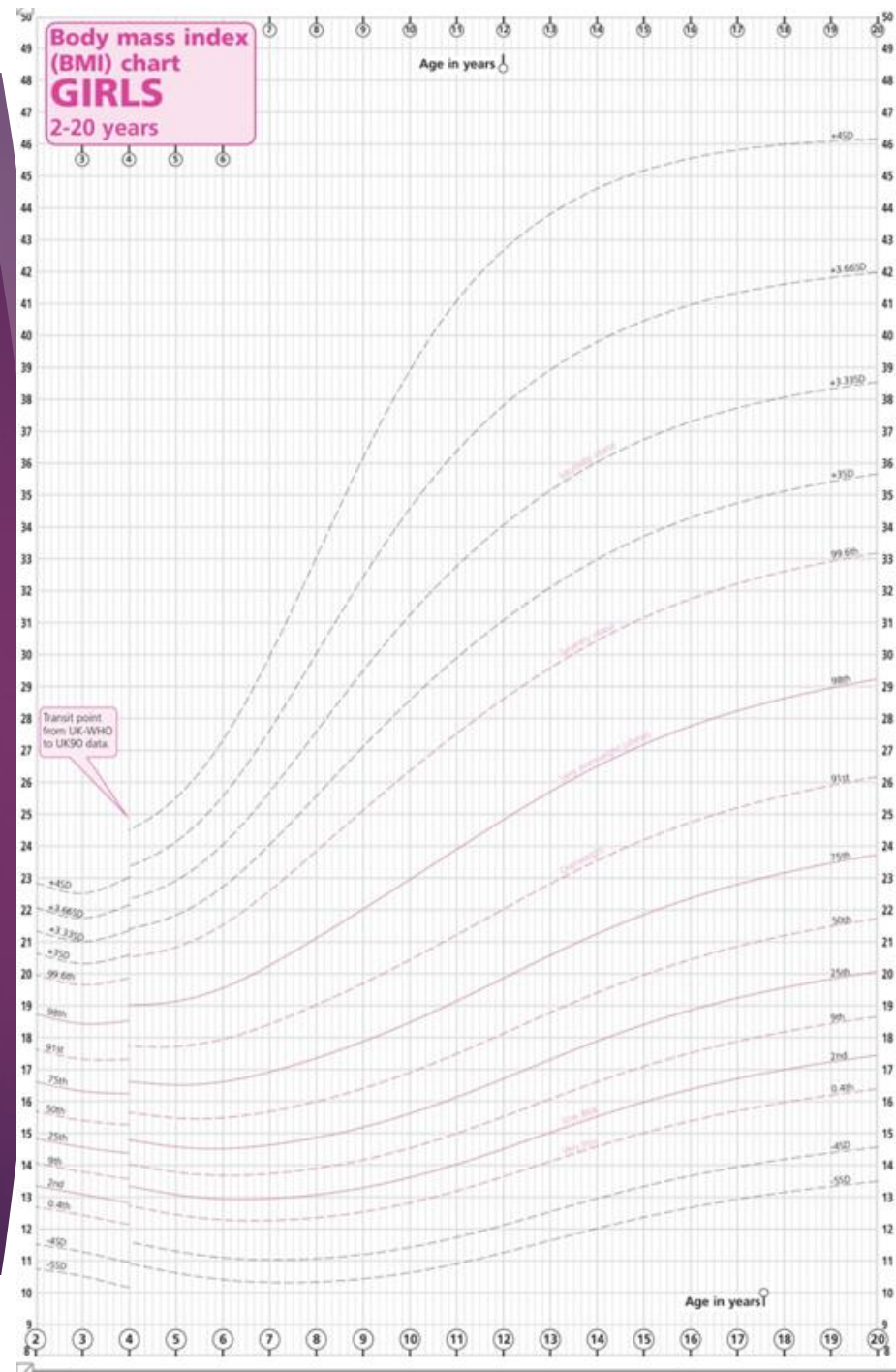
## A Consultation Navigation Tool



5 year old girl  
with BMI 18

- a) Underweight
- b) Healthy Weight
- c) Overweight

# BMI centiles



## Weight gain

Average weight (Age +4) x2

Approx 2kg per year  
mid childhood



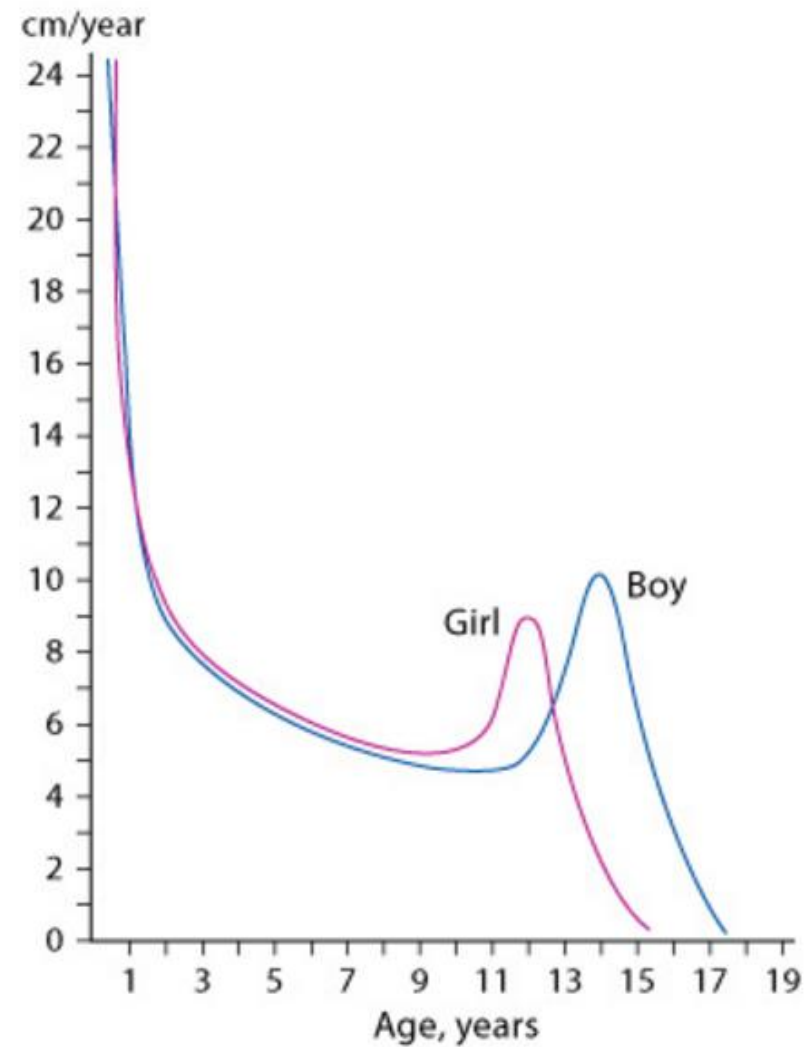


## Linear Growth Velocity

Mid childhood age 3 to 10  
**6-7 cm per year**

Prepuberty Nadir

**5cm** per year



**Fig. 2.** Linear growth velocity according to age in girls and boys. Modified from Tanner et al. [6, 7]