# Approach to infants and young children surgical abdomen

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# Objectives

- Realize the impact of age
  - Where/who are the history sources
- Recognize and interpret the
  - important symptoms
  - Important signs

# History The impact of age

- Less than 3-4 year
  - Difficult to communicate
    - Verbal expression
    - Fear of strangers
  - History sources
    - Mother is the best source
      - Social barrier less than what we expect
    - Father is not very reliable
    - Nurses are reliable
      - Not always possible
      - Important in PICU/ NICU
      - Other doctors

### Symptoms of surgical abdomen

#### Feeding & Growing

- Feeding well and growing 
   healthy baby
- Poor feeding
  - Sick baby → from any GI or systemic cause (ear infection)
  - GI obstructed
  - Pain

#### ▶ Persistent vomiting → Sick baby

- Frequency
- Color
  - Milk vs greenish
- Force
  - Projectile → proximal obstruction
  - Small amount after each feeds → regurgitation → normal as long as gaining wt

## Symptoms of surgical abdomen

#### Bowel movement (BM)

- Frequency
  - What is the normal for infant?
  - Constipated, obstructed
  - Failure to pass meconium in newborns

#### Consistency

- Loose / watery → diarrhea
- Firm & dry → constipation

#### Color

- Very pale → ?
- Black → Melena
- Bright red

## Symptoms of surgical abdomen

- Crying baby
  - Babies communicate their needs by crying
    - Hungry
    - Wet
  - At >6 month → they learn to cry for other reasons
    - Want to be carried
    - Want to play
  - Bay who continue to cry, refuse feeding and dry -> pain
    - Abdominal pain
    - Ear ache

# Symptoms of surgical abdominal illnesses

#### Development

- Physical growth (height and weight)
  - Chronic problems (Metabloic, Nutrition => gut health)
- Psychological
  - · Mental problem, chromosomal abnormalities
- Motor
  - Syndrome
  - Metabolic

# Relayed symptoms (by parents)

External abnormality → anything that is seen/felt as abnormal by parents

- Swelling
  - Abscess
  - Mass (lymph node, Tumor, Cyst, Hernia)

- Color changes
  - Inflammation
  - Rash
  - Vascular malformation

# Relayed symptoms (by parents)

- Mental changes
  - Responsiveness
    - Sleepy
    - Not interested in feeding
    - Indicates; sepsis, shock, CNS trauma, metabolic (O2, Glu, urea)

# Abdominal problems Combination of symptoms

- Vomiting
- Constipated / diarrhea
- Poor feeding
- Abdominal distension
- Palpable mass (felt by parents)
- Very dark or very pale colored stool

# Physical Exam

#### Vital sings

- Fever
- RR, BP, HR, O2 Sat

#### Consciousness (crying)

- Crying baby 

  not very sick (not critical)
- Unusually calm baby who doesn't respond normally
   sick

# Physical Exam

- Exam while crying
  - Can't hear the chest well
    - Focus on inhalation
  - Can't examine abdomen well
    - Examine while taking breath
    - Keep hand on abdomen
  - Can't concentrate
    - Parent are stressed → less time

# Physical exam

Otherwise similar to adult

# History (general skills)

A good history = a good logical story

Known major Predisposing factors → Describe the current problem → Other risk factors → Symptoms of other possible complications

Due to the relative difficulties in taking a reliable history and performing an accurate physical exam



We tend to depend more on <u>investigations</u> in diagnosing the underlying problems in <u>infants</u>

# Best luck

Question?

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