

# Clinical significance: X-ray

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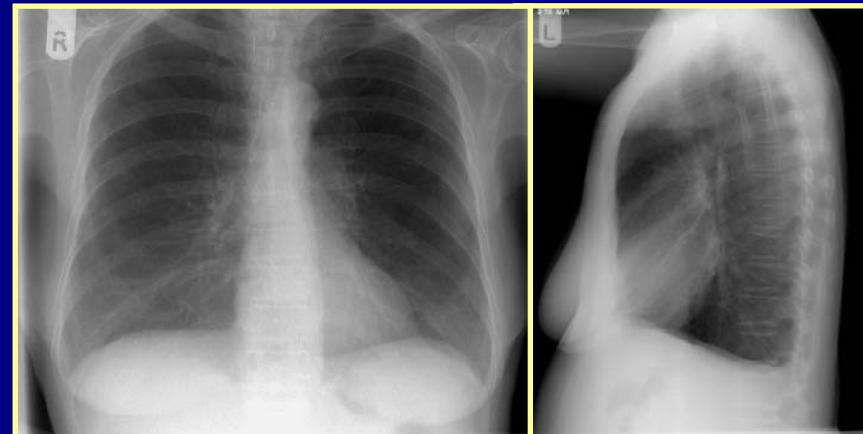


# Indication of chest x-ray

- High fever
- Respiratory symptoms
- Physical disorder
- Primary tumor
- Traumatic injury
- Abdominal emergency
- Pre-, postoperative condition
- Chest screening

# Method & strategy (chest)

- Zeiss/ Odelca
- 1:1 P-A CXR
- Sagittal view
- Fluoroscopy
- CT (CAT)
- Perfusion & ventill. lung scintigraphy
- Angiography, bronchography





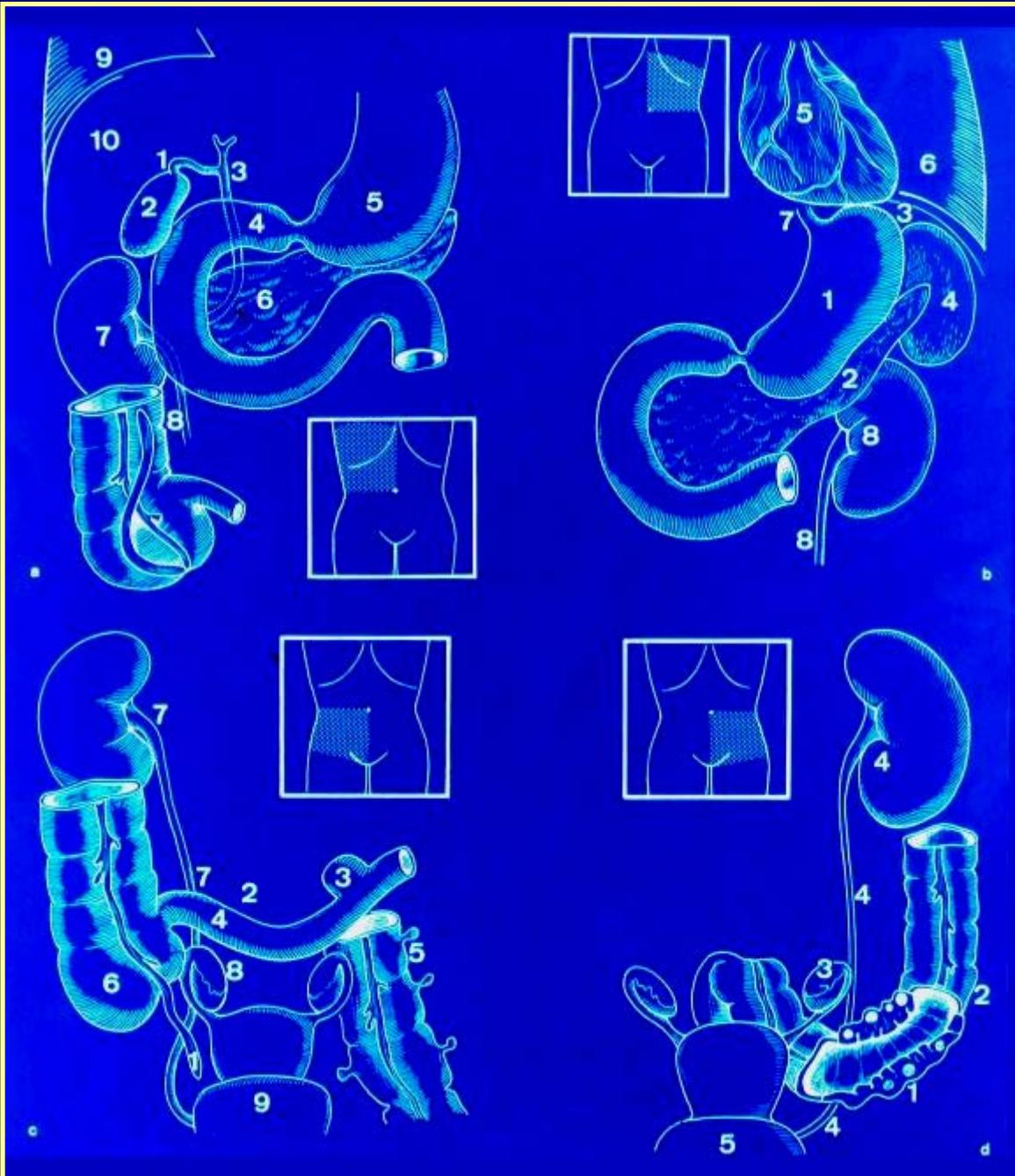




# Indication of abd x-ray: abdominal emergency

- Perforation
- Ileus
- Crampy pain (gall-stone, renal stone)
- Inflammation
  - appendicitis
  - pancreatitis
  - diverticulitis
  - extrauterin gravidity
  - adnexitis
- mesenterial thrombo-embolism

**PERITONITIS - PARALYTIC ILEUS**



# Method & strategy (abd)

- CXR!!
- Plain abdominal radiograph & fluoro
- Swallow examination
- Follow-through examination
- Barium enema study (urgent - monocontrast)
- US
- CT (CAT)

# Free abdominal gas



# Illeus

## (small-, large bowel) mechanical obstruction

- Stenosis – stricture – obstruction
  - Congenital : atresia, stenosis, anal imperforation
  - Acquired
    - Inflammation
    - Tumors
    - Obstruction
    - Adhesion
    - Strangulation
    - Hernia
    - Volvulus
    - Intussusception

# Ileus

caused by inflammatory process

- Regional enteritis (Crohn's disease)
- Ulcerative colitis
- Diverticulitis
- Tuberculosis
- Actinomycosis

# Ileus

## caused obstruction

- Gall-stone
- Foreign body
- Helminthiasis
- Stercolith
- Tumor

# Ileus

small bowel, mechanical obstructive



# Large bowel ileus



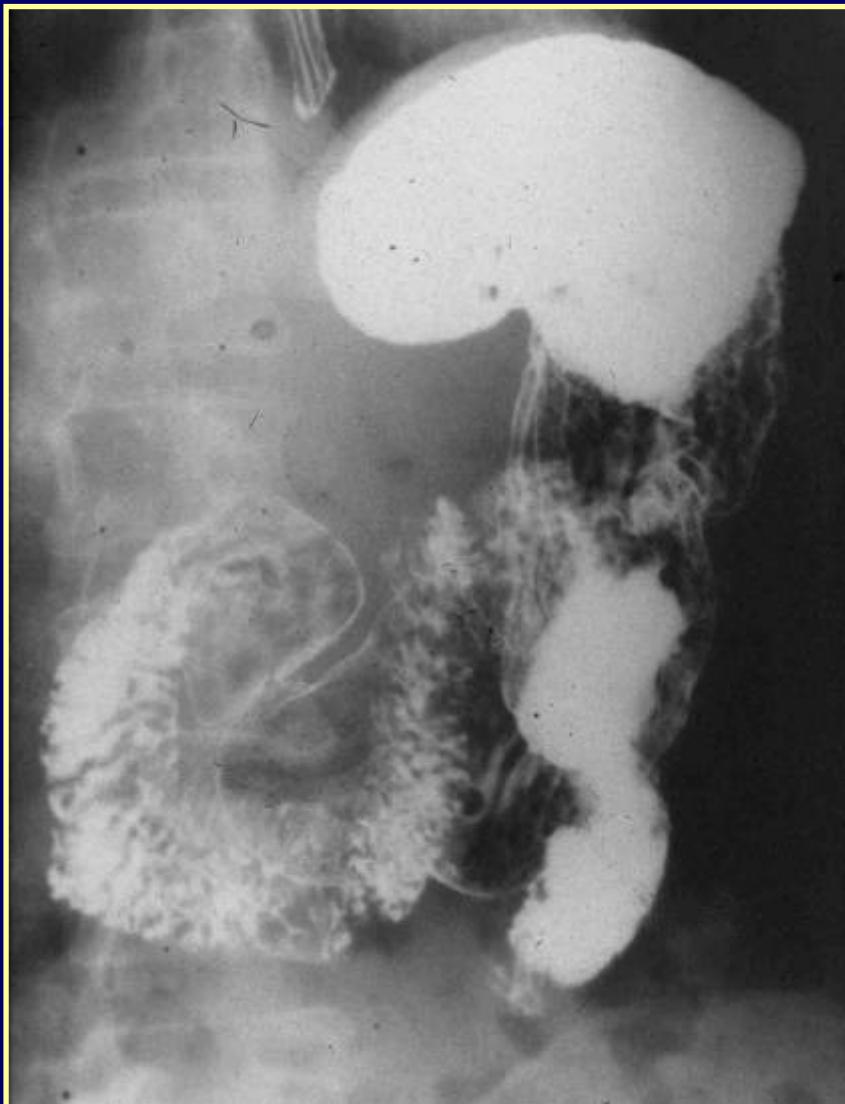
# Paralytic ileus



Drug intoxication!



# Stomach examination



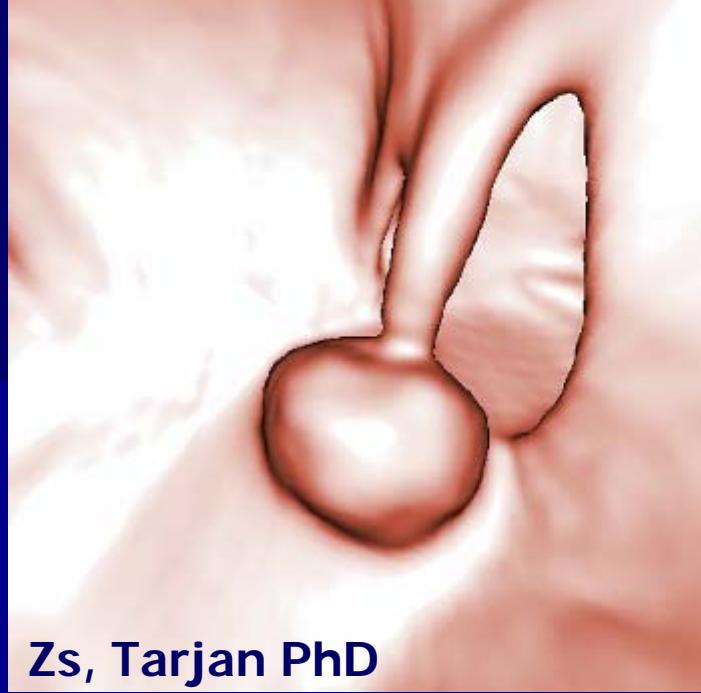
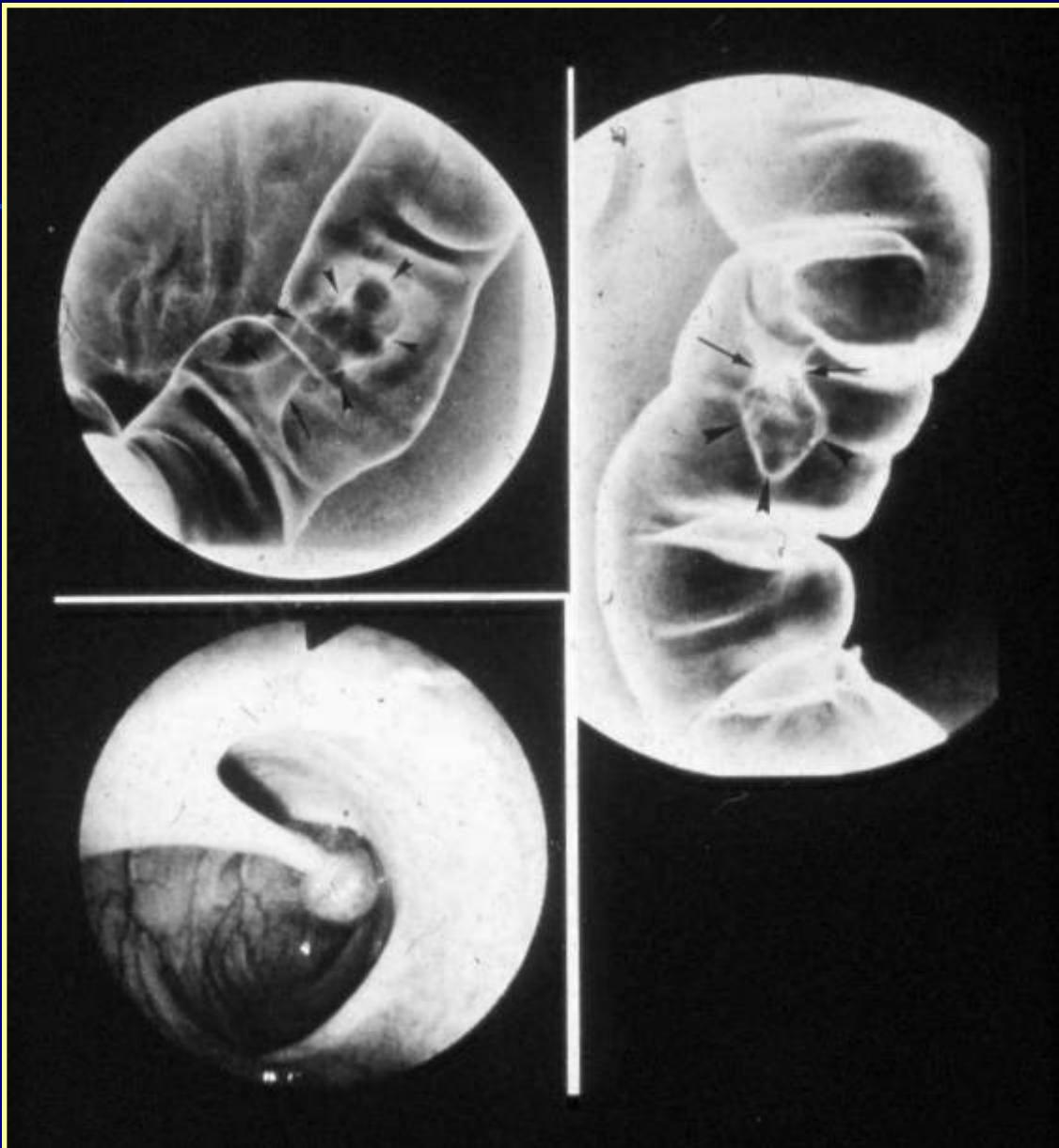
Double  
contrast

# Barium enema study



Double  
contrast

# Polyp



Zs, Tarjan PhD



Zs, Tarjan PhD

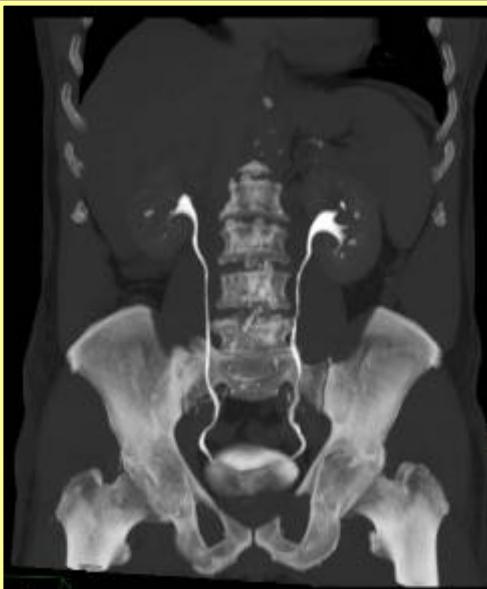
# Colorectal cancer



Apple core  
sign



# CT-pyelography ⇔ iv. pyelographia



# Fracture



