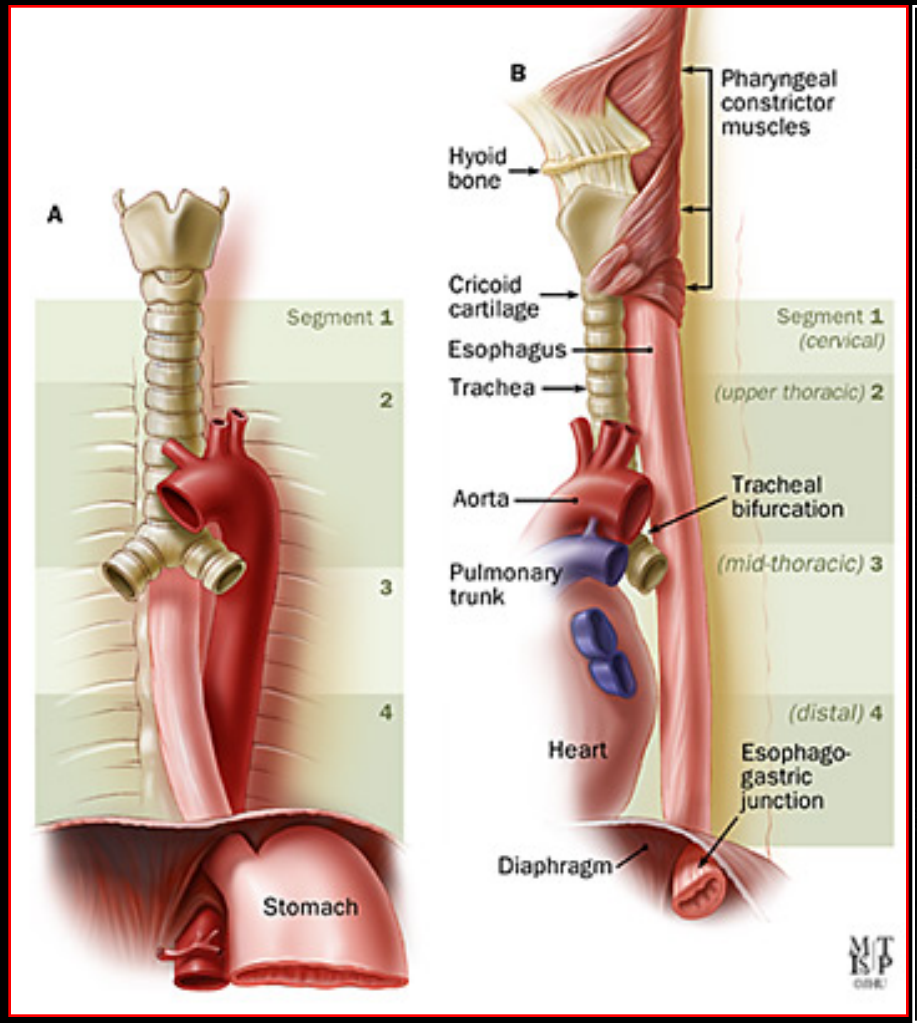
Prof.dr Simon Nikolić
opšta medicina 2

Radiološka dijagnostika digestivnog trakta

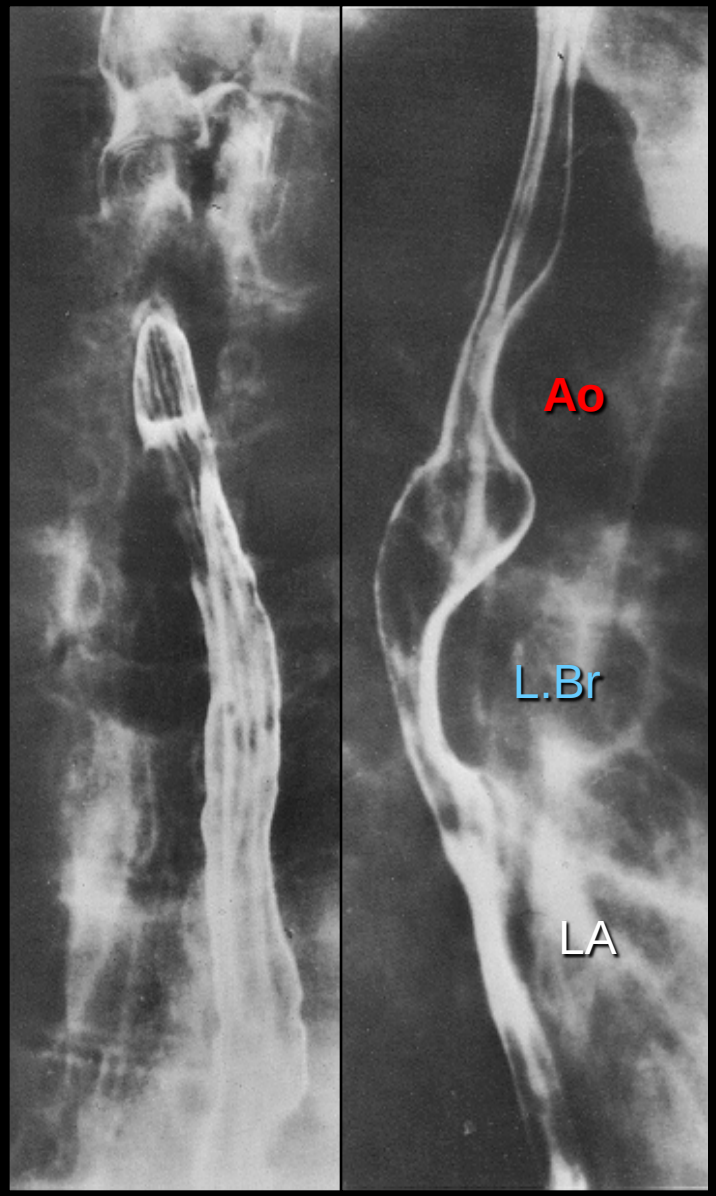


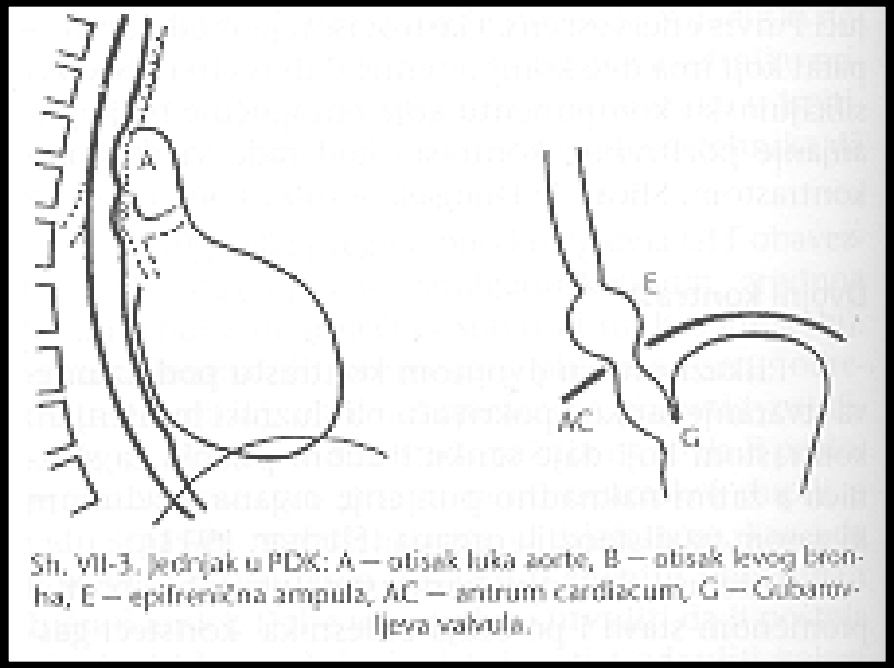
MMXV

Jednjak


A
Segment 1
2
3
4
Stomach
B
Hyoid bone
Cricoid cartilage
Esophagus
Trachea
Aorta
Pulmonary trunk
Heart
Diaphragm
Pharyngeal constrictor muscles
Segment 1 (cervical)
(upper thoracic) 2
Tracheal bifurcation
(mid-thoracic) 3
(distal) 4
Esophago-gastric junction

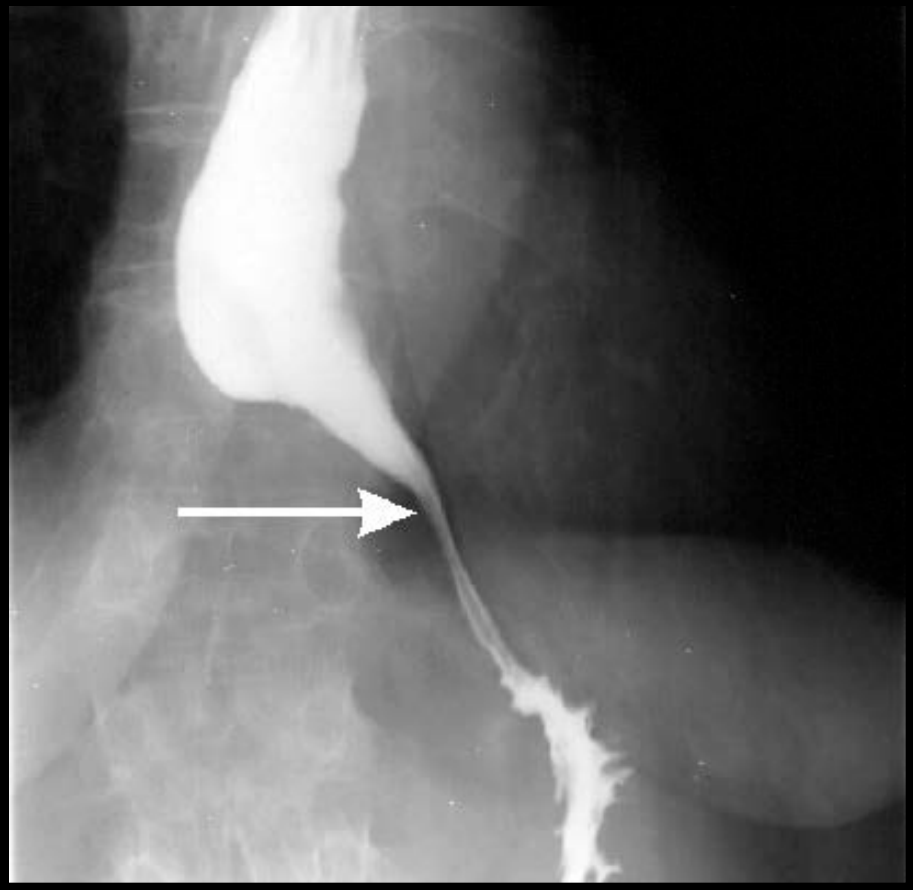

4
5
6
7
7
1
3
1
2
3
1
2





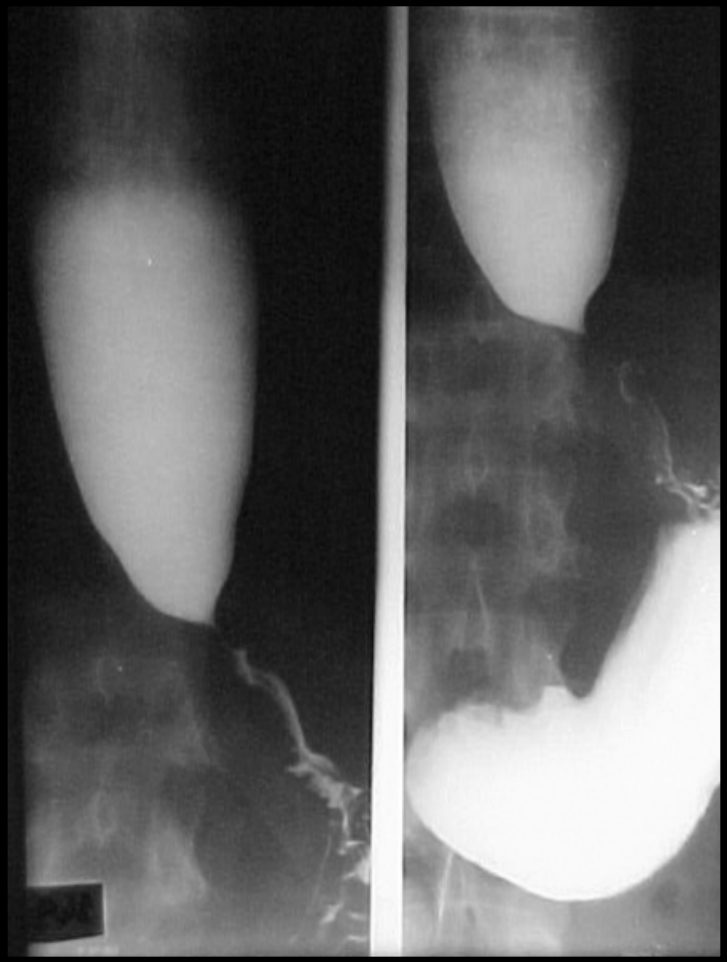
Sh. VII-3. Jednjak u PDK: A — otisak luka aorte, B — otisak lijevog bronha, E — epifrenična ampula, AC — antrum cardiacum, G — Gubarovljeva valvula.

Ahalazija



Suženje jednjaka neposredno pred kardijom nastaje zbog urođenog nedostatka parasimpatičkog spleta





Rtg.

Položaj normalan

Proširen pre suženja,

sužen pred kardijom

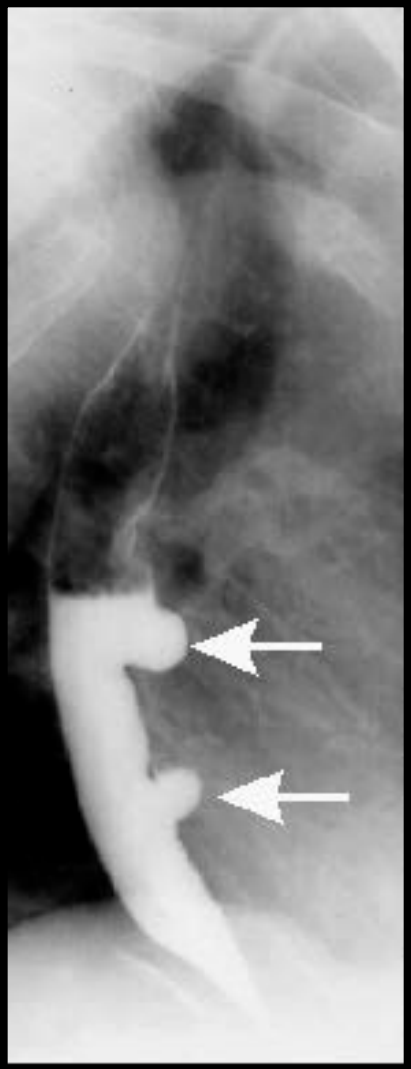
Reljef sluznice očuvan,

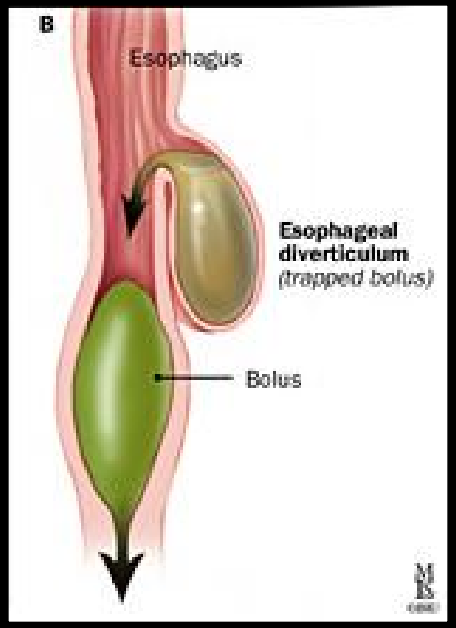
pravilnih nabora

Peristaltika

u početku dublja, kasnije nema

Divertikulumi





Ograničena prišireniа jednjaka.

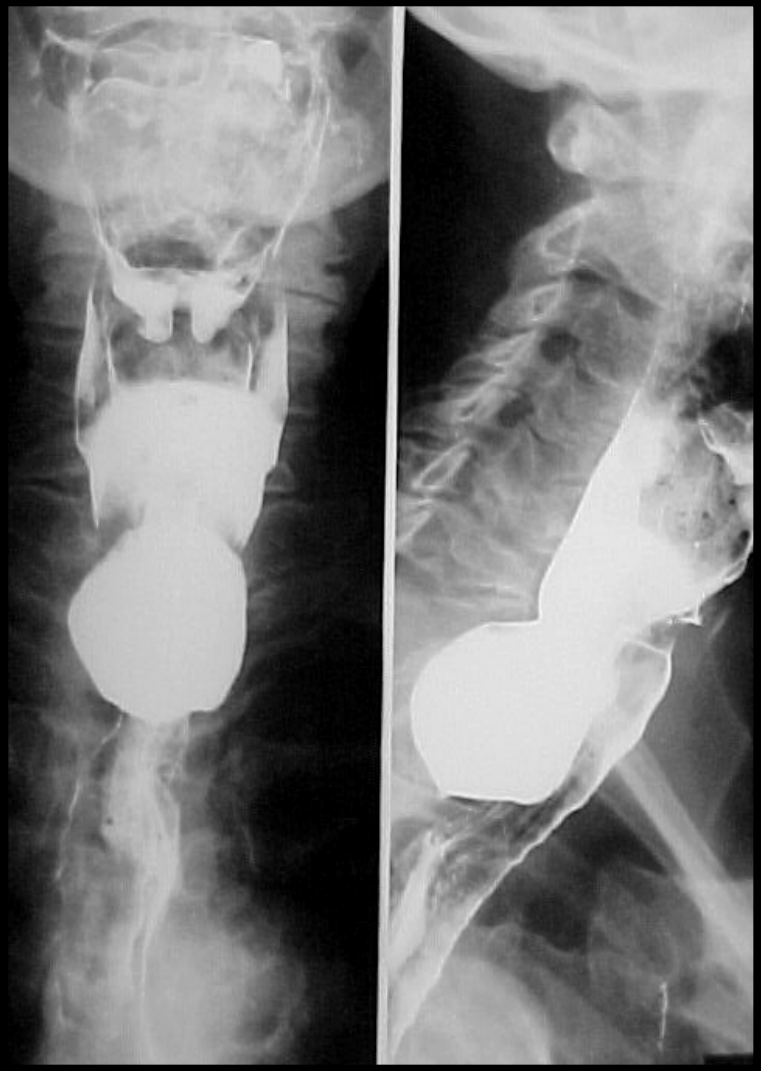
Način nasanka:

- pulsioni
- trakcioni
- funkcionalni

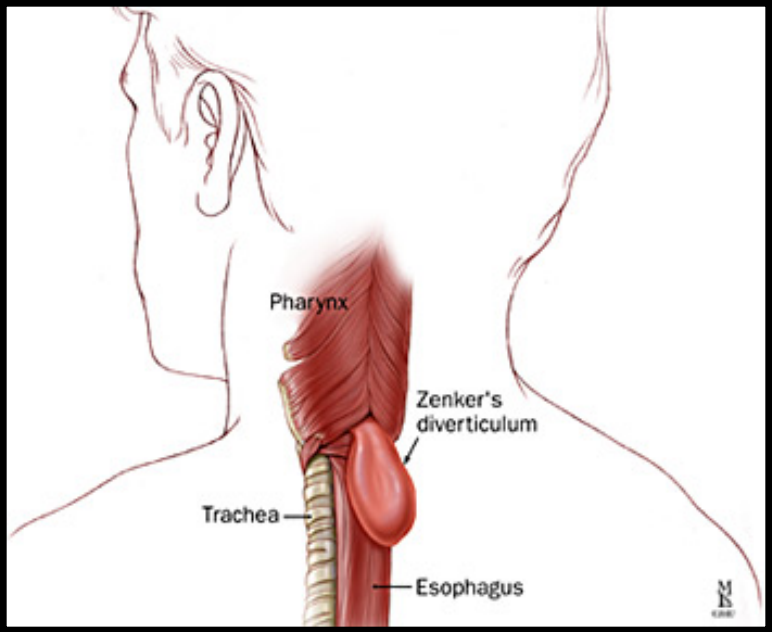
Po likalizaciji:

- faringo-ezofagealni
- epibronhijalni
- epifrenični

Zenker-ov



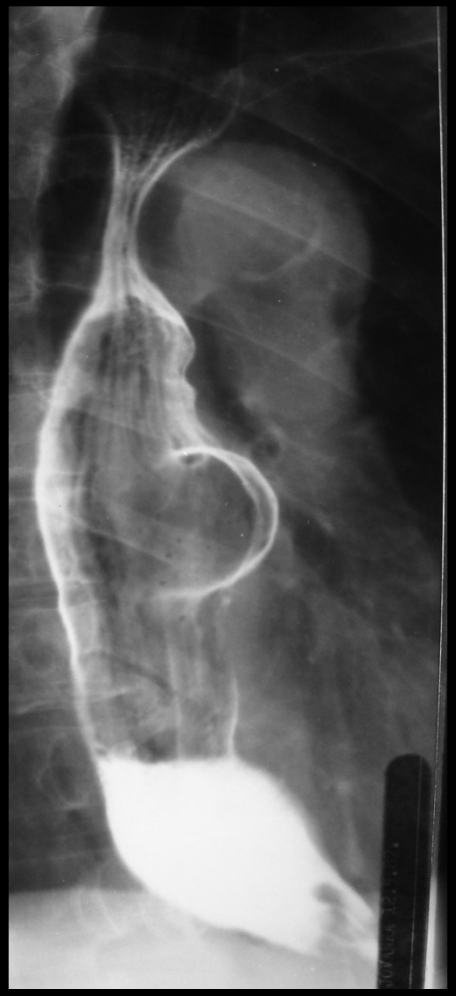
Faringo-ezofagealni
Na zadnjem zidu u Lajmer-ovom trouglu



Epibronhijalni

Epifrenični







Trakcioni

Pulsioni

Karcinom



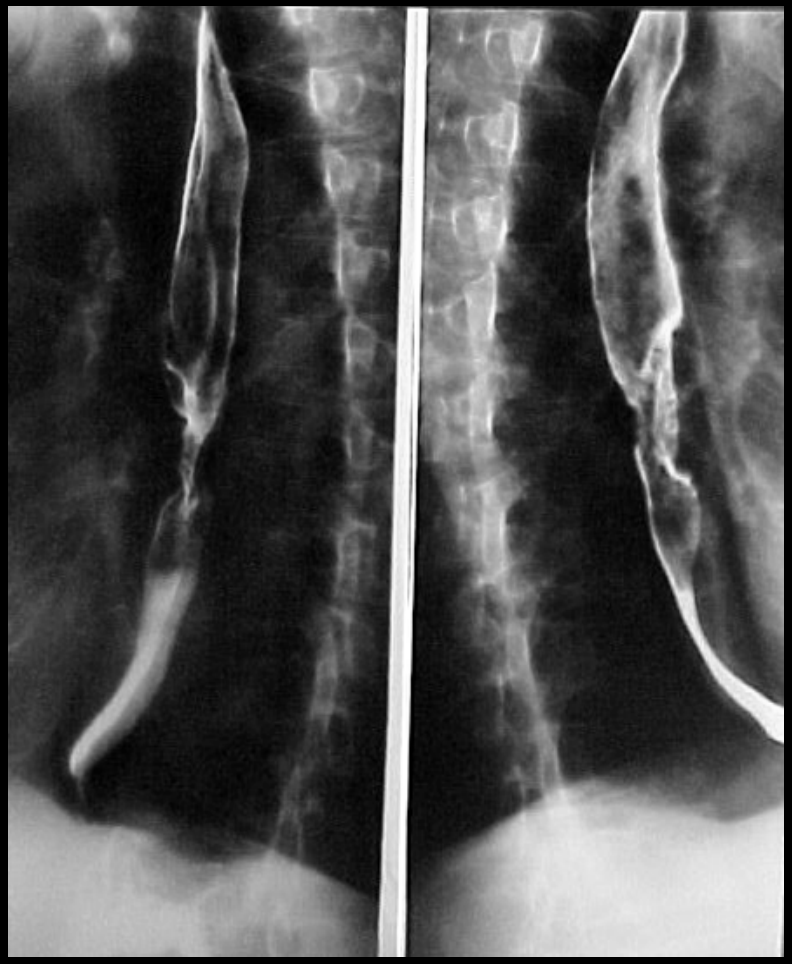
Na fiziološkim suženjima

Medularni ekspanzivno, razara sluznicu, prodire u lumen

Skirusni submukozni, infiltrativno ograničeni nedostatak peristaltike

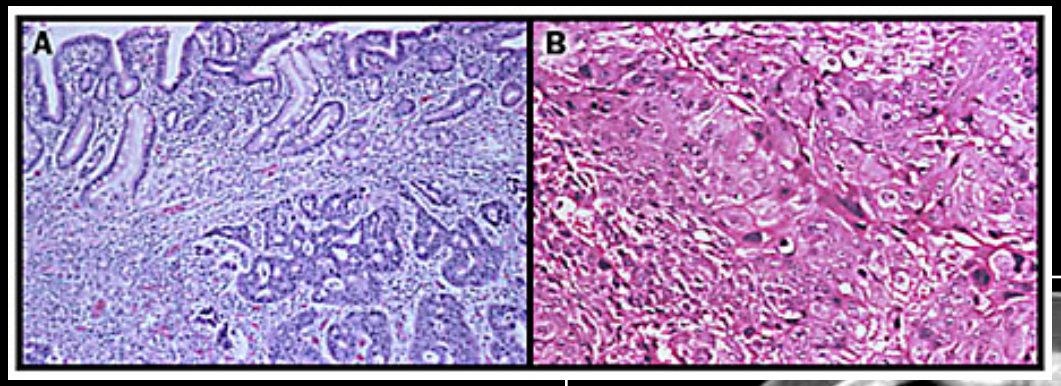
= Ulcerativni



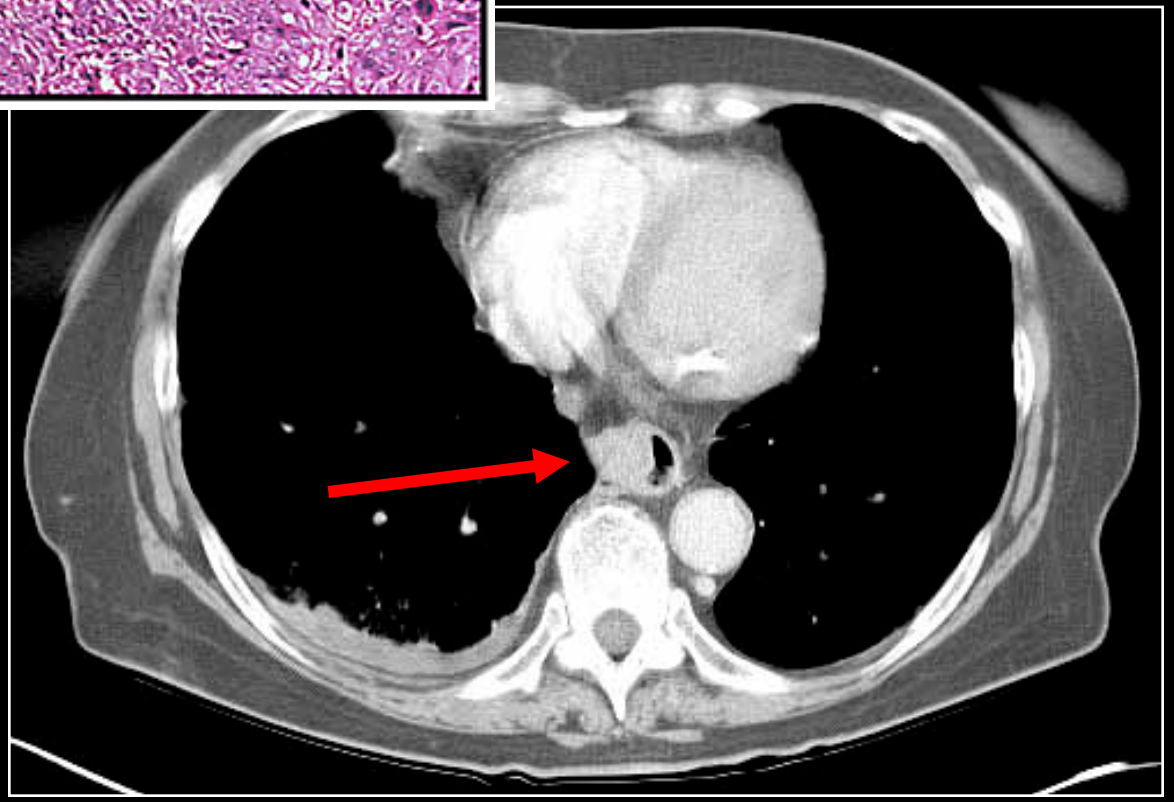


Rtg.

- Nepravilna kontura
- Reljef sluznice zbrisan
- Lakunarni defekt, cirkularni defekt



Adeno ca
Squamocell ca



Variksi





<u>Gornja 1/3</u>

Opstukcija VCI

iznad ulivanja **v.azygos**

<u>Donje 2/3</u>

Portna hipertenzija

V.porte

vv.coronariae ventriculi

vv.oesophagicae

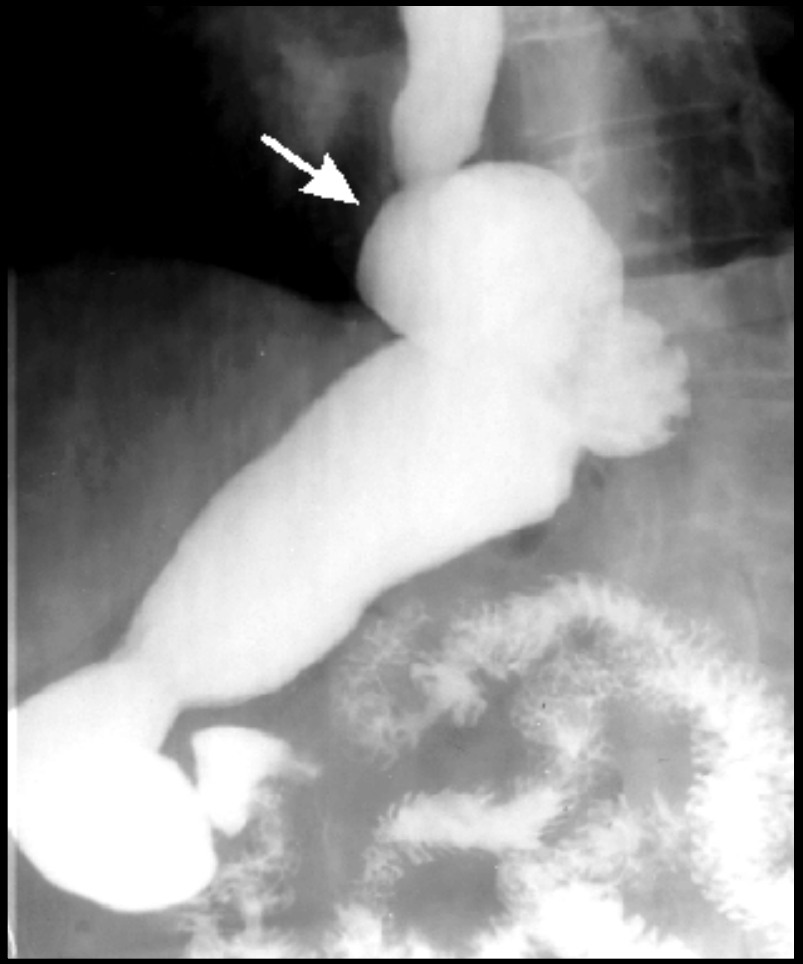
VCI

Dif.Dg.

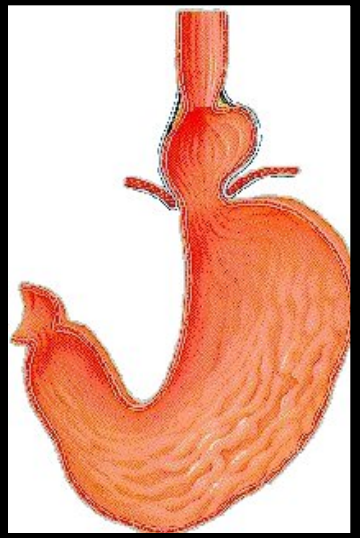
Ca

chr. gran. ezofagitis

Hiatusna hernija



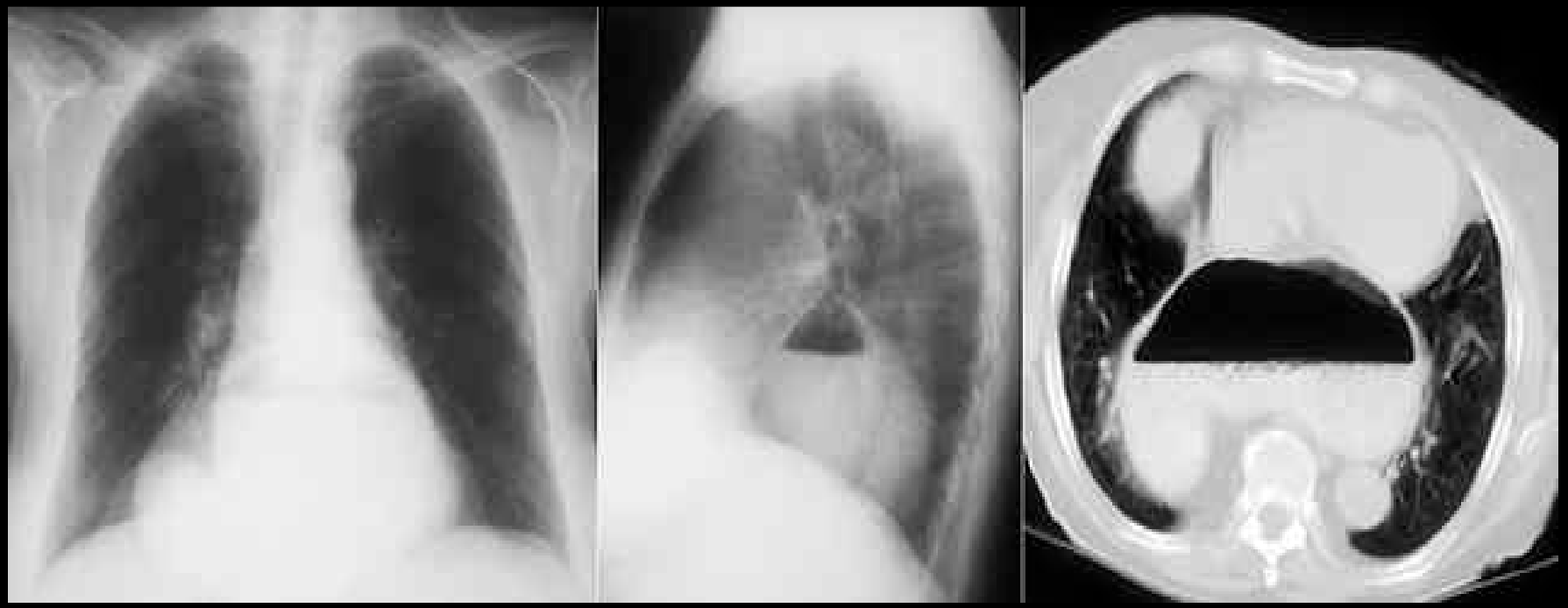
Prodor dela tela želuca kroz hiatus iz abdomena u toraks



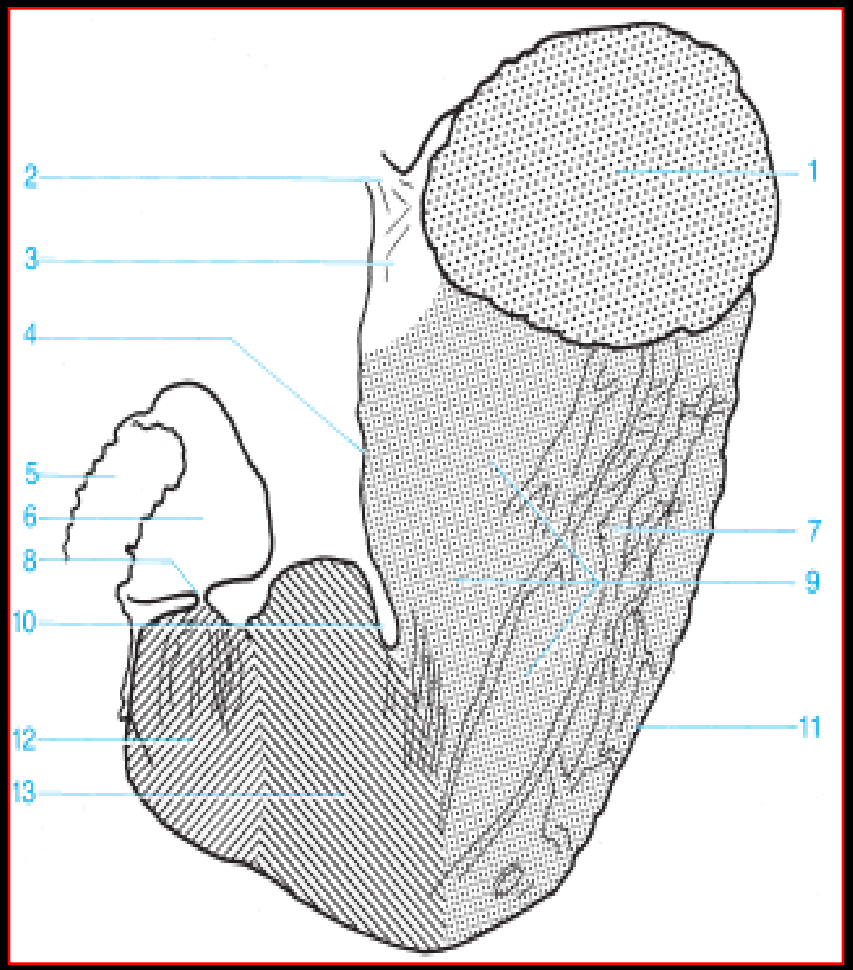




Klizajuća ezofagogastrični spoj kroz hiatus
Paraezofagusna kardija na svom mestu a deo želuca u toraksu

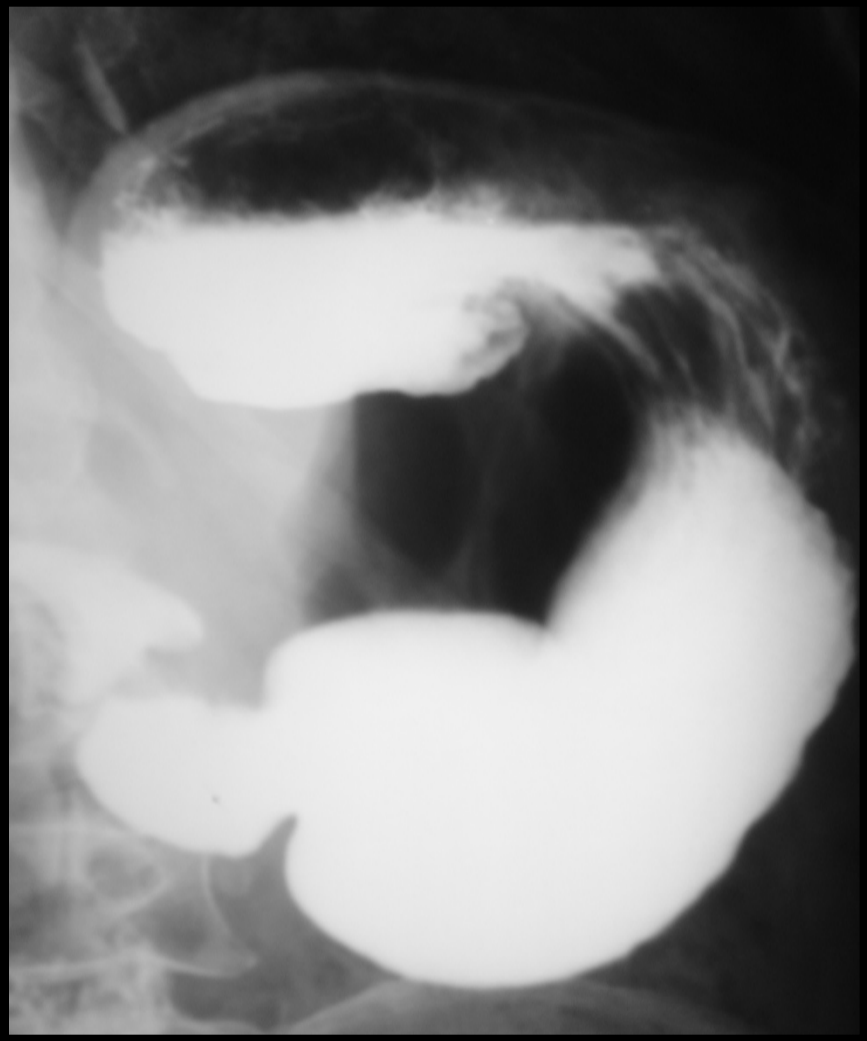


Želudac





Kaskada



Promena položaja

Nepatološka:

- meteoristično kolon, aerofagija, spazam želuca

Patološka:

- ulkus, Ca, athezija

Divertikulum



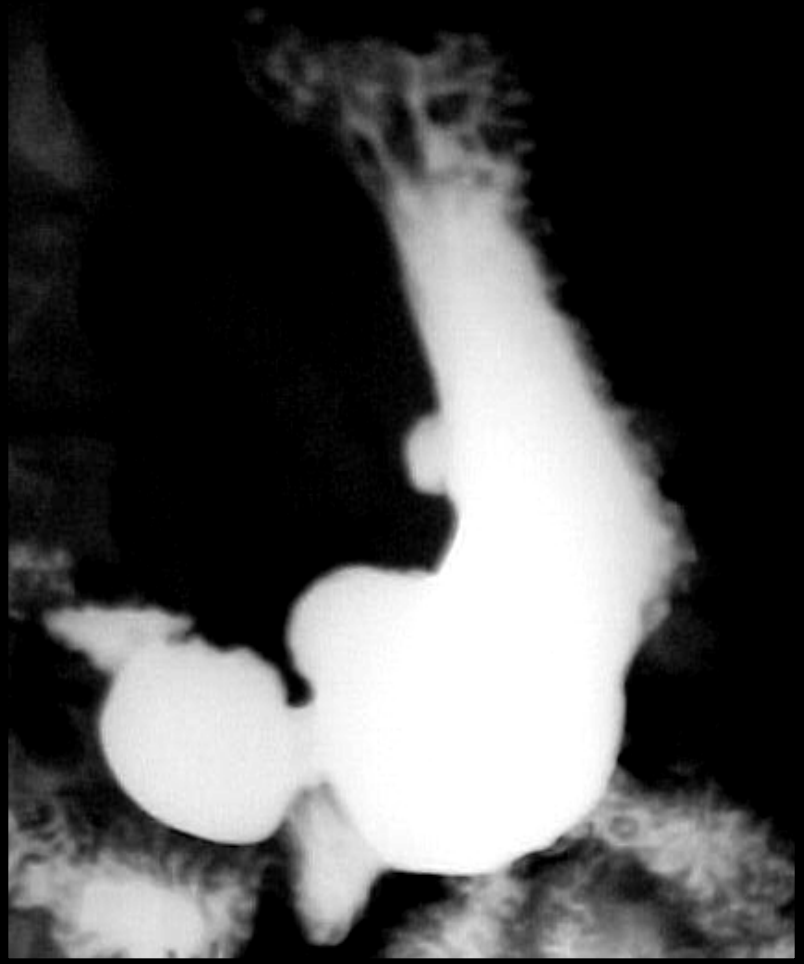
Pulsioni (retki)

kardija, mala krivina, pozadi

Trakcioni

perigastrične athezije od zapaljennja pankreasa i ž.kese

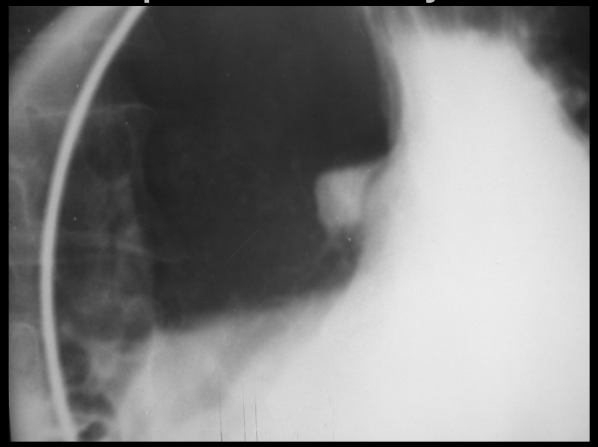
Ulcus (čir)



Rtg: **acc** (profil)

- ulkusna niša **+**
- oštre konture
- edem sliznice

Hampton-ova linija



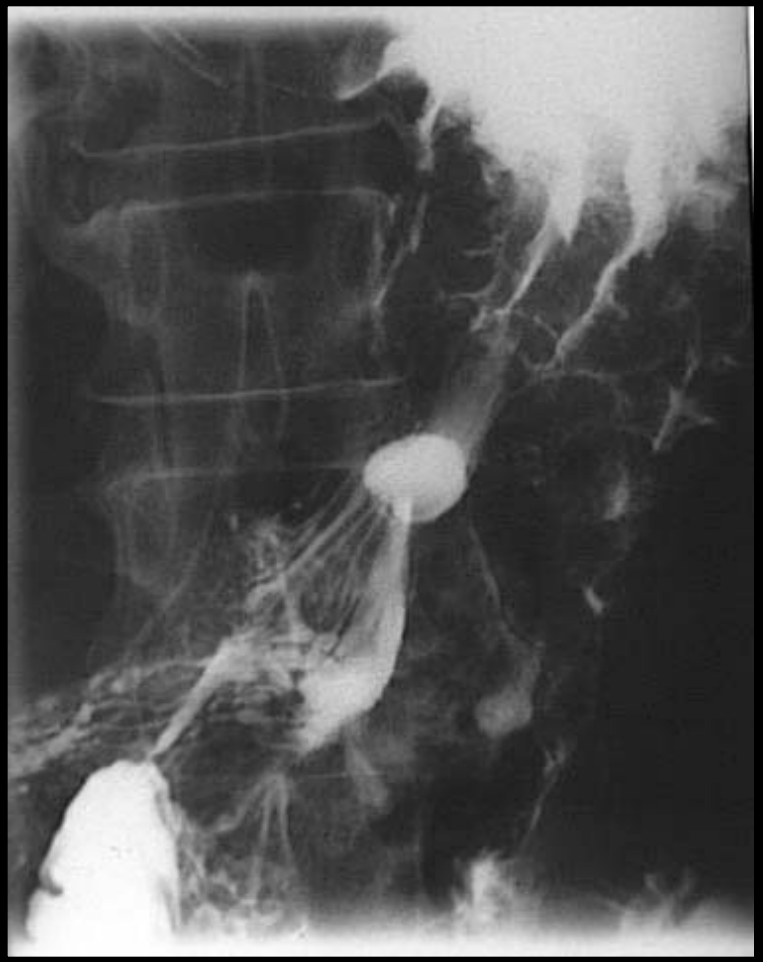


Rtg: **<u>acc</u>** (u reljefu)

ovalni depo kontrasta

oivičen svetlim haloom





Rtg. **<u>chr</u>**

ožiljna kontrakcija, neprekinuta konvergencija nabora



Indirektni znaci

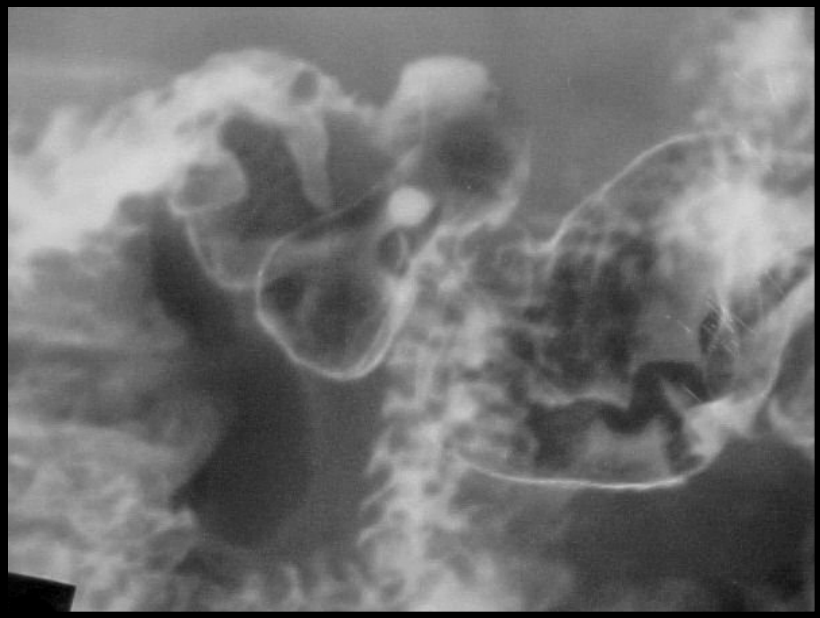
incizura vodilja (spazam u vidu useka),

kardio ili piloro spazam,

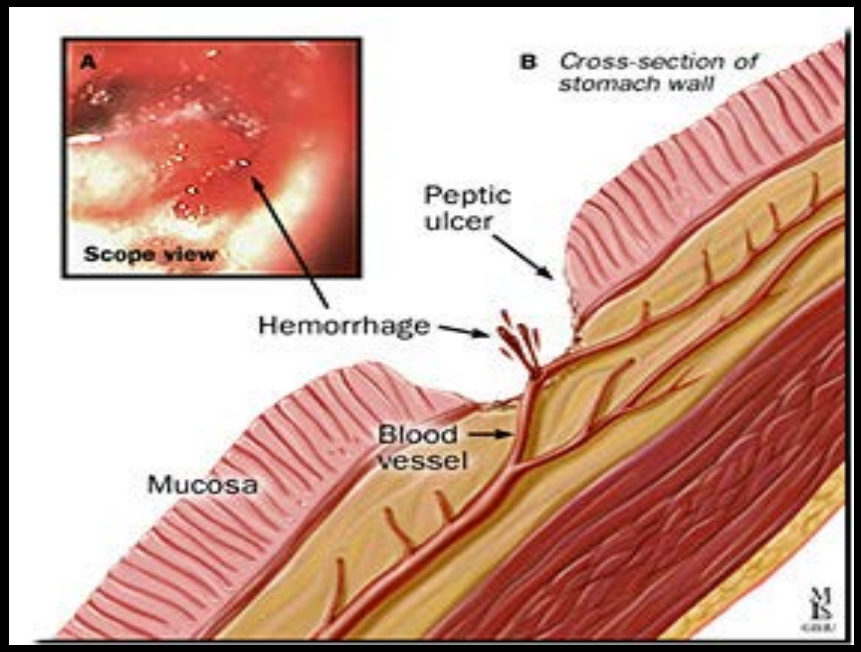
hipersekrecija.

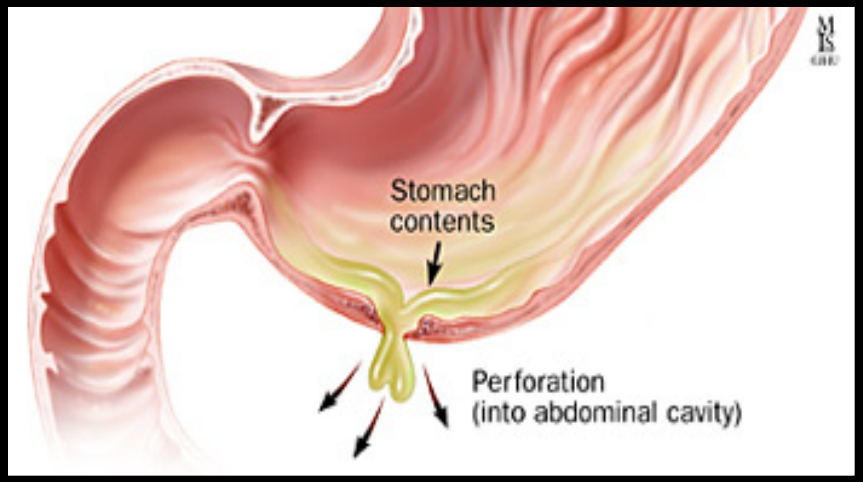
ulcus duodeni

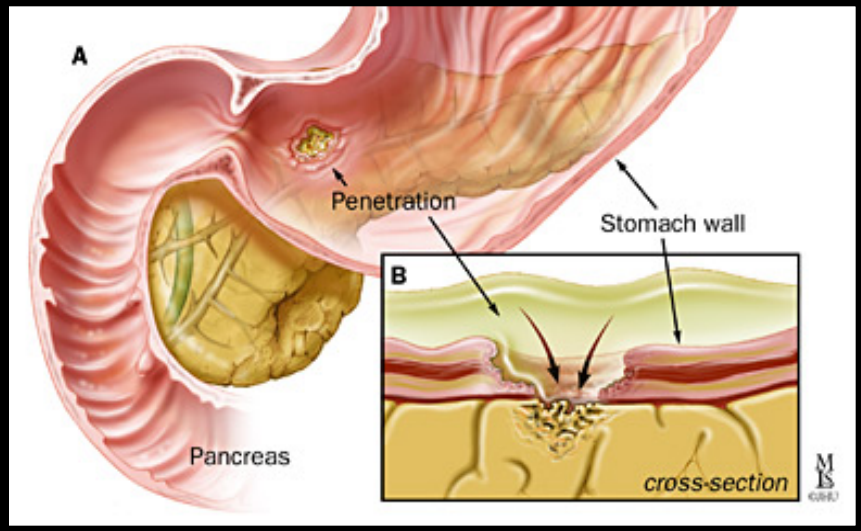


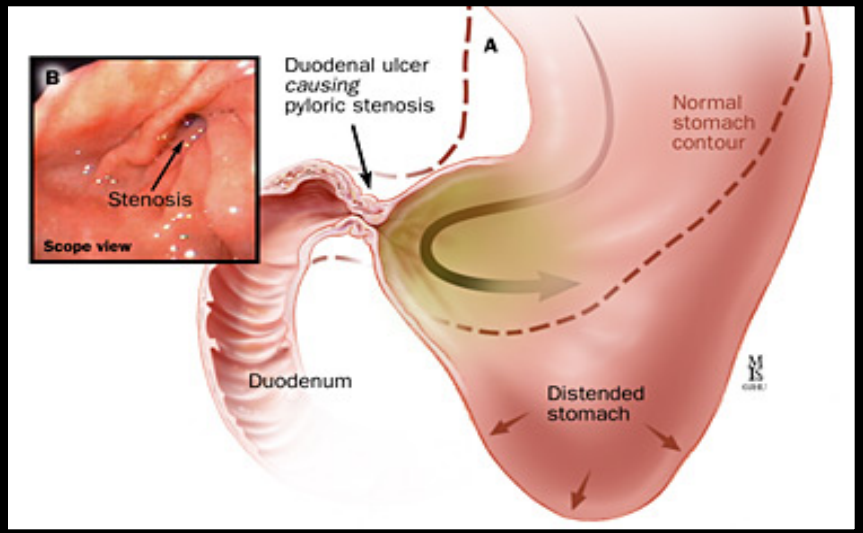


Komplikacije







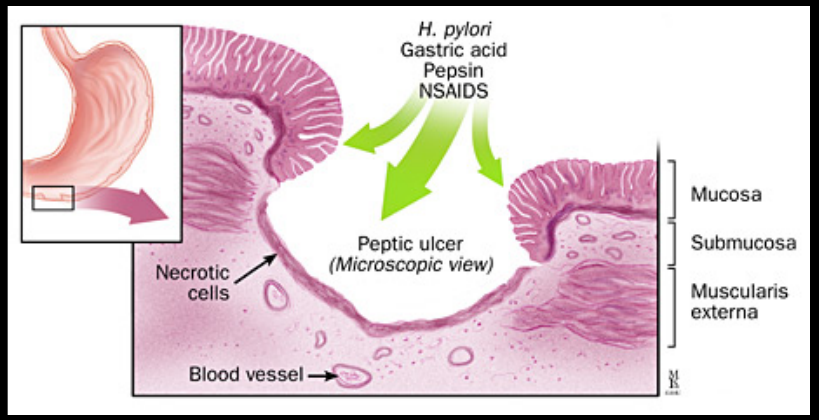


Komplikacije





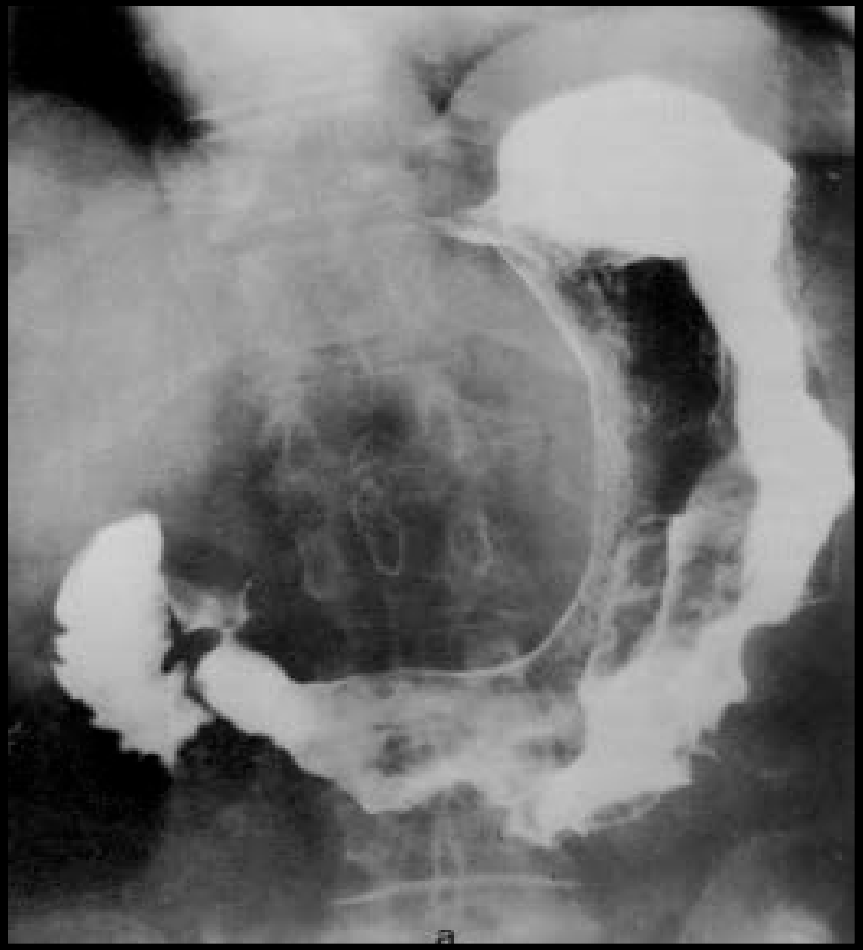
"Peščani sat"
postulcusni ožiljak
asimertično suženje za razliku od Ca.



TU



Fibrom



Limfom

Ca želuca



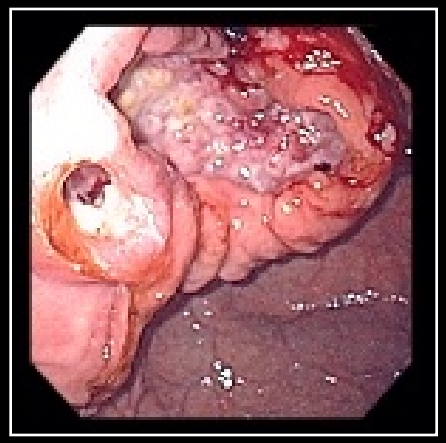
Rani Ca

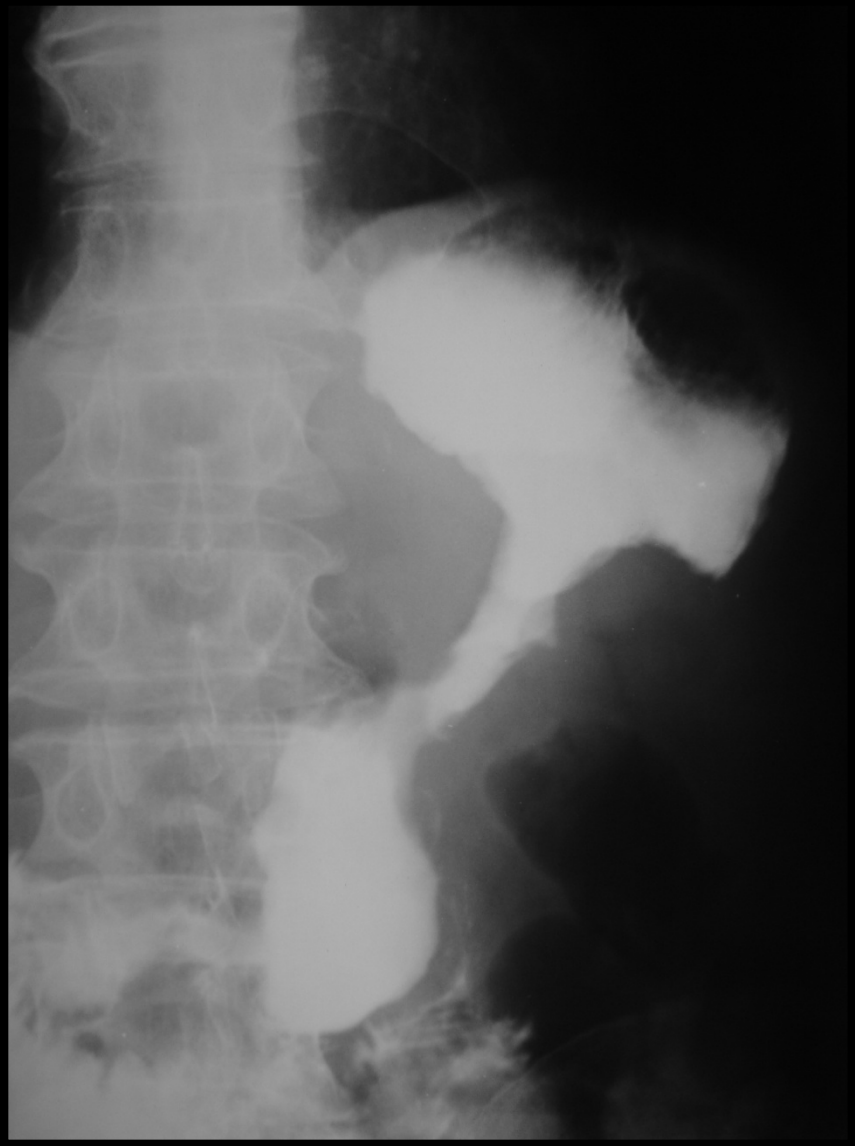
"niša na platou"

- plitka niša široke baze, u nivou ili lako prominira ispod male krivine,

"daska na talasima"

- zona rigiditeta





Medularni (vegetativni)

lakunarni defekt nepravilnih neoštrih kontura

egzulceracija + u - senci, nepravilnih kontura

peristaltički talasi nedostaju

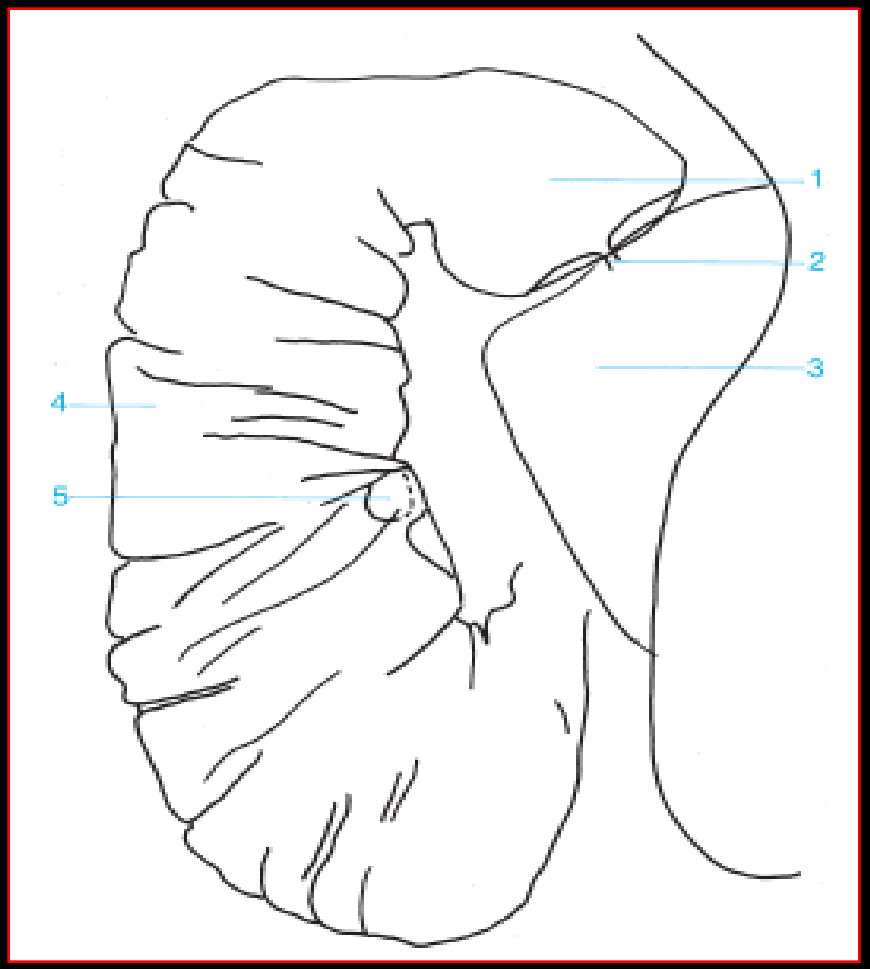


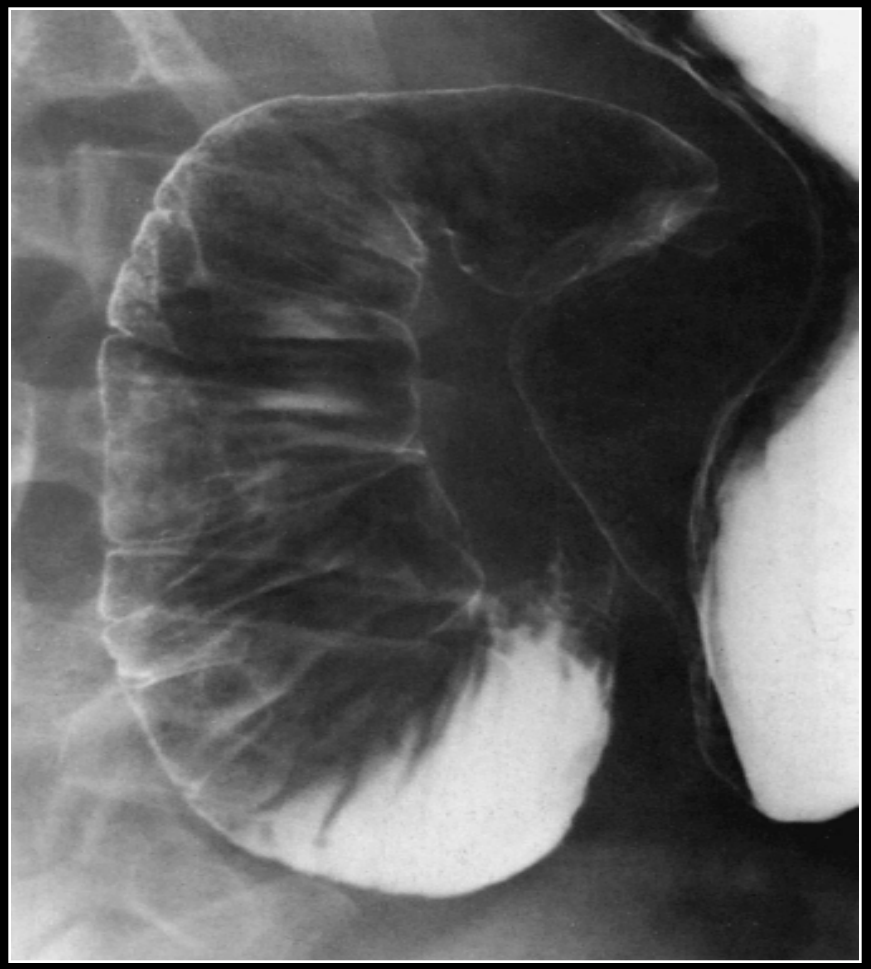


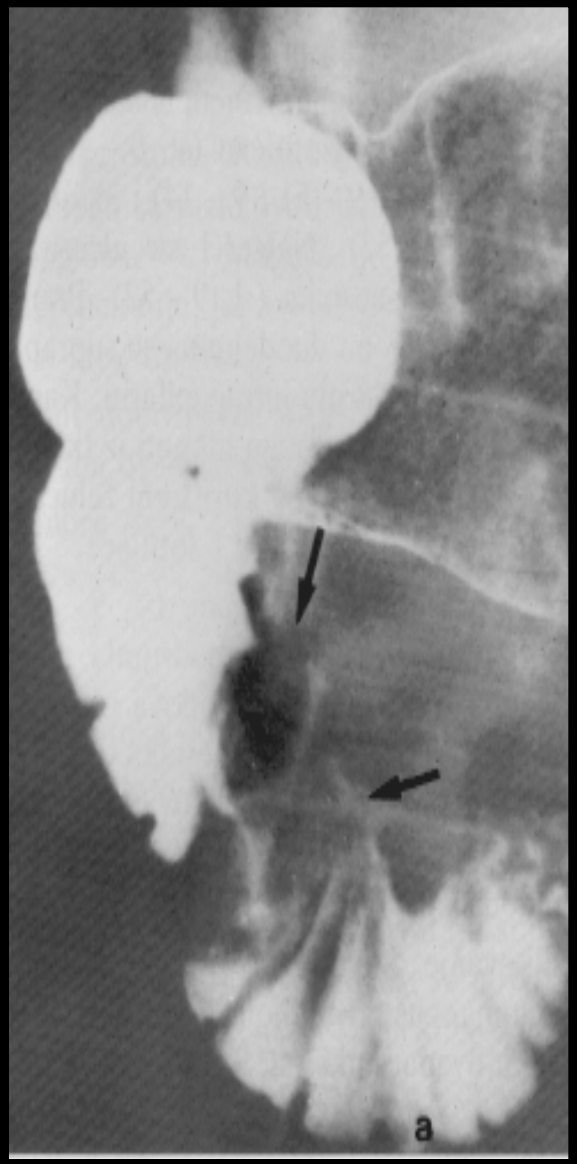
Skirusni (infiltrativni)

- Lokalni
  suženje lumena
  prox. dilatacija
- Difuzni (češći)
  u celini želudac smanjen (mikrogastrija)

Duodenum





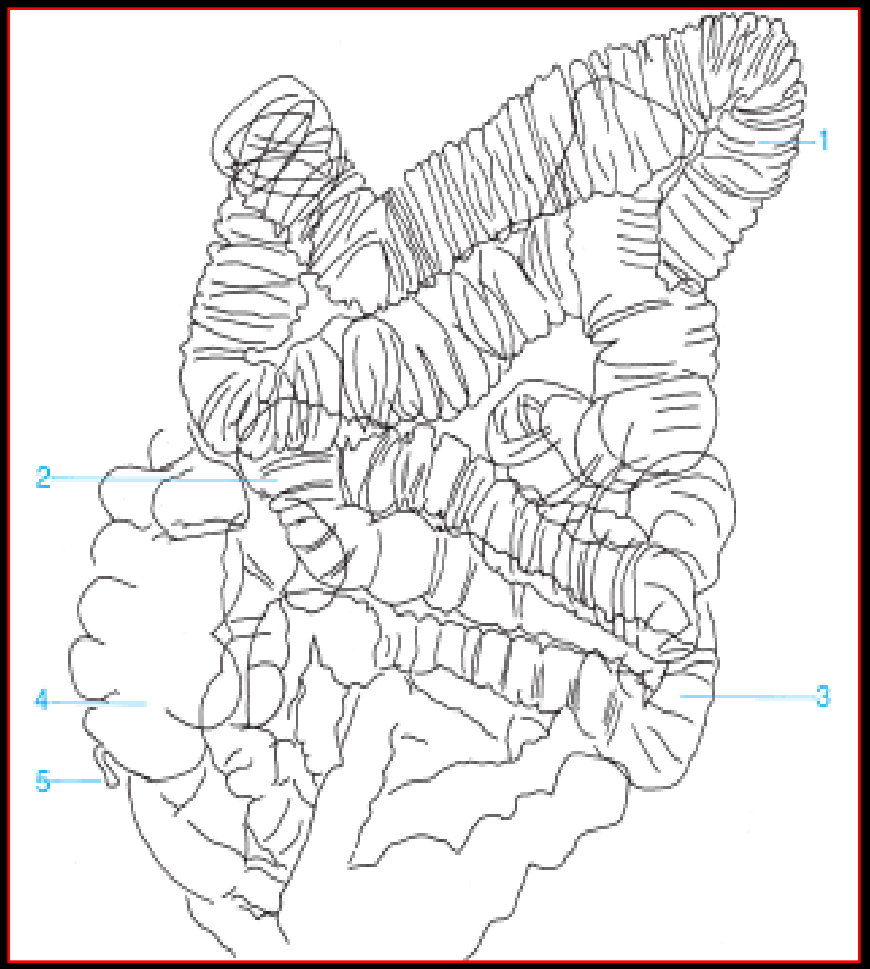




Polip

Stenozirajući Ca

Tanko crevo

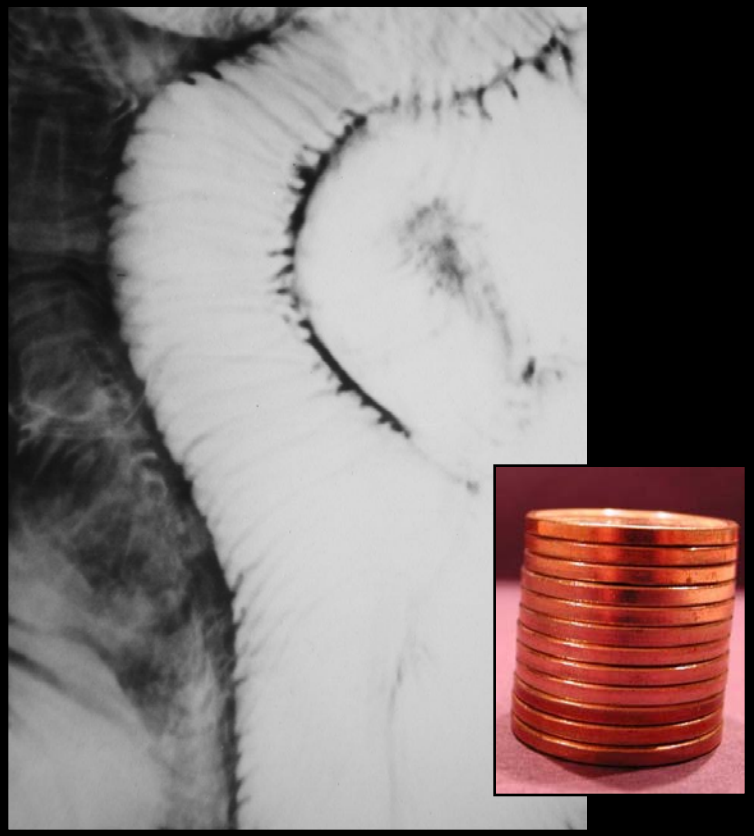




2 rendgenska znaka infiltracije tankog creva zavisno od “dubine infiltracije” zida creva

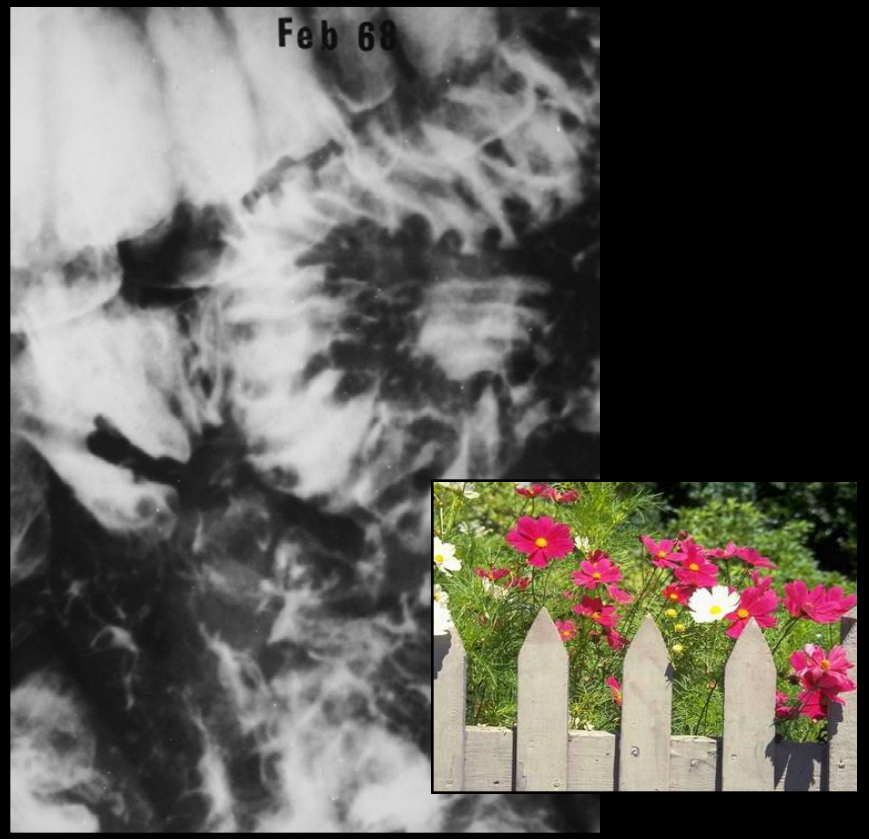
“Plitka” - izgled novčića”

malapsorpcioni sy



“Duboka” - izgled drvene ograde

limfoidna infiltracija



Malapsorpcioni Sy



Nedovoljna razgradnja i otežana apsorpcija

I. Spru, glutenska enteropatija, celiakija

II. (češći) oboljenja git



Rtg: Nativ

distenzija tankog creva gasom, ponekad nivo tečnosti

Pasaža sa K.S.

- Spazam i razlika u tonusu
- **Dilatacija** gornje 2/3
- Hipersekrecija, **Dilucija**
- Flokulacija,

  Fragmentacija

  Segmentacija

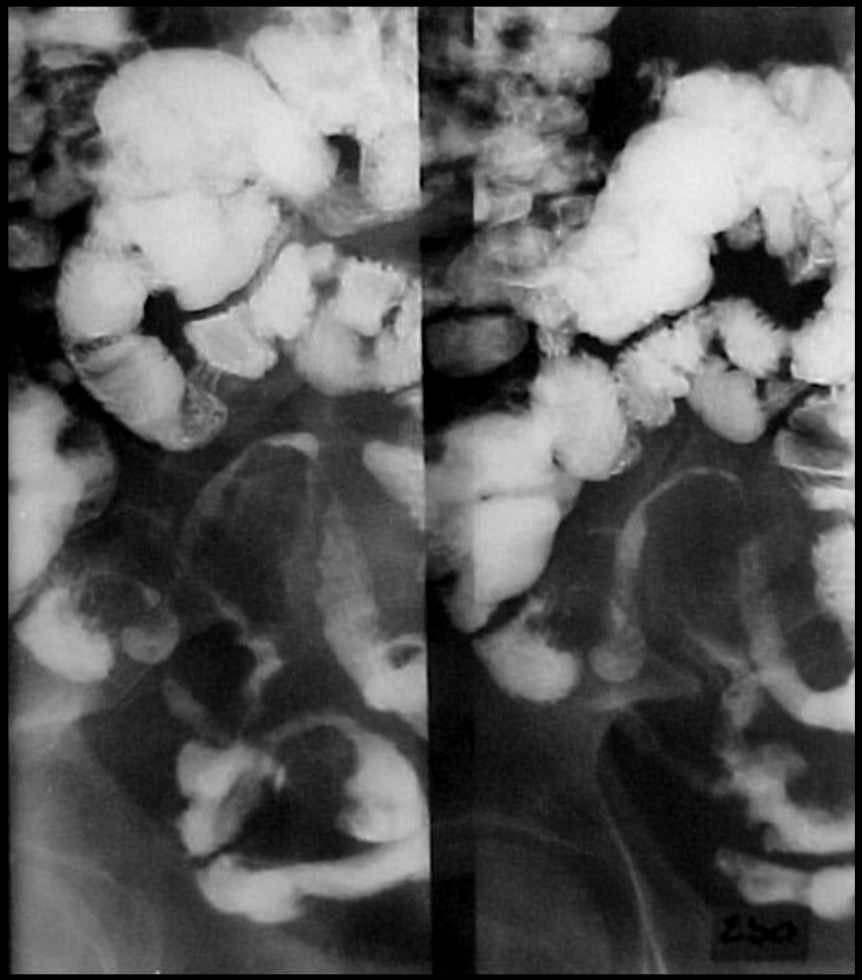
mb Whipple



Rtg:

Lumen dilatiran, zadebljali nabori, defektim oštro ograničeni

mb Chron



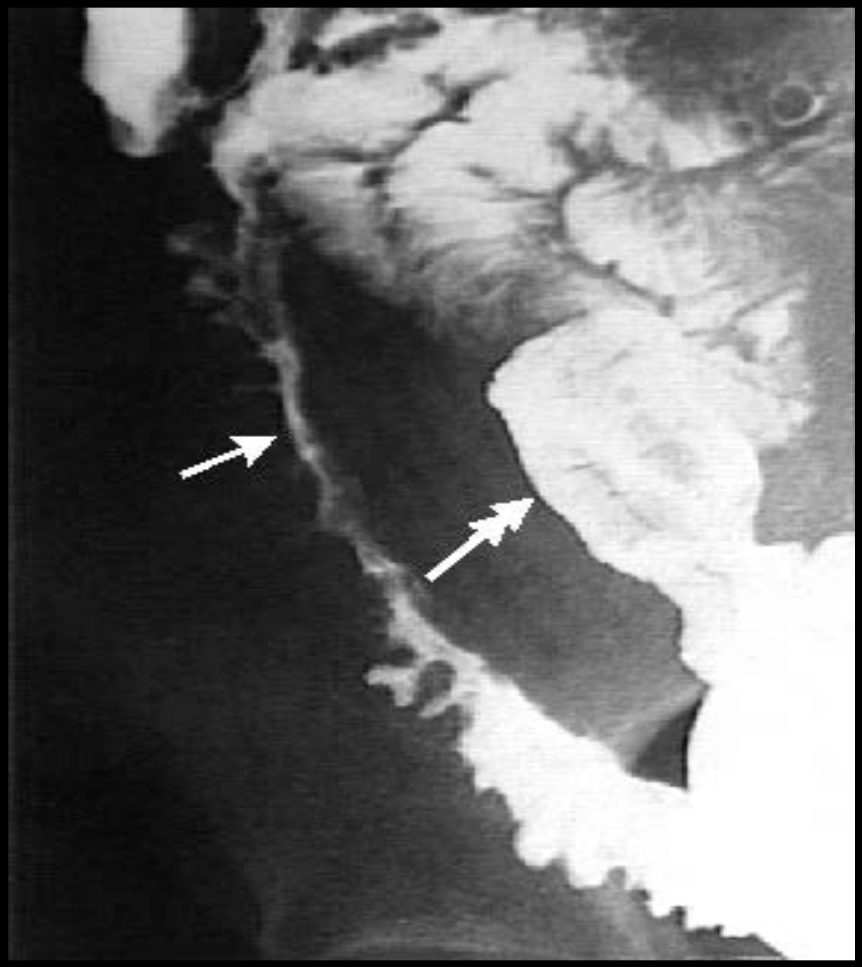
Rtg:

- **<u>Lok.</u>**

  u desnoj polovini kolona,

  suženja lumena,

  reljef kaldrme



- **<u>Dif.</u>**
  suženja na preskoke,
  nejednaka širina lumena,
  konture neravne,
  reljef sliznice granuliran sa polipoidnim izgledom.

Dif.dg. ulcerozni colitis, Tbc

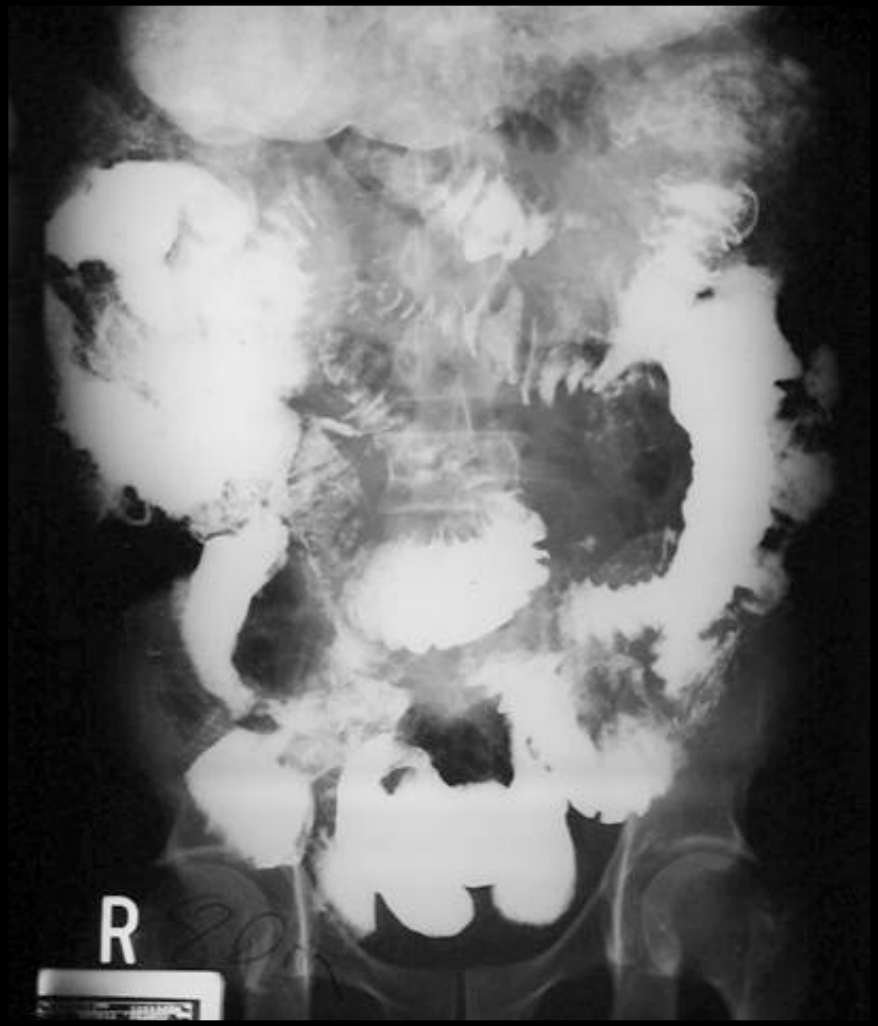
Lymphosarcoma



- **Polipoidni** intrususcepcija
- **Nodularni**

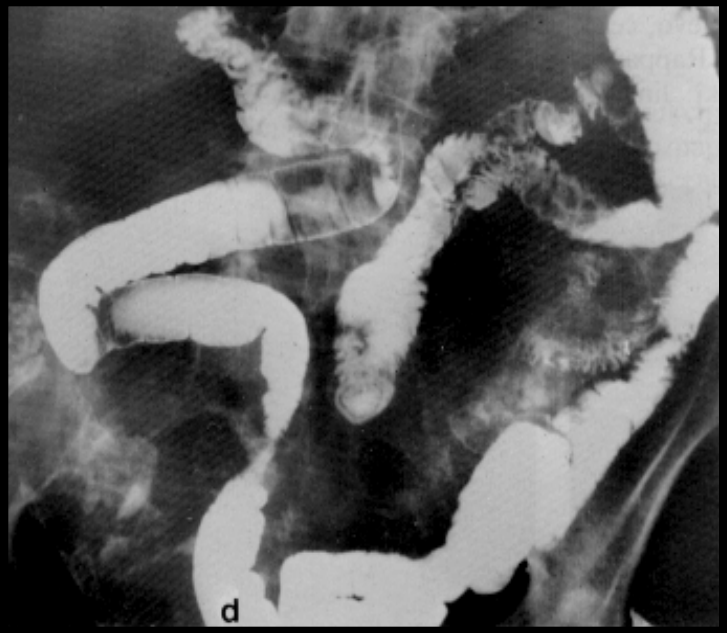
  intramuralni i intralumenski defekti
- **Endo-egzo enterični**

  prostrana nepravilna formacija sa ulceracijama i multiplim fisurama koja komuniciru sa susednim organima

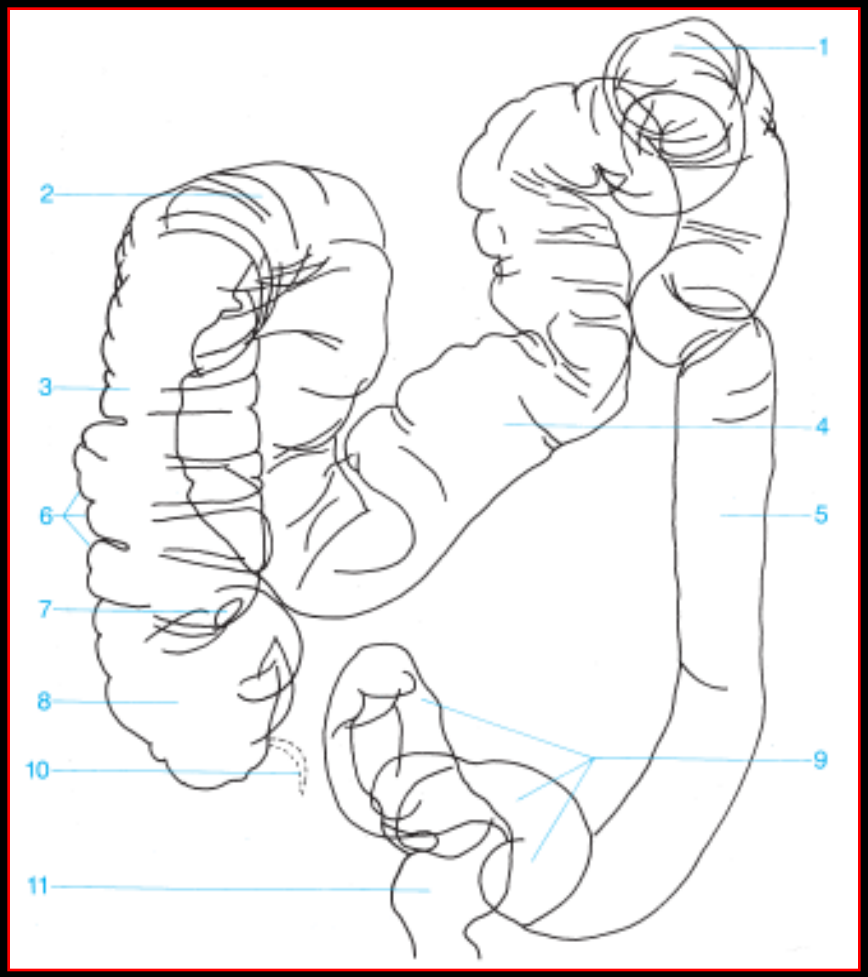


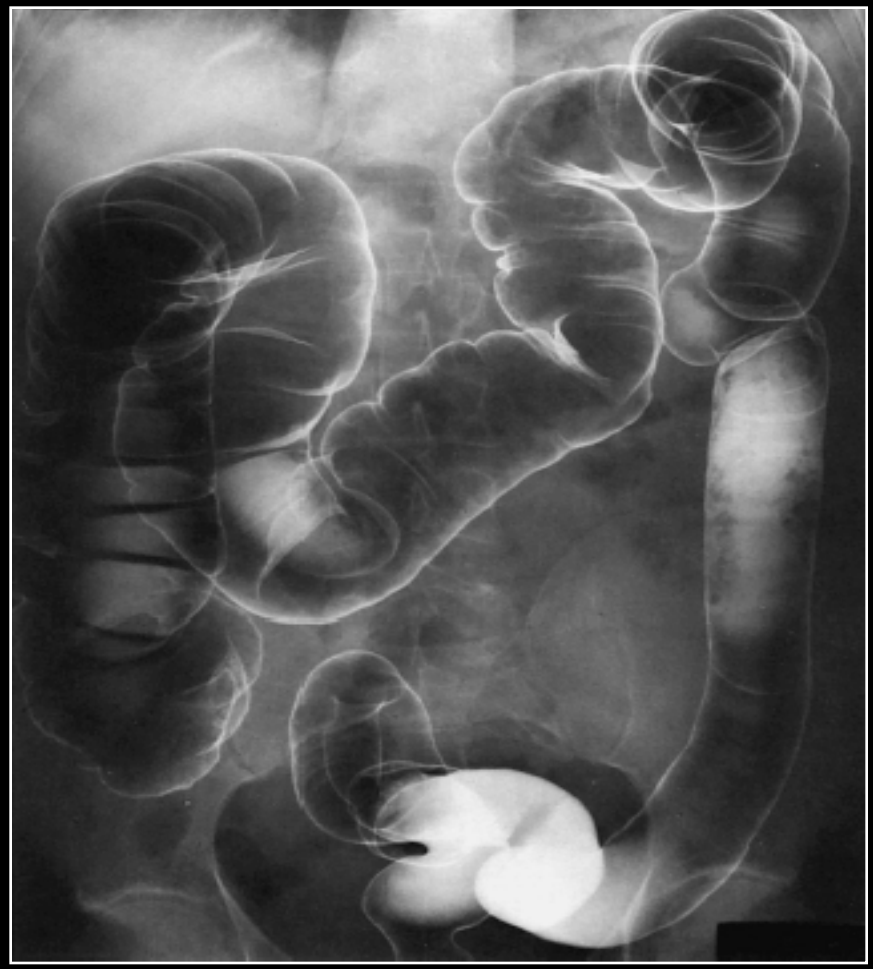
- **Infiltrativni**

1. zid difuzno infiltrisan u manjim segmentima i ekscentrično sužen
2. lokalizovano proširenje, konture glatke ali nepravilne bez reljefa



Kolon





Ulcerozni kolitis

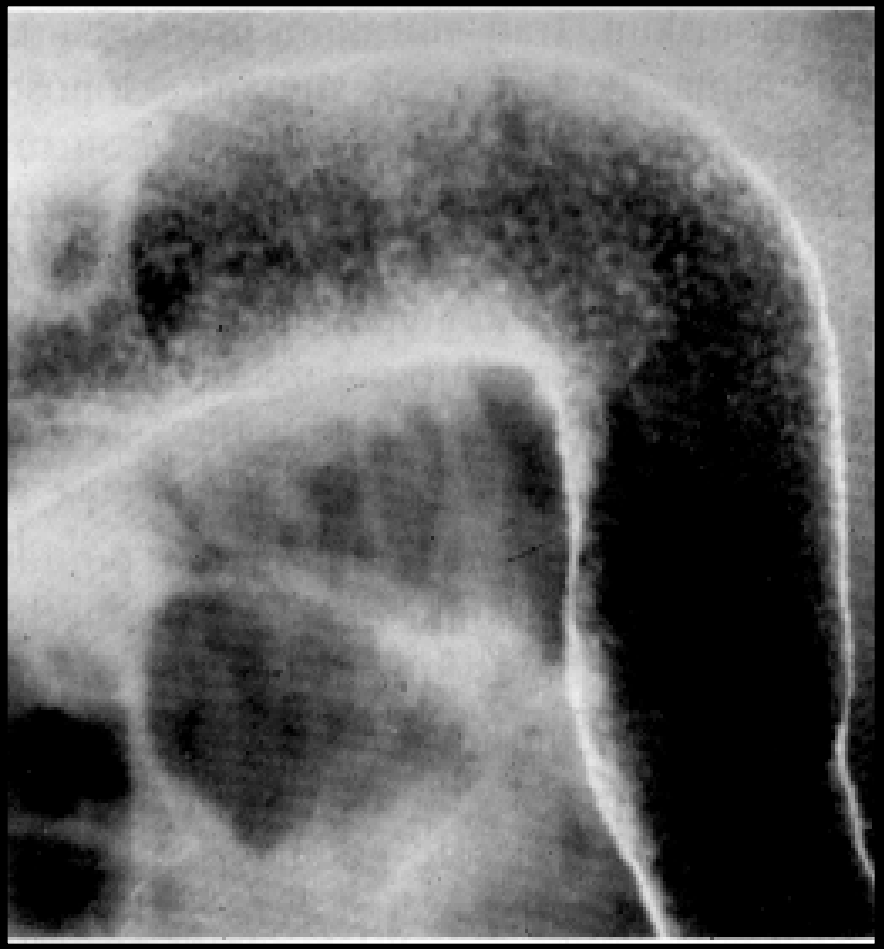


Chr upala sluznice i podsluznice

Rtg:

- acc fulminanatni oblik
- dilatacija sigme i transferzuma, zadebljan zida, pseudopolipoza.

$\underline{Ba_2SO_4}$ Ø



2. gubitak haustracija
   mnogobrojni plitki ulkusi

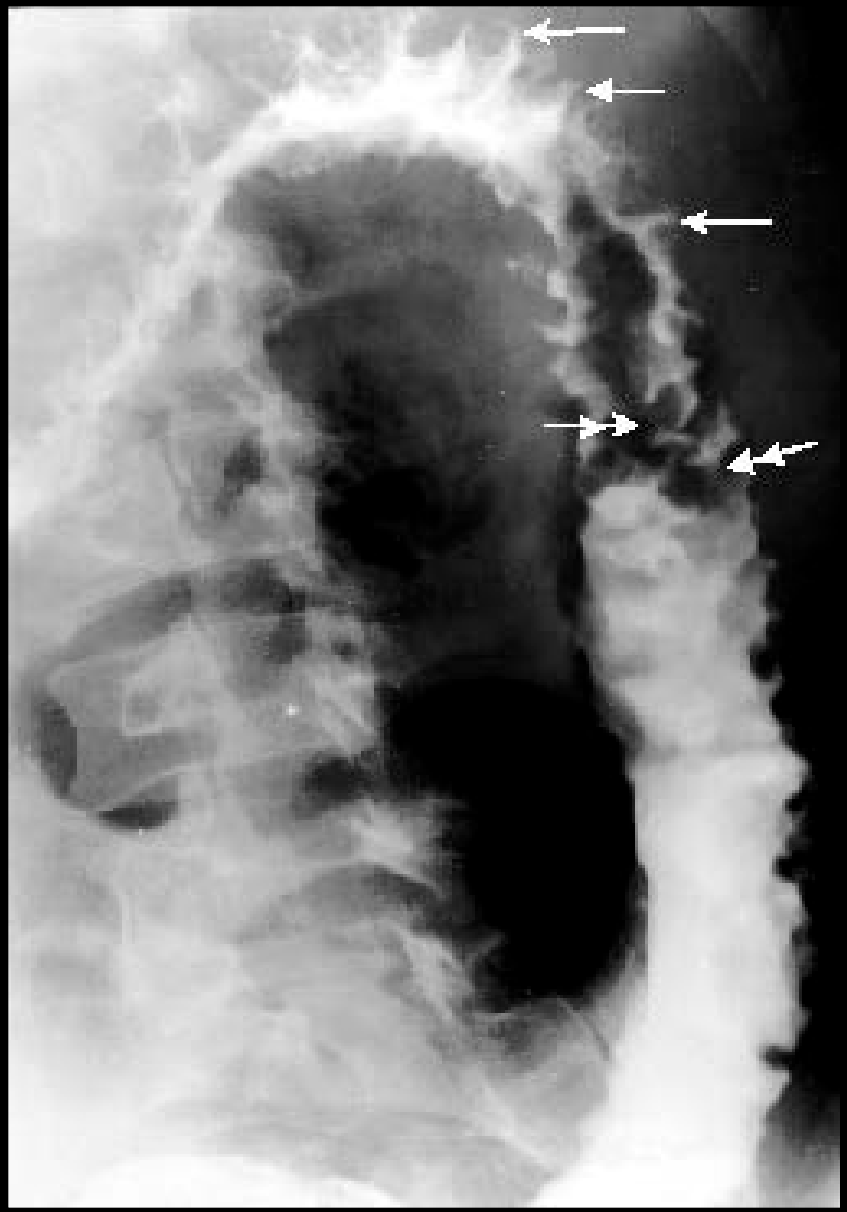




3. duboke ulceracije, dupla kontura,

nejasan reljef zbog sluzi, krvi i gnoja





4. psudopolipozni izgled
   regresija i delimična raparacija

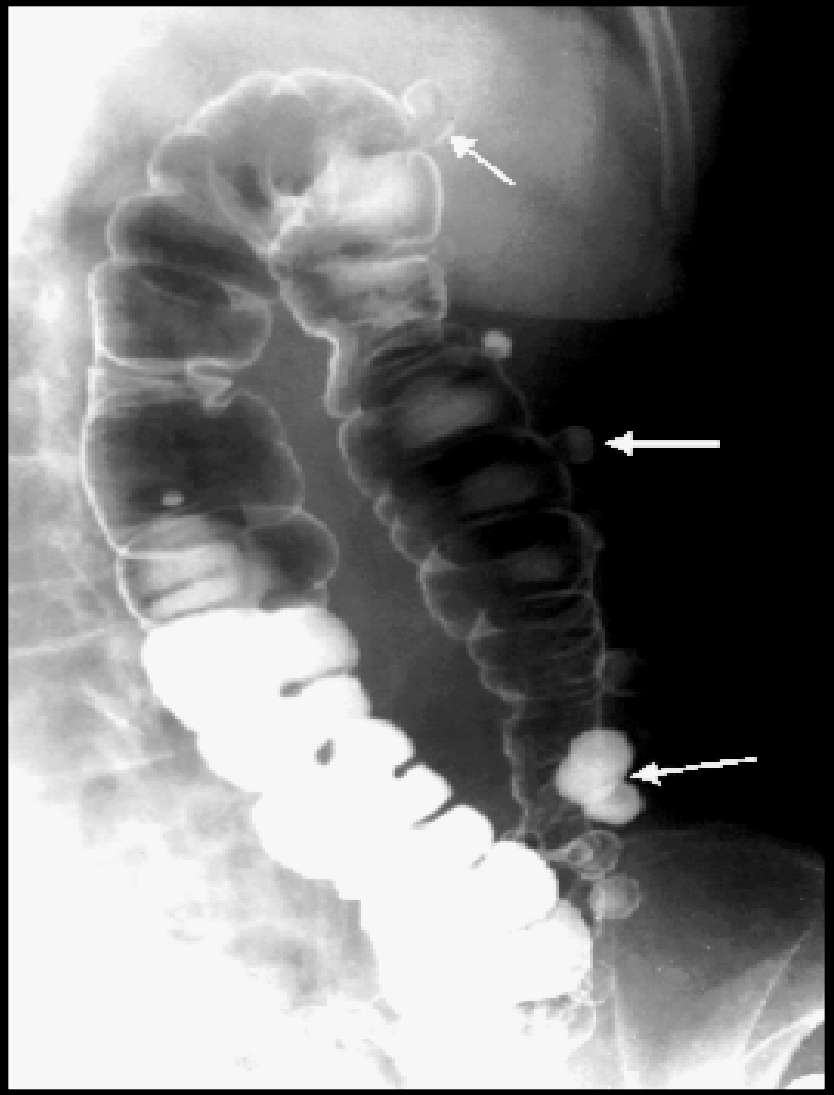


5. olovna cev

rigidan neelastičan zid

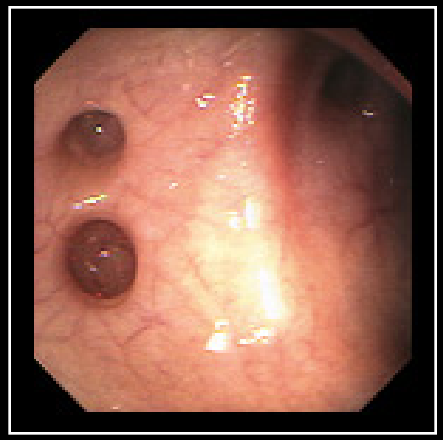


Divertikuloza



Rtg:

- nepravilni raspored haustri
- male spikule
- oštre + u senci





chr. divertikulitis

- zadržavanje kontrasta duže od 6-8 č.
- spazam haustri,
- zid zadebljao
  - perforacija
  - fistule
  - athezije

Polip



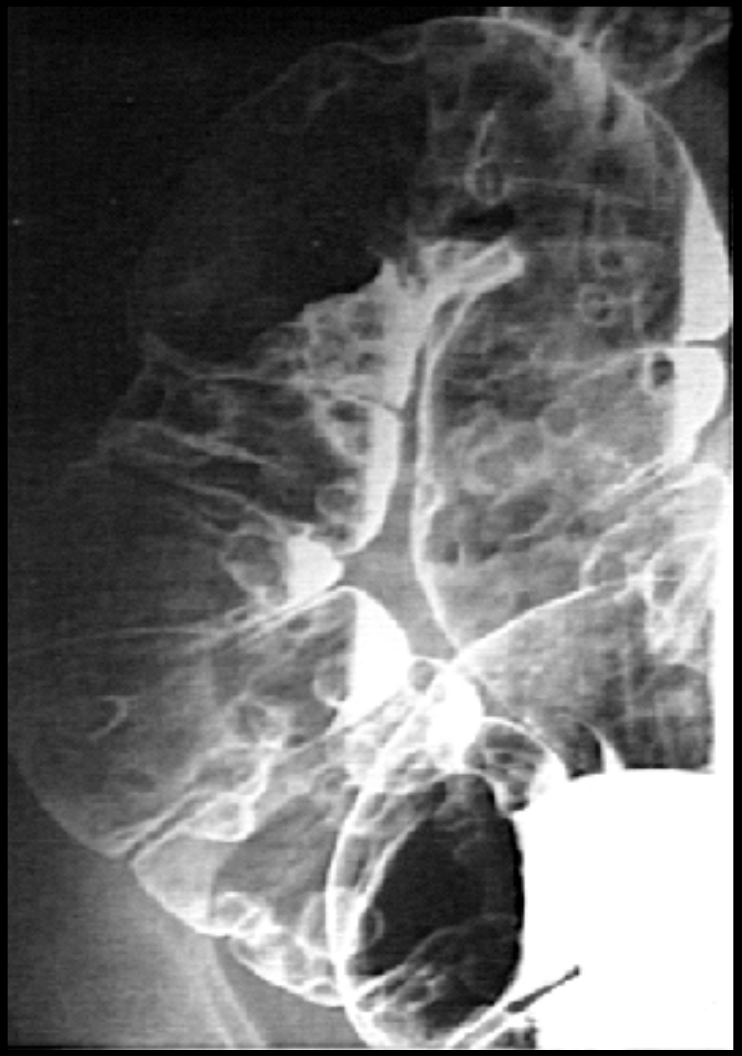
Rtg:

-- u senci oštro ograničeni

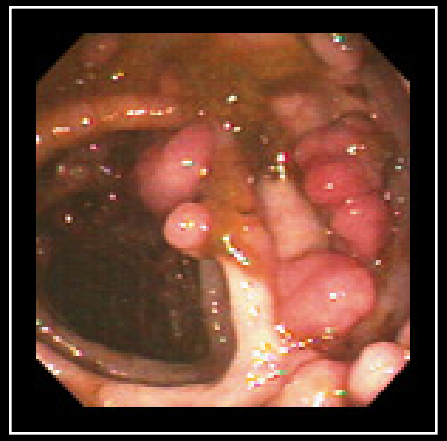
obično multipli



Dif. familijarna polipoza



maligna alteracija



Karcinom

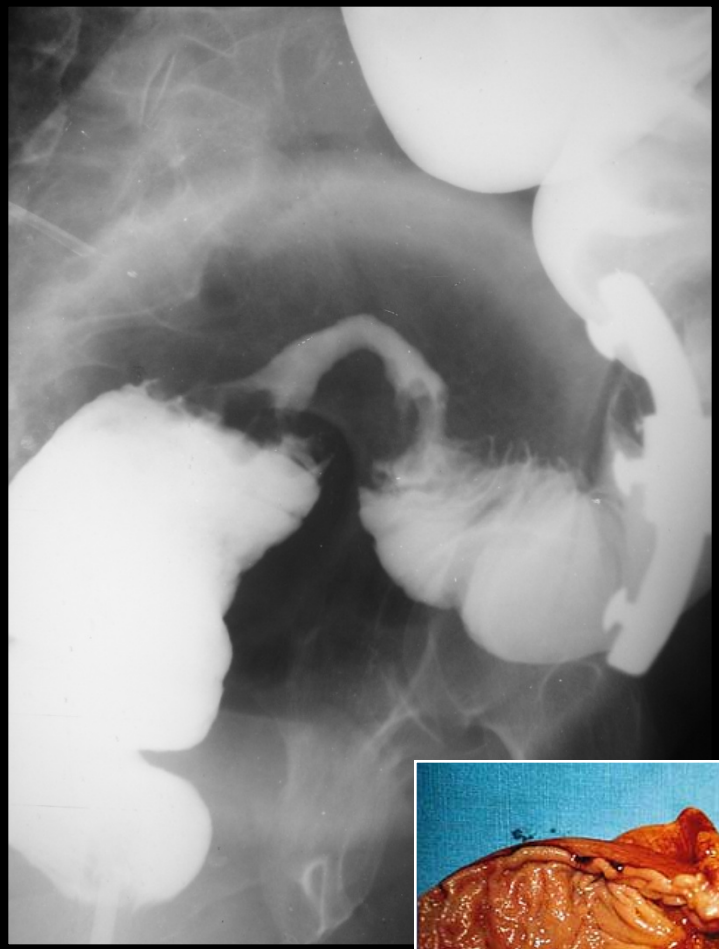


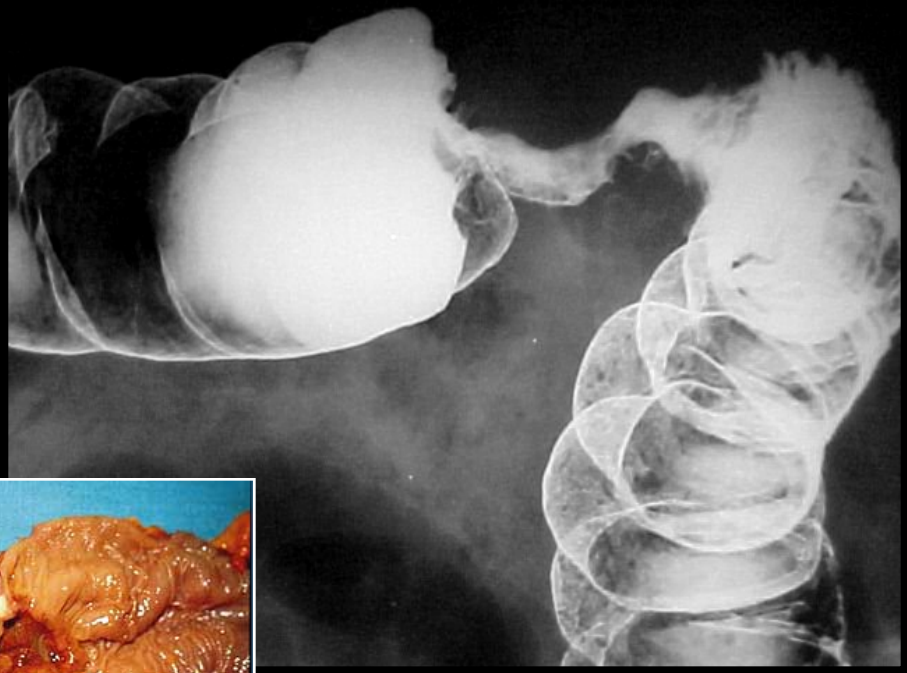
Rtg:

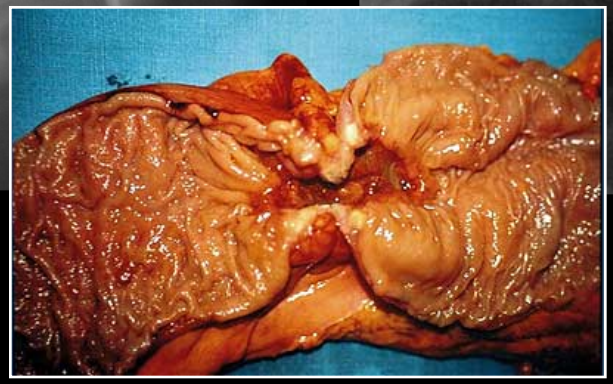
1. Lakunarni defekt

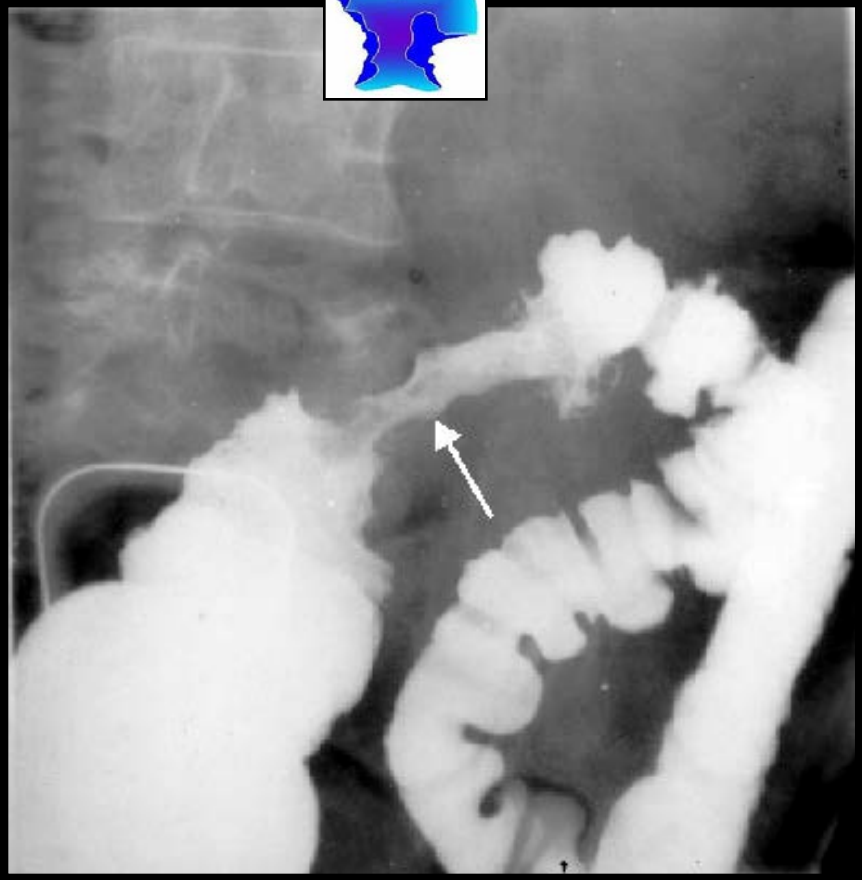


2. Anularno suženje

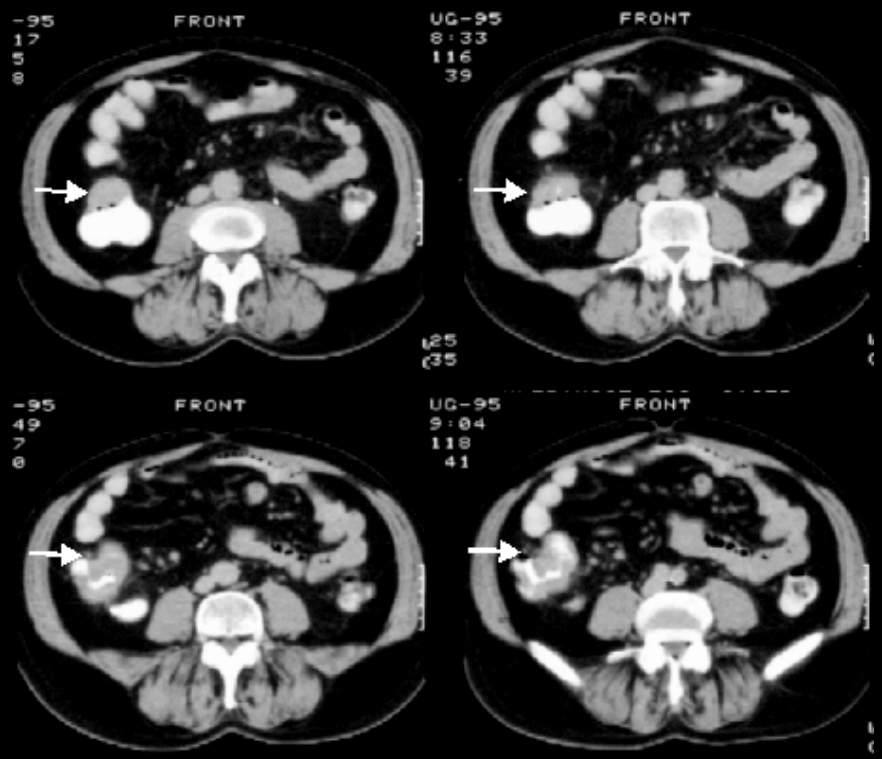








3. Infiltrativni tip





- http:// www.med.pr.ac/katedra/interna-medicina.php