Shadows.

Shadows.

Shadows.

Glas.

Calcifications.

3,6,9 cm rule

Small colon cecum

Abdominal x ray

Tayseer Al-Tawarah MD.MRCS

Tamara Arabiyat.

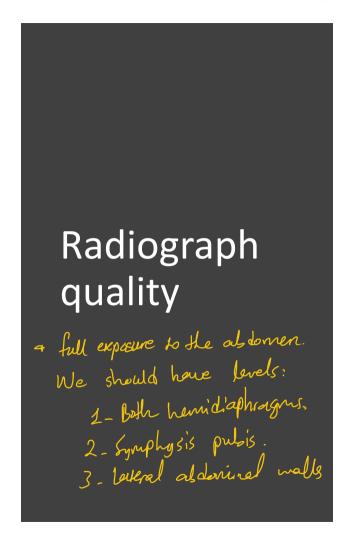
AKRay Views:

- 1 AP Supine abdominal X-ray Standard.
- @ Erect AXR suspicion of injustinal abstruction to show air fluid lends.
- 3 Left lateral decubitus AXR Neonales or elderres that connot stand up
- Erect chest X-ray to check if there's air-under-disphragm.

 in 10% of perforation cases shere's no AUD: we do CTs can.

a any patient with acute abdomen gets abdomined X Ray.

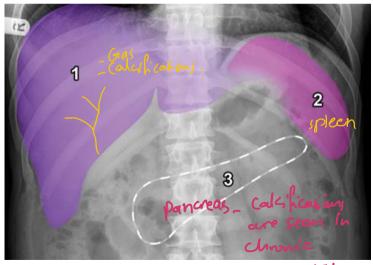
hemi-diaphragms to the symphysis pubis.







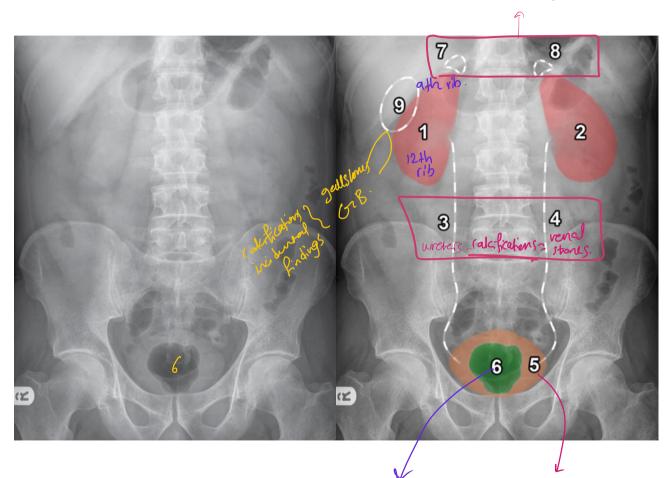
Shadous of alasminal organs (not the option for solid organs)



panwatitis.

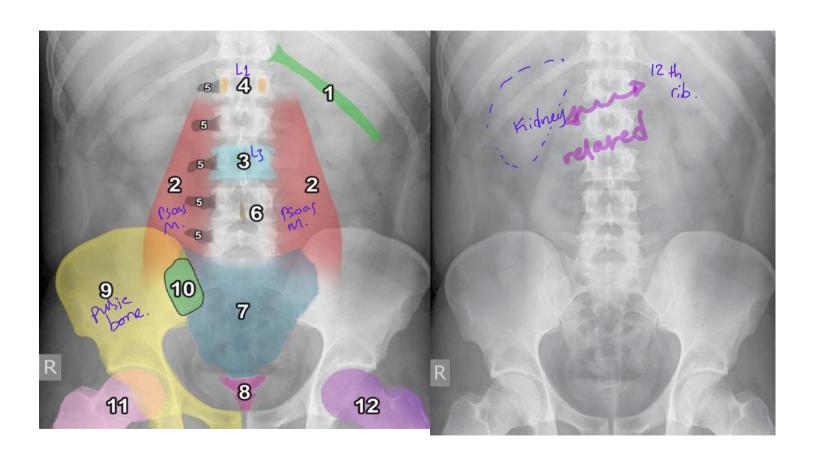
Note from rue: X-Play shows mostly calcifications

adrenal glands



in infesting obstaction.

Urinany Bladder.



· Bowel has gas so visible on X. Ray.

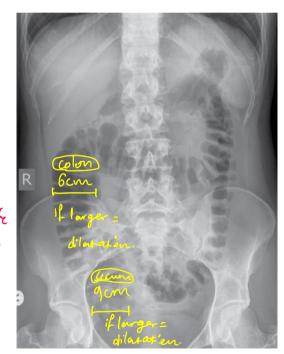
· Normally gas is in the colon and showach only.

* if we could see the small bowel on X. Ray

if means it has gas in it which is abnormal
and could be due to (ileus, obshuchan, senting)

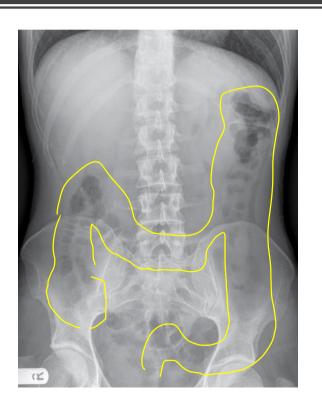
wons appearance on X-Ray: * Norm · on the perphery. . Houstrations (incomplete) · Frea Wi.

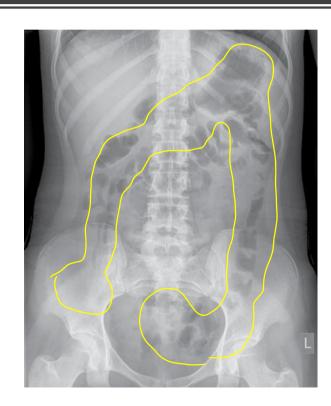
some kind of mobility because they're juma-peritoneal smehures.

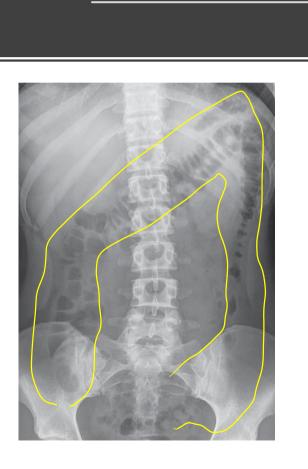


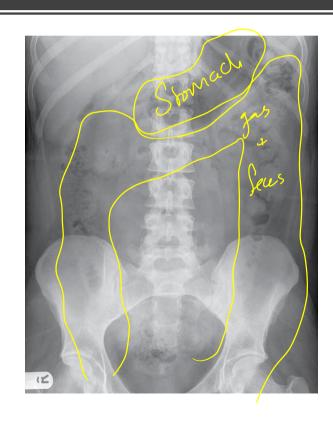
· Ab normalities seen in the colon: 2) Abromal gas diskibition

3) Thickened inflammed colon









Be systematic!

- 1. Give the type of radiograph
- 2. Give the patient's name.
- 3. Give the date the radiograph was taken.
- 4. Briefly assess the radiograph quality and the level are shown?
- 5. Run through the ABCDE of abdominal BBC radiographs.
- 6. Give a short summary at the end.

if the gas pathological

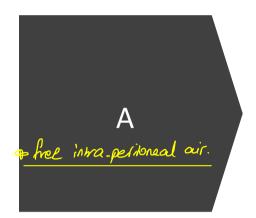
o normally air in the GIT is intaluminal: huminal in the colon + shonach.

normally there's no gas in the small inteshines, they have wenter and are collapsed.

Gras in the small bourd ???

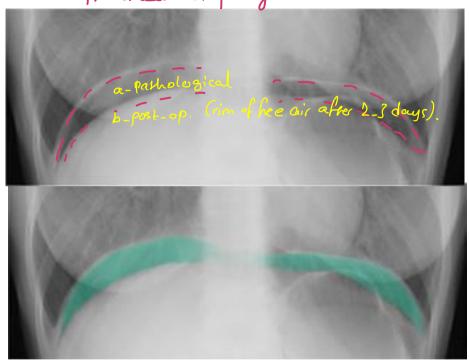
- A is for Air in the wrong place.
- B is for Bowel. (small (dilated, prominent). (iled, jejunal?)
- C is for Calcification. (stones, calcified BVs, calcified pancheas...etc)?
- D is for Disability (bones and solid organs).
- E is for Everything else.

(herego body, drain, surve. etc?)



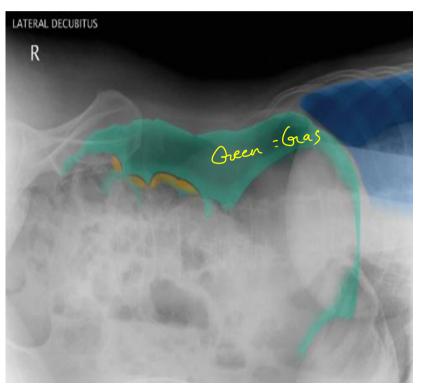
· Frect chest X-Ray !

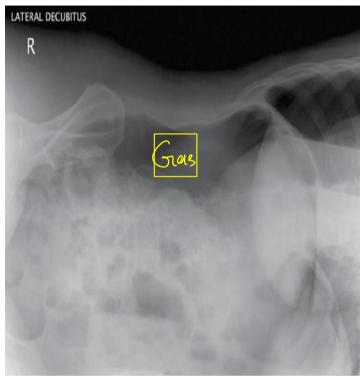
Air. under diaphragm.



A

+ lateral decubing abdominal X-Ray:





A Descending Those are retroper: which Ascending (smithures, so here intraperion-cut wouldn't be shown under the diaphragm. d Gras Shadow arrind the Kidneys , because of removeritorial organs perforation.

Second example of air in abhormal place:

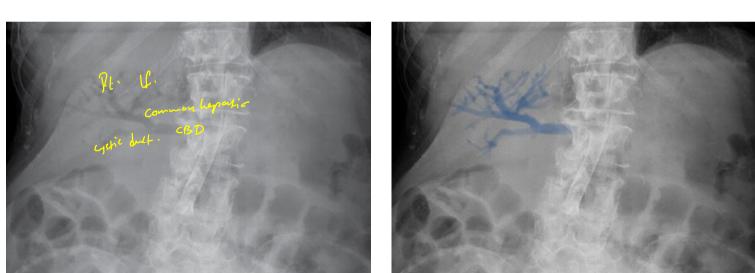
- Gras in the biliary system. Chelecystroductural contain air cannot be observed on X-Ray.

I be is shadow.

Second example of air in abhormal place:

Anything that dresn't contain air cannot be observed on X-Ray.

Sheere whether, emphysemators idt or assenting loadering to cache in the containing that dresn't be contained on X-Ray.



a another picture: Gas in the portal system (very had prognosis and high mortality rate)

mezentric ischemica Entrocchitis

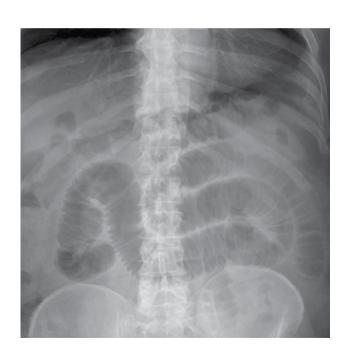
-centrally located.

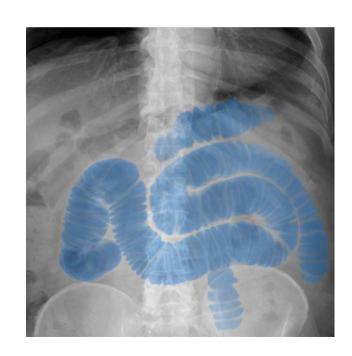
Small - plicae circularis

B-Bowel (jejenum) Step
(jejenum) ladder
appearance

appearance

Simulter () 3cm - p prominent.





a multipk air-fluid levels · Frect abdominal X- Pay: x Erect air / fluid level of flews of Gragnoentelitits. & Obshiller Hx develuines

a localited jejunal dilation in ______ sentingl loop.

Localized ileus due to

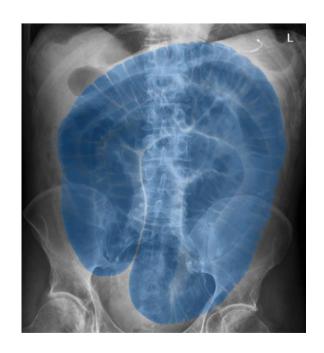
(gan creaqisis , directionlisis, appendictis) inflammentary process of





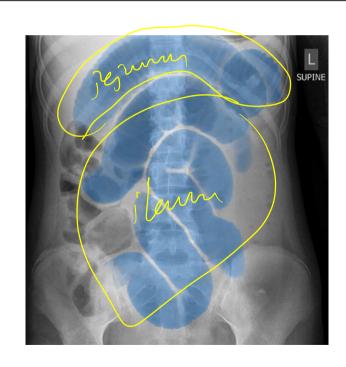
Record

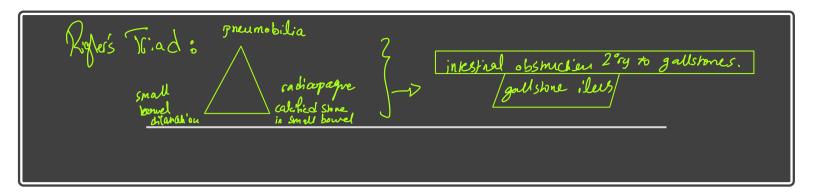




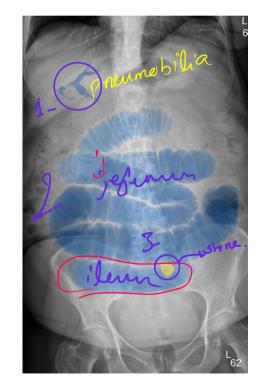
* fearveless ~ ribe like => ; heurs.









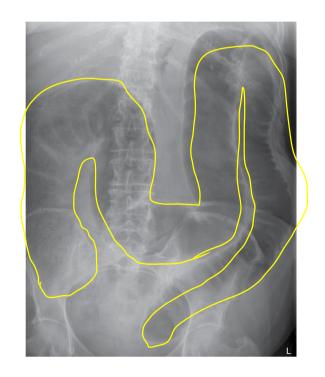


· Colon -> Difered see if it's >6cm.

: abnormelly differed full gaseous, almost

no haustrations.

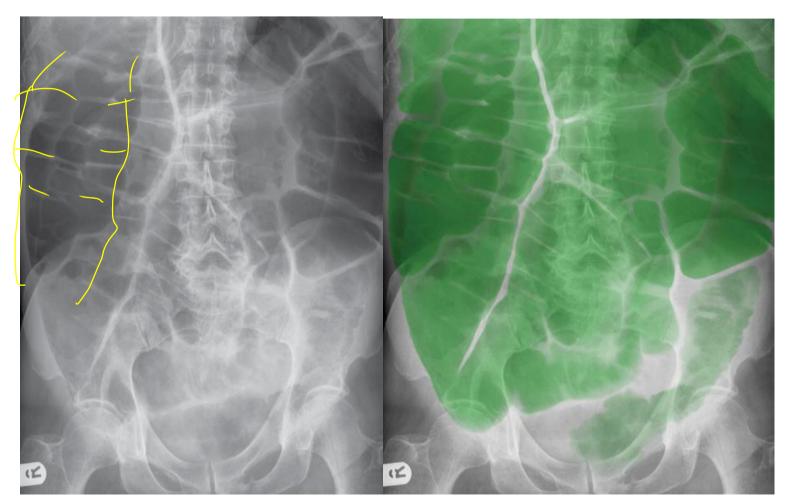
* mostly due to colonic obstruction due to remor at the rectosignaid junction.



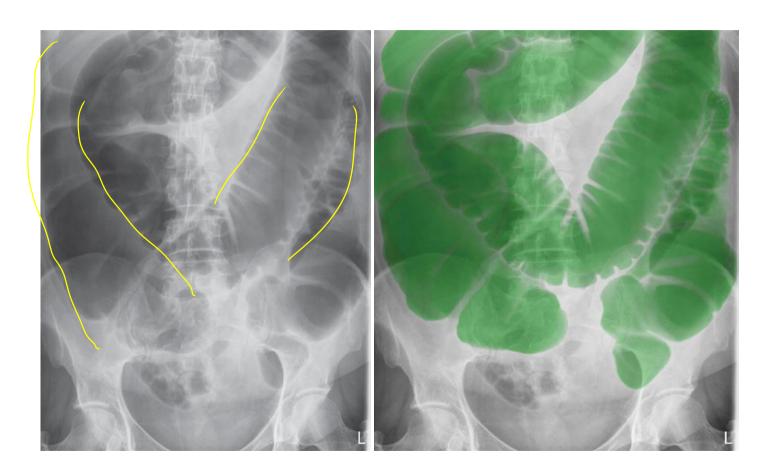


gaseons distention of the colon he to insymptent. Her cecal value.

o uncomplete lines - househotions lue to tension of thea coli.



a pilated colon >6cm.

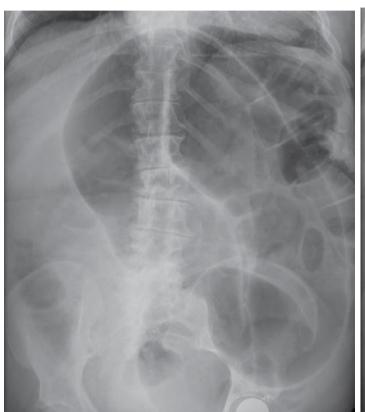


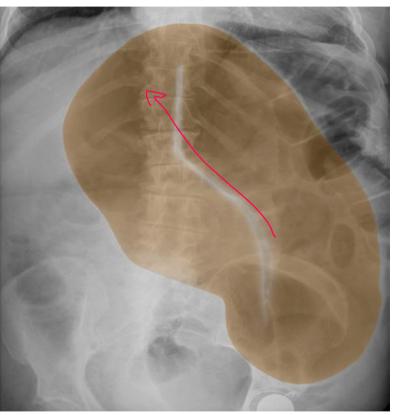
+ Two types of colonic volvali:

weal sigmoid.

signoid Voluntus 1. Toward RUQ. 2-Coffee bean - Like. 3- no haustrations 4-? apparent proximal of large bond.

when the whon mists over its mesenry.

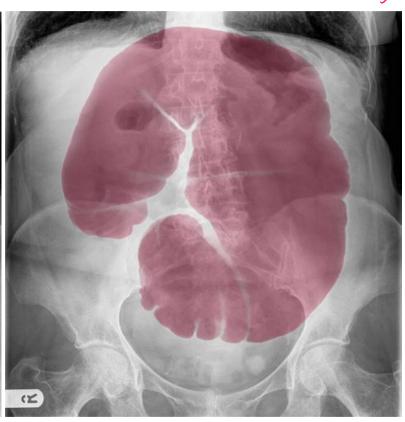


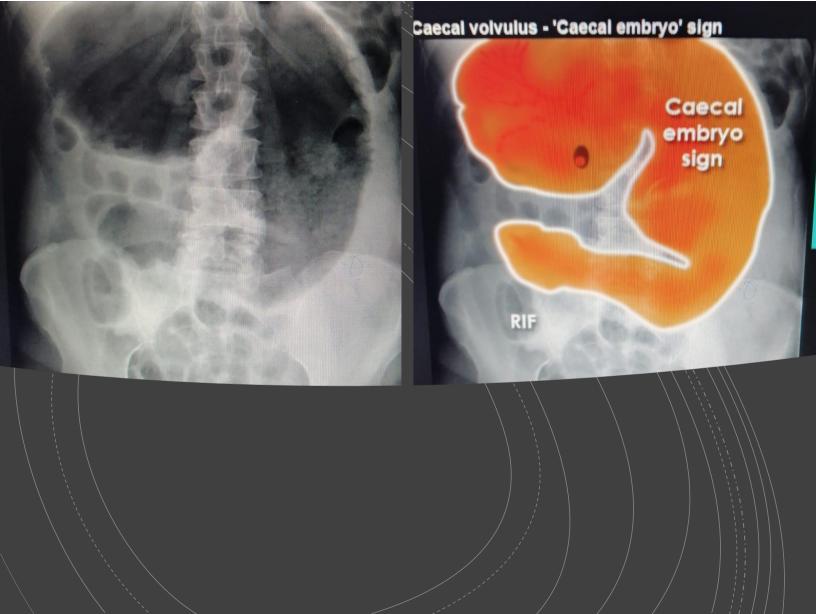


rohuls.

1. lmbyo sign/coma sign. 2 Towards LUQ. 3 Haustrations. 4. Distal Large bould wont be apparent on X. Ray.

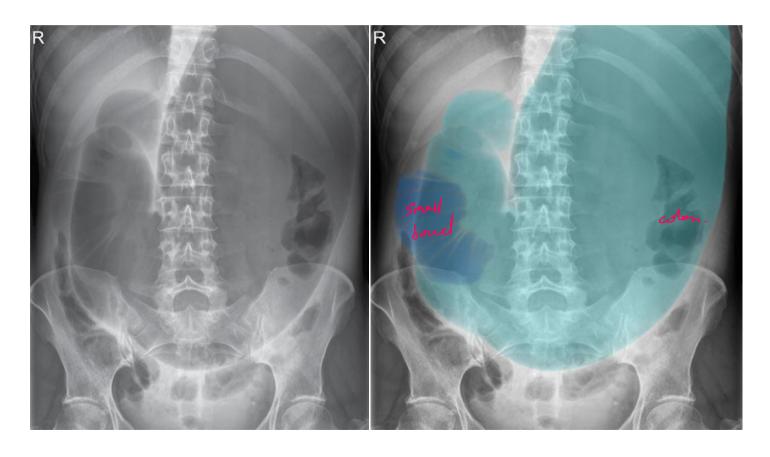




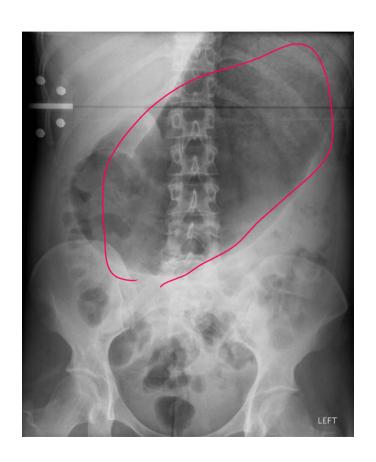


· Somach dilastorsien: Gascons.

NG-instituen Decomposission.



also



a small boul humia.





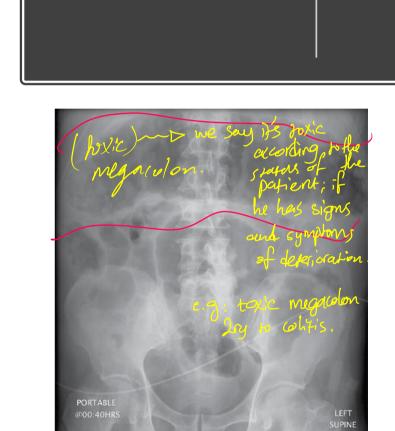


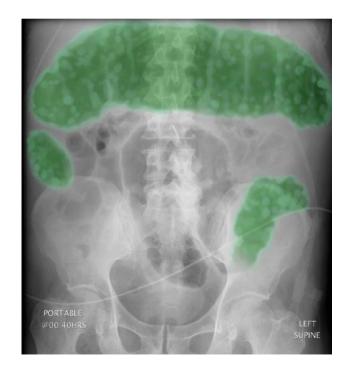
Thickened + no hawkrations

may be Colities I







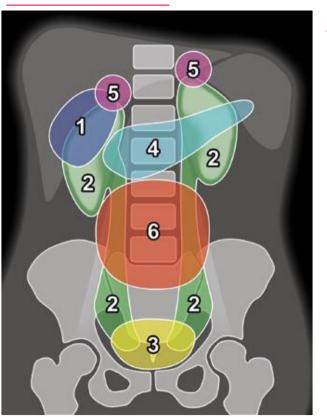


Clinical case: A parent complains of injestinal obstruction symptoms
Like (constitution, distention.) and on abdominal X-Ray
we don't find dilated bowel or abnormal gas distribution but
we kind Thy



Calcifications.

4 Common Sites:



1- Grallbladder/Gallshords

2-Against the 12th rib -> 16idneys.

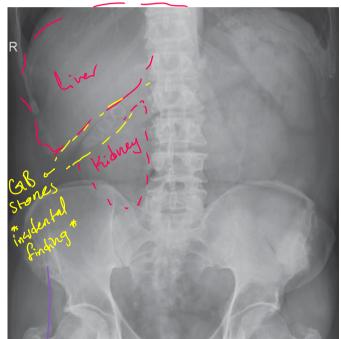
3_UB.

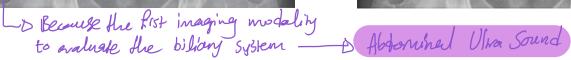
y_ Pancreas.

5- Advenal glands
(after hemor, hoge)

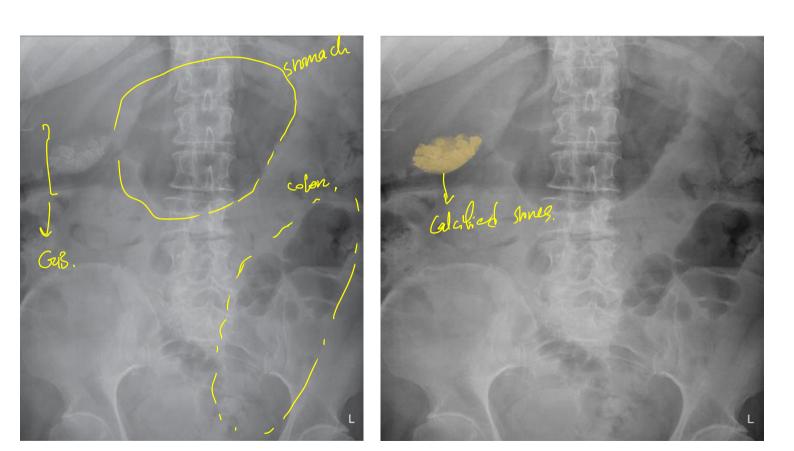
6-Alodoninal aorta.













* incidental hinding.

* incidental hinding.

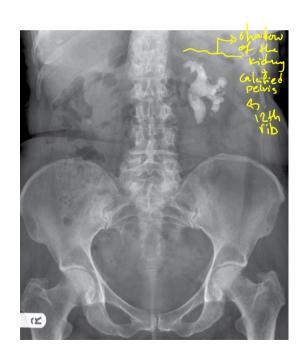
* Porcalin Grb " * 1 risk of malignancy.

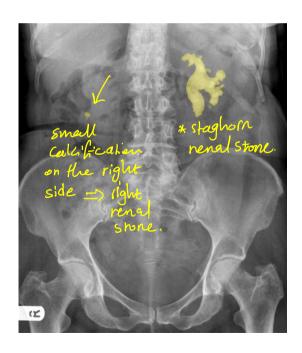
* Choleaptectory is

advised.



Staghorn stones are large and branching stones that fill part or all of the pelvicalyceal system. They are usually unilateral and less common in men. They are linked to urease-producing bacterial infections and, hence, known as struvite infection stones.





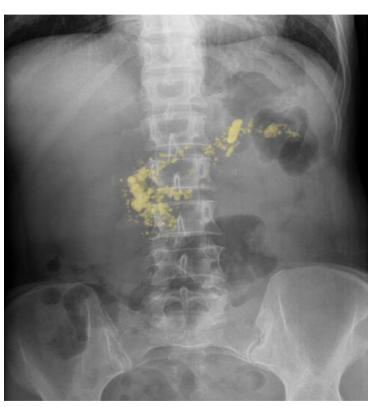
to our landmark anatomical smuchure is the 12th is the shadow against it is the 16:dney's.

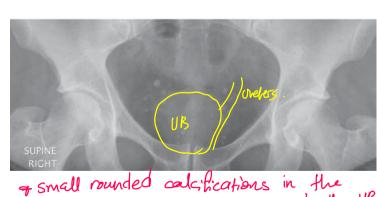




The calchication here is at the distribution of the pancreas -> suggesting chronic pancreatitis.







the UB site, but some are outside the UB:
inight be in the uneters and others are totally
outside the UB and ureters' course ______

shose are called Phelooliths (califications in the vehs)

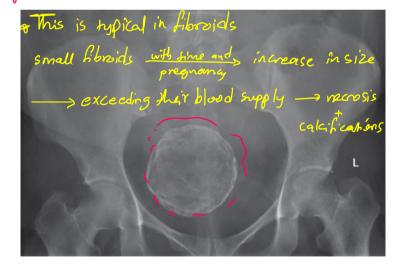


a calcified ribs; in the elderly with osteoporosis.

confirmed by CTcontrast (without contrast if we were suspicious about their Site.

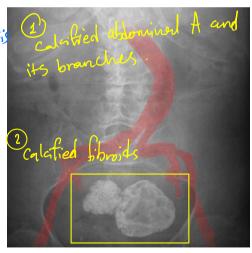
calcified megnitic major Azease

· Calcilied libroids

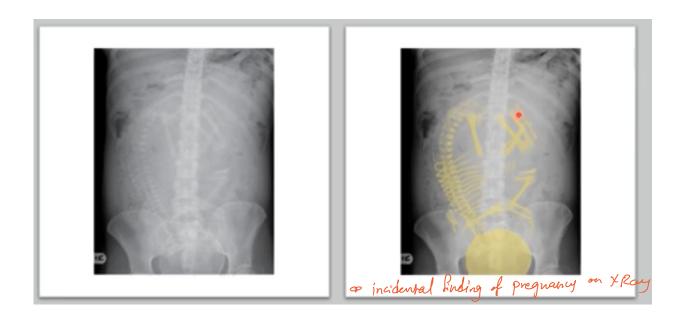


of Torthous calcilications at
the course of the sphenic
array ______ 2ny to atherosclerosis



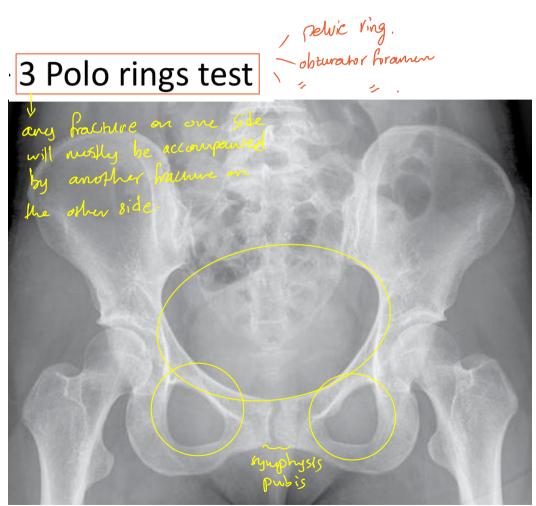




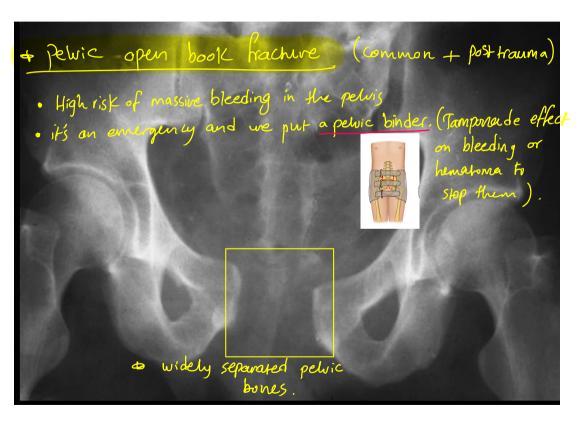


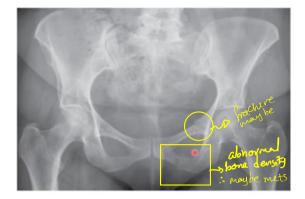
Disability.

- Pelvic fractures 3 Polo rings test
- Sclerotic and lucent bone lesions we any to mets.
- Spine pathology
- Solid organ enlargement w X-lay is not perfect divice

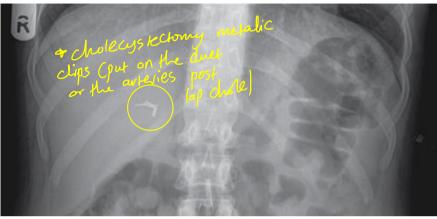


(creft of lespen)



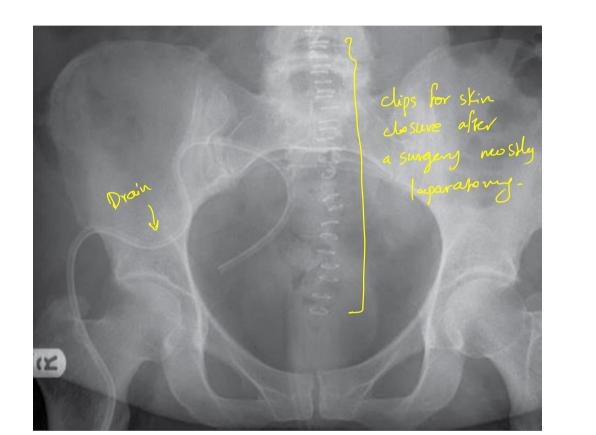


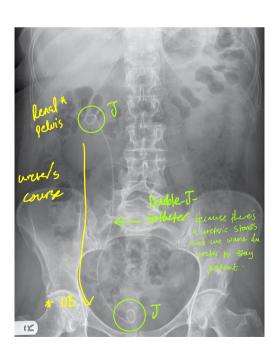






Everyling else.

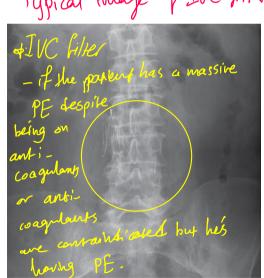






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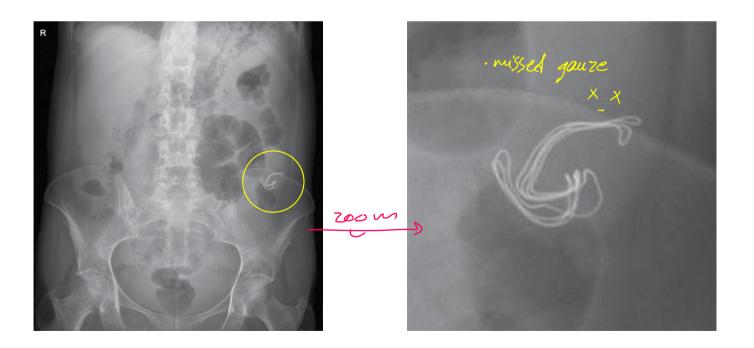
Typical image of IUC filer

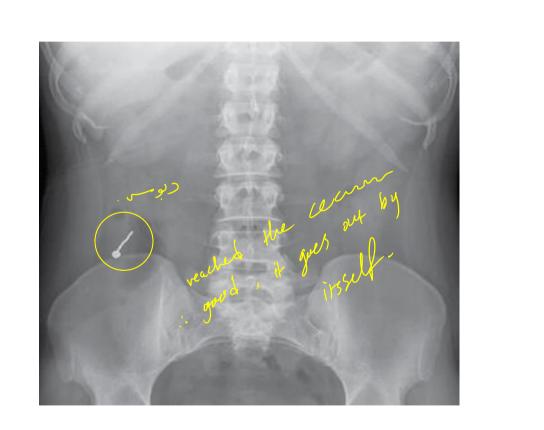






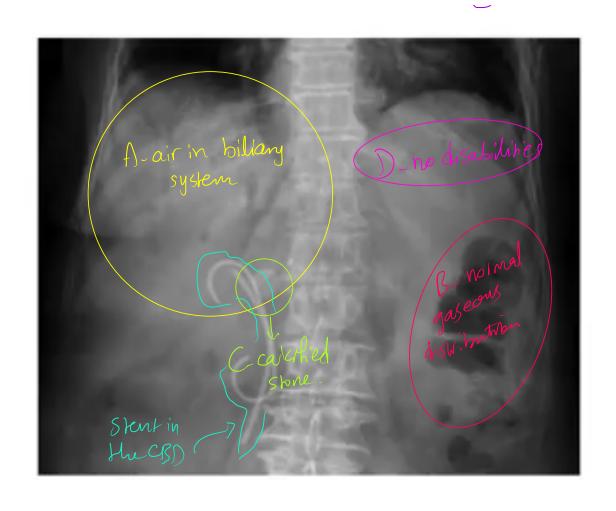








A dreak of there's air in an abnormal place. preumobilia. liver shadow small bowel leap (in the center + plicale B: jejunal lasp. C: calched CBD shone. D: X Spine is normal calahied E. 1-NG tube. 2-Drain shone. · Mostly this patient has had an ERCP due to gallshones and it caused him pneumobilia.



The patient has cholongitis my

The patient has cholongitis my

to (B) stone ____ underwent ERCP

and failed to

remove the stone ____ put stent to drain

the bile temporarily until the surgey is done