

Abdomen radiology

2025

الدكتور هناء قدسيه

ال shadow : لونه ابيض

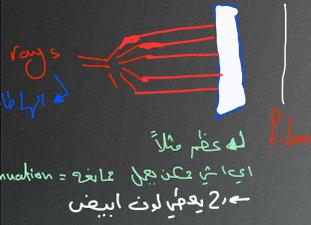
كل ما زاد ال attenuation = الإضعاف , يزيد اللون الابيض

Bone > tumor

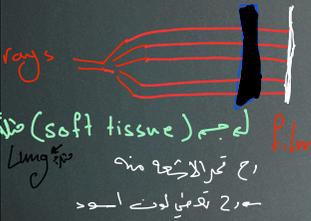
Normal abdomen xray

اهم اشي نذكره خلال shadow

شكله الـ Xray



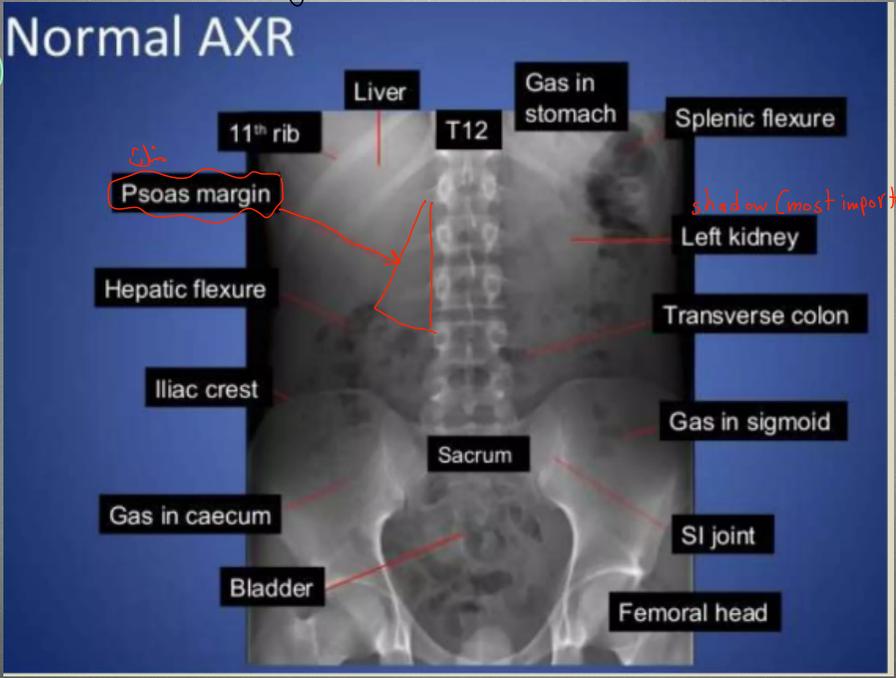
Directions له انا طاقه اشعاع
 له عظم مثلاً
 اي اشي قدامه بيكون ابيضه = attenuation = اضعاف
 ← 2 بعد ما لو ت ابيض ←



له جسم (soft tissue) مثلاً
 مع تمر الاشعاع منو
 ← 2 بعد ما لو ت اسود ←

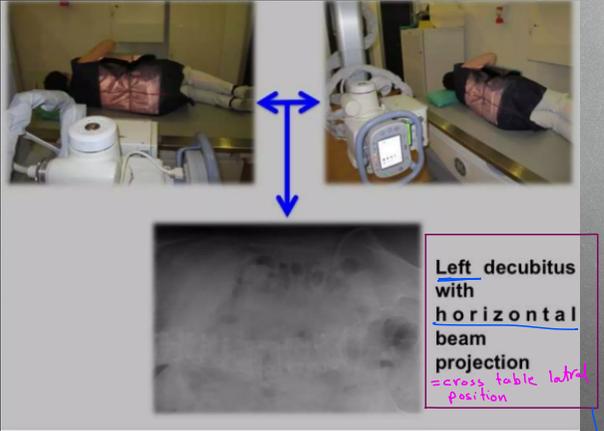
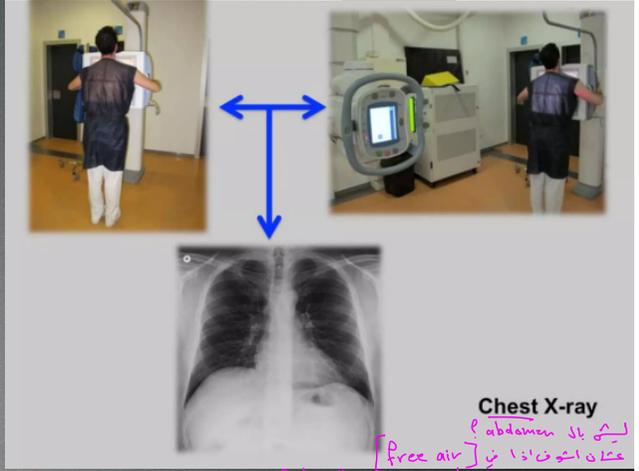
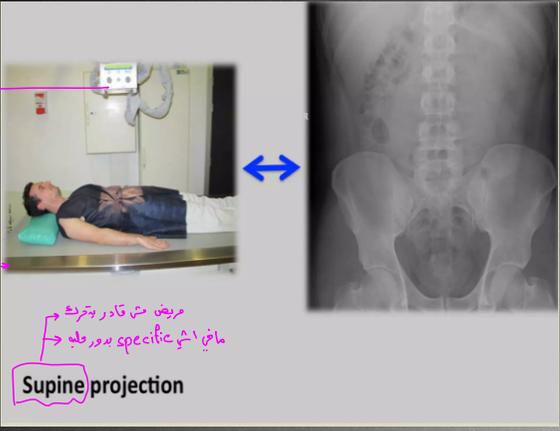
according to the Density of the target

right left

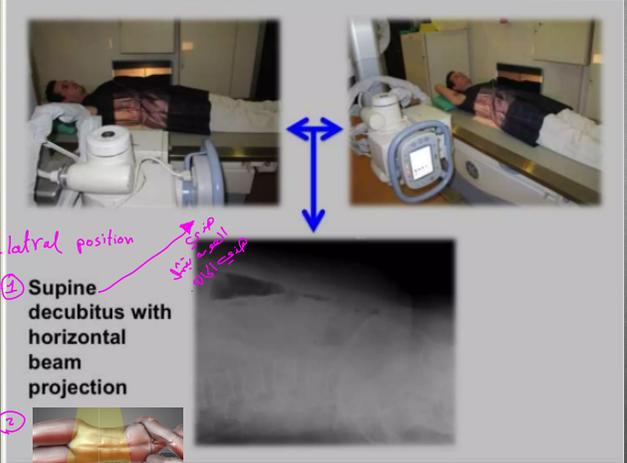


X ray tube فوق

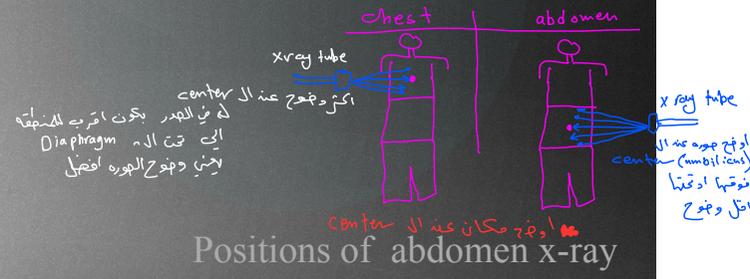
Film تحت



متى بترتبه ؟
عندما يكونه fluid تحت
Gas فوقه
بها البرديفنا مايقدر يوقف



الصورة زياده ضبابية
مش تات اويجة و هيفيه
قالها الدكتوراه بالديكوراد



Pathology

Systematic way [How to read abdomen xray]

ABCDE approach:

A-Air in a wrong place.

B-Bowel loops.

C-Calcifications.

**D-Dense structures like soft
tissue and bones densities.**

E-Everything as foreign bodies.

منشء شرط الترتيب
على شخصها والاهم لفرقة

A

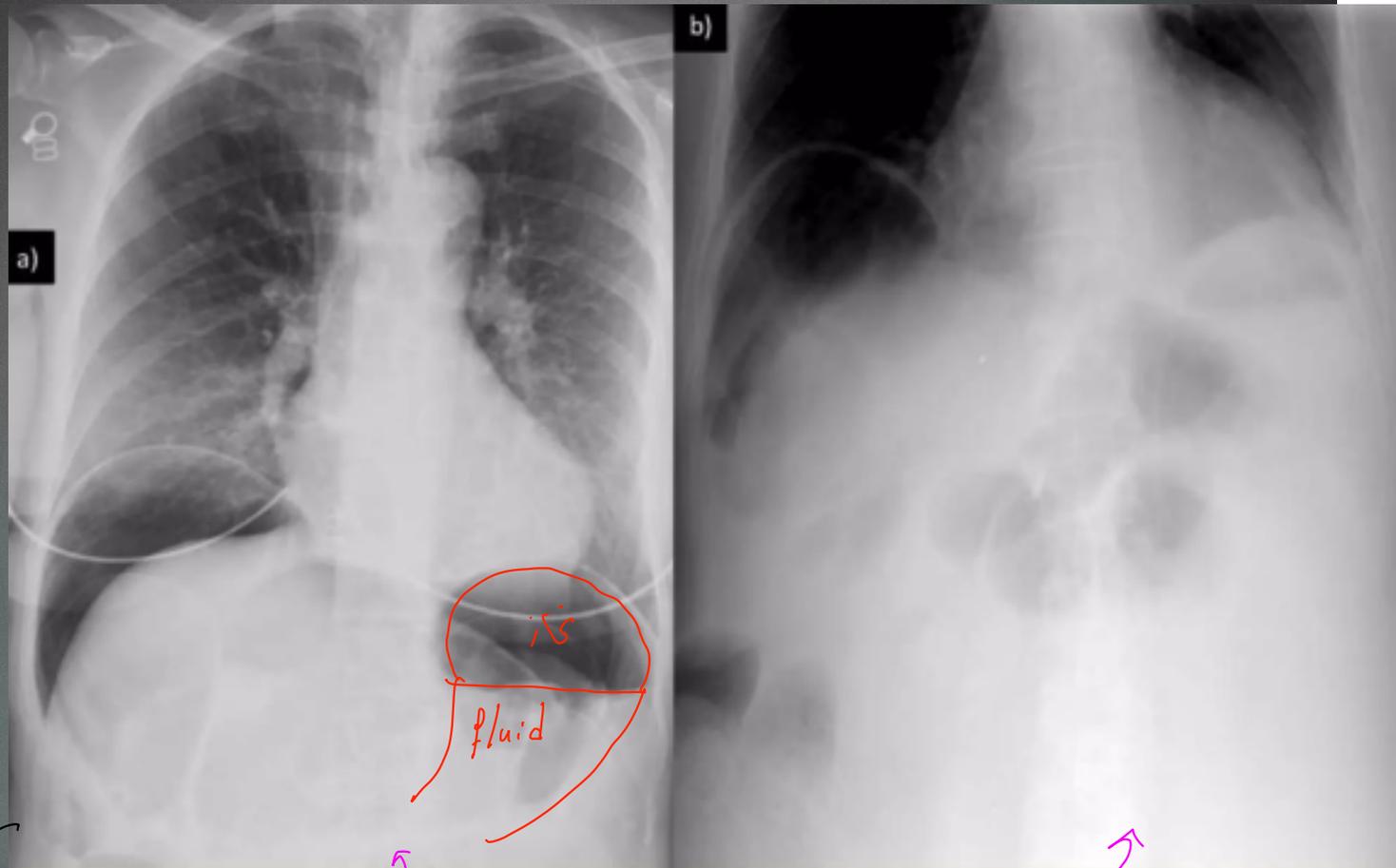
Looking for Air in a wrong place

- 1-pneumoperitoneum (air at peritoneal cavity).
- 2-Pneumoretroperitoneal (air at the retroperitoneal space).
- 3-Pneumatosis intestinalis (Air along the bowel wall).
- 4-Pneumobilia (air at the biliary tree).
- 5-Portal venous air (air at the portal vein).



دروس نرکز ال pathology

مشی كل الامور مطلة به
+ المعيد 2 تشيله ال كتوره
+ اسئلة الامتحان وانحه والامور وانحه



Crescent Sign: plain film showing appearance of a sliver of air usually beneath the both hemidiaphragms in pneumoperitoneum. **b) Chilaiditi's Sign:** plain film showing interposition of bowel gas between the liver and the right hemidiaphragm.

position : standing

كيف عرفنا؟ انتبه على stomach

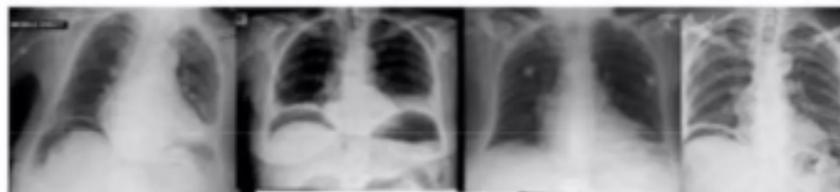
↳ gas : فوت
↳ fluid : سائل

note sharp line.

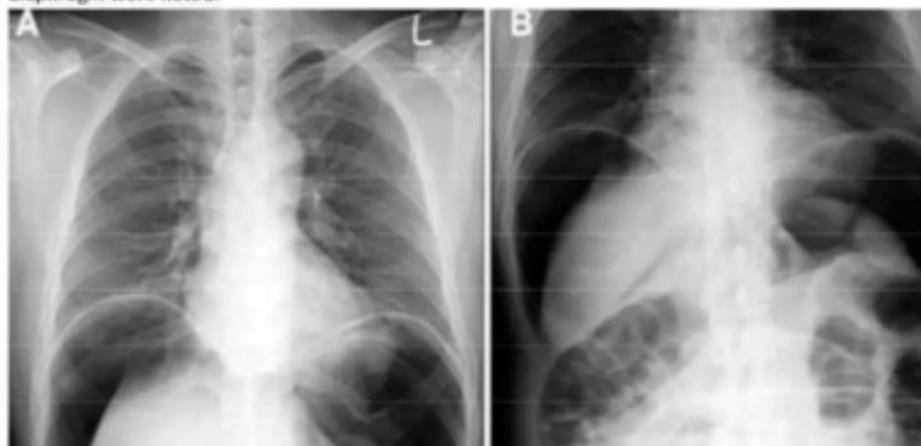


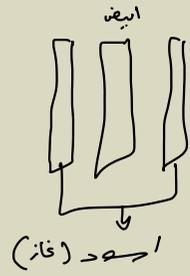
Crescent Sign: abdominal radiography showing air beneath both hemidiaphragms, in relation with pneumoperitoneum.

Crescent Sign:
plain film showing appearance of a sliver of air usually beneath the both hemidiaphragms in pneumoperitoneum



Plain film of the chest X-ray (A) and simple abdomen (B). After colon perforation, free air under the both diaphragm were noted.

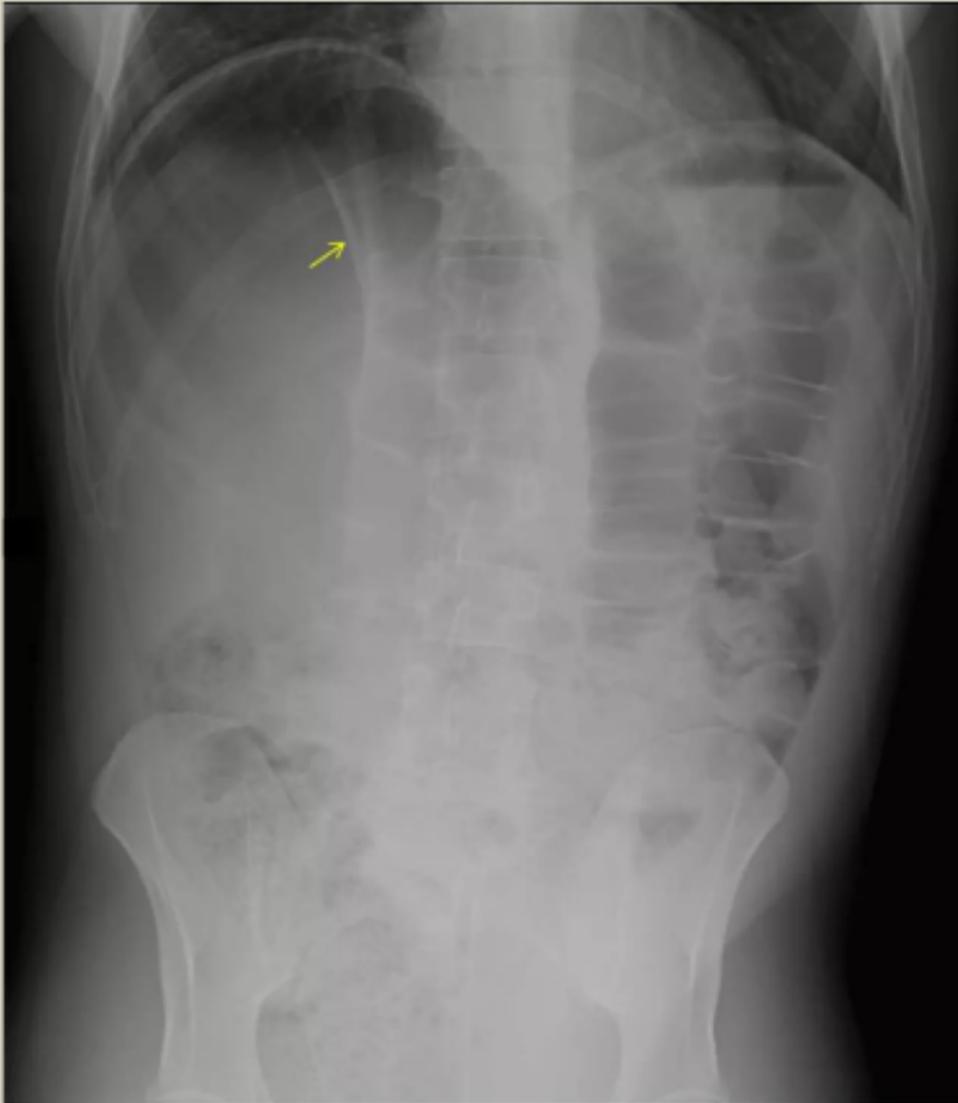




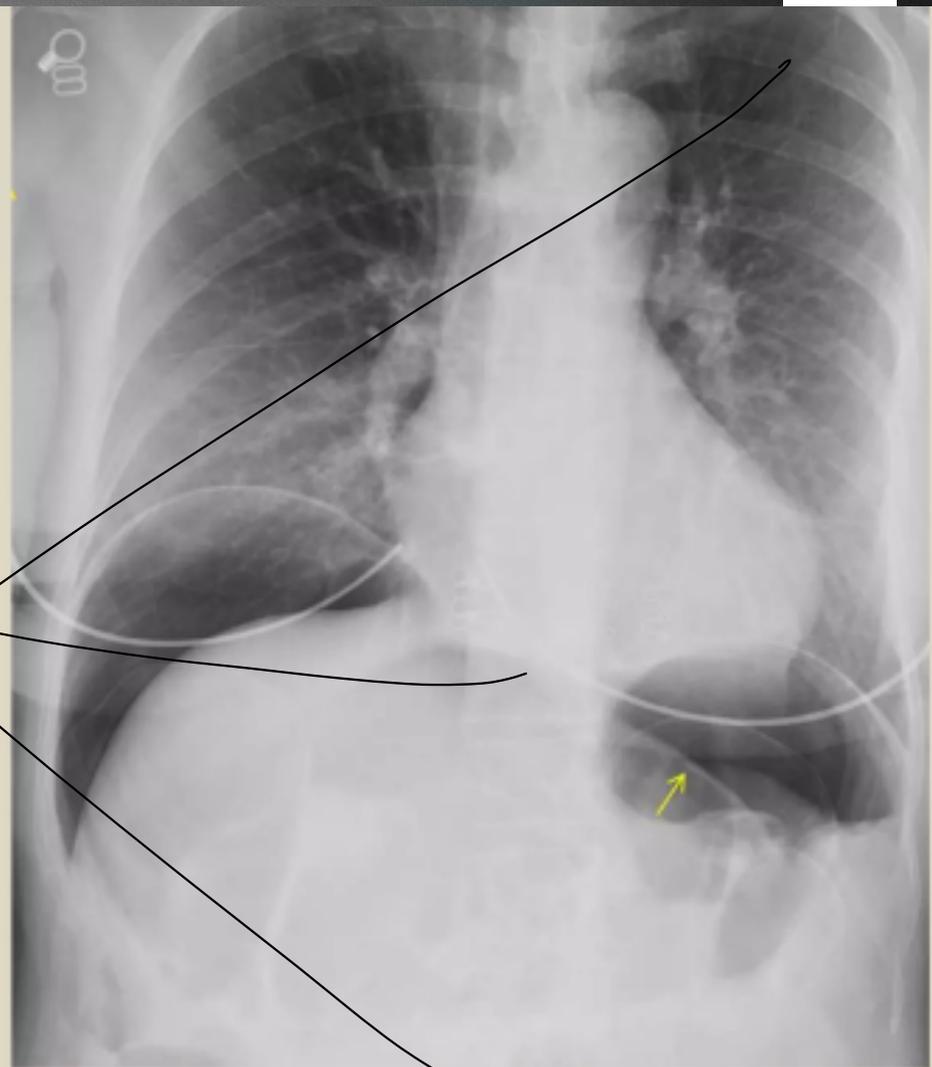
ذبیحہ داخج
(relevant appearance)

Falciform Ligament Sign
- abdominal radiography
showing the falciform
ligament from
surrounding air, in
pneumoperitoneum.

بیسین بال supine اکثر



Cupola sign:
abdominal
radiography showing
free intraperitoneal air
under the central
diaphragmatic tendon.





Football Sign

ممممم كثير به جيبها كل سنه



Paediatric

طاله متفقه

Seen with massive pneumoperitoneum

Most often in **children** with necrotising enterocolitis

In supine position air collects anterior to abdominal viscera



Adult : اول الكاله

Distention with increas the lucency

Football Sign -
abdominal radiography
showing a large oval
radiolucency demarcated
by the parietal
peritoneum of the
abdominal wall.



زخم حديدية وفتح الصورة
بالمريض قبل

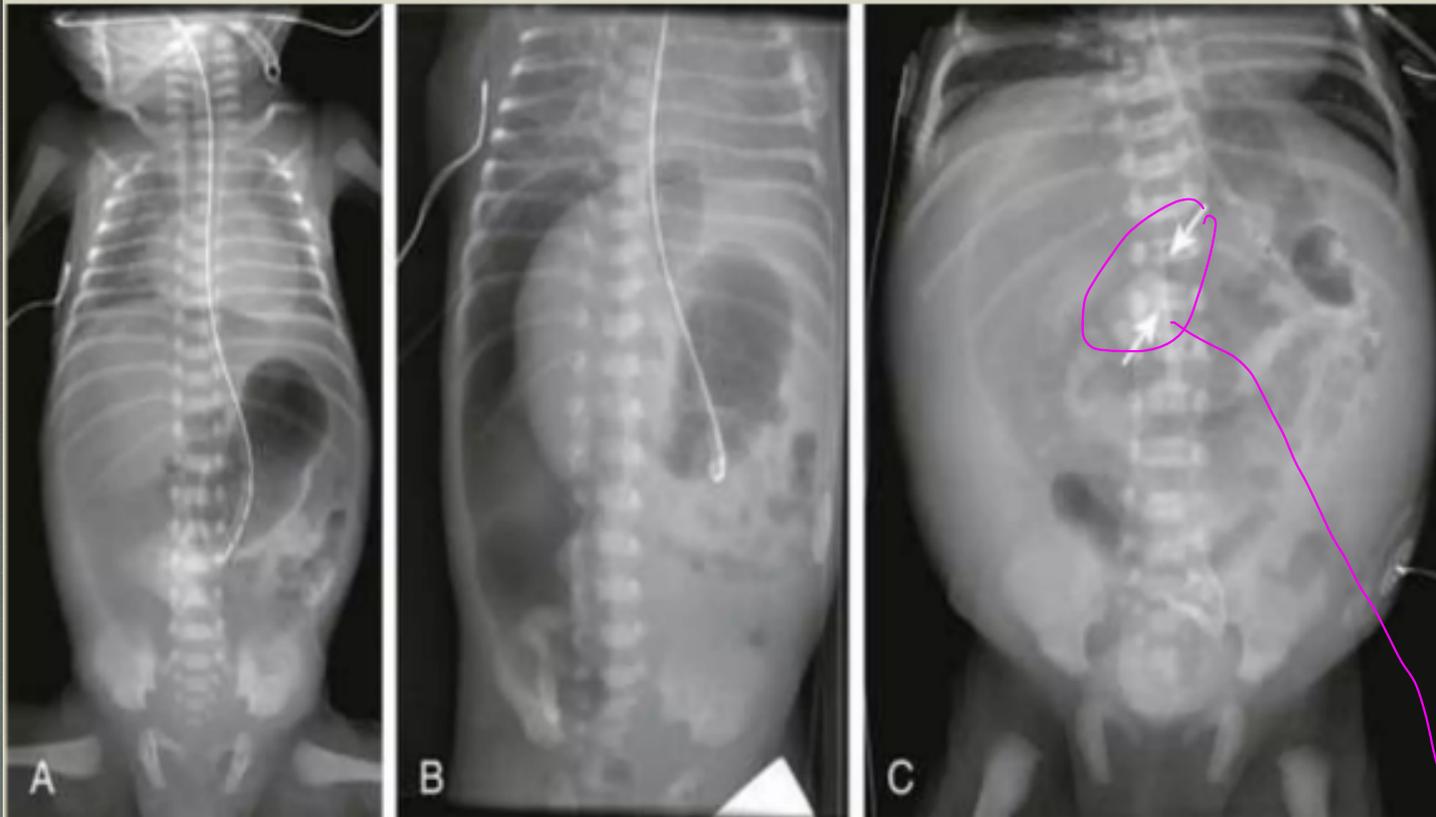


Football sign (pneumoperitoneum)

Supin position
وال tube
lateral Ji (S)
+
lucency
Football sign



زخم حديدية وفتح الصورة
بالمريض قبل
right side
فوق



Pneumoperitoneum with "football sign." A, Supine radiograph in a 5-day-old 30-week-gestation premature infant shows a large lucency over the entire abdomen. B, Decubitus view in the same infant confirms the large pneumoperitoneum. Multiple intestinal perforations were found at surgery. C, Another patient with pneumoperitoneum demonstrates the classic football sign on abdominal imaging. Gas outlines the falciform ligament (arrows), and a large lucency overlies the upper abdomen centrally as the gas accumulates anteriorly. At surgery, this patient was found to have a colonic perforation.



Plain X-ray of the chest and upper abdomen displaying obvious Chilaiditi's sign, or presence of gas in the right colic angle between the liver and right.