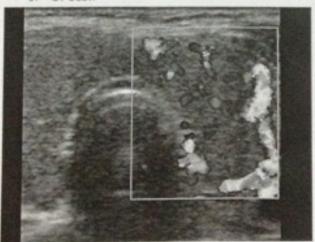
1. A 14 year old boy presents with severe acute scrotal swelling or	ver the past two hours. The
most appropriate urgent imaging modality is	Takon.
- Ulbananand	
b) Ultrasound with colour Doppler	
c. MRI	
d. Plain radiograph of the scrotumX'	
o CT of the polyie	
2 A 40 year old female presents with features of hyperthyroidism	n. An ectopic parathyroid
tissue is suspected. Which of the following is most appropriate	imaging modality
a. Radionuclide imaging	
b. MRI	
c. Plain radiography	
d. CT	
e. Ultrasound ??	sancer Her mother and two
e. Ultrasound??  3. A 20 year old seeks your advice regarding screening for breast	between 28 and 35. Which
aunts have been diagnosed with breast cancer at the ages	
imaging modality is most appropriate for her screening	28-18
a. Breast MRI	35-25
b. Breast ultrasound	
© Mammography	
d. Ductography	
e. CT	



What is the image demonstrated above



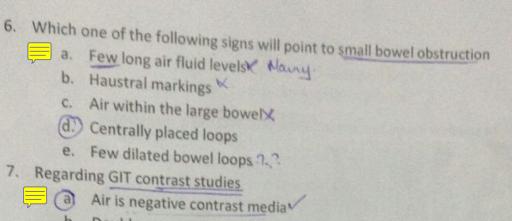
- a. MRI
- b. Ultrasound
- c. Angiogram
- d. Mammogram
- e. CT Scan





This image was acquired from a patient who most likely presented with which symptom?

- a. Breast lump
- b. Exophthalmos
- c. Acute scrotal pain
- d. Right iliac fossa pain
- e. Vomiting



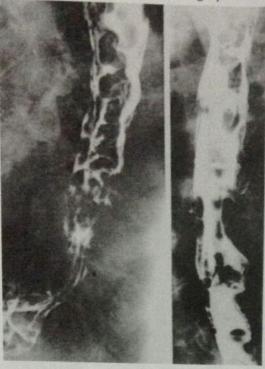
- b. Double contrast is used in infantile enema studies  $\times$
- c. The mortality rate from barium peritonitis is less than 1% imes
- d. No preparation is needed for barium meal imes
- e. Air is introduced via nasogastric tube during a double contrast barium meal study  $\,arphi\,$
- 8. Ultrasound examination is most appropriate in suspected
  - a. Diverticulitis x cT , %
  - b. Bowel perforation of.
  - c.) Cholecystitis
    - d. Bowel obstruction Viery
    - e. Colorectal carcinoma -Ba evena.



the ultrasonic image above demonstrates

- Testicular torsion
- b. Appendicitis
- c. Intussusception
  - Biliary stone ?? awshi xhal
  - Liver metastasis

★ 10. From the barium swallow image presented below the most likely diagnosis is



+ candida

- a. Oesophageal carcinomax
- b. Candidiasis
- c. Achalasia x
- d. Hiatal herniax
- e Oesophageal varices

11. The most current radiological modality of screening for rickets is

a) Plain radiography

- b. Radionuclide imaging
- c. CT Scan
- d. MRI
- e. Ultrasound
- 12. Hip fractures are best evaluated on which imaging modality?
  - (a) MRI
    - b. CT Scan
  - c. Plain radiography

u. Ultrasound

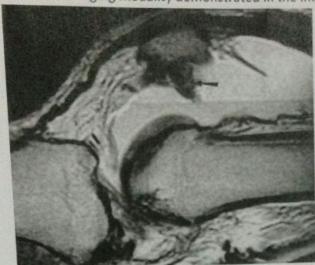
- e. Contrast arthrography
- 13. A 23 year old rugby player sustains a left knee injury. Plain radiograph reveals soft tissue swelling with no fracture or dislocation demonstrated. What is the next most appropriate imaging modality to further evaluate this patient?
  - a. Ultrasound
  - b. CT scan
  - (C.) MRI
    - d. Arthrography
    - e. Digital subtraction angiography (DSA)

4. Which one of the following is not a feature of rheumatoid arthritis a. Commonly affects the distal interphalangeal joints 7 Tends to spare the distal interphalangeal joints c. Accompanied soft tissue swelling

d. Periarticular osteopenia

e. Erosive arthropathy

15. Name the imaging modality demonstrated in the image below



- a. CT scan
- b. MRI
- c. Ultrasound
- d. DSA
- e. Scintigraphy

16. Ultrasound was introduced into medical imaging

- a. Just before second world war
- b. Before the discovery of x-rays \*
- c. After the discovery of computed tomographyx
- d. In mid twentieth century
  - e. Ten years after the discovery of x-rays ?
- 17. The following is one of the newer imaging modalities
  - a. Radionuclide scanning
  - (b.) Digital subtraction angiography
  - c. Ultrasonography
  - d. Digital radiography
  - e. Endoscopic retrograde cholangio-pancreatography

18. During a barium meal examination upto due down

a. Image is generally viewed on a fluorescent screen?

b. Negative contrast is administered

c. Cathode ray oscilloscope system is used to view the image

d. No films are taken in the first ten minutes  $\boldsymbol{X}$ 

e. Contrast is ingested the day before X

Flanonigh-

19. On a n	ormal chest radiograph
a.	The right hilum is higher than the left X
(b.)	The right hemidiaphragm is higher than the left
C.	The cardiac shadow lies in the middle of the thoracic cavity
d.	The superior angle of the scapula is at the level of T3 ×
e.	The apices are more radiolucent than the bases
20. In mict	uratingcysto-urethrography
a.	Non-water soluble contrast is used.
b.	
(0)	Suprapubic introduction of contrast is contra-indicated ×
d.	and the dretting are demonstrated.
	Only the urinary bladder is demonstrated ×
21 Which	Vesico-ureteric reflux cannot be demonstrated   of the falls.
radiogi	of the following statements is not true concerning normal skull variants at
1000	
a.	The state of the s
b.	Prominent convoluted markings are caused by brain pulsations
C.	Hyperostosis frontalisinterna usually extends beyond the coronal suture X
d.	Mendosal suture is an accessory suture
e.	Wormian bones are normally found in the lambdoid suture
	llowing statement is true concerning scalp masses at CT
a.	Subgaleal hematomas are usually confined by cranial sutures 🗸 🐰
b.	Scalp lipomas are hyperdense tone - while
· C	A history of trauma will be elicited in sebaceous cysts
(d.	Scalp masses with associated destructive skull lesion are most likely malignant
е.	Acute subgaleal hematomas are of CSF density at CT
	le lucent skull lesions are found on a skull radiograph. Which of the following is the
	kely diagnosis have Back - barned
a.	Prominent convolutional markings  Opag white - hypern
b.	Arachnoid granulations
c.	
d.	Surgical calvarialdect
e.	Osteomas - While
24. The fol	lowing statement is true concerning intracranial hemorrhageat CT
а.	Acute epidural hematomas are concavoconvex and hyperdensed
b.	Chronic subdural hematoma is usually associated with major trauma
C.	A subdural hematoma presents as a biconvex hyperdense lesion \
(d.)	Acute extradural hematoma is usually associated with a skull fracture 9 5 %
e.	
25. Indicati	ons of cranial sonography include the following except
(a)	Suspected cystic cranial lesions in a 3 yr old child .
b.	Monitoring progress and complications of meningitis in a 1 yr old child
C.	Evaluation of intracranial haemorrhage in a neonate
	Evaluation of the infant brain
d.	Evaluation of a suspected meningocele

	26.	Regard	ding th	e right	atrium
--	-----	--------	---------	---------	--------

- Lies to the left and anterior to the right ventricle and forms the anterior heart
- b. In tetralogy of Fallot it enlarges anteriorly and to the left giving a boot shaped heartx
- c. When enlarged in left to right heart shunts gives a double heart shadow X
- d) In dextrocardia it forms the left heart border
- e. It is commonly involved in ischemic heart disease

# 27. The following are features of congestive heart failure except

- a. Cardiomegaly
- b. Dilatation of the central pulmonary vessels with peripheral pruning
- c. Cephalisation of pulmonary vessels
- d. Pleural effusion
- (e.) Phantom masses commonly seen along fissures -

## 28. The following is not a feature of pulmonary oedema as seen on chest radiographs

- a. Interstitial Kerly B lines
- b. Indistinct pulmonary vasculature
- c. LBilateral cotton wool opacities with bat wing's appearance
- d. Increased pulmonary vascular markings extending to the periphery of the lung fields
- e. Masking of the hilan

#### 29. A 32 year old woman presented to the cardiologist with complaints of dyspnoea.

Radiographs done at the University of Nairobi Radiology department showed cardiomegaly with features of left to right cardiac shunt. Which of the following cardiac lesions is likely to

be seen at echocardiography?

- a. PDA
- b. VSD
- ASD
- Right sided aortic arch
  - Truncusarteriosus

#### 30. The following is an imaging feature of myocardial infarction on Thallium 201 scintiscan

- a. Anterior myocardial defect on exercise images that reversed on rest images
- b. Inferior wall and septal defects that are seen on exercise images but on rest images
- Apical defect on exercise but reverse on rest images
- d. Anterior and septal wall defects seen on exercise as well as rest images.
- e. Inferior wall defect seen on exercise images but reverse on rest images

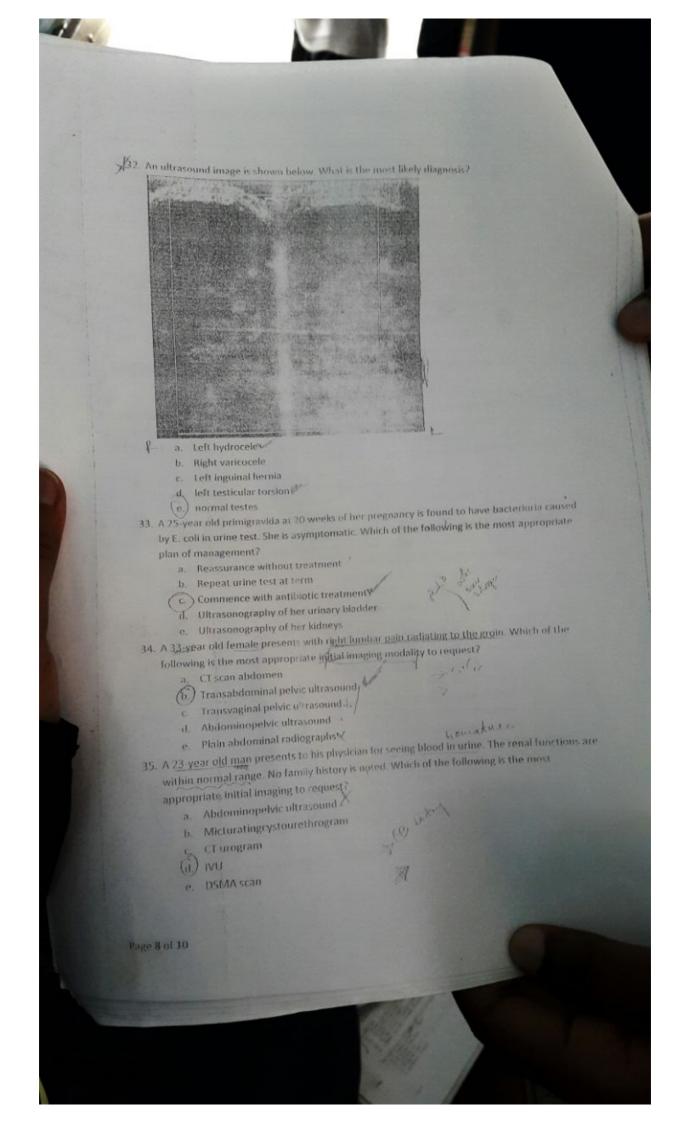
31. A 24-year old woman has marked increase in the size of her uterus between 26-30 weeks gestation. Obstetric ultrasound shows a marked increase in the amount of amniotic fluid. The fetus is normal for gestational age. Which of the following is the most likely diagnosis

- a. Congenital heart disease
- (b.) Duodenal atresia
- c. Erythroblastosisfetalis
- d. Horseshoe kidney
- e. Neural tube defect

Polyheleamon ++ prel-usus ++ exc-ateria

RK DV alayed

dig &-exc



- 36. During your rotations in the surgical outpatient clinic you clerk a 67-year old man who complains of hesitancy, frequency and dribbling of urine. Appropriate management includes which initial diagnostic test
  - a. Micturatingcystourethrogram
  - b. Abdominopelvic ultrasound
    - c. CT abdomen
    - d. IVU
    - e. Transrectal ultrasound
- 37. An ultrasound image is shown. What is the most likely diagnosis?



- a. Gravid uterus at 7 weeks
  - Calcified uterine fibroids
- c. Renal calculus
  - d. Glomerulonephritis
  - e. Hydronephrosis
- 38. Imaging findings in chronic pelvic inflammatory disease include the following except:
  - a. Free pelvic fluid
  - b. Adnexal complex mass
  - c. Intra-uterine pregnancy
  - d. Endometrial thickening
  - e. Normal pelvic ultrasound
- 39. A 27 year-old man presents in the emergency department with hematuria following a fight.

  Which of the following is the imaging modality of choice?
  - a. Abdominal ultrasound (FAST) ×
  - b. Contrast-enhanced CT abdomen
  - c.) CT urogram
    - d. Plain abdominal film
  - e. Micturatingcystourethrogram

+ Transia

V

### 40. The image demonstrated below is



- a. CT scan of the brain
- (b.) T1W brain
- c. T2W brain
- d. Cranial ultrasound
- e. None of the above

