



قائمة الاسئلة 2025-05-18 06:55

تقنية الرنين المغناطيسي-الرابع-علوم تطبيقية-أشعة-كلية الطب والعلوم الصحية-درجة الامتحان(70)

- 1) Fasting during Abdominal MRI is quite helpful because it will
 - 1) ☒ minimizes bowel motion artifacts during imaging
 - 2) ☐ images will be an acceptable
 - 3) ☐ patient might feel restless
 - 4) ☐ none
- 2) A moderately full bladder helps in visualizing the
 - 1) ☒ pelvic structures more clearly
 - 2) ☐ the urinary bladder clearly
 - 3) ☐ show the stones in the U.B.
 - 4) ☐ None
- 3) The patient is asked to fill his / her bladder by letting him / her drink 1 - 2 before the sca.
 - 1) ☐ 200 - 350 ml of water
 - 2) ☐ 300 - 450 ml of water
 - 3) ☐ 400 - 550 ml of water
 - 4) ☒ 500 - 750 ml of water
- 4) The dosage of GBCA is typically calculated based on the
 - 1) ☒ Patient's weight
 - 2) ☐ patients's condition
 - 3) ☐ type of investigation
 - 4) ☐ None
- 5) A patient that weights 105 kg, needs GBCA for his MRI scan.
 - 1) ☒ 10.5 mmol/kg
 - 2) ☐ 105 mmol/kg
 - 3) ☐ 1.05 mmol/kg
 - 4) ☐ none
- 6) Dosage of GBCA is
 - 1) ☒ 0.1 mmol/kg
 - 2) ☐ 1.0 mmol/kg
 - 3) ☐ 10.00 mmol/kg
 - 4) ☐ all
- 7) NSF is a serious renal condition caued by
 - 1) ☒ GBCA
 - 2) ☐ MRI magnets
 - 3) ☐ noise of the coils
 - 4) ☐ none
- 8) Parameters such as repetition time (TR), echo time (TE), flip angle, and field of view (FOV) are adjusted so as to optimize
 - 1) ☐ image contrast
 - 2) ☐ resolution
 - 3) ☐ scan time
 - 4) ☒ all
- 9) In Brain MRI, T1 - weighed imaging provides
 - 1) ☒ detailed anatomical information
 - 2) ☐ Sensitive pathology
 - 3) ☐ clear visualization of the fluid



- 4) - None
- 10) The use of FLAIR in Brain MRI is to
- 1) - detailed anatomical information
 - 2) - Sensitive pathology
 - 3) ☒ clear visualization of the fluid
 - 4) - None
- 11) All are among the disadvantages of MRI, except
- 1) - very expensive
 - 2) - fears claustrophobic patients
 - 3) - very loud
 - 4) ☒ Very clear images for the tissues
- 12) T1 - weighed MRI enhances the signal of
- 1) ☒ fatty tissues
 - 2) - water
 - 3) - gases
 - 4) - none
- 13) T2 - weighed MRI enhances the signal of
- 1) ☒ water
 - 2) - fatty tissues
 - 3) - gases
 - 4) - none
- 14) CSF is on T1 - weighed imaging.
- 1) ☒ dark
 - 2) - white
 - 3) - blue
 - 4) - none
- 15) Fatty tissues are on T1 - weighed imaging.
- 1) ☒ bright
 - 2) - dark
 - 3) - blue
 - 4) - none
- 16) MRI is contraindicated for a pregnant women in her
- 1) ☒ First Trimester
 - 2) - Second trimester
 - 3) - Third trimester
 - 4) - All
- 17) Gadolinium is contraindicated for
- 1) ☒ All pregnant women
 - 2) - First Trimester
 - 3) - Second trimester
 - 4) - Third trimester
- 18) MRI is contraindicated for all except for those who have
- 1) - Bullets and sharpnls
 - 2) - make ups / dark skin tatoos
 - 3) - prosthesis / dentures
 - 4) ☒ none
- 19) The noise created by the MRI machine is caused by the
- 1) ☒ gradient coil
 - 2) - patient





- 3) - contrast media
4) - all
- 20) The patient can stop the scan if he feels uncomfortable using
1) ☒ panic button
2) - call button
3) - emergency stop
4) - all
- 21) Open MRI is applied for all except these
1) ☒ Tall patients
2) - Claustrophobic patients
3) - have difficulty in lying still
4) - Obese patients
- 22) To diagnose seizures / memory problems, we use to diagnose.
1) ☒ EEG
2) - NIRS
3) - PET
4) - None
- 23) For all arthrogram MRIs, be sure to arrive minutes before the scan.
1) - 90 minutes
2) ☒ 60 minutes
3) - 30 minutes
4) - none
- 24) For MRIs that need anesthesia, sedation, and biopsy, be sure to arrive
1) - 90 minutes
2) ☒ 60 minutes
3) - 3 days
4) - 4 days
- 25) Smoking should be stopped two hours before scan, because it
1) ☒ affects the blood flow
2) - blurs the image
3) - patient can not breathe
4) - None
- 26) The most commonly used magnet is
1) ☒ Superconducting magnets
2) - Radio magnets
3) - Resistive Magnet
4) - all
- 27) One is not among the three types of MRI..... .
1) ☒ Exceptional closed MRI
2) - Traditional closed MRI
3) - Opened MRI
4) - Standing / Sitting MRI
- 28) High-field MRI Machines generate magnetic field strength Tesla.
1) - 0.5T - 1.0T
2) - 1.0T - 1.5T
3) - 1.5T - 2.0T
4) ☒ 1.5T - 3.0T
- 29) Low-field MRI Machines generate magnetic field strength Tesla.
1) ☒ 0.2T - 0.5T





- 2) - 1.0T - 1.5T
3) - 1.5T - 2.0T
4) - 1.5T - 3.0T
- 30) High-Resolution MRI machines are used for imaging the
1) - Brain
2) ☒ small bones of the hand and foot
3) - Abdomen
4) - None
- 31) MRI uses all except
1) ☒ x-rays
2) - radio waves
3) - magnetic field
4) - computer
- 32) The first MRI name by Dr. Raymond Damadian was called
1) - Ramond's
2) - Magnet
3) - Varian
4) ☒ Indomitable
- 33) Components of MRI scanner are
1) - two
2) - three
3) ☒ four
4) - None
- 34) The coil in the MRI scanner acts like
1) ☒ Antenna
2) - radio
3) - image receptor
4) - all
- 35) One is not among the three types of Magnets in MRI.
1) - Resistive Magnet
2) - Permanent magnet
3) - Superconducting magnets
4) ☒ Radio magnets