<u>SAIRA HASSAN – 15315 - INU</u>

Answer No:01

Best Imaging Procedure:

- The best imaging procedure for a patient suffering from dysphagia is Fluoroscopy.
- It is a type of medical imaging which shows a continuous X-ray image on a monitor.
- X-ray beam is passed through the body during this procedure.

Standard Protocols:

- A proper imaging practitioner is required.
- A person should know the performance monitoring of the equipment.
- The person doing the procedure should have a registered radiologic degree or certificate.
- All the needed materials should be there on time.
- A supervisor should be present there for any issues regarding the process.
- In pregnant patients the radiologic assistant should counsel the patient properly, as it can lead to damage to the embryo, so that the procedure may be avoided on time.
- Materials should be properly sterilized.
- Awareness of the needed tasks to do during examination of each system of the body like; GIT, CVS, Respiratory System etc.
- Proper documentation of the patient for his/her next visit to the same or any other place.
- The patient should be in comfort position.
- ✤ All reliabilities have to be provided.
- Asking the patient each time operating with his/her new body part.
- ✤ At the last thanking the patient for his patience.

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Answer No:02

<mark>Barium Meal</mark>:

- It is a white liquid which shows up clearly on X-ray.
- Once it is inside the body it coats the body cavities and shows the outlines of the bowel, stomach and esophagus etc.
- If any abnormal tumor etc. is present it shows irregularity in the outlines.

Positions used for Barium Meal:

- The Positions used for barium meal to take X-ray images includes:
 - i. Lying on Stomach (Prone)
 - ii. Lying on Back (Supine)
 - iii. Lying on side (left and right).

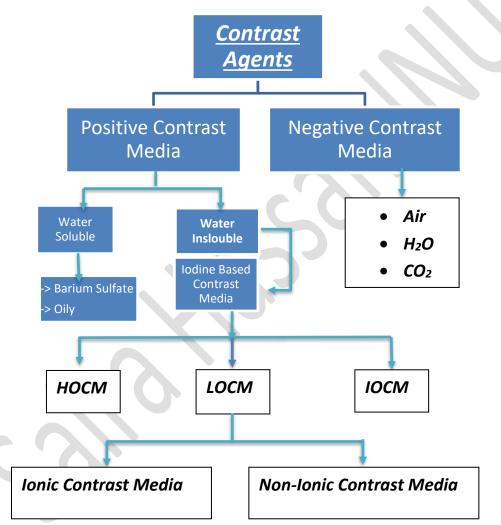
<u>Answer No: 03</u>

<mark>Contrast Agents</mark>:

• Contrast agents are the dyes used to enhance the pictures of the organs produced by imaging devices.

Classification of contrast agents:

• It has several types or classes as follow: -



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Contrast Media In X-Ray and CT: -

Positive Contrast	Negative Contrast
Radio-opaque	Radio-latent
High atomic number	Low atomic Number
White	Black
Example	Example
Barium Sulfate	H ₂ O Air CO ₂
Uses	Uses
GIT	For double contrast studies

Iodine Based Contrasts: -

- The contrasts having iodine chemical in their structure are called iodinebased agents.
- They can be injected into veins and arteries and into other body cavities.
- They are further as *lonic* and *Non-ionic* lodine Based contrasts.
 - > <u>HOCM</u>: Ionic monomer: Diatrizoate:
 - LOCM: Non-Ionic monomer: iohexole 240
 - IOCM: Non-Ionic diamer: Iodixanole 320

Barium Sulfate Based Agents: -

- It is the most common contrast used for imaging procedures.
- Taken by mouth or orally and can be given rectally.
- Available in several forms like; powder, paste, tablets and liquid.
 - Further more other substances are also used as contrast agents like;
 Saline Water, Gases and Gadolinium etc.