SNS COLLEGE OF ALLIED HEALTH SCIENCES

SNS Kalvi Nagar, Coimbatore - 35

Affiliated to Dr MGR Medical University, Chennai

DEPARTMENT OF RADIOGRAPHY AND IMAGING TECHNOLOGY

COURSE NAME : Modern Imaging techniques and recent trends in imaging.

UNIT : 3

TOPIC : CT ABDOMEN ANGIOGRAM PROTOCOL

INTRODUCTION

Computed Tomography(CT) of abdomen is a study of abdominal regions from the level of diaphragm to the pelvic inlet.Computed Tomography of abdomen is used to identify and diagnose different types of diseases and abnormalities in that particular region of interest.

ROUTINE ABDOMEN PROTOCOL

❑INDICATIONS:

- Vascular Dissection.
- Evaluation of abdnominal arterial aneurysm.
- Any suspected active vascular hemorrage.
- Screening in trauma cases etc.,

❑PATIENT POSITIONING:

Head first or feet first - Supine with both arms elevated above the head.

❑TOPOGRAM DIRECTION:

Craniocaudal.

❑SCAN TYPE:

Helical.

❑ POSITION/LANDMARK:

Xyphoid.

❑ START LOCATION:

1cm superior to diaphragm.

❑ END LOCATION:

Lesser trochanters.

❑ GANTRY TILT:

Nil.

❑ BREATH HOLD:

Inspiration.

❑ DFOV:

38cm.

❑SCAN FIELD OF VIEW:

40cm.

❑CONTRAST:

Non-ionic low osmolar Iodinated contrast media.

❑CONTRAST ADMINISTRATION:

Intravenous(IV).

❑VOLUME:

80-100ml IV.

❑ RATE OF INJECTION:

4.00 ml/s.

❑ALGORITHM:

Standard,Soft tissue.

❑RECONS AND REFORMATIONS:

MRP,MIP and VRT.

❑SCAN DELAY:

10-15 sec.

❑SLICE THICKNESS:

1-3 mm.

❑TUBE VOLTAGE (Kv):

120-180.

❑TUBE CURRENT (mAs):

250-450.

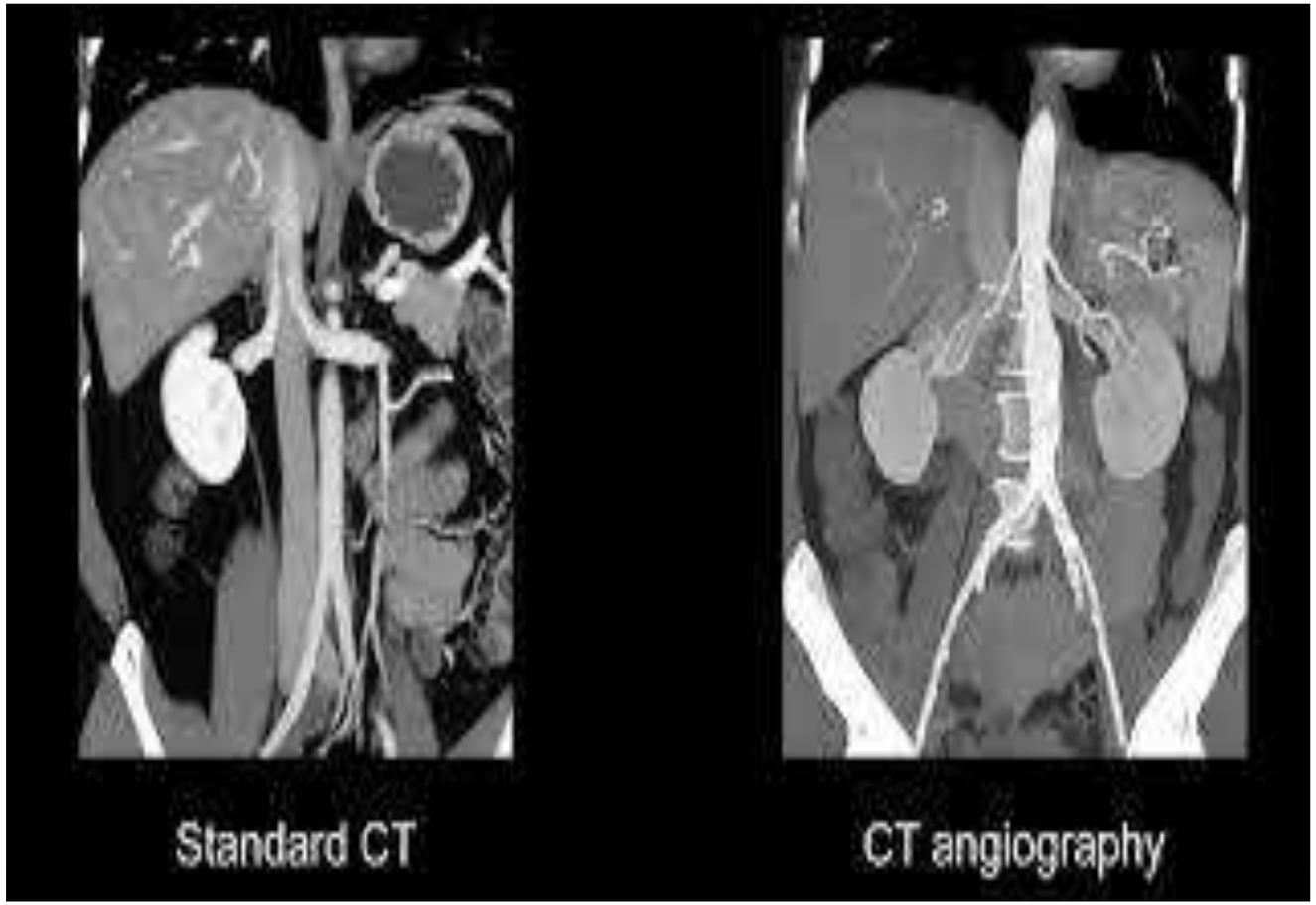
❑ROTATION TIME (s):

0.5

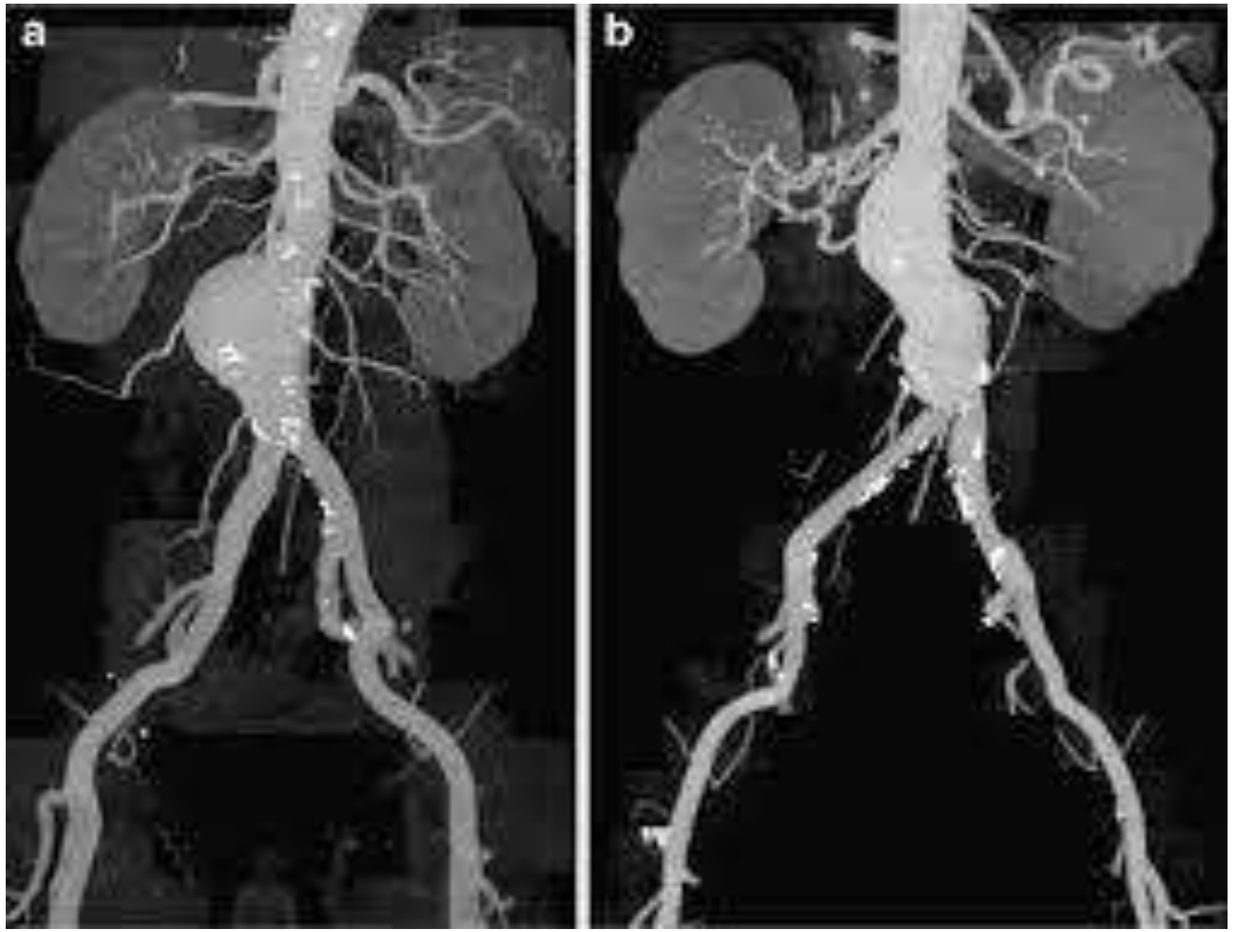
❑IMAGE FORMAT:

DICOM.

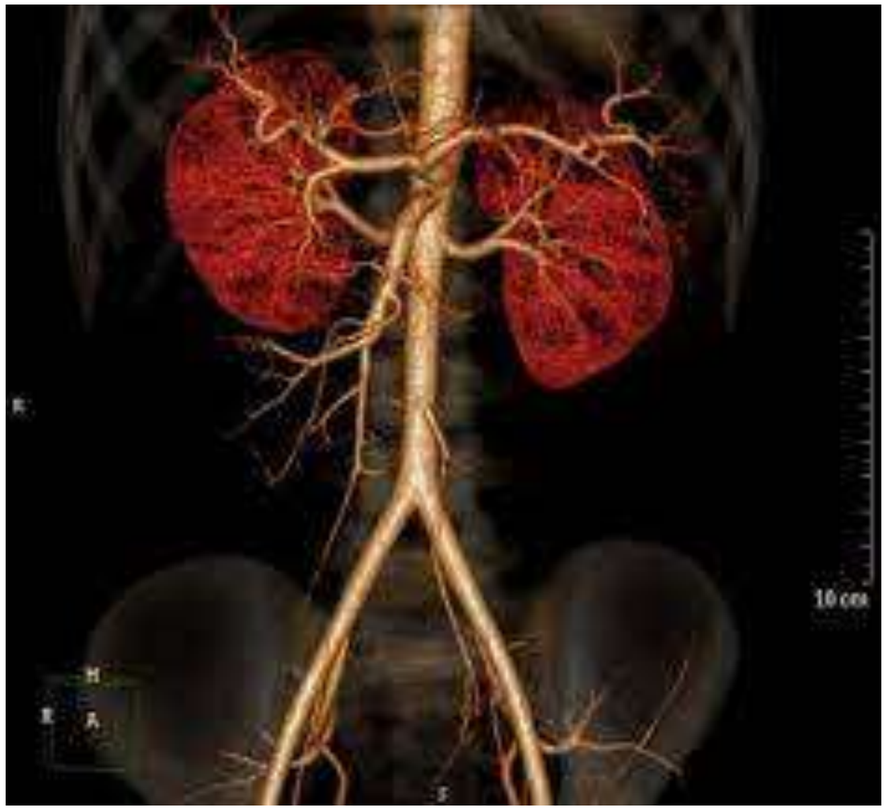
ANGIOGRAM OF CT ABDOMEN

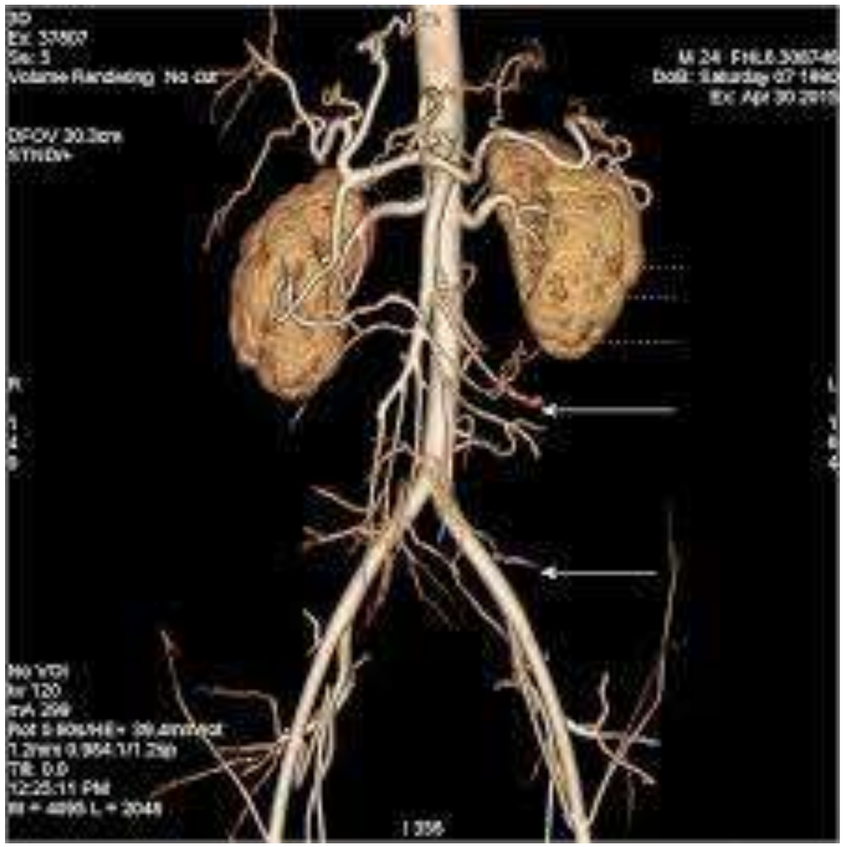


MIP IMAGE OF CT ABDOMEN ANGIOGRAM



VRT IMAGE OF CT ABDOMEN ANGIOGRAM





THANK YOU