



**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 : NON CONTRAST CT PROTOCOL ABDOMEN/KUB FOR CALCULI**



# 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:

- Evaluation for renal calculi.
- Ureteric calculi.
- Vesical calculi.



## ❑ PATIENT POSITIONING:

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

## ❑ TOPOGRAM DIRECTION:

Craniocaudal.

## ❑ SCAN TYPE:

Helical.



## ❑ POSITION/LANDMARK:

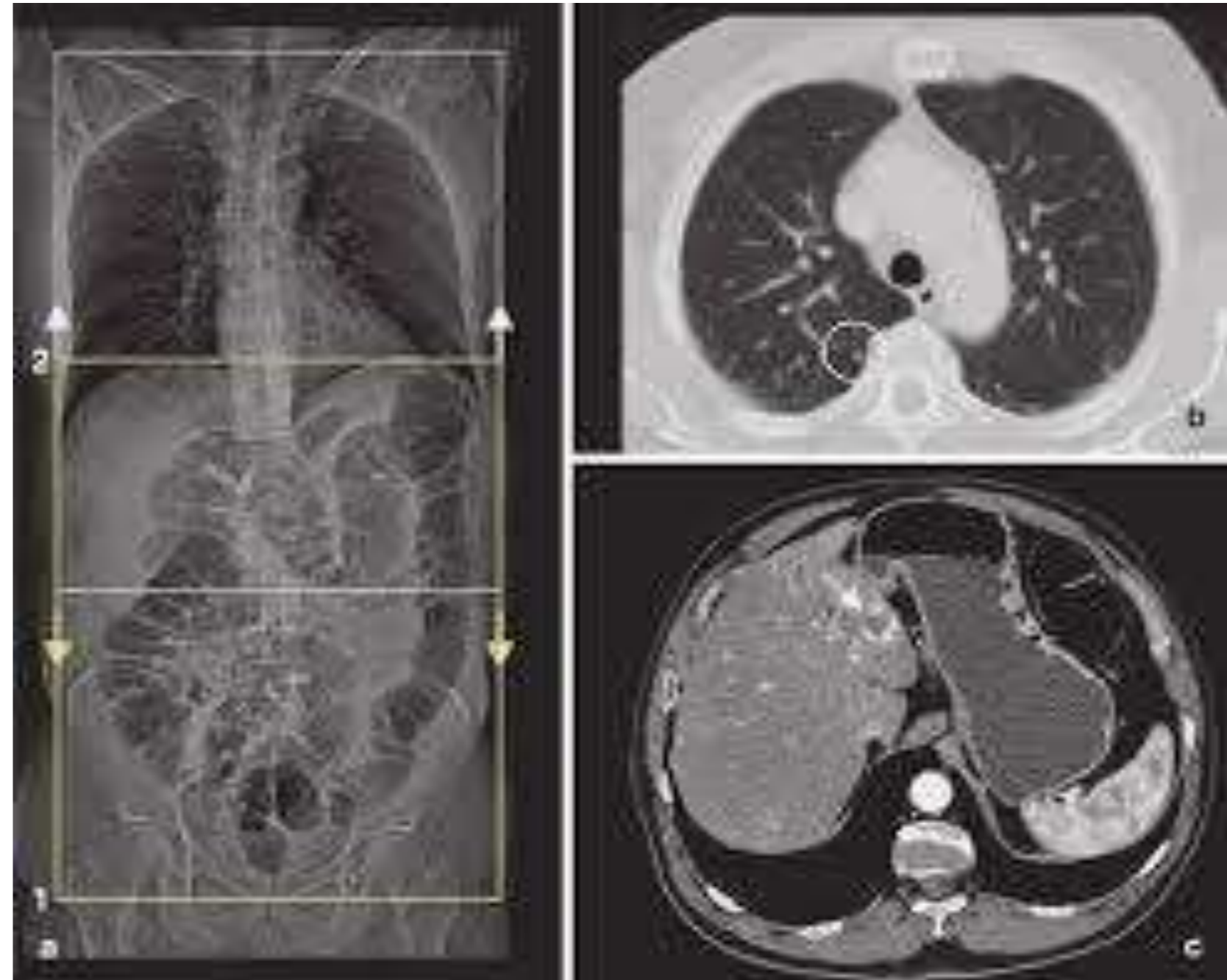
Xyphoid.

## ❑ START LOCATION:

1cm superior to diaphragm.

## ❑ END LOCATION:

Lesser trochanters.





GANTRY TILT:

Nil.

BREATH HOLD:

Inspiration.

DFOV:

38cm.



**❑ SCAN FIELD OF VIEW:**

40cm.

**❑ ALGORITHM:**

Standard.

**❑ RECONS AND REFORMATIONS:**

MRP and MIP.

**❑ SLICE THICKNESS:**

3-5 mm.



TUBE VOLTAGE (Kv):

120-180.

TUBE CURRENT (mAs):

250-450.

ROTATION TIME (s):

0.5

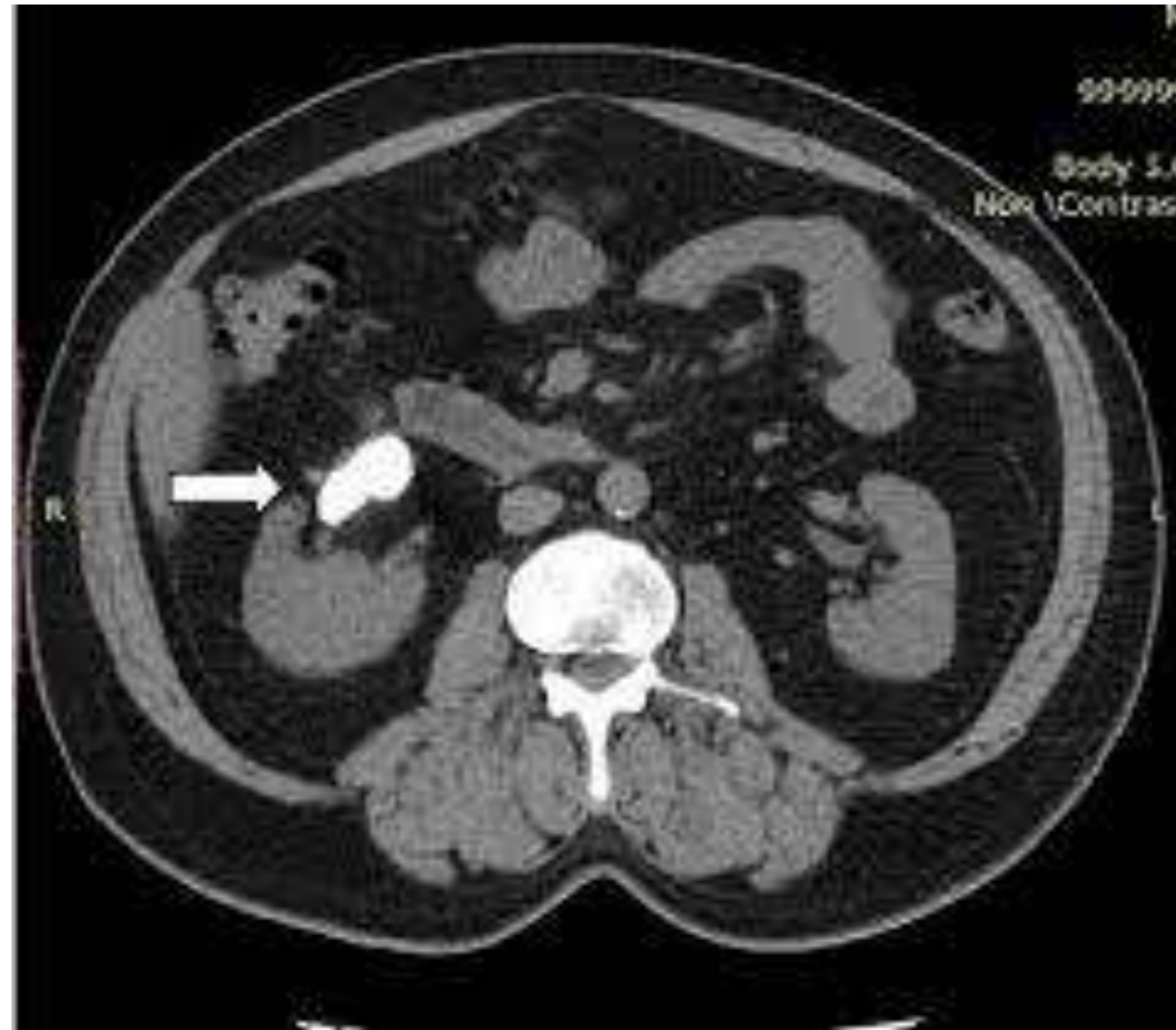
IMAGE FORMAT:

DICOM.





# NON CONTRAST AXIAL CT IMAGE SHOWS CALCULUS AT RIGHT RENAL PELVIS





**THANK YOU**