



***SNS COLLEGE OF ALLIED HEALTH SCIENCES
SNS KALVI NAGAR, COIMBATORE-35
AFFILIATED TO Dr MGR UNIVERSITY, CHENNAI***

***DEPARTMENT OF OPERATION THEATRE AND
ANAESTHESIA TECHNOLOGY***

3rd YEAR

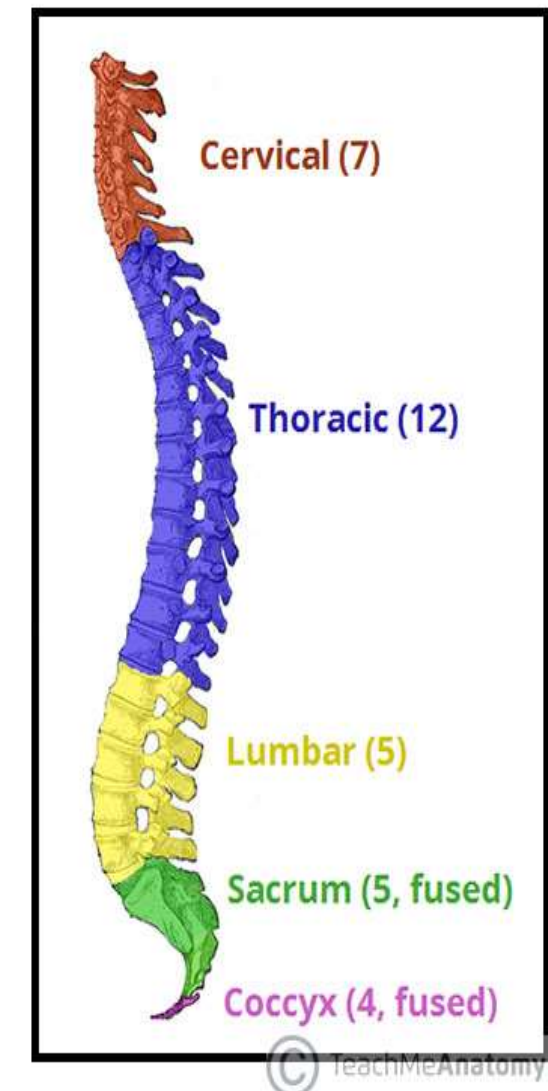
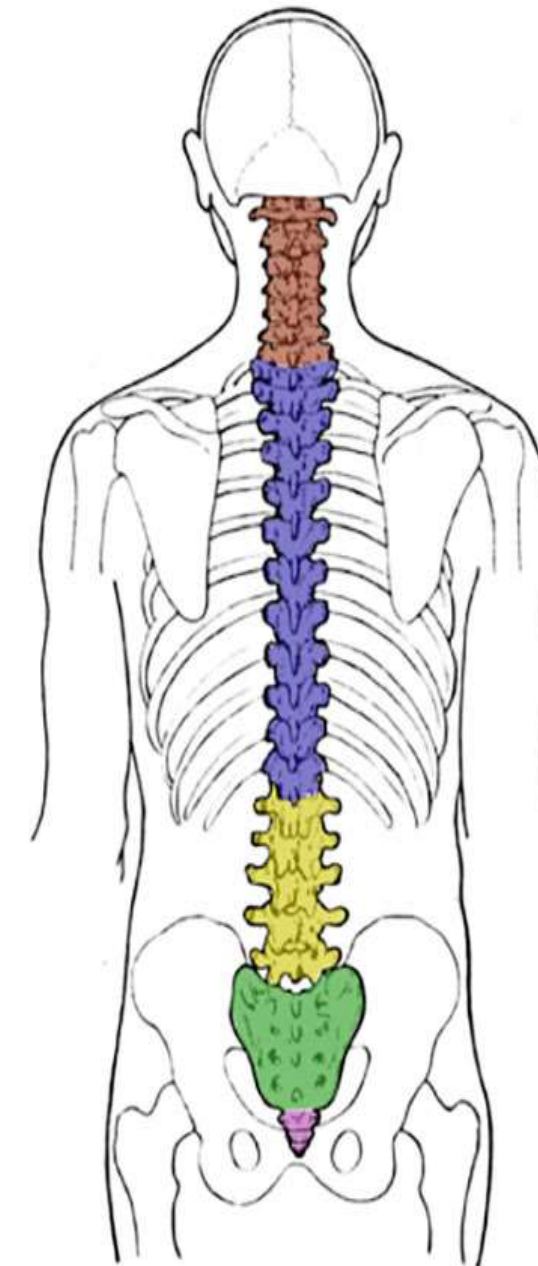
SUBJECT: PRINCIPLES OF ANAESTHESIA-2

TOPIC: EPIDURAL ANAESTHESIA

APPLIED ANATOMY:

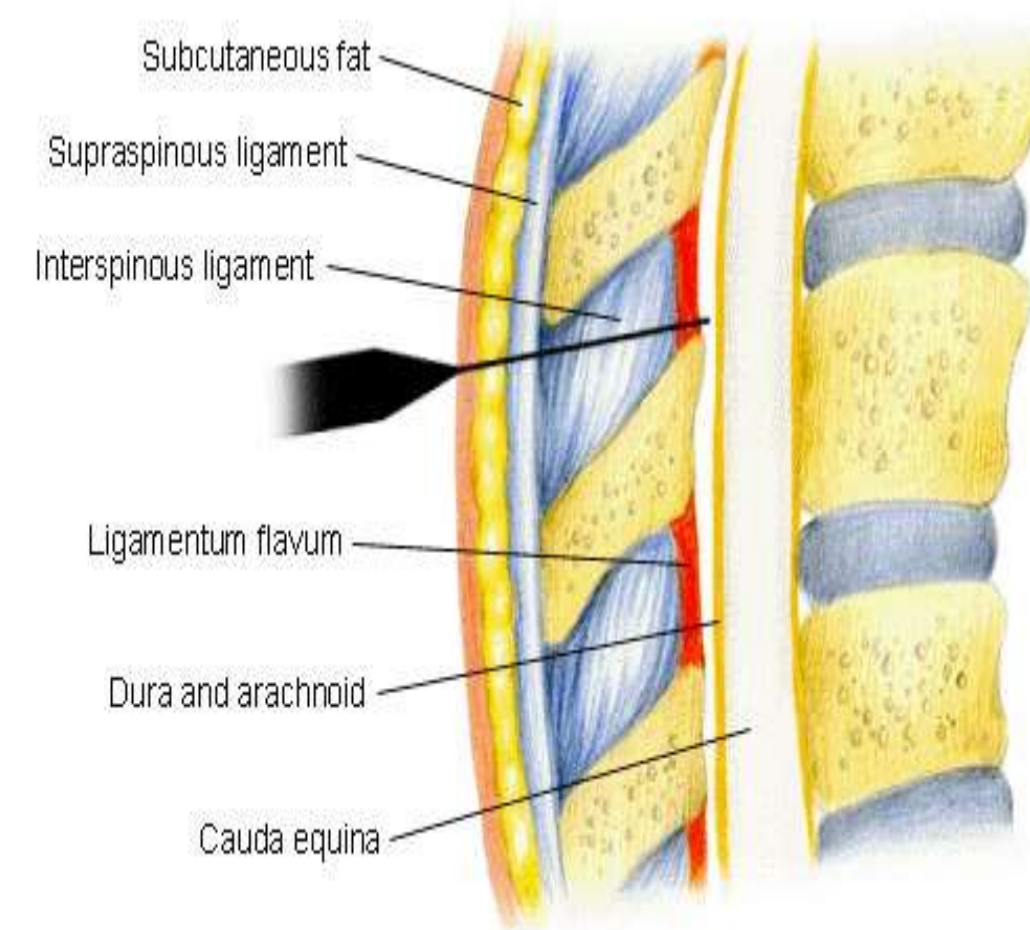
VERTEBRAL COLUMN CONSISTS OF 33 VERTEBRAE:

LUMBAR-5
CERVICAL-7
THORACIC-12
SACCRAL -5
COCCY-5

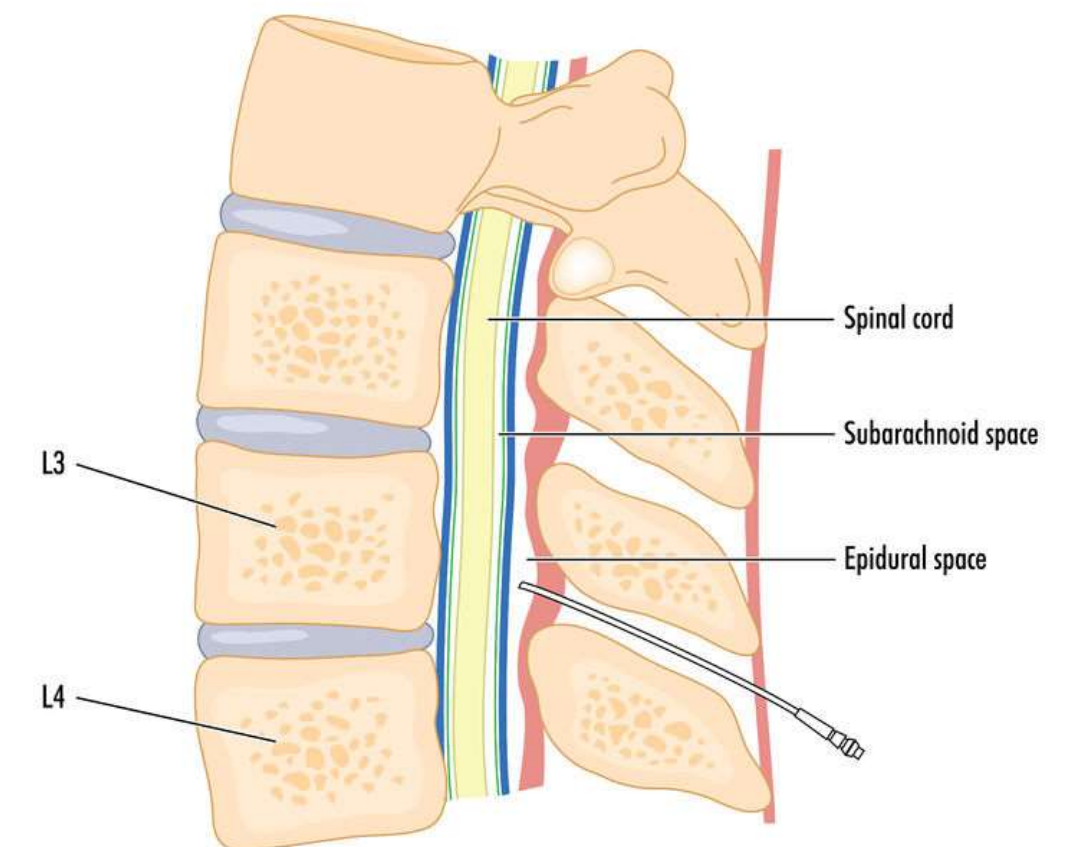


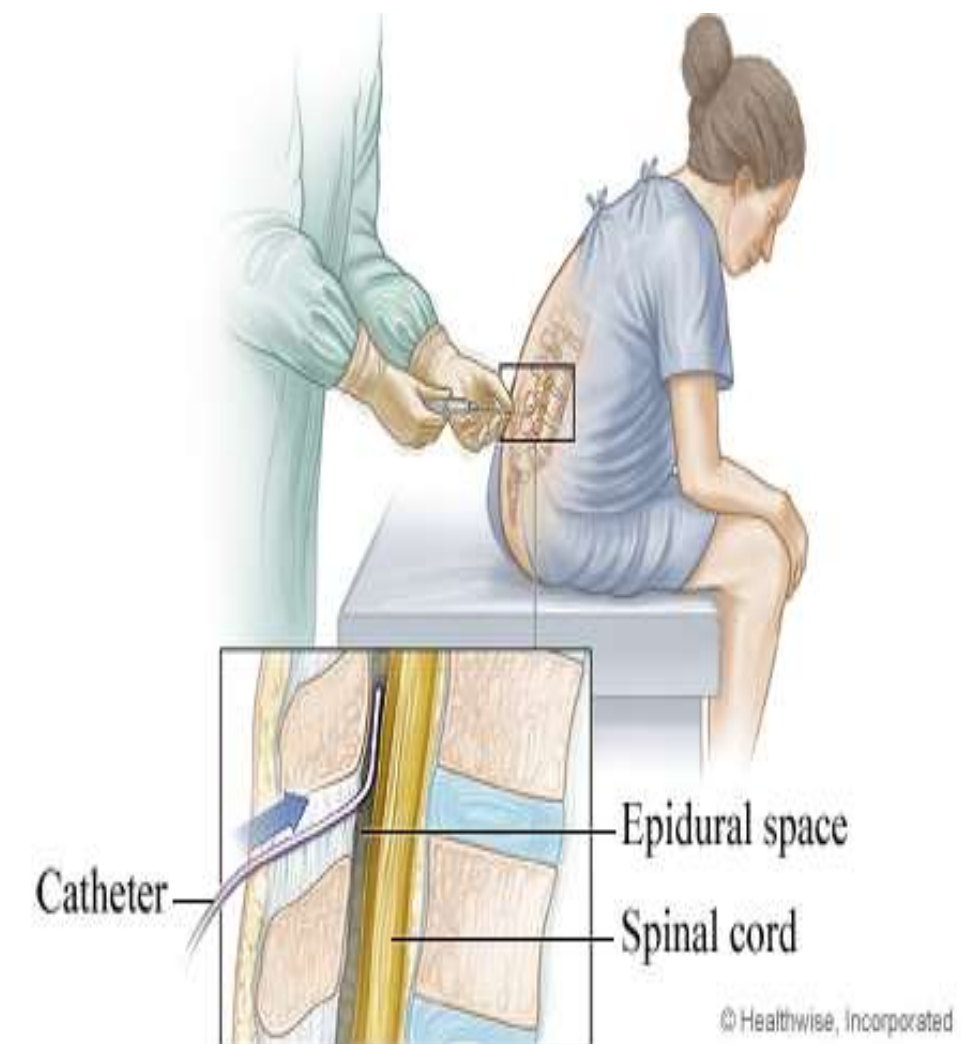
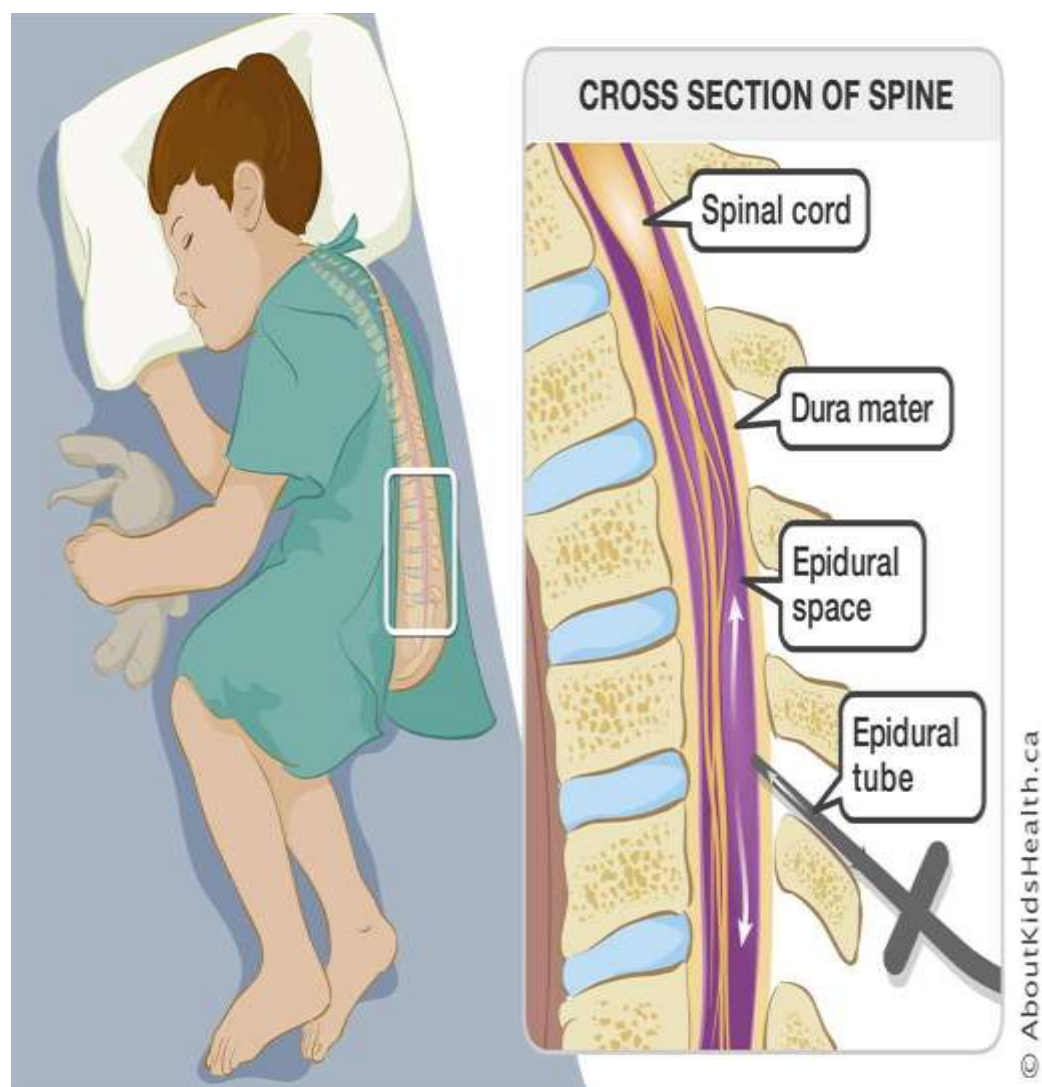
STRUCTURES:

- SKIN
- SUBCUTANEOUS TISSUE
- SUPRASPINOUS LIGAMENT
- INTERASPINOUS LIGAMENT
- LIGAMENTUM FLAVUM
- DURA MATER
- ARACHNOID MATER
- PIA MATER



EPIDURAL SPACE:
LIES OUTSIDE THE DURA MATTER(BETWEEN
DURA&LIGAMENTUM FLAVUM).
EPIDURAL GIVES IN THIS SPACE.







TUOHY NEEDLE

TOTAL LENGTH -9CM

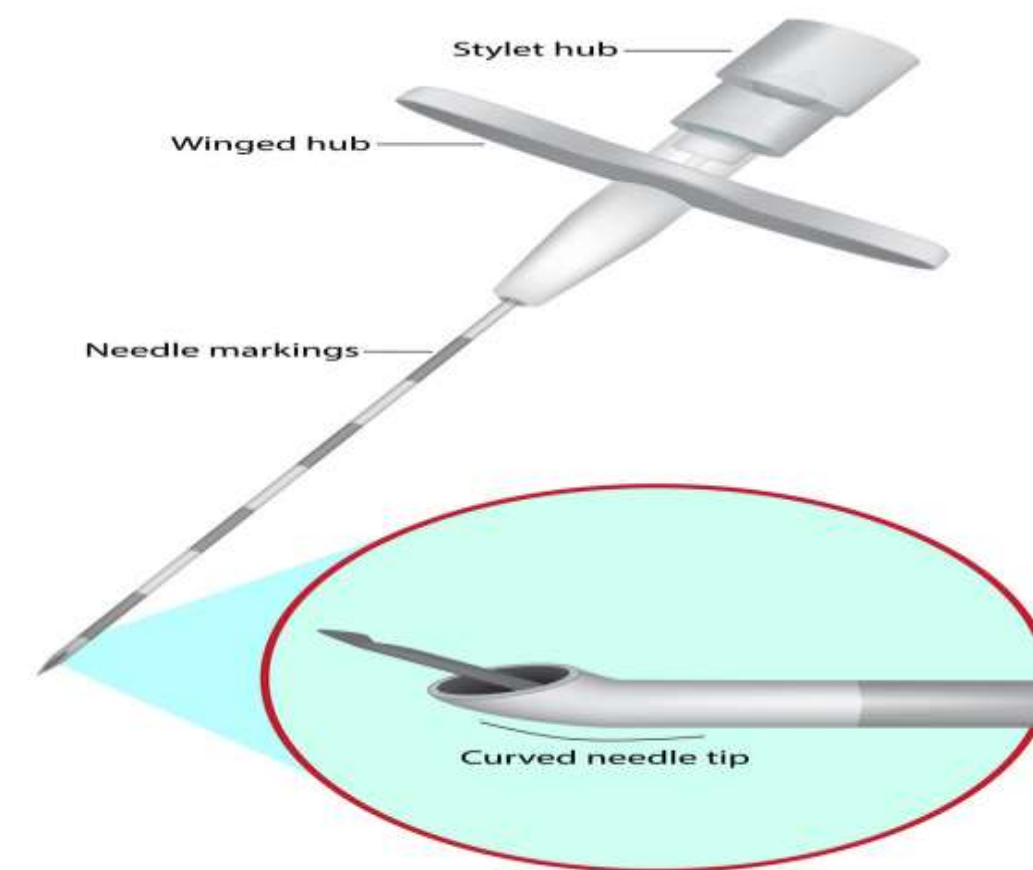
NEEDLE LENGTH -8CM

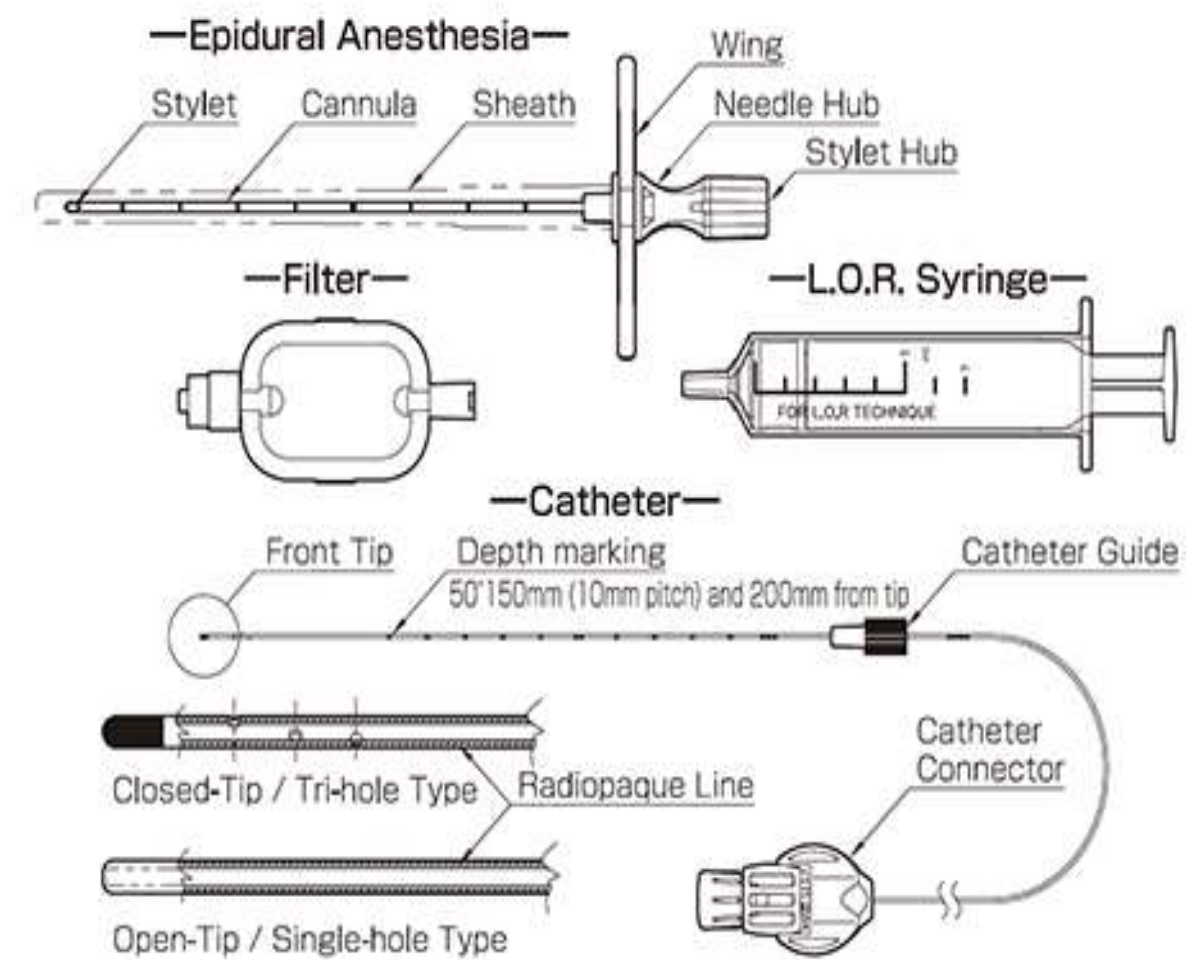
HUB&STYLET -1CM

THICKNESS -16G,17G,18G



THERE WILL BE 1CM MARKINGS FROM TIP
WITH ALTERNATING COLOUR TO ASSESS THE
DEPTH OF EPIDURAL SPACE
THE TIP IS HAVING STYLET CURRVATURE &
BEVEL OF THE NEEDLE POINT IS FULY BLUNT
IS CALLED (HUBER POINT)







GRADUATED POLYVINYL CATHETER PASSED THROUGH TUOHY NEEDLE INTO EPIDURAL SPACE , AFTER PLACING THE CATHETER IN EPIDURAL SPACE ,THE NEEDLE IS REMOVED &THE CATHETER IS SECURED

DRUGS:

2%XYLOCAINE(L.A)

XYLOCAINE WITH ADRENALINE



ADVANTAGES:

1. LONGER DURATION
2. ONSET OF HYPOTENSION IS MINIMAL
3. CHRONIC OTATIN CONTROL
4. OBSTETRIC ANAESTHESIA & ANALGESIA

DISADVANTAGES:

1. LARGE VOLUME NECESSARY
2. DANGER OF DURAL PUNCTURE
3. ACCIDENTAL TOTAL SPINAL



CONTRAINDICATIONS:

- THROMBOCYTOPENIA
- SEVERE HAEMORRHAGE
- COAGULATION DEFECT
- LOCAL INFLAMMATION



THANK YOU