



LUMBAR SPINE X RAY

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L SPINE X RAY VIEWS

1. L SPINE AP.
2. L SPINE LATERAL.
3. L SPINE LATERAL FLEXION.
4. L SPINE LATERAL EXTENSION.



PREPARATION

- **COLLECT HISTORY FROM PATIENT.**
- **PATIENT IS ASKED TO REMOVE ALL RADIOPAQUE MATERIALS.**
- **WEAR HOSPITAL GOWN.**
- **IF FEMALE PATIENT COME TO X RAY , CHAPERONE IS NECESSARAY.**
- **SHIELDING IS PROVIDED TO PATIENT.**

INDICATIONS

- **LBA , RADIATING PAIN TO LOWER LIMBS.**
- **UNABLE TO WALK.**
- **INJURIES AND FRACTURES TO LUMBAR SPINE.**
- **BIRTH DEFECTS THAT AFFECT THE SPINE.**
- **DEGENERATIVE CHANGES OF LUMBAR SPINE LIKE LUMBAR SPONDYLOSIS, STENOSIS OF INTERVERTEBRAL DISCS AND FORMATION OF OSTEOPHYTES.**
- **OSTEOARTHRITIS AND OSTEOPOROSIS.**
- **TUMORS**
- **PRE AND POST OP CASES.**



CONTRAINDICATIONS

- **PREGNANCY**



L SPINE AP POSITIONING

- **PATIENT LIES SUPINE IN MIDLINE OF X RAY TABLE WITH ARMS BY SIDE OF THE BODY.**
- **KNEES ARE FLEXED AND SOLES OF FEET ON TABLE TOP.**
- **IT IS ENSURED THAT TRUNK AND PELVIS ARE NOT ROTATED.**
- **SIDE IS MARKED .**
- **PATIENT IS IMOBALISED.**
- **BEAM IS COLLIMATED.**



L SPINE LATERAL POSITIONING

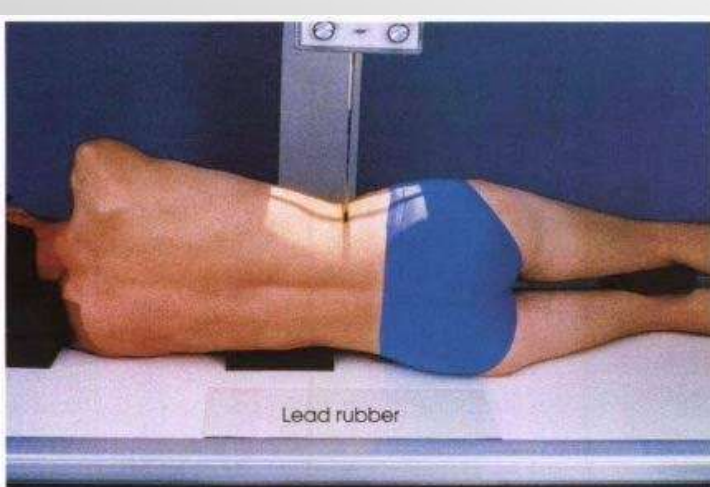
- PATIENT LIES ON TRUE LATERAL POSITION ON MIDLINE OF X RAY TABLE.
- ARMS RAISED ABOVE THE HEAD.
- HIPS AND KNEES ARE FLEXED.
- PATIENT IS IMMOBILISED. BEAM IS COLLIMATED.
- FLEXION : BEND FORWARD DIRECTION.
- EXTENSION : BEND BACKWARD DIRECTION.



Fig. 6.25a Flexion.



Fig. 6.25b Extension.



CENTERING

- **L SPINE AP : CENTRAL RAY PASSED THROUGH 2 INCHES ABOVE THE ILIAC CREST .**
- **L SPINE LATERAL : CENTRAL RAY PASSED THROUGH 10 CMS ANTERIOR TO SPINOUS PROCESS OF L3 VERTEBRA.**

TECHNIQUE

L SPINE AP

- **KVP : 80**
- **MAS : 40**
- **FSS : LARGE.**
- **FFD : 100 CMS.**
- **WITH GRID.**
- **CASEETTE SIZE :17"X14"**

L SPINE LATERAL

- **KVP : 85**
- **MAS : 50**
- **FSS : LARGE.**
- **FFD : 100 CMS.**
- **WITH GRID.**
- **CASEETTE SIZE :17"X14 "**



The greatest sin is to
think yourself weak.

— *Swami Vivekananda* —