MRI SCREENING OF LUMBO SACRAL SPINE

PROTOCOL:
MRI screening of lumbar spine done by taking T1, T2 & STIR in sagittal & parasagittal planes and T2 axial plane.

FINDINGS:
Lumbar curvature is impaired.

- **BONES**:  
  Suggestion of sacralisation of L5 vertebra is seen. 
  Vertebral bodies, lateral & posterior elements show normal marrow signal intensity pattern. 
  No evidence of any marrow oedema or infiltration seen. 
  No evidence of any vertebral collapse noted. 
  **Early marginal osteophytes seen at L4 vertebra.** 
  Mild bilateral facet arthropathy seen at L2-L3 to L4-L5 levels.

- **INTERVERTEBRAL DISCS & NEURAL FORAMINA**: 
  Disc desiccations are seen at L3-L4 to L4-L5 levels with normal disc height. 
  Moderate focal postero-central protrusion of L3-L4 & L4-L5 discs are noted compressing anterior thecal sac, bilateral lateral recesses obliteration & mild bilateral neural foraminal stenosis leading to compression over cauda equina.

- **SPINAL CANAL**: 
  Lower cord & conus appear normal. 
  A-P diameters of available spinal canal at disc levels are as follows –  
  - 17 mm at L1-L2 disc level, 
  - 18 mm at L2-L3 disc level, 
  - 08 mm at L3-L4 disc level, 
  - 08 mm at L4-L5 disc level & 
  - 11 mm at L5-S1 disc level respectively.
Acc. No.: FG3-55/RBL-29

Name: Mr. Bikram Viswakarma

Age / Sex: 25 Year(s) / Male

Referred By: Dr. A N Mukherjee

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Center: A-OPD

- **Ligaments**: Anterior & posterior longitudinal ligaments appear normal. Ligamentfla are not hypertrophied.

- **Pre & Para vertebral soft tissues**: No significant abnormality detected.

**Impression**: Follow up Non contrast MRI lumbo-sacral spine reveals –

- Moderate focal postero-central protrusion of L3-L4 & L4-L5 discs compressing anterior thecal sac, bilateral lateral recesses obliteration & mild bilateral neural foraminal stenosis leading to compression over cauda equina.

- Mild bilateral facetial arthropathy at L2-L3 to L4-L5 levels.

- Mild spinal canal stenosis at L3-L4 & L4-L5 levels.

- In comparison to last study there is no significant change.

End of Report

Dr. S L Kedia

MD (Radiodiagnosis), PGI (Chandigarh).

Machine Details:
MRI 1.5 Tesla 16 Channel
1st GE HDxt 16 channel for reduced scan time

Prepared By

Dr. Debasisht Dey

MD (Radio-diagnosis), Assistant professor (WBMES)
ACC. NO. : FG3-55/RBL-29
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