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**VIMAGO**  
SMALL ANIMAL CASE STUDY REVIEW

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## HIGH-DEFINITION COMPUTED TOMOGRAPHY CASE REVIEW - L4-5: FRACTURE LUXATION

### PATIENT

2-year-old, male neutered Mastiff that became acute paraplegic for 2 days previously.

### IMAGE PROTOCOL

A survey and myelographic CT was performed of the thoracolumbar spine.

### FINDINGS

There was circumferential irregular spinal cord compression at the level of L4-5. This was complicated as this was the site of myelographic injection. A fracture of the left caudal articular process of L4 was seen on the MPR images (both transverse and dorsal plane images). Increased width of the joint space was seen in the left articular facet joint space and a mild step defect between the caudal end plate of L5 and the cranial endplate (ventrally subluxated) of L5 was seen.

#### Imaging Diagnosis:

L4-5: fracture luxation at L4-5. Probable spinal canal hemorrhage causing spinal cord compression.

#### Final Diagnosis:

L4-5: fracture luxation at L4-5. Probable spinal canal hemorrhage causing spinal cord compression.

### DISCUSSION POINT

Trauma is a major differential in acute neurology cases in dogs and cats. ***This case demonstrated the Vimago's™ ability to detect and characterize very small fracture fragments (not seen on MRI images in this case).***

