



**STUDY: MRI OF THE CERVICAL SPINE WITH FLEXION AND EXTENSION**

**HISTORY:** Radicular pain extending to the shoulder blades. Evaluate for disc herniation or space occupying lesion. Date of injury 3/6/2013.

**MACHINE:** This MRI study was performed using the Hitachi Airis II Open Unit with flexion and extension to establish acute causation of injury related to the anatomy involving the spine and surrounding tissues.

**TECHNIQUE:** Multiplanar MR images were obtained of the cervical spine

**COMPARISON:** None.

**FINDINGS:**

There is loss of normal cervical lordosis. Vertebra are normal in height, alignment, and signal intensity. Craniocervical junction is intact. Spinal cord has normal signal along its course.

**FINDINGS AT SPECIFIC LEVELS:**

**C2-3:** No significant disc bulge or protrusion. The neural foramina are patent and the exiting nerve roots are normal. Disc protrusion measurements are as follows:

Neutral: 0 mm      Flexion: 0 mm      Extension: 0 mm

**C3-4:** Left paracentral disc osteophyte complex measuring 3 mm. Mild prominence of the left uncovertebral joint. Constellation of findings is slightly narrowing the left lateral recess and causes mild left-sided foraminal narrowing. Disc osteophyte complex measurement:

Neutral: 3 mm      Flexion: 3 mm      Extension: 3 mm

**C4-5:** Left paracentral disc osteophyte complex measuring 1.5 mm. Mild prominence of the left uncovertebral joint. Constellation of findings is slightly narrowing the left lateral recess and causes mild left-sided foraminal narrowing. Disc osteophyte complex measurement:

Neutral: 1.5 mm      Flexion: 1.5 mm      Extension: 1.5 mm

**C5-6:** Broad-based disc osteophyte complex measuring 2 mm, flattening the ventral surface of the cord without spinal canal stenosis. Neural foramina are patent. Disc osteophyte complex measurement

Neutral: 2 mm      Flexion: 2 mm      Extension: 2 mm

**C6-7:** No significant disc bulge or protrusion. The neural foramina are patent and the exiting nerve roots are normal. Disc protrusion measurements are as follows:

Neutral: 0 mm      Flexion: 0 mm      Extension: 0 mm

**C7-T1:** No significant disc bulge or protrusion. The neural foramina are patent and the exiting nerve roots are normal. Disc protrusion measurements are as follows:

Neutral: 0 mm      Flexion: 0 mm      Extension: 0 mm

#### **IMPRESSION:**

**1. C3-4: Left paracentral disc osteophyte complex measuring 3 mm. Mild prominence of the left uncovertebral joint. Constellation of findings is slightly narrowing the left lateral recess and causes mild left-sided foraminal narrowing. Disc osteophyte complex measurement:**

**Neutral: 3 mm      Flexion: 3 mm      Extension: 3 mm**

**2. C4-5: Left paracentral disc osteophyte complex measuring 1.5 mm. Mild prominence of the left uncovertebral joint. Constellation of findings is slightly narrowing the left lateral recess and causes mild left-sided foraminal narrowing. Disc osteophyte complex measurement:**

**Neutral: 1.5 mm      Flexion: 1.5 mm      Extension: 1.5 mm**

**3. C5-6: Broad-based disc osteophyte complex measuring 2 mm, flattening the ventral surface of the cord without spinal canal stenosis. Neural foramina are patent. Disc osteophyte complex measurement**

**Neutral: 2 mm      Flexion: 2 mm      Extension: 2 mm**

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