

**Patient Name**  
**Date of Birth**  
**Patient Sex**  
**Study Date**

**Site Name**  
**Ref. Physician**

### DIAGNOSTIC IMAGING REPORT

#### **RADIOGRAPHIC EXAMINATION - CERVICAL SPINE**

**INDICATIONS:** Images received for secondary radiographic consultation. MVC. Assess ligamentous injury through evaluation of Alteration of Motion Segment Integrity (AOMSI), documenting increased translational or angular motion in accordance with the DRE categories (AMA Guides to the Evaluation of Permanent Impairment, 5th Edition, p.392).

**COMPARISON:** None.

#### **FINDINGS:**

Four cervical x-rays were submitted for review.

Cervical lordosis measures approximately 24° utilizing Cobb method with the superior endplate of C2 and inferior endplate of C7. The atlantodental and paraodontoid spaces are maintained. There is no evidence of acute fracture or dislocation. Overall osseous density is maintained.

Vertebral body heights are maintained. Intervertebral disc spaces are relatively preserved. Mild blunting of the uncinate processes C5-C6. Mild hypertrophy and sclerosis of the cervical facets C3-C5.

There is atherosclerosis of the external carotid artery on the left. The prevertebral soft tissues are maintained.

#### **IMPRESSIONS:**

1. No acute osseous abnormality of the cervical spine.
2. Mild uncinate arthrosis C5-C6.
3. Mild facet arthrosis C3-C5.
4. Translational motion noted at C5-C6 that may be suggestive of ligament laxity/injury. Further level by level analysis is noted below.
5. Atherosclerosis of the external carotid artery on the left.
6. Postural alterations. Clinical correlation for aberrant spinal mechanics.

| <b>Translational Motion Assessment</b>                                                           |                |                  |         |
|--------------------------------------------------------------------------------------------------|----------------|------------------|---------|
| Note: Positive values indicate an anterolisthesis and negative values indicate a retrolisthesis. |                |                  |         |
| Levels                                                                                           | Flexed Lateral | Extended Lateral | Results |
| C2-C3                                                                                            | 0.23 mm        | -0.6 mm          | 0.83 mm |
| C3-C4                                                                                            | 0.42 mm        | -0.83 mm         | 1.25 mm |
| C4-C5                                                                                            | 0.54 mm        | -0.75 mm         | 1.29 mm |
| C5-C6                                                                                            | 1.19 mm        | -1.3 mm          | 2.49 mm |
| C6-C7                                                                                            | 0.65 mm        | -0.52 mm         | 1.17 mm |

| <b>Angular Motion Assessment</b> |                |         |
|----------------------------------|----------------|---------|
| Levels                           | Flexed Lateral | Results |
| C2-C3                            | -5.08°         | -4.32°  |
| C3-C4                            | -0.76°         | 7.56°   |
| C4-C5                            | -8.32°         | -4.12°  |
| C5-C6                            | -4.2°          | -0.21°  |
| C6-C7                            | -3.99°         | 0.21°   |

