

# Anterior Neck Assessment

## TWELVE-C

Using the TWELVE-C mnemonic to assess the anterior neck for risk of significant injury and impending airway obstruction following trauma.

**T**

**Tracheal deviation** – assess for tenderness, deviation

**W**

**Wounds** – assess for open wounds/haemorrhage

**E**

**Emphysema** (subcutaneous/surgical)

**L**

**Laryngeal tenderness / crepitus**

**V**

**Venous distension** – assess for vascular injury such as bruising/bruit/expanding haematoma

**E**

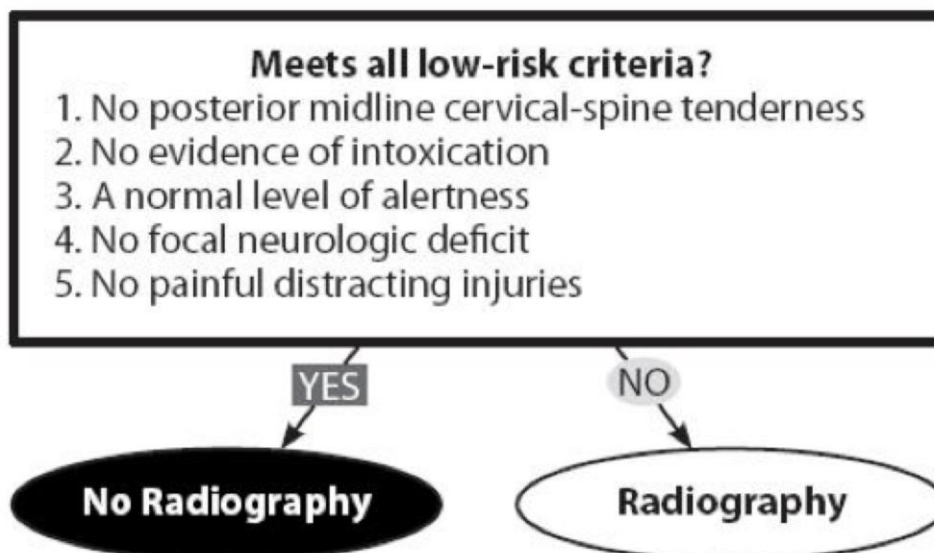
**oEsophageal injury** – assess for pain on swallowing (injury unlikely if able to swallow easily)

**C**

**Carotid haematoma / bruits / swelling**

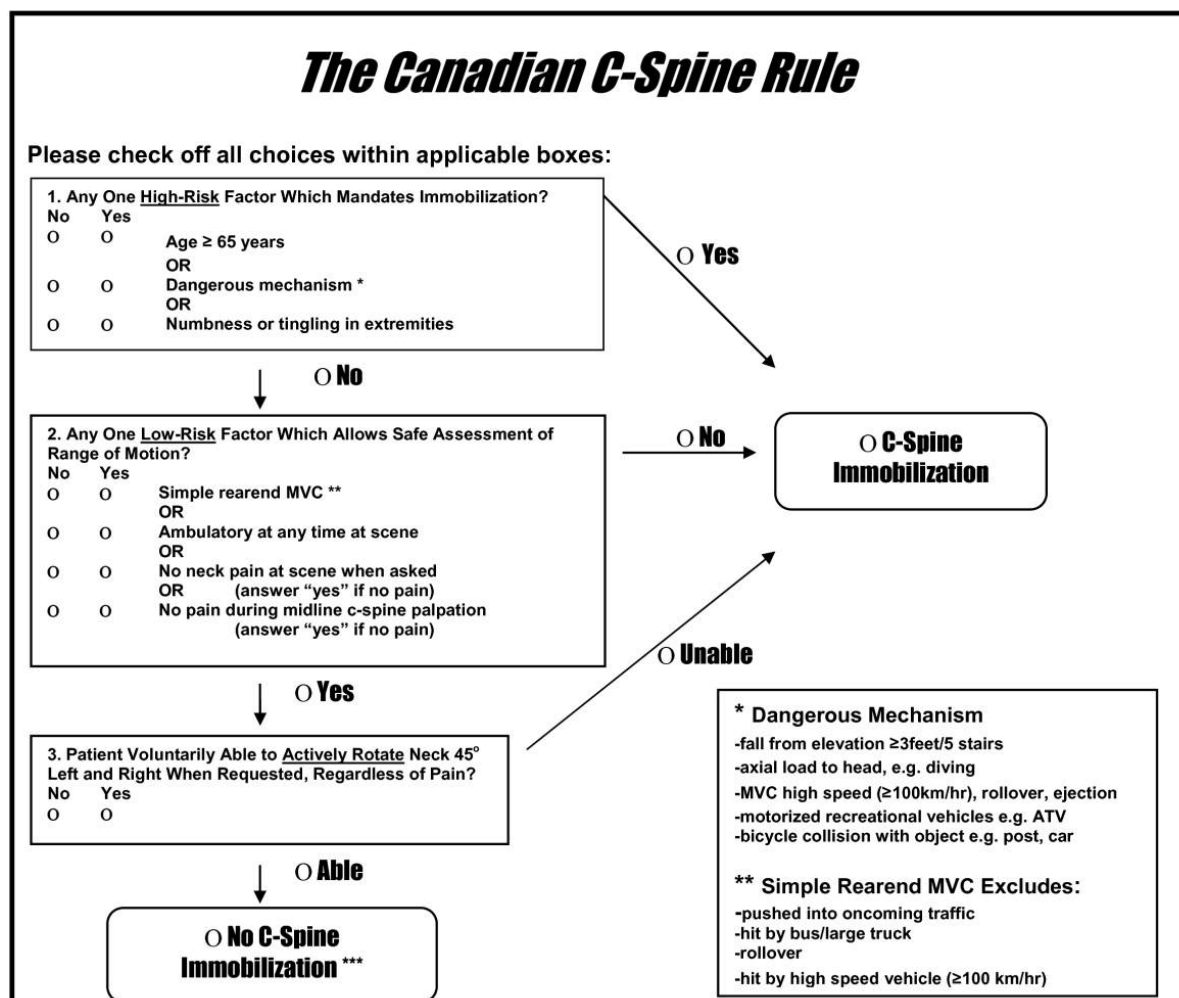
\*Collar should be opened/removed to visualise anterior neck while manual inline stabilisation (MILS) is maintained.

## National Emergency X-Radiology Utilization Study (NEXUS) Criteria



Available at <https://bit.ly/3drehVJ>

## Canadian C-Spine Rule



Available at: <https://bit.ly/3cV5rzH>

# Spinal Trauma Neck Assessment Procedural Skill Setup Guide

## Session overview

This skills session is to assess participants in assessment for neck injury following trauma utilising structured clinical format.

## Learning outcome

By the end of this session, and with ongoing practice, the participant will be able to:

- demonstrate ability to perform anterior neck assessment
- demonstrate understanding of TWELVE-C prompt
- demonstrate the ability to assess for cervical spine injury
- identify risk factors for neck and cervical spine injury
- demonstrate ability to place a cervical spine collar
- demonstrate clinical clearance of cervical spine

Skill	Resources	Checklist
<p><b>Assess anterior neck</b></p> <ul style="list-style-type: none"> <li>• TWELVE-C</li> </ul> <p><b>Discuss significance of findings</b></p> <p><b>Outline management options</b></p> <ul style="list-style-type: none"> <li>• Blunt</li> <li>• Penetrating</li> <li>• Burns</li> </ul> <p><b>Assess cervical spine</b></p> <p><b>Apply cervical collar</b></p> <p><b>Demonstrate clearance of cervical spine</b></p>	<ul style="list-style-type: none"> <li>• Airway heads</li> <li>• Airway trainer</li> <li>• Collars, variety of types</li> </ul>	