

## Diagnosis and Management of Neck Pain

Diagnostic Criteria	Guideline-Supported Interventions
<p><b>Common Neck Pain:</b> (e.g., non-specific neck pain, cervical strain/sprain, facet joint irritation, mechanical cervicgia, WAD I-II, osteoarthritis, myofascial pain).</p> <p>90% of cases; sharp/dull/shooting/aching pain between nuchal line and cervicothoracic junction, with/without radiation to head, shoulders, or arms. Aggravated by movement/posture; associated muscle stiffness/spasms. Pain reproducible with tests; no significant neurological deficits.</p>	<p><i>Goal: Reduce pain, optimize function, promote daily activity through a multimodal approach.</i></p> <p><b>Education &amp; self-management:</b> Highlight neck pain’s typically self-limiting nature with tailored guidance (written, digital, visual). Encourage exercise, nutrition, stress management, and movement (avoid prolonged rest and neck collars). Support social/work participation. Employ SMART goals and Brief Action Planning to sustain engagement.</p> <p><b>Exercise:</b> Create personalized programs for strength, mobility, and fitness.</p> <p><b>Manual therapy:</b> Spinal manipulation, mobilization, soft tissue techniques.</p>
<p><b>Neck Pain with Radicular Pain/Radiculopathy:</b> (from disc pathology, WAD III, foraminal stenosis)</p> <p>Common in younger adults (disc herniation) or older adults (foraminal stenosis).</p> <p>Sharp/burning pain radiates down arm in dermatomal pattern; numbness/tingling/weakness in arm.</p> <p>Worsens with bending head forward, lifting, coughing, or sneezing.</p> <p>Positive tests (e.g., Spurling’s, cervical distraction, Bakody, Valsalva, upper limb tension tests); sensory deficits, muscle weakness, altered reflexes.</p>	<p><b>Psychosocial support:</b> Screen and address barriers (e.g., fear, low recovery expectations). Offer stress management, self-efficacy resources, and refer persistent cases to medical/mental health providers.</p> <p><b>Medication:</b> Short-term NSAIDs, analgesics, or muscle relaxants as needed with medical oversight; avoid long-term use, especially of opioids.</p> <p><b>Multimodal care:</b> Especially for persistent neck pain, combine physical, psychological, and social interventions tailored to patient needs, focusing on non-pharmacologic strategies.</p> <p><b>Ongoing follow-up:</b> Ensure alignment with treatment goals.</p> <p><b>Criteria for discharge/referral:</b> Achieved goals, worsening symptoms, failed treatment (e.g., no improvement after 6-8 weeks).</p>
<b>Red Flags: Immediate Emergency Care Referral</b>	
<p><b>Cervical Myelopathy:</b> Gait disturbances, hand clumsiness, non-dermatomal numbness/weakness in upper/lower extremities, bowel/bladder dysfunction.</p> <p><b>Meningitis:</b> Neck stiffness, severe headache worsening with neck flexion, fever, vomiting, rash, altered mental status, photophobia.</p> <p><b>Spinal Infection:</b> Immunosuppression, recent infection/surgery, TB history, constitutional symptoms (e.g., fever/chills), IV drug use, poor living conditions.</p> <p><b>Intracranial/Brain Lesion:</b> Sudden intense headache (thunderclap); unexplained headache, dizziness, visual changes.</p> <p><b>Vertebral/Carotid Artery Dissection:</b> Severe neck pain, “worst headache ever”, double vision, difficulty swallowing speaking/walking, facial numbness, drop attacks, nausea, nystagmus.</p> <p><b>Traumatic Spinal Fracture:</b> Age ≥65, dangerous mechanism (e.g., pedestrian struck, high-speed collision, fall from height &gt;3 feet), extremity weakness/tingling/burning, inability to rotate neck 45°, midline cervical spine tenderness (<a href="#">Canadian C-Spine Rule</a>).</p>	
<b>Red Flags: Referral to Medical Provider</b>	
<p><b>Spinal Fracture:</b> Sudden severe neck pain, osteoporosis, corticosteroid use, female sex, age &gt;60, history of spinal fracture/cancer, possible extremity weakness/tingling/burning.</p> <p><b>Spinal Malignancy:</b> Progressive pain, cancer history, systemic symptoms (fatigue, weight loss, night pain), headache worsening with exertion.</p> <p><b>Inflammatory Arthritides</b> (e.g., spondyloarthropathies, rheumatoid arthritis, systemic lupus erythematosus): Morning stiffness &gt;1 hour, systemic symptoms (fatigue, weight loss, fever), symmetrical joint pain, joint swelling/deformity, skin lesions.</p>	
<p><b>Orange Flags (Symptoms of Psychiatric Disorders)</b></p> <p><b>Immediate referral:</b> Suicidal ideation, severe distress/psychosis, harm intent.</p> <p><b>Non-urgent referral:</b> Persistent symptoms affecting function (e.g., anxiety).</p> <p><b>Co-management:</b> Triage with medical/psychiatric care, manage comorbid MSK conditions, use tools (PHQ-9, GAD-7, etc.) to guide care/escalation.</p>	<p><b>Yellow Flags (Psychosocial Factors)</b></p> <p><b>Factors:</b> Individual (fear, low expectations), social (lack of support), socioeconomic (employment/financial stress), work stressors.</p> <p><b>Co-management:</b> Provide resources (stress management, graded activity), monitor challenges, refer if persistent, use tools (PHQ-9, GAD-7, etc.) to guide care/escalation..</p>