I. Acute cervical pain (onset within the past 6 weeks) (*MRI without contrast unless otherwise specified*)

Not appropriate: uncomplicated acute cervical pain (<6 weeks) with or without suspected radiculopathy (no red flags) does not warrant the use of MRI. Radicular symptoms alone, in the absence of objective neurological signs, do not normally indicate a need for an MRI within an early time period.

- Any new objective neurological signs, either:
  - Clear cut signs (sensory loss, motor weakness, abnormal reflexes) in a radicular pattern
  - Evidence of neurologic signs or symptoms suggestive of spinal cord involvement (e.g. bilateral numbness, weakness, or reflex changes in arms)
  - Progressive neurological deficit
  - Evidence of spinal instability or spinal fracture on any other imaging test
  - History of significant trauma, including:
    - Cranial trauma,
    - Significant whiplash following high speed impact,
    - Significant fall
- Patient not evaluable for 48 hours and suspected cervical trauma
- Suspicion or objective evidence of (*MRI with or without contrast*):
  - Malignancy
  - Infection
  - Immunosupression
  - Bone disc margin destruction on plain radiographs

II. Subacute cervical pain (>6 weeks) and no prior MRI for the same episode of cervical pain

- Any neurological signs or symptoms
- Prior neck surgery and significant new neurological signs or symptoms
- Evidence of spinal instability or spinal fracture on any other imaging test
- Complex congenital anomaly or deformity of the spine
- Evidence of substantial spinal canal stenosis on other imaging tests

III. Chronic or recurrent cervical pain (>3 months) and prior MRI done for the same episode of cervical pain

- Significant objective worsening of neurological status by physical exam or electrodiagnostic testing
- Patient is considered a candidate for cervical spine surgery and either:
  - Progressive changes in objective neurological findings
  - At least one year since last cervical MRI (without objective change in neurological signs)
- Prior cervical spine surgery and either:
  - New or worsening significant objective neurological findings
  - Other imaging or clinical findings suggest new adverse effects of surgery

IV. Suspect Cervical Multiple Sclerosis (MS)

- Suspicion of cervical MS with objective evidence of neurological signs and symptoms in time and space or definite/probably MS with new onset neurological deficit referable to the cervical spinal cord
References

