83 y/o old female with neck pain

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Type II odontoid fracture
Type II odontoid fracture

- On the lateral view, there is posterior subluxation of C1 relative to C2 of approximately 8 mm.
- The tip of the odontoid process is not well visualized.
- Recommend CT for further eval
Type II odontoid fracture

- Presentation:
  - Neck pain, rarely myelopathy

- Imaging:
  - Type 1: fracture of the upper part of the odontoid peg
  - Type 2: fracture at the base of the odontoid - most common - unstable - high chance of nonunion
  - Type 3: through the odontoid and into the lateral masses of C2
Type II odontoid fracture

- Treatment: fracture pattern dictates management
  - Type I fracture
    - Usually stable injury
    - Treated with simple immobilization
  - Type II fracture
    - Most likely to progress to nonunion
    - Surgical fusion may be necessary to achieve stability
  - Type III fracture
    - traction followed by bracing