# **IMAGING OF A POTENTIAL NECK INJURY** Who should receive imaging of the cervical spine?

Use this guideline to help you decide whether or not to CT/x-ray a stable and alert (GCS 15/15) patient with potential neck injury following blunt trauma. If in doubt consult a Senior (ST4 or above).

Any **High-risk factors** which mandates imaging?

- a) Neck pain and Age ≥65 years
- b) **Dangerous mechanism\*** and visible injury above clavicle (or thoracic injury with severe pain ≥7/10 even if no neck pain/tenderness)
- c) Neurological Deficit, Paralysis, **Numbness** or **Tingling** in an **extremity**
- d) **Severe neck pain** ( $\geq 7/10$  severity)

### Rule not applicable if

Non-trauma case

GCS < 15

Chronically impaired cognition Abnormal vital signs

Age < 16

Acute paralysis

Known vertebral disease

Previous c-spine surgery

Penetrating Injury

>48hrs from injury

Re-attends with neck pain

As with any clinical tool this should be applied with care and is not a substitute for clinical judgment in individual patients. You can make exception to the rule if based on justifiable clinical grounds.

# None

Any Low-risk factor which allows safe assessment of the neck range of motion?

a) Simple rear-end MVC\*\*

- b) Sitting position in department
- c) Ambulatory at any time
- d) Delayed onset of neck pain
- e) Absence of midline c-spine

Patient voluntarily able to laterally rotate their neck to 45° bilaterally without severe pain (≥7/10)?

ABLE

**Cervical Spine imaging** not required

**Cervical Spine imaging** REQUIRED

#### CT Scan if

- ≥65 or vertebral disease
- Presence of neurology CT scan of other areas ing undertaken
- \*\*Discuss all possible CTs with ST4 or above
  - \* Da

#### \*Dangerous Mechanism

- Fall > 1m / 5 stairs
- Axial load to head e.g. diving
- MVA high speed >60mph, rollover, ejection
- Bicycle collision
- Motorised recreational vehicle e.g. Quad Bike

### \*\* Simple rear-end MVC excludes

- Pushed into oncoming traffic
- Hit by bus/large truck
- Rollover
- Hit by high speed vehicle >60mph

NO