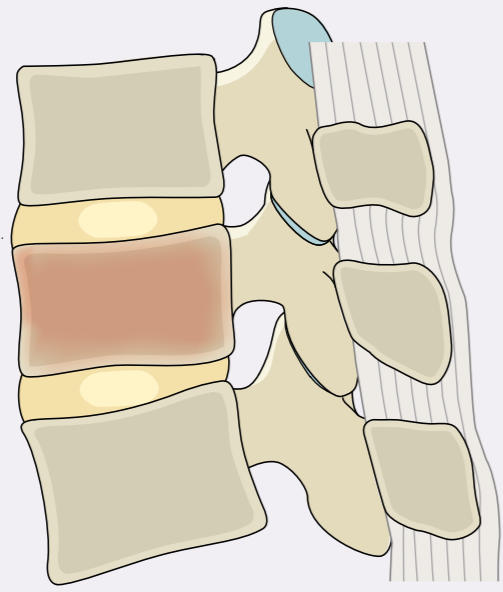


OF 1

No deformation (vertebral body edema in MRI-STIR)

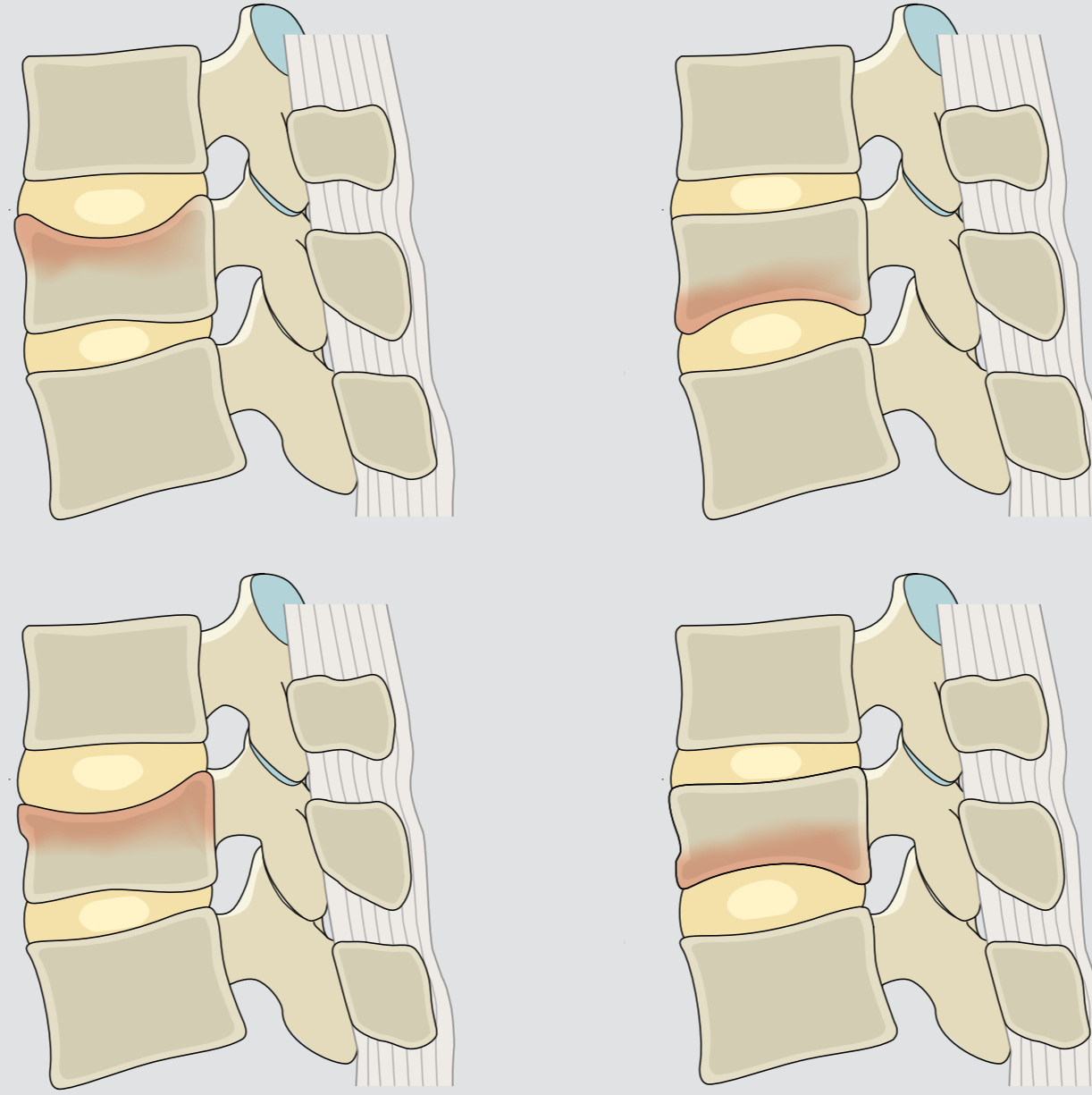
- Typically not visible on x-rays: chance to find on MRI



OF 2

Deformation of one endplate without or with only minor posterior wall involvement

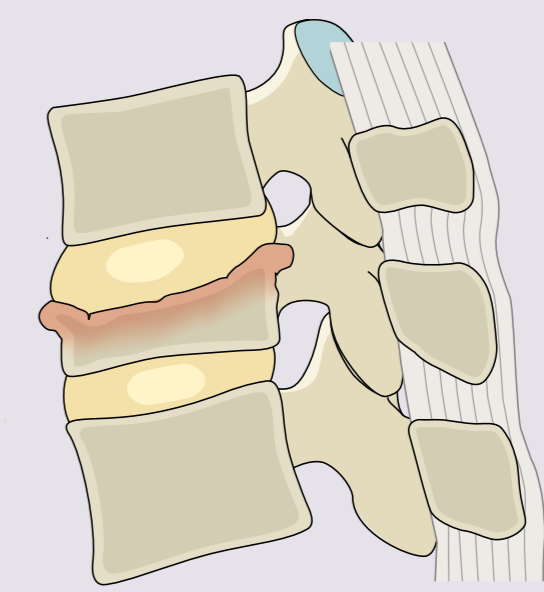
- With posterior wall < 1/5 involvement



OF 3

Deformation of one endplate with distinct posterior wall involvement

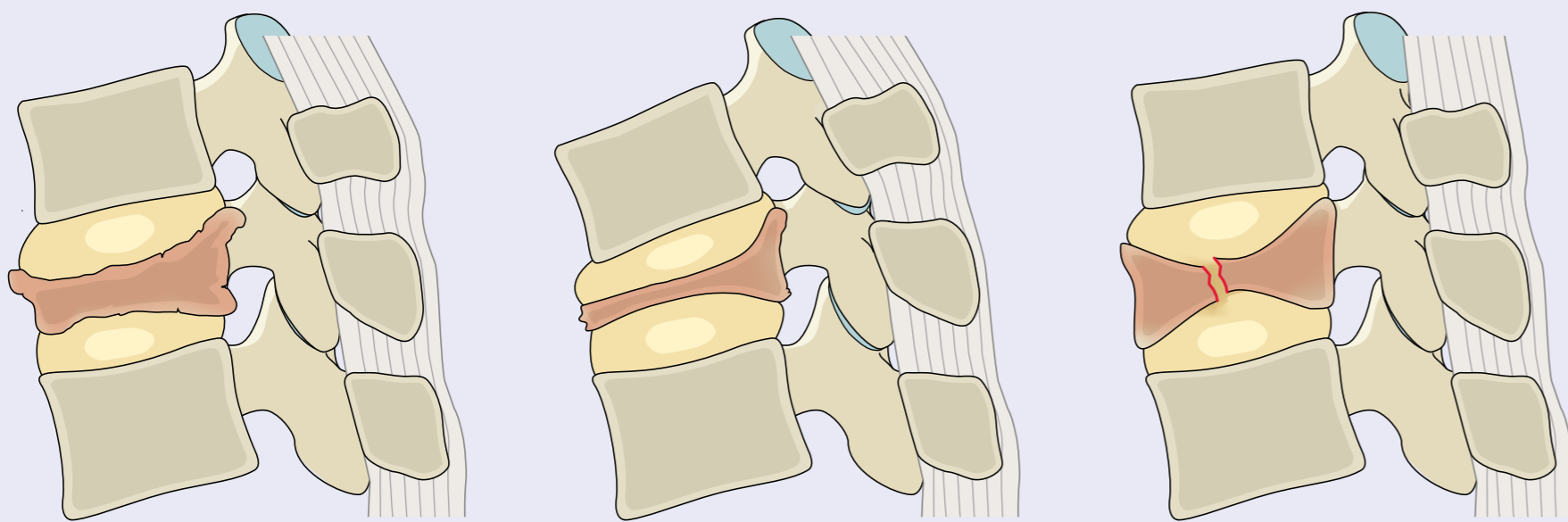
- With posterior wall > 1/5 involved



OF 4

Deformation of both endplates with/without posterior wall involvement

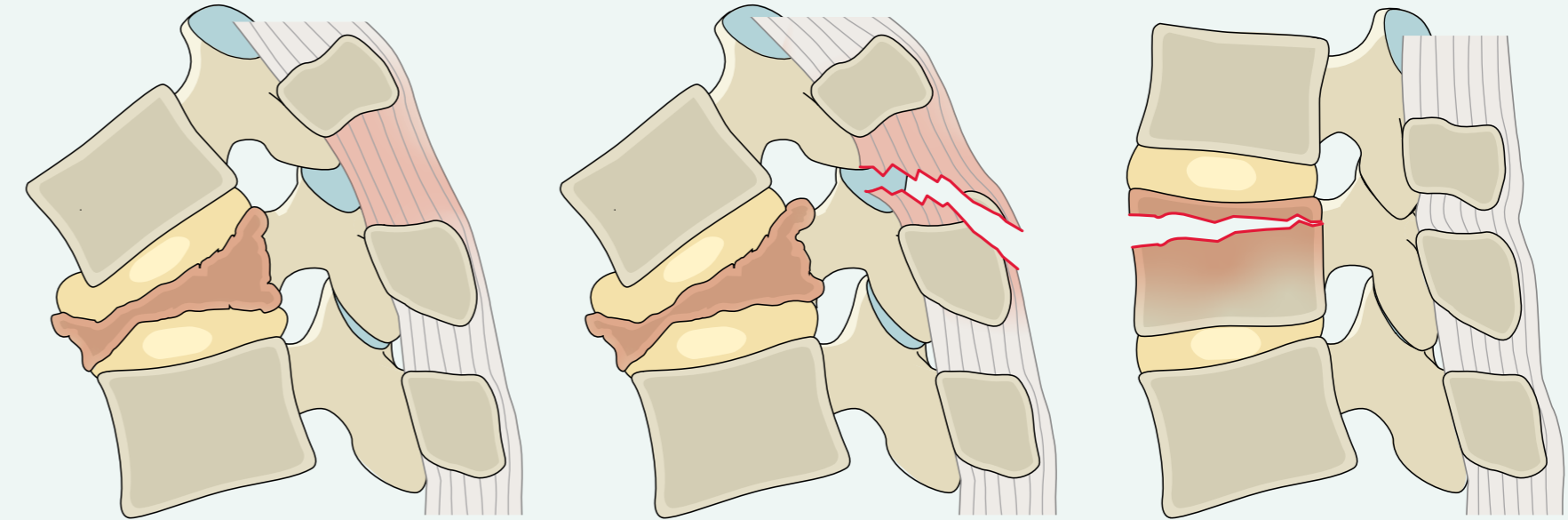
- Loss of vertebral frame structure
- Vertebral body collapse
- Pincer type fracture



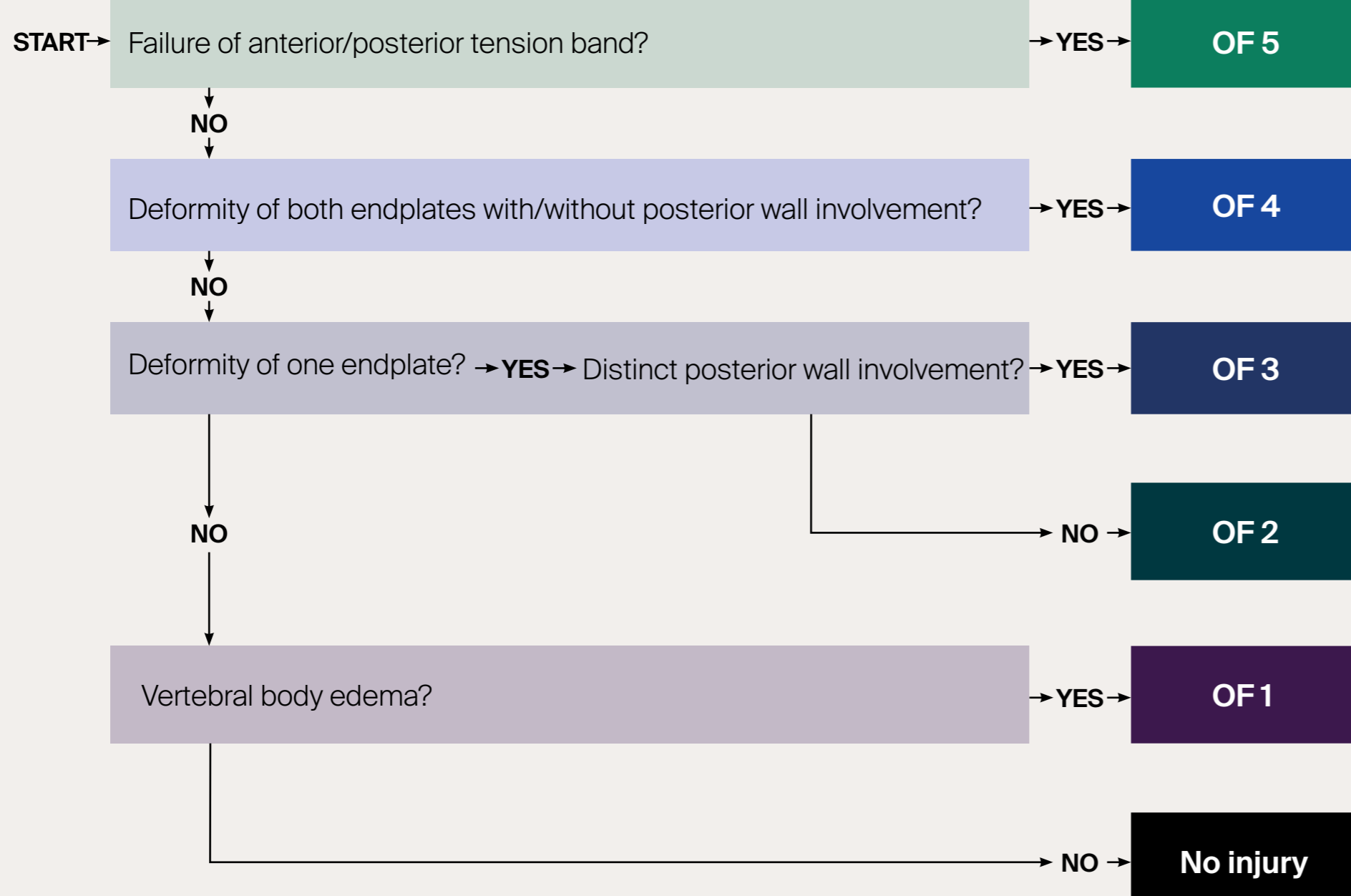
OF 5

Injuries with anterior or posterior tension band failure

- Injuries with signs of distraction, rotation, or translation
- Hyperextension with anterior tension band failure



Algorithm for morphologic classification



Modified score for therapeutic decision making in OF*

Parameter	Grade	Points
Morphology (OF 1-5)	1-5	2-10
Severity of Osteoporosis	T-Score < -3 or qCT: HU ≤ 90	1
Deformity Progression	Yes, No	1, -1
Pain (under analgesia)**	VAS ≥ 5, < 5	1, -1
Neurological Symptoms (N2-N4)	Yes	2
Mobilisation (under analgesia)	No, Yes	1, -1
Health Status	ASA > 3, ***mFI > 2, Anticoagulation	Each -1, Maximum -2

0 points if a parameter is unknown or not determinable;

0–5 points = Conservative therapy;

6 points = Conservative therapy or surgery;

> 6 points = Surgery.

* The severity score system has not been validated yet and should be used as a reference only.

** According to step II WHO pain ladder.

*** 5-item modified frailty index (mFI) = COPD, or recent pneumonia; Congestive heart failure; Functional status (not independent); Hypertension requiring medication; Diabetes mellitus.