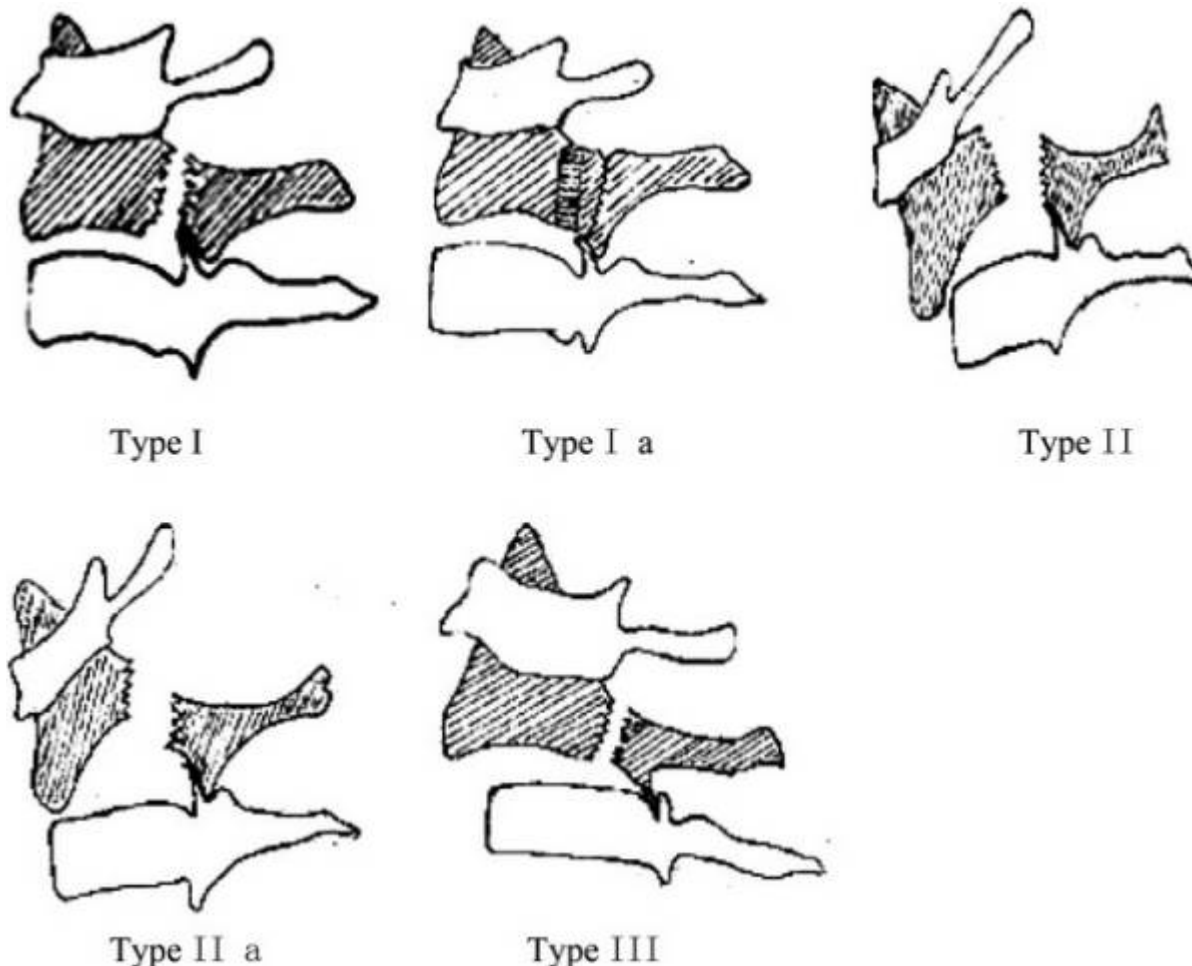


## Levine and Edwards classification

Levine and Edwards classification is used to classify [Hangman's fracture](#) of C2 (also known as traumatic spondylololthesis of [axis](#)).

### Classification



Levine Classification: (does not apply to children);

[Levine and Edwards type 1](#)

[Levine and Edwards type 2](#)

Type III: Includes all characteristics of type II frx as well as bilateral interfacetal dislocation; may require open reduction of facet dislocation halo immobilization for the pedicle injury; type III has angulation, translation, and also unilateral or bilateral facet dislocation at C2-3.

- Non Operative Rx: Halovest

Pts w/ Hangman's fx should not be placed in cervical traction if mechanism of injury involves extension or distraction;

Children: traction should generally be avoided; reduction is obtained w/ gentle extension; some residual displacement may be accepted; need to immobilize in halo for 6-8 weeks;

Surgical Treatment: ORIF may be necessary to obtain and maintain reduction; internal fixation techniques include posterior oblique wiring, which resists rotational forces, & screw fixation of C-2 posterior elements to the C-2 body.

This latter technique depends on integrity of C-2 & C-3 capsules and ligaments, which is usually the case.

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Last update: **2025/03/29 23:20**

