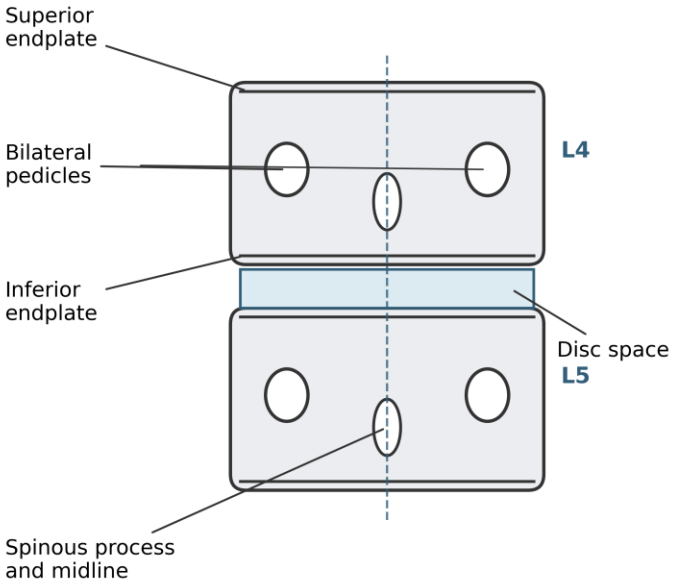
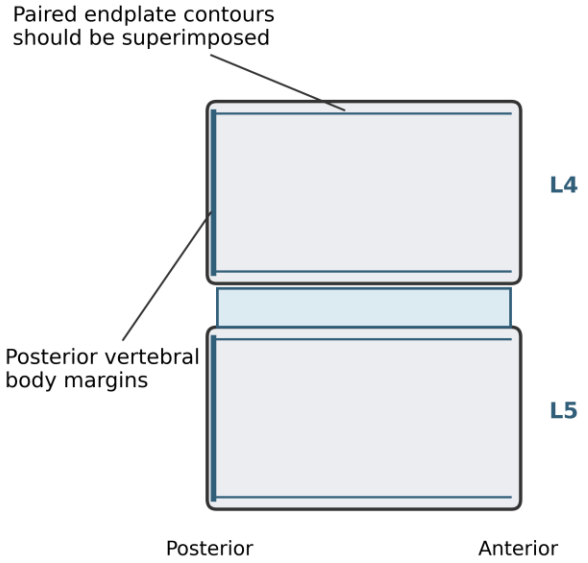
Revised Figure 4

A AP anatomical landmarks



Assess pedicle symmetry and segmental rotation.
Interpret landmarks in the context of deformity.

B Lateral alignment



Confirm a level-specific orthogonal projection.
The disc plane defines instrument orientation.

C Reconfirm orientation

Before incision

Confirm level numbering and AP/lateral views.

After a change

Recheck after patient, table, beam or retractor movement.

If views disagree

Pause, identify the cause and restore orientation.

Conceptual schematic only. Not a patient image or a validated safe-zone map.