

Lumbar spine positioning

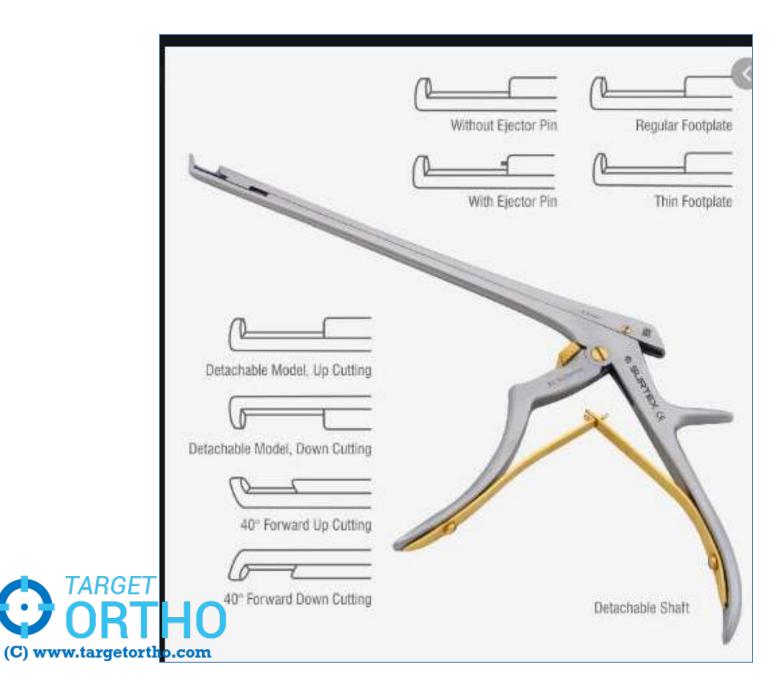




Kerrison Rongeur/ Kerrison punch Upcutter







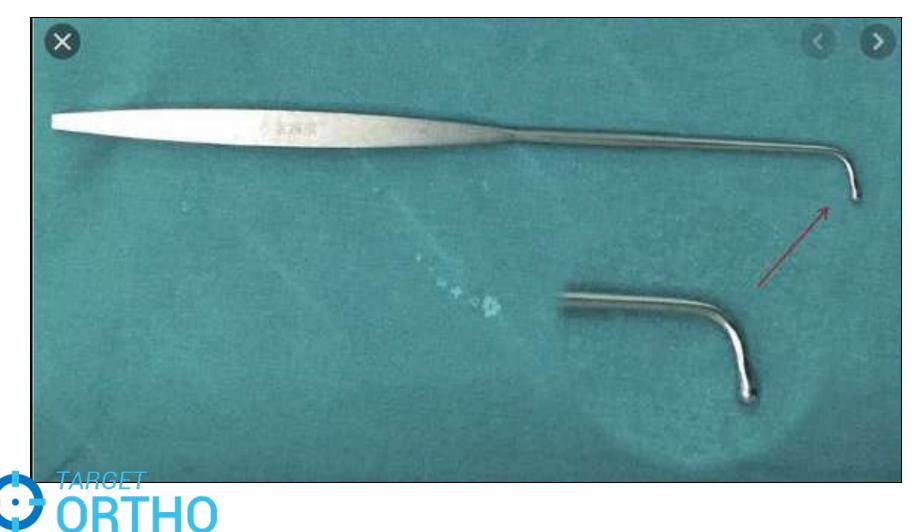
 \bigcirc

Disc forceps/ disc punch





Nerve root probe



Penfield disscetor





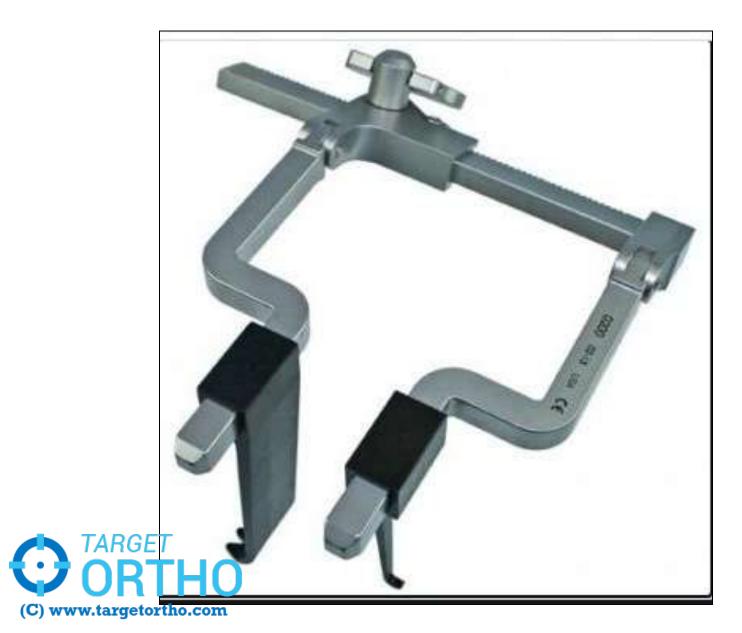
Love nerve root retractor



McCullouch retractor Ramanis Retractor



(C)

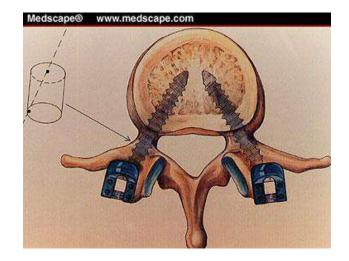


Williams retractor for microdiscectomy





Pedicle screw

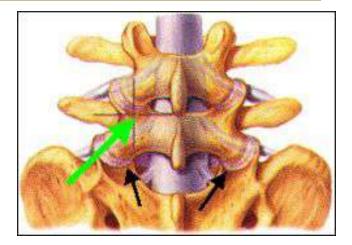


(C) www.targetortho.com

•To hold the vertebral body through the pedicle

•Purchase of the screw is maximum in the pedicle rather than in the vertebral body ORTHO

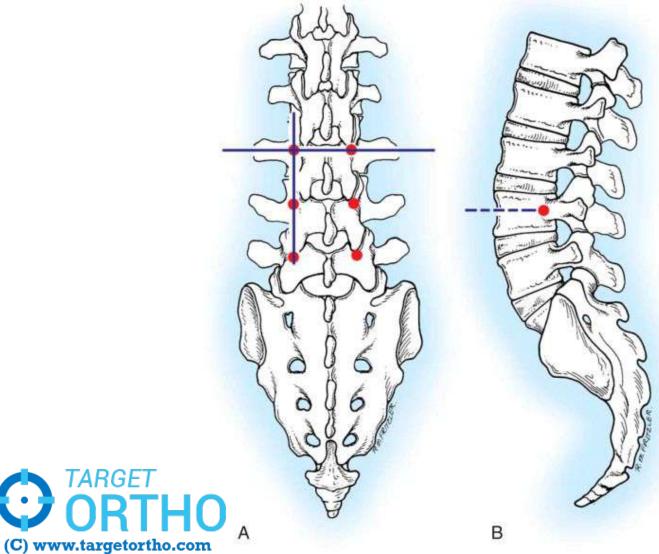
Entry point identification



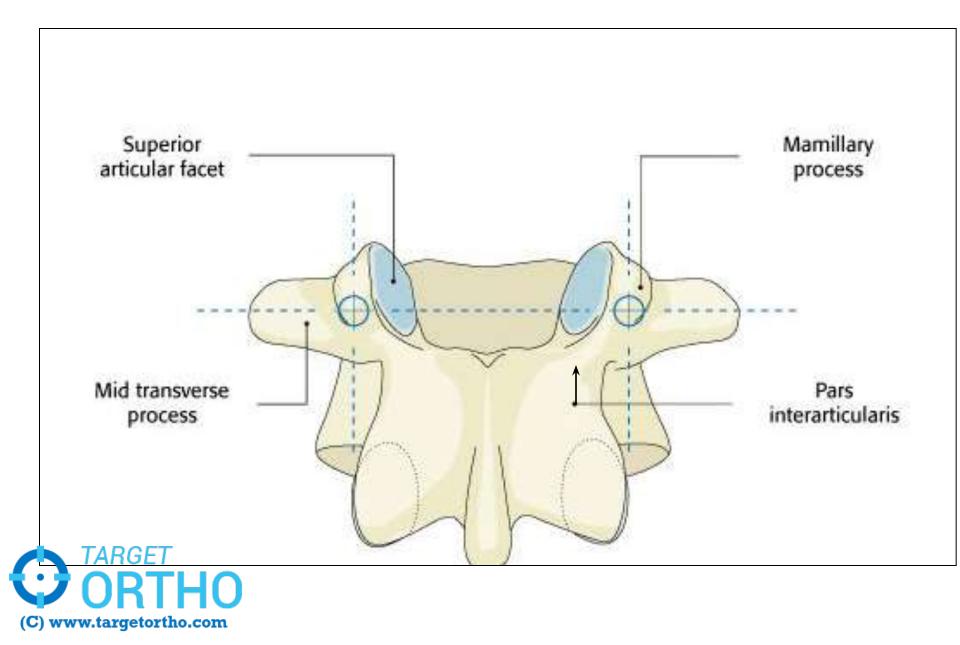
- Intersection technique
- Pars interarticularis technique.
- Mammillary process technique.

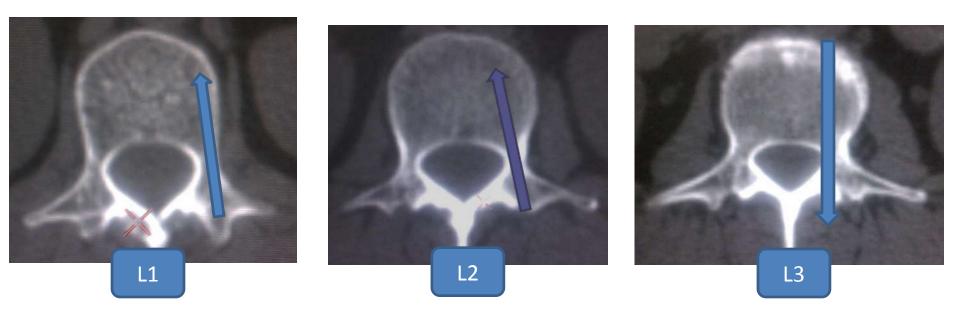


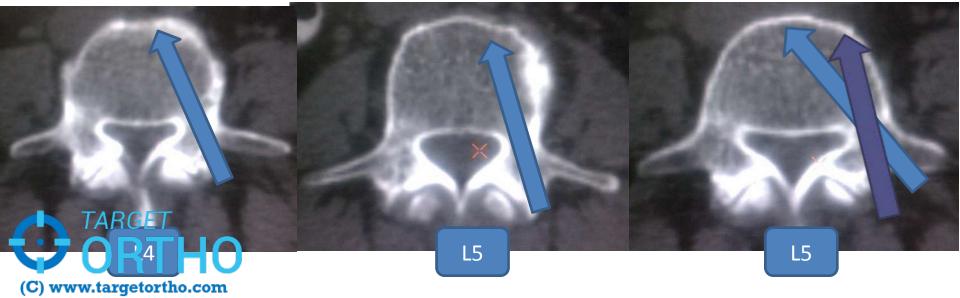
Intersection technique

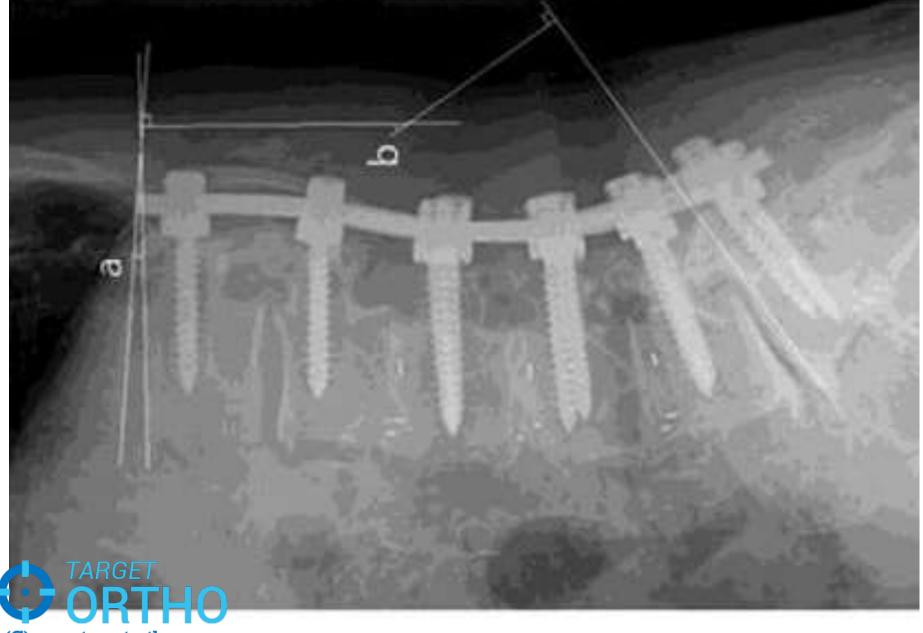


TARGET













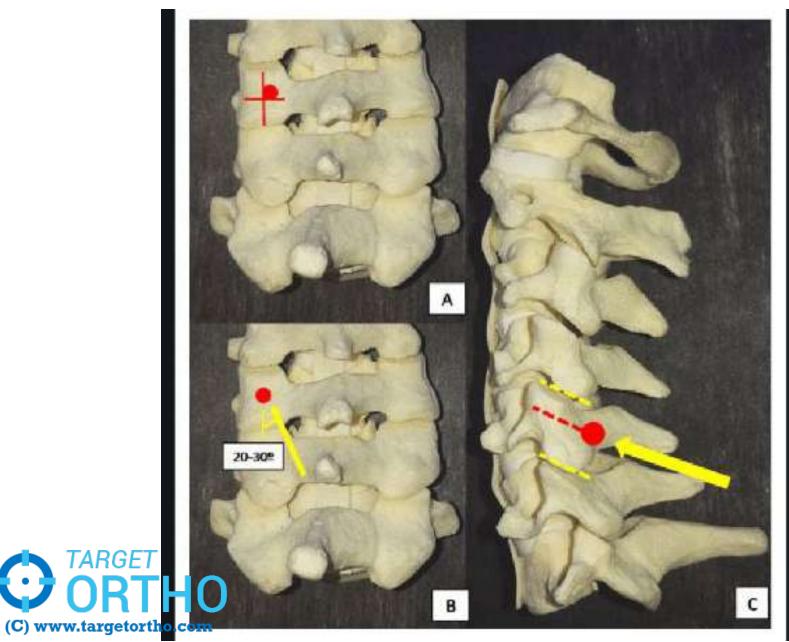
Reduction screws

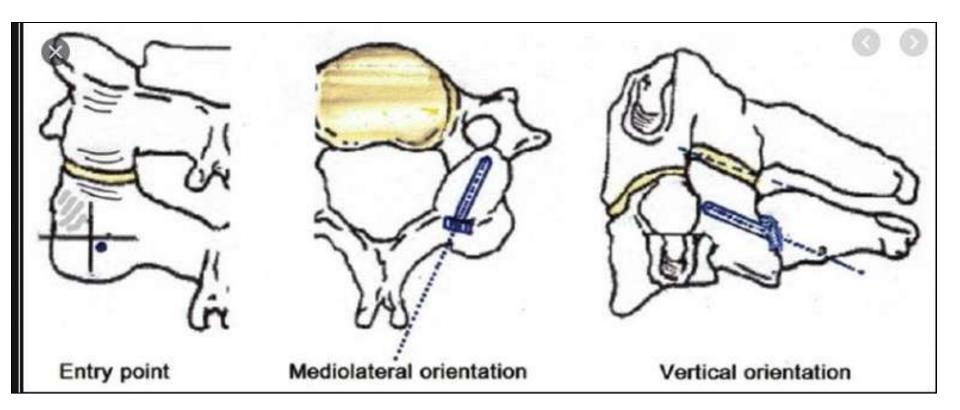


Reduction screws



Cervical lateral mass screws

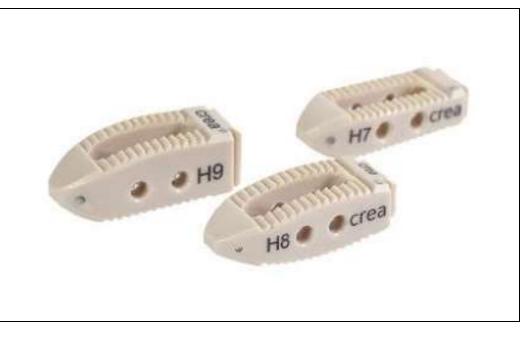




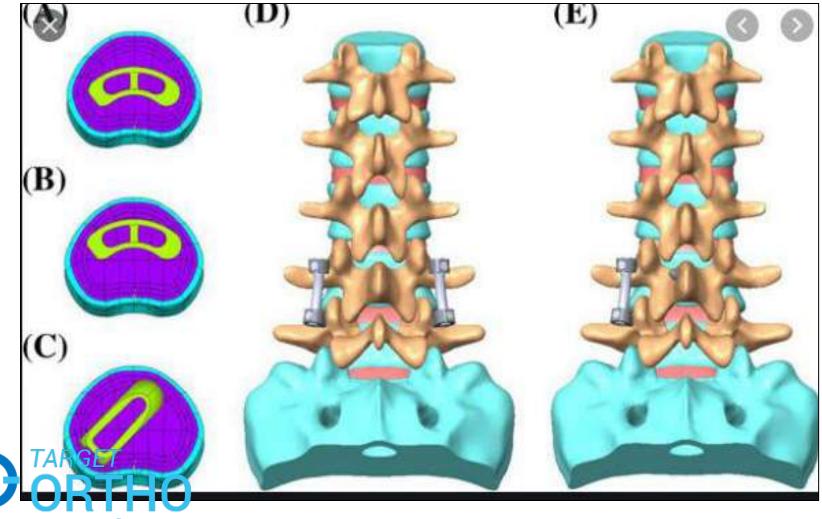




Inter body Cage









Harms cage

