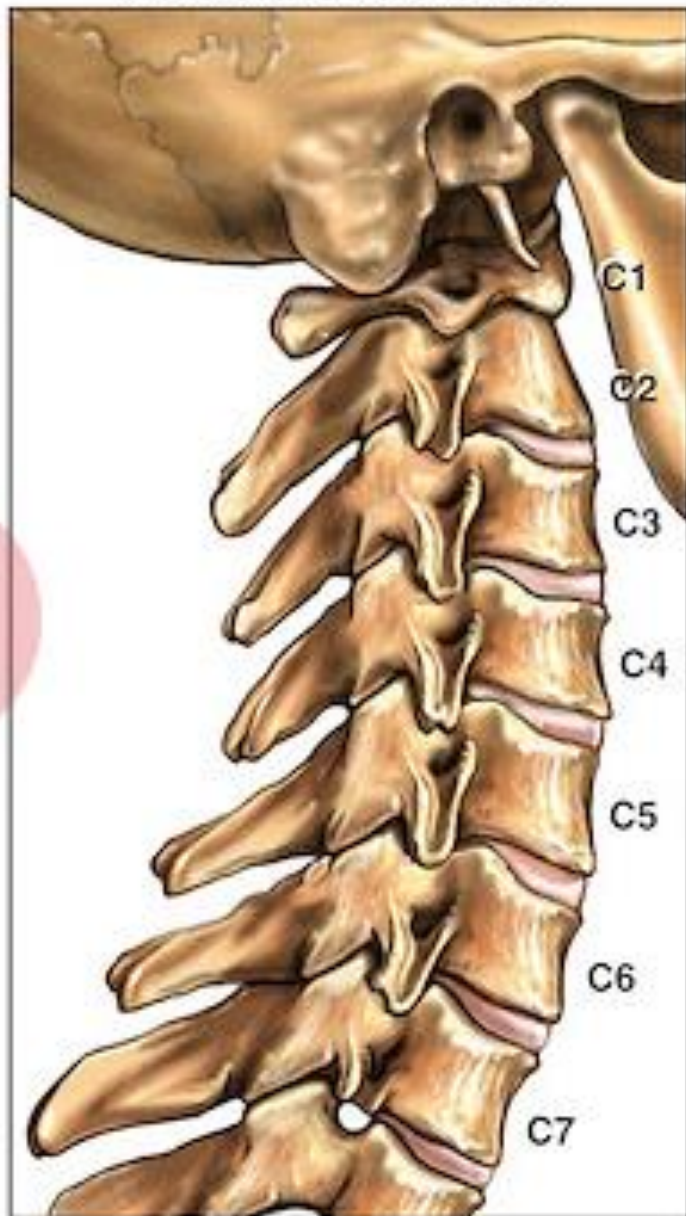




Spinal instrumentation

CERVICAL VERTEBRAE

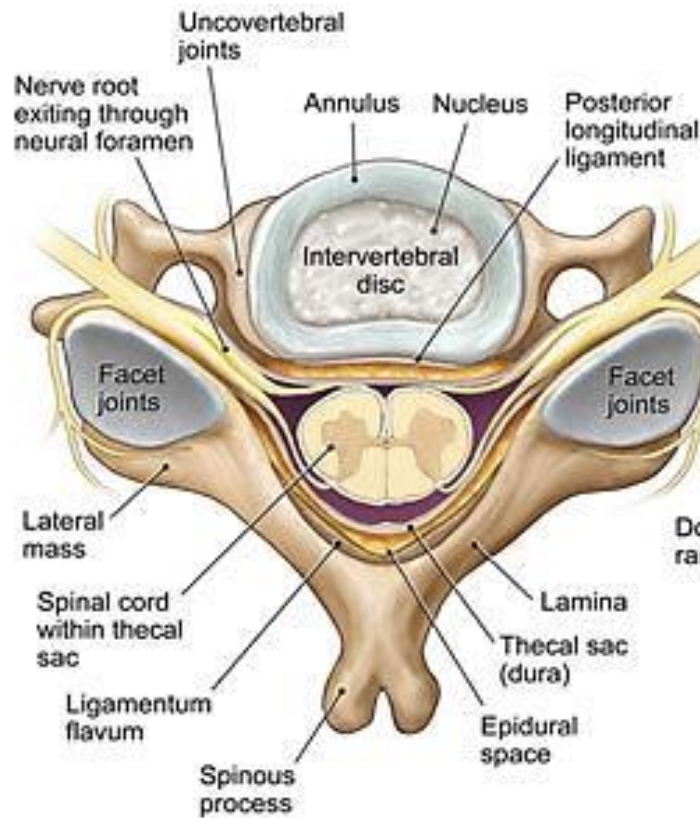


LATERAL VIEW OF CERVICAL SPINE

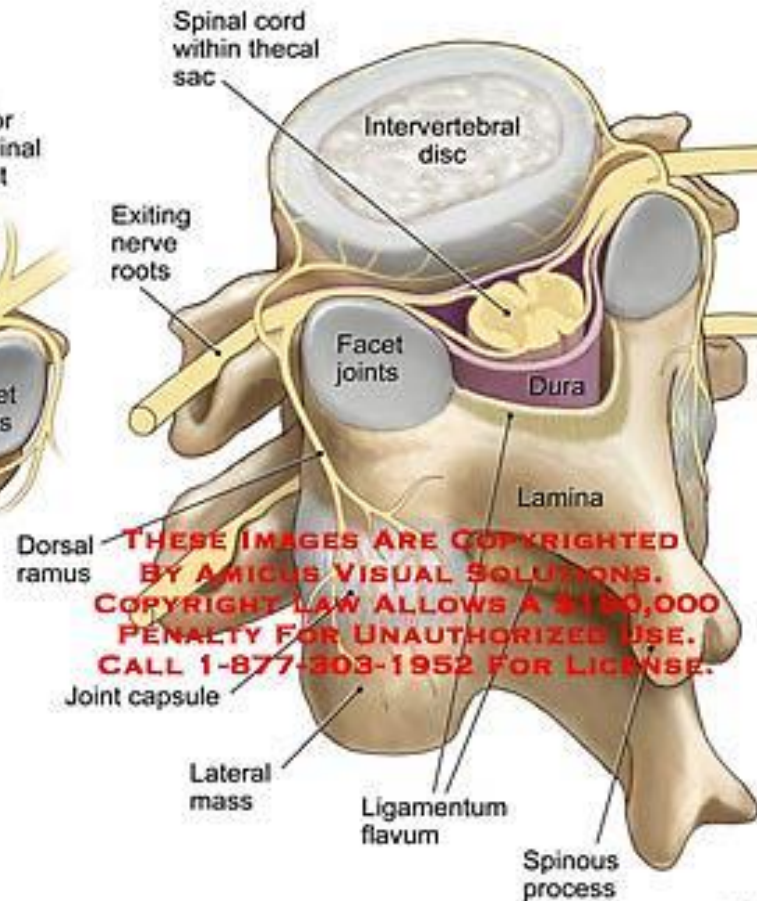


Anatomy of the Cervical Vertebrae

Axial View From Above

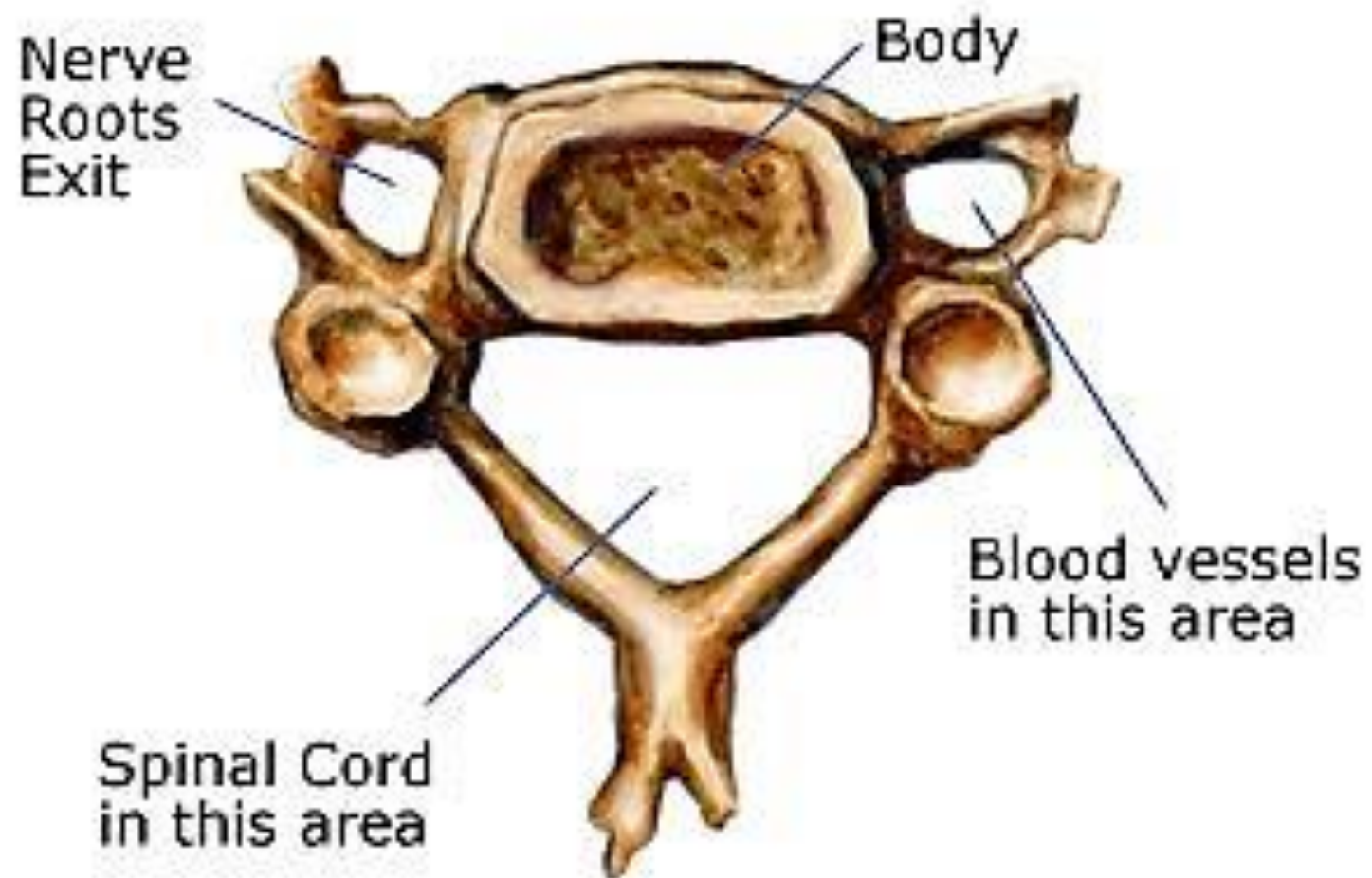


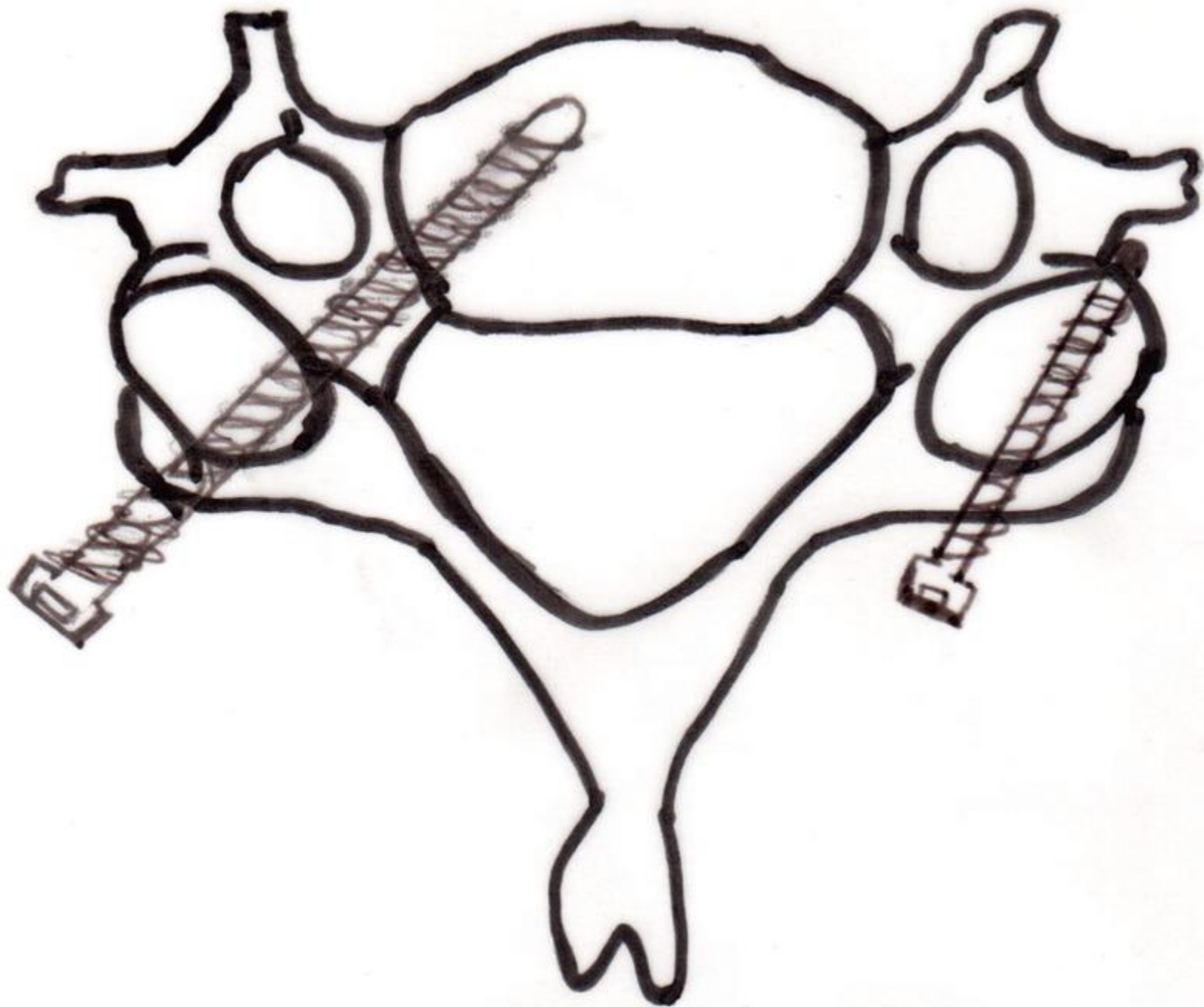
Oblique View from Posterior Left Side



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C4 Vertebra (from above)







Poly



Mono



Reduction Poly

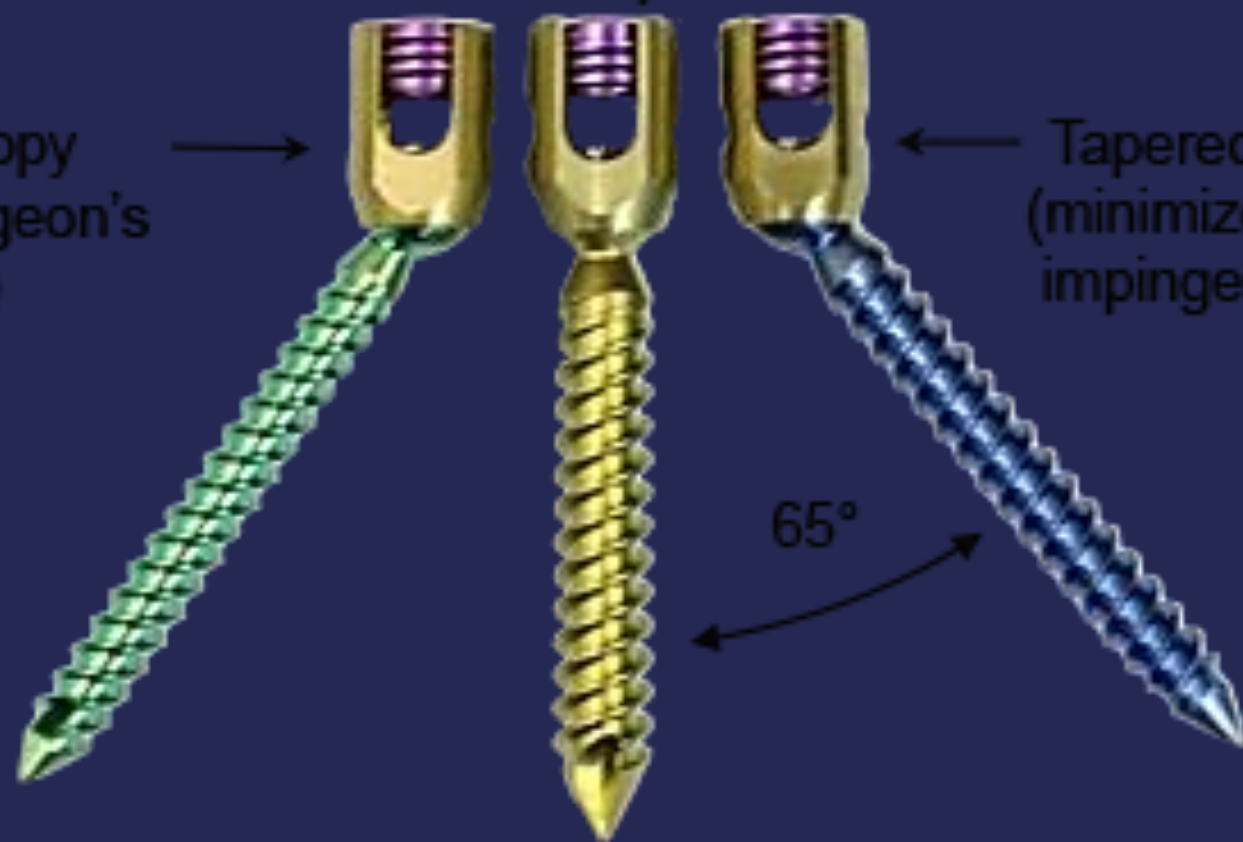


Reduction Mono

Universal size & color
Tulip

Tulip not floppy
(minimizes surgeon's
frustration)

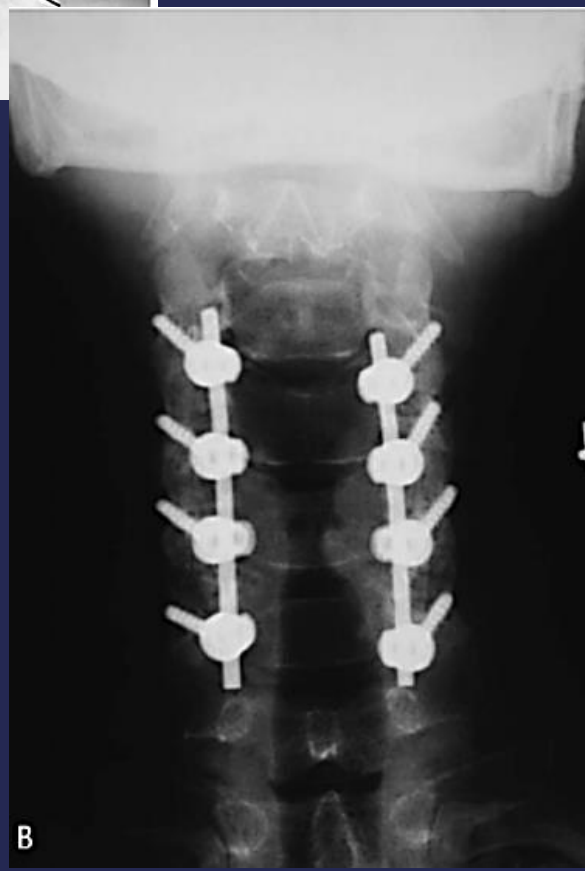
Tapered tulip
(minimizes facet
impingement)

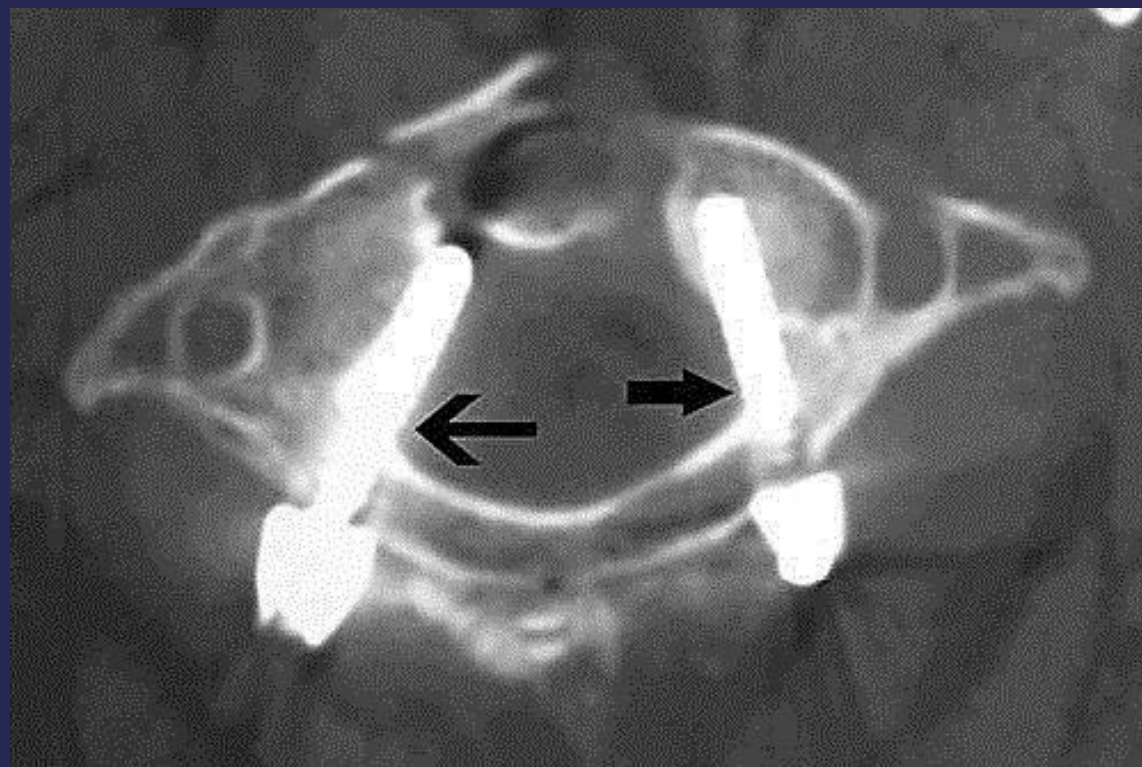


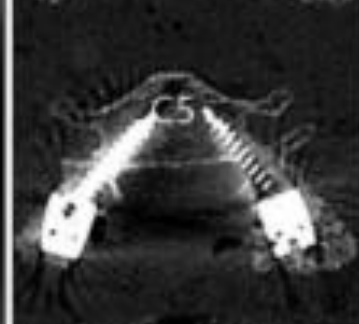
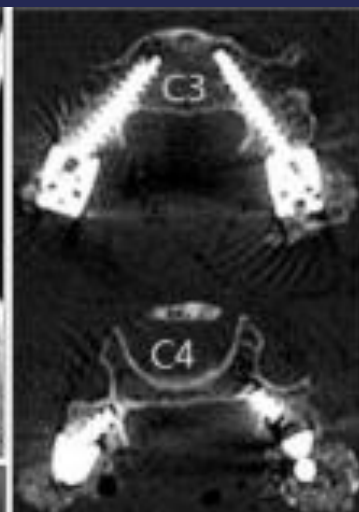
65°

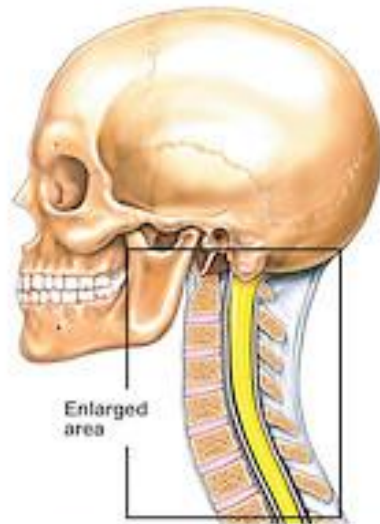








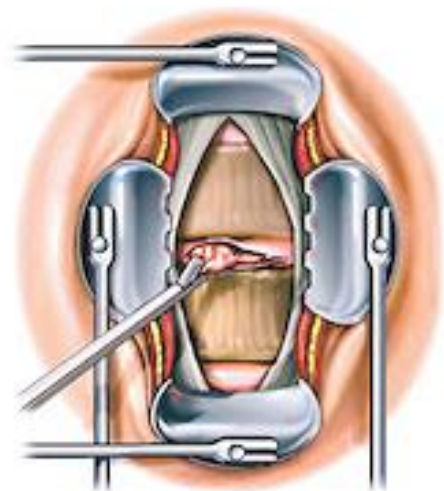




A. An incision is made over the involved vertebral level.

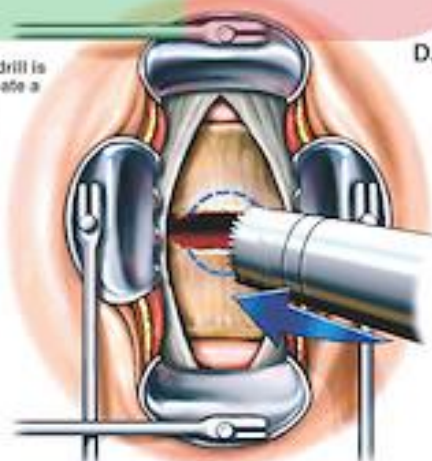


B. The disc material is removed and the neural elements are decompressed.

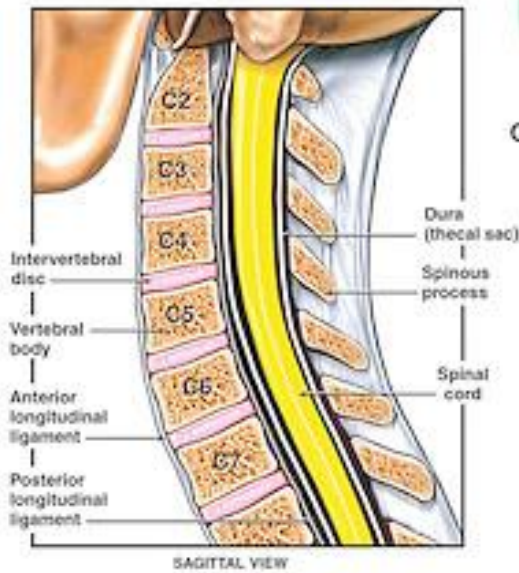
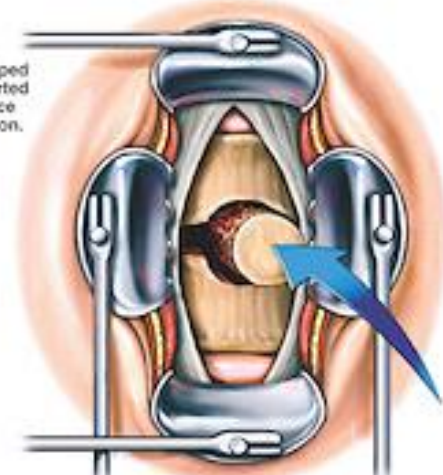


Doctor Stock

C. A Cloward drill is used to create a hole in the endplates.



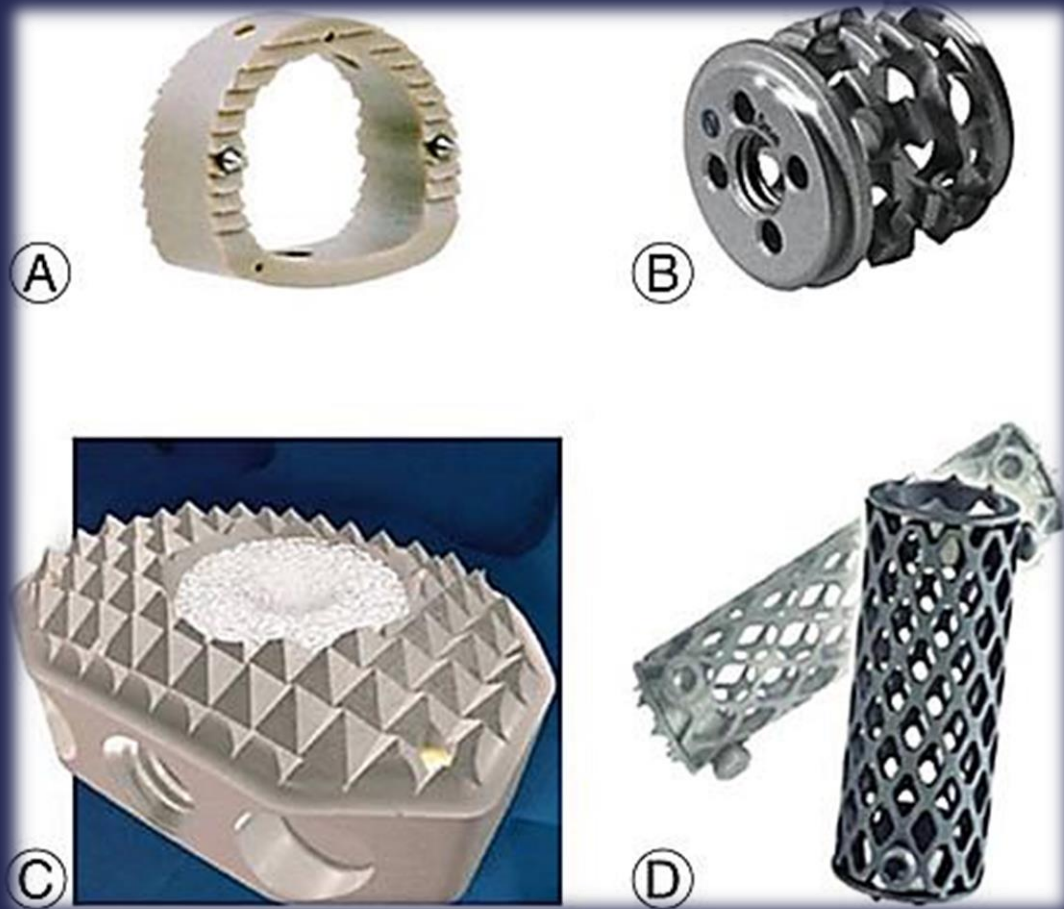
D. A dowel shaped graft is inserted into the space for final fusion.





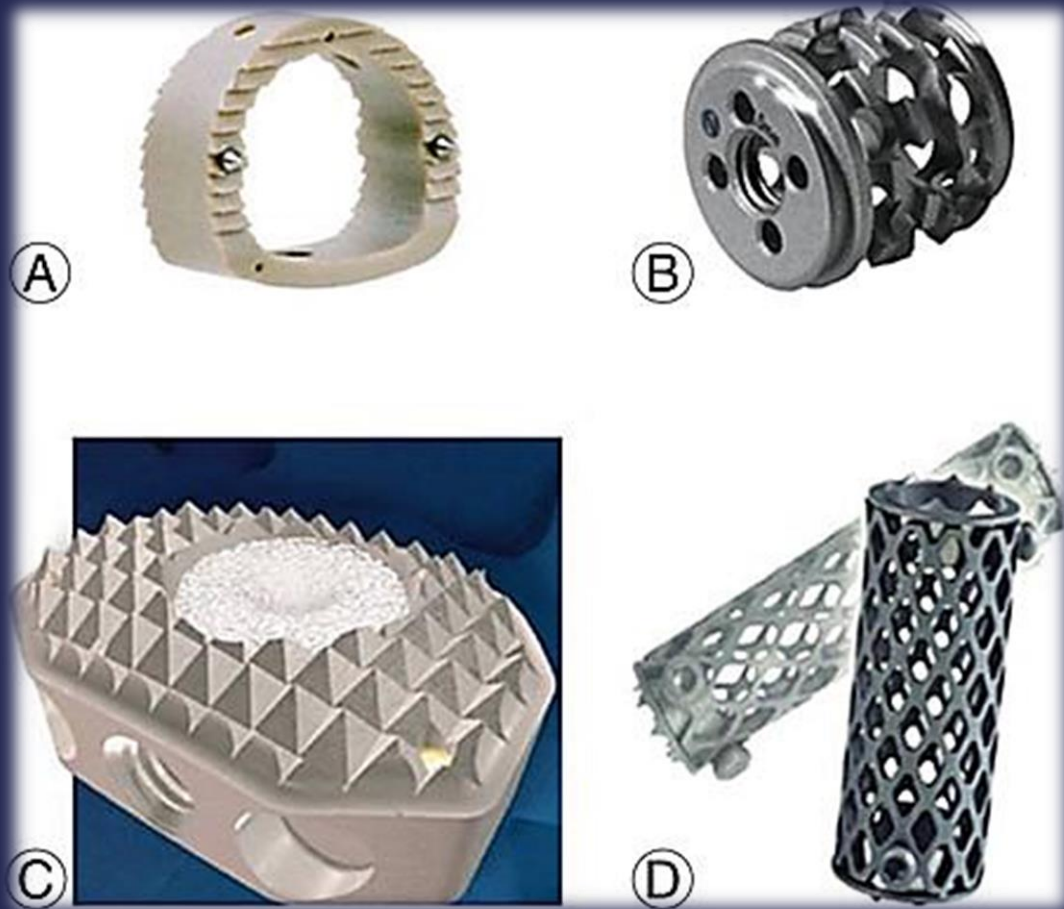
Cages

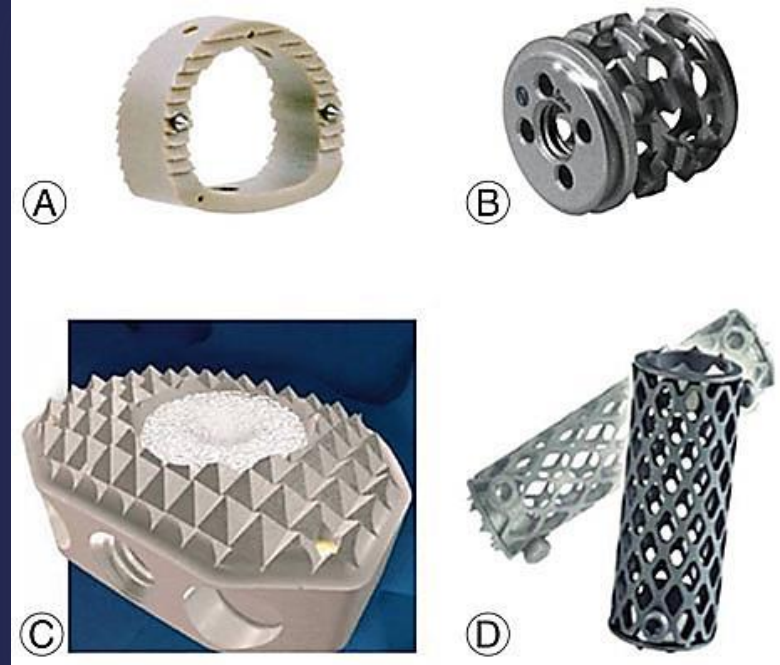
- Polyetheretherketone (*PEEK*) cages
- *Mesh cages*
- *Expandable cages*



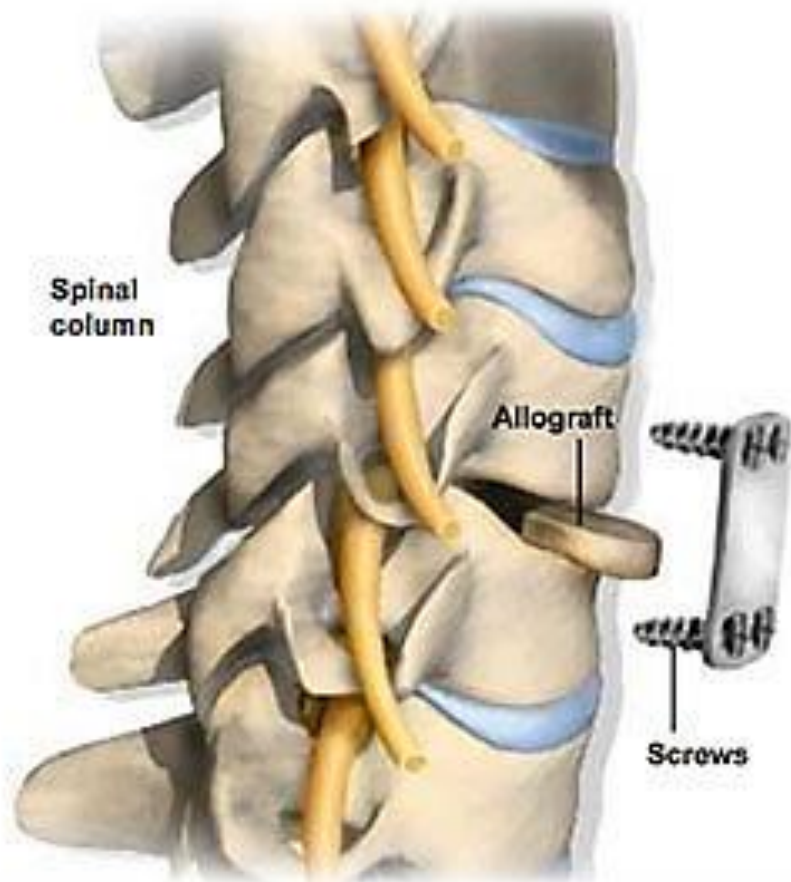
Cages

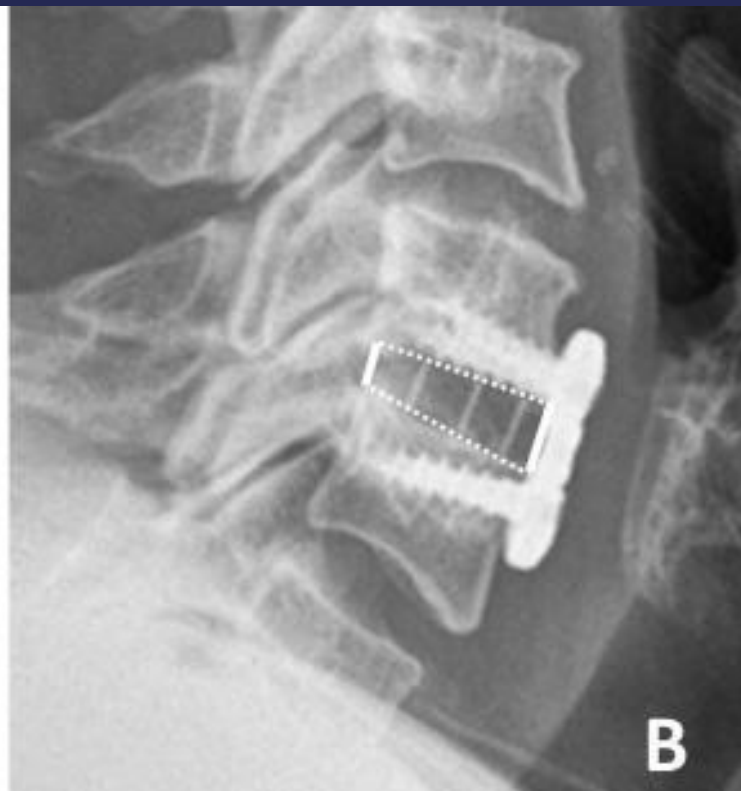
- **Polyetheretherketone (PEEK) cages**
- *Mesh cages*
- *Expandable cages*







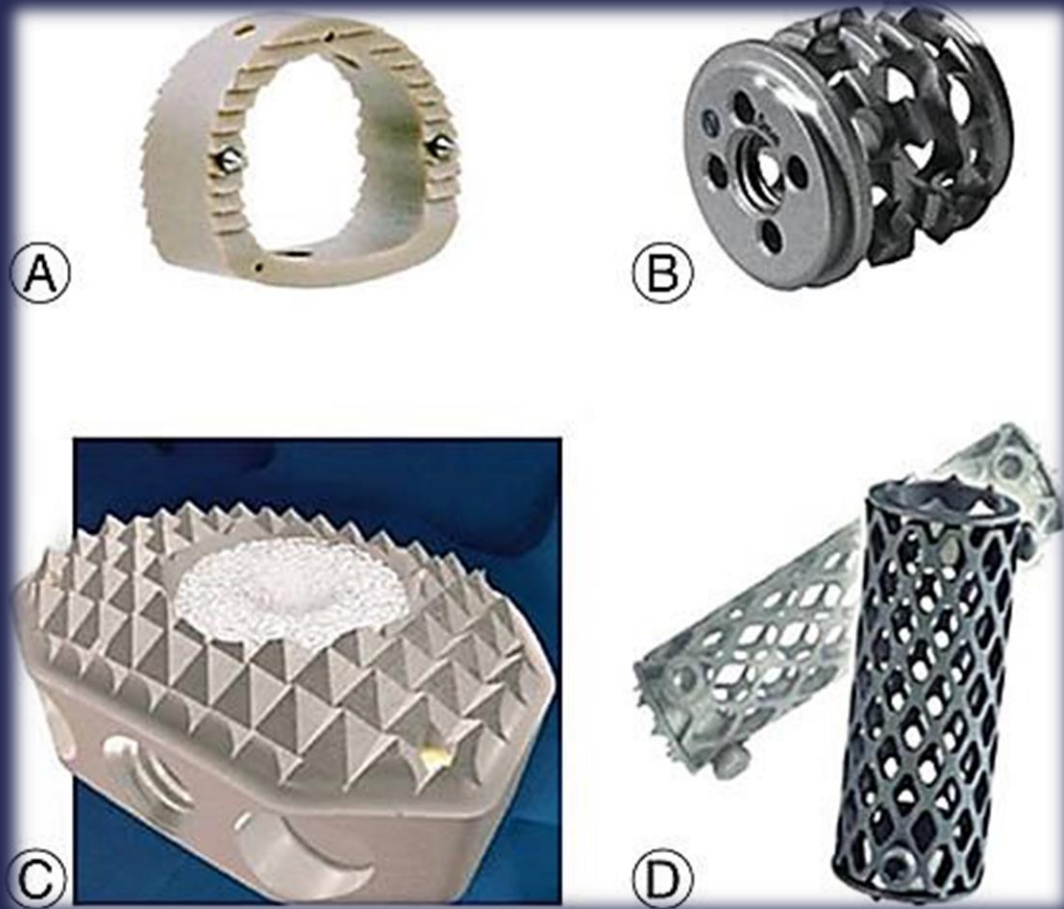


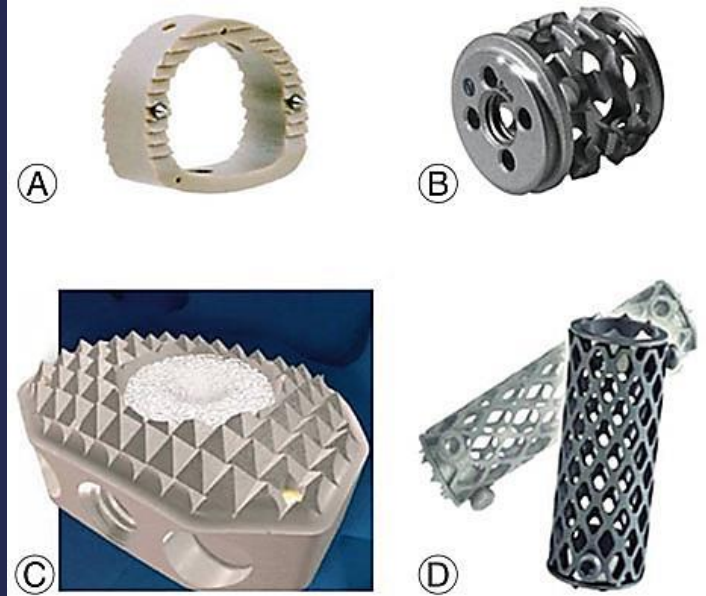




Cages

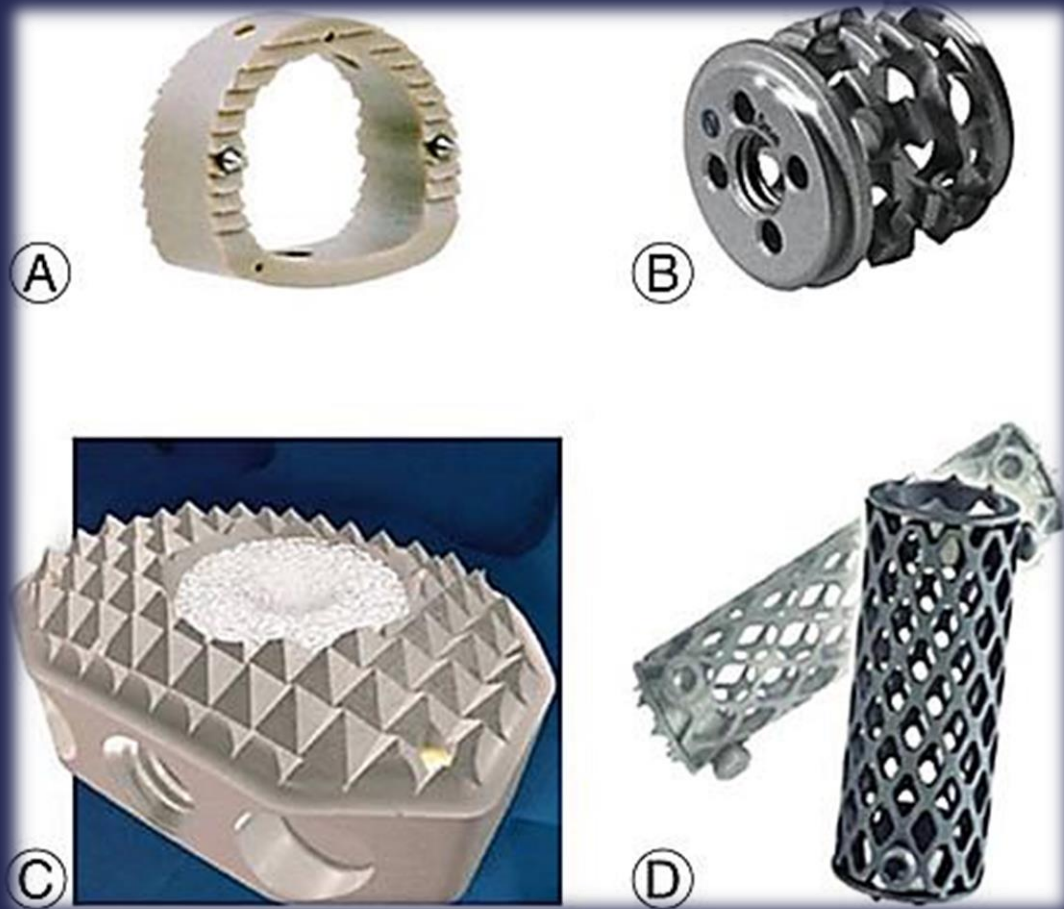
- Polyetheretherketone (*PEEK*) cages
- *Mesh cages*
- *Expandable cages*





Cages

- Polyetheretherketone (*PEEK*) cages
- *Mesh cages*
- ***Expandable cages***







(A)



(B)



(C)



(D)





Poly



Mono



Reduction Poly

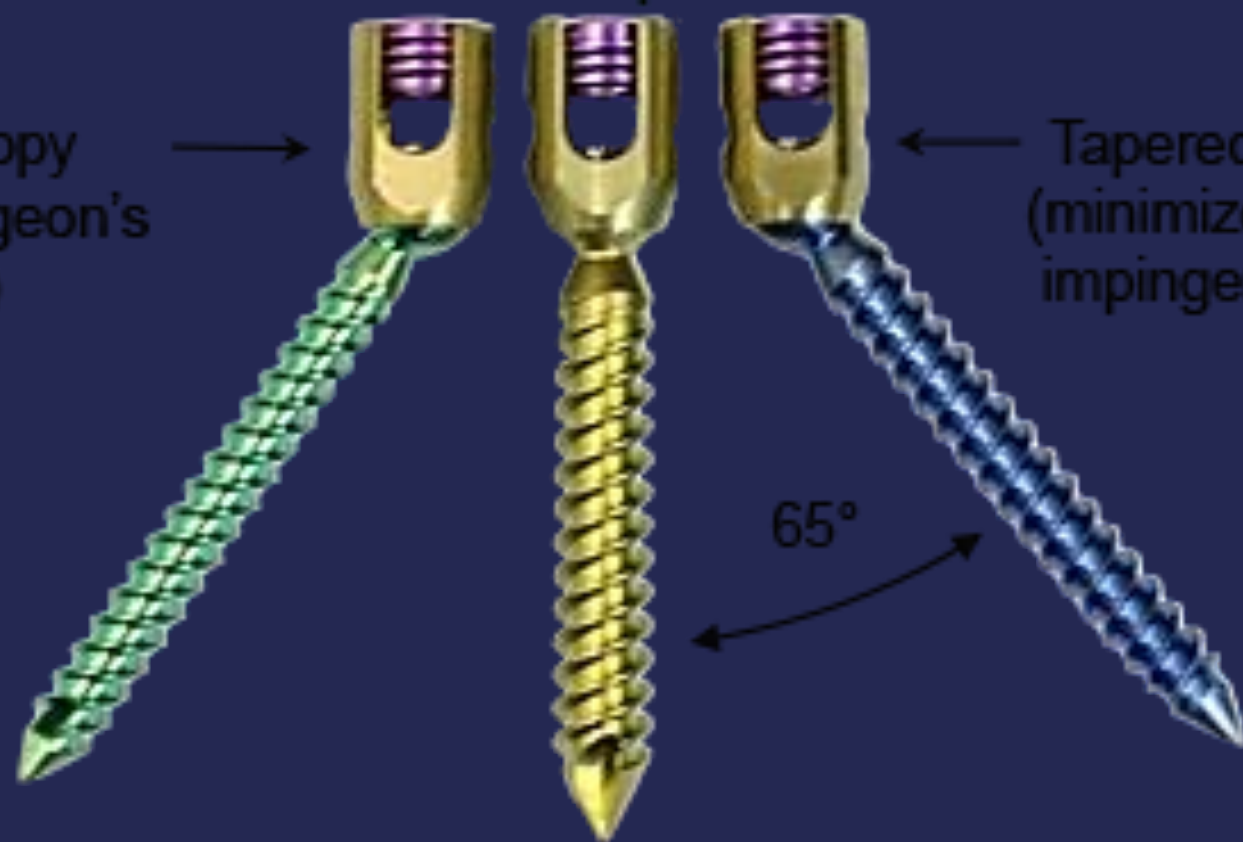


Reduction Mono

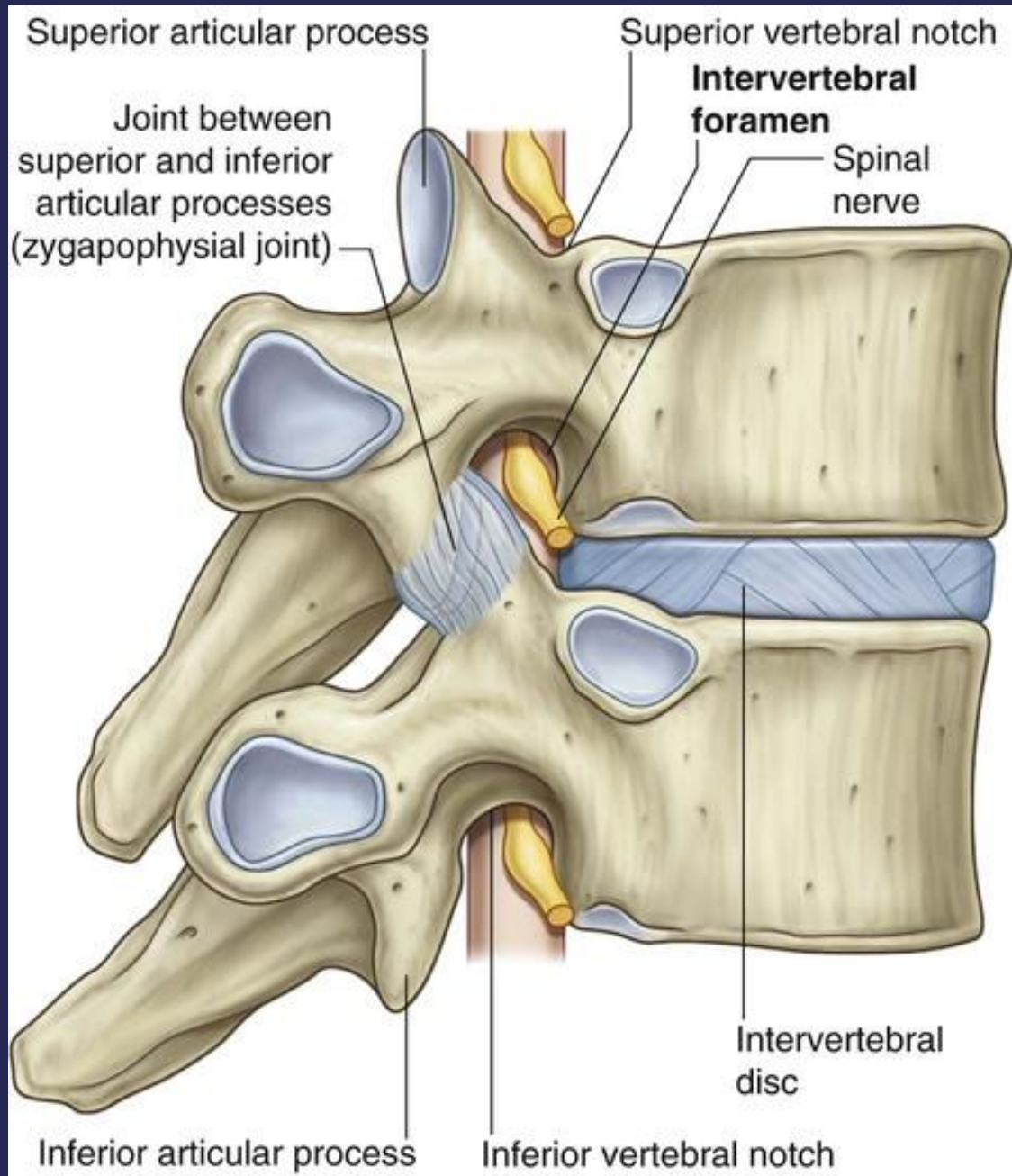
Universal size & color
Tulip

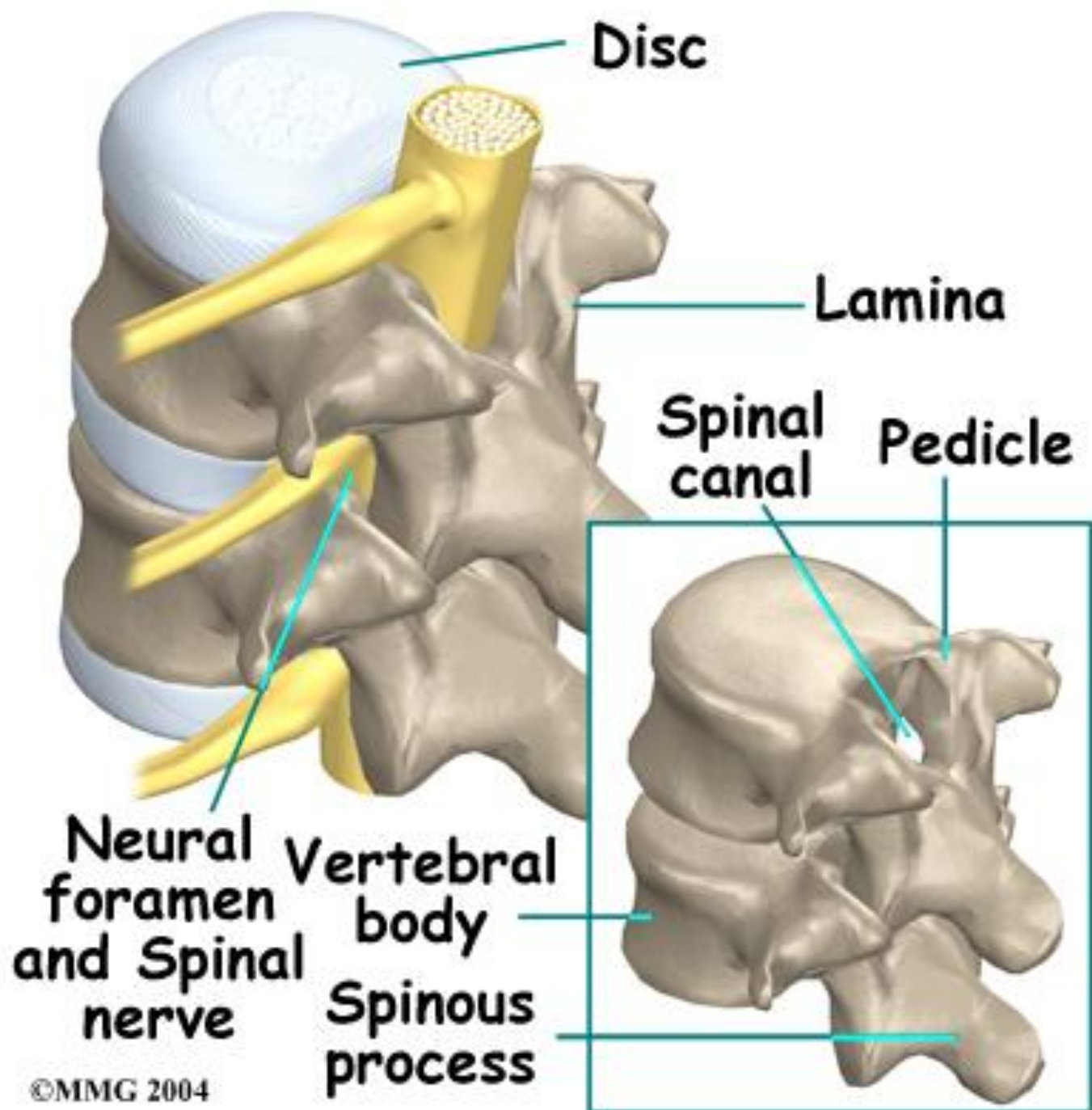
Tulip not floppy
(minimizes surgeon's
frustration)

Tapered tulip
(minimizes facet
impingement)



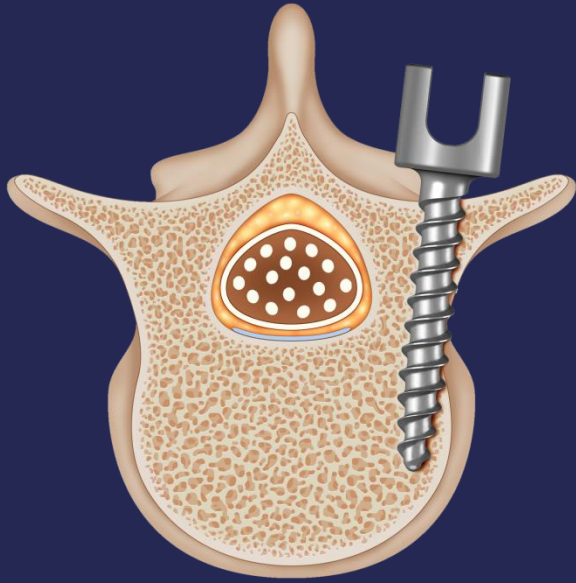
65°



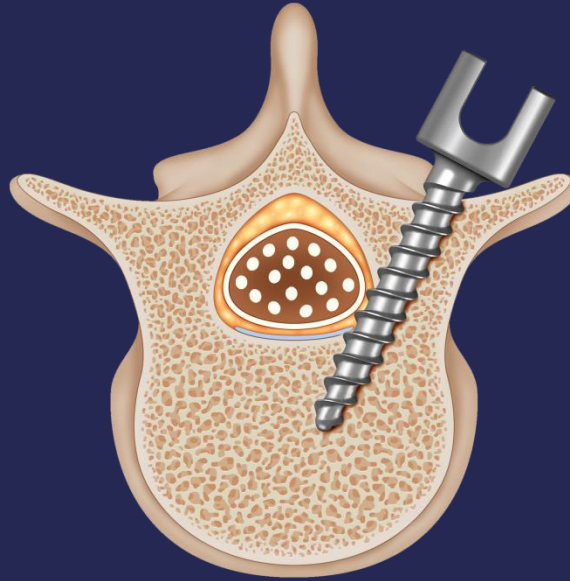




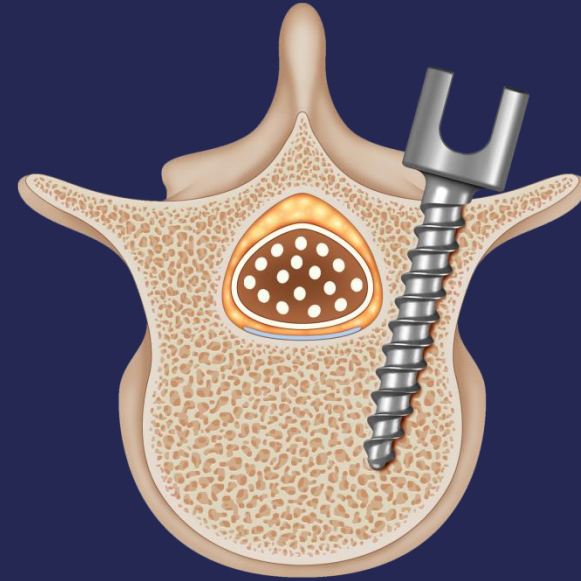
OsteoVantage



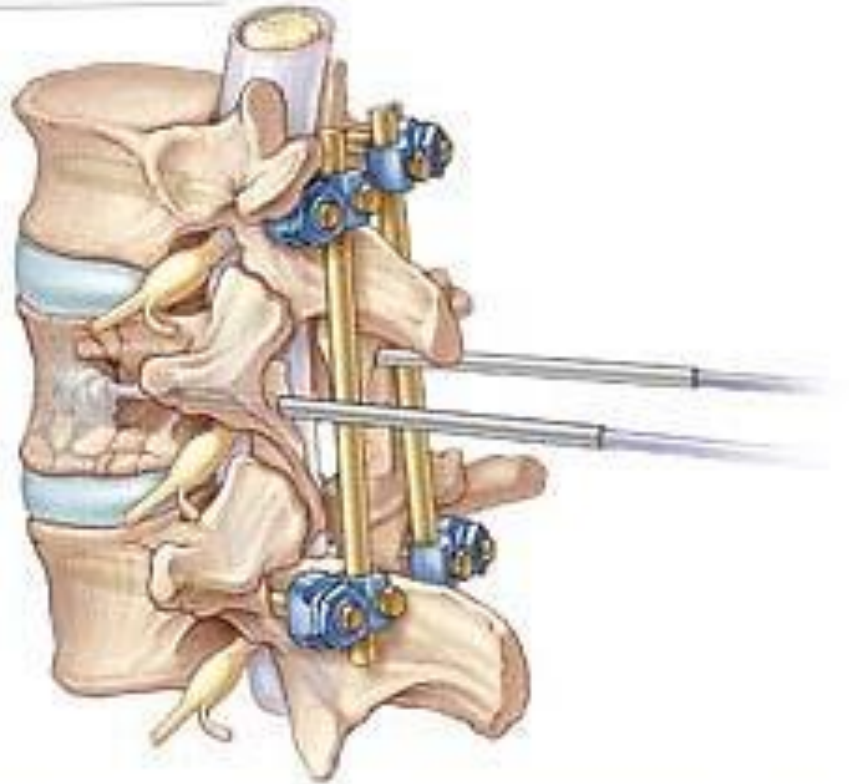
Lateral Breach



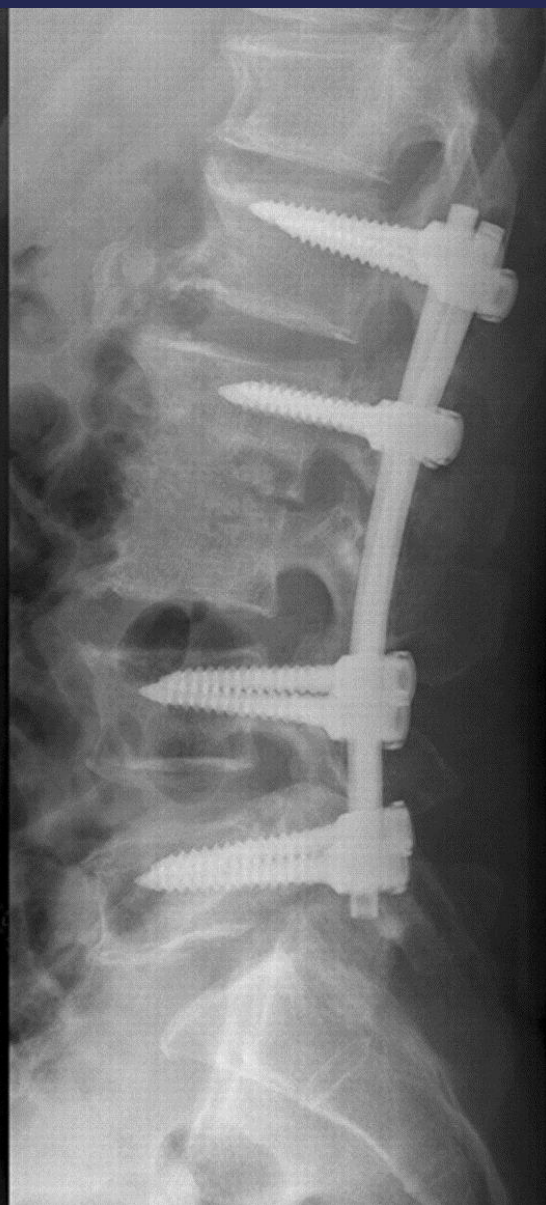
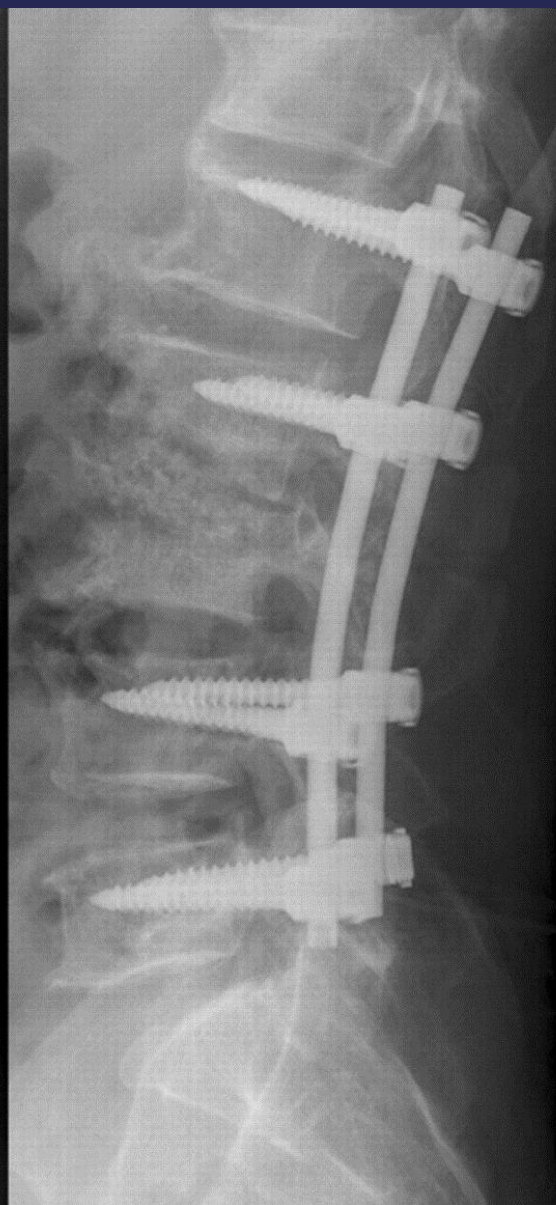
Medial Breach



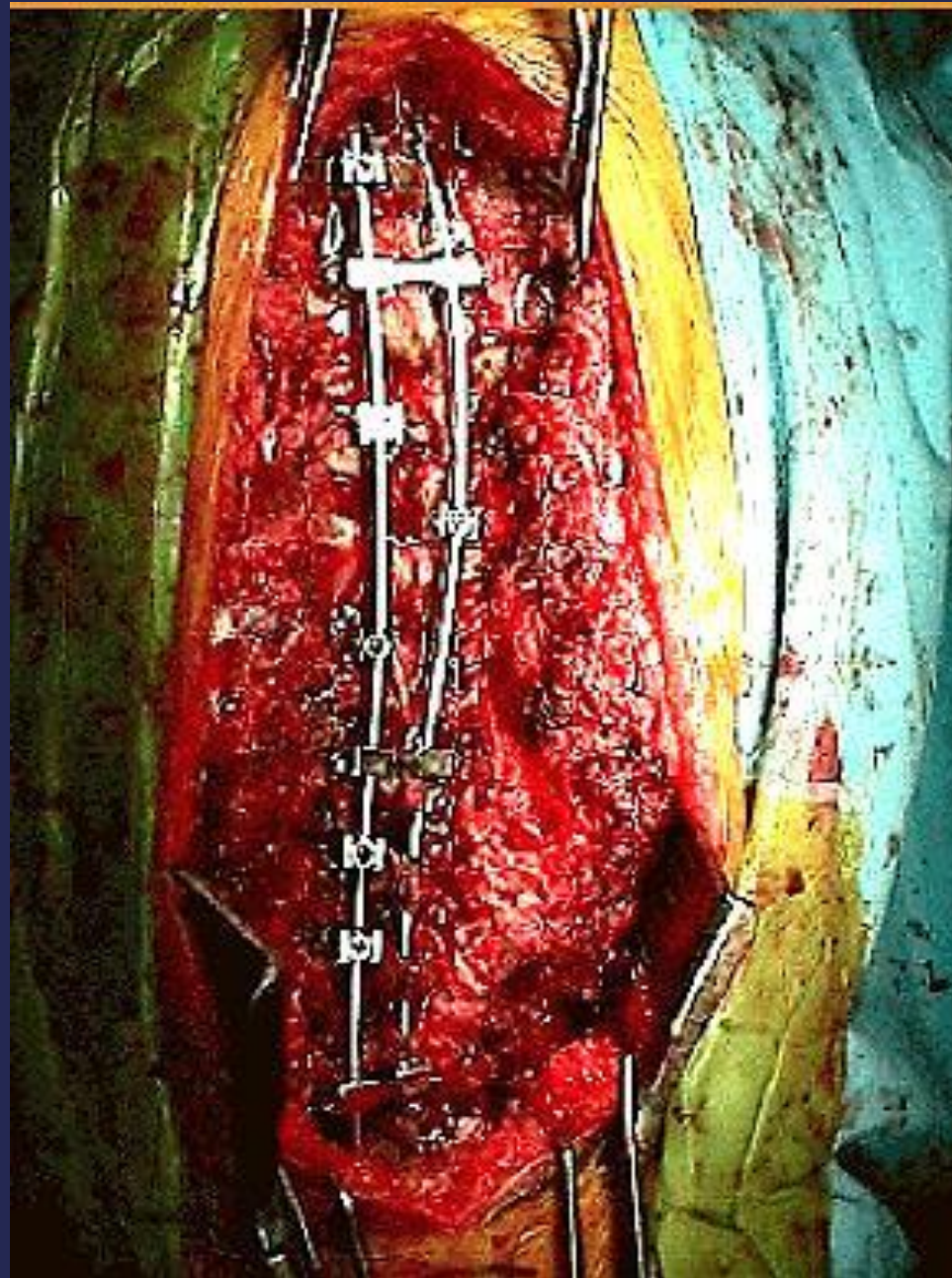
Accurate Placement

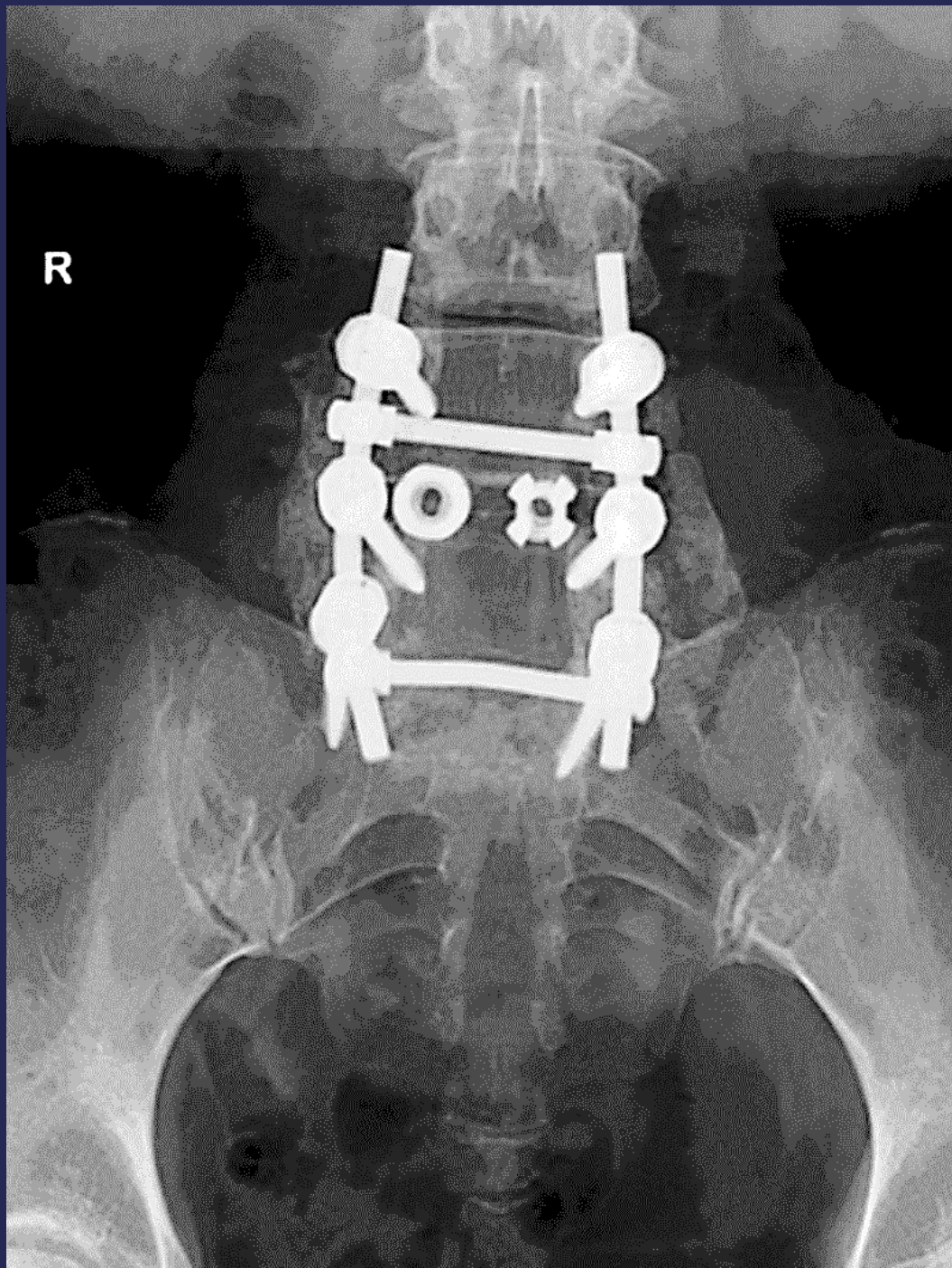












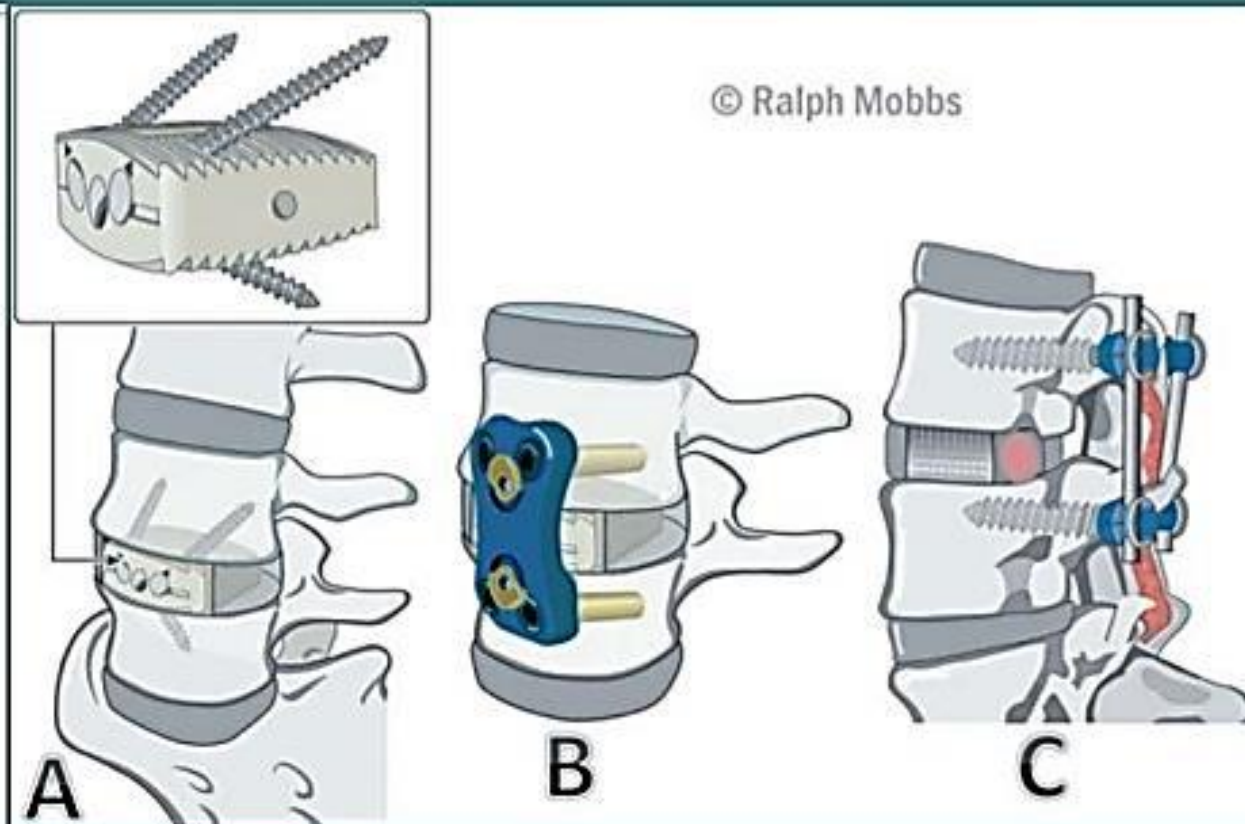
Various Forms of Spinal Instrumentation

figure 1



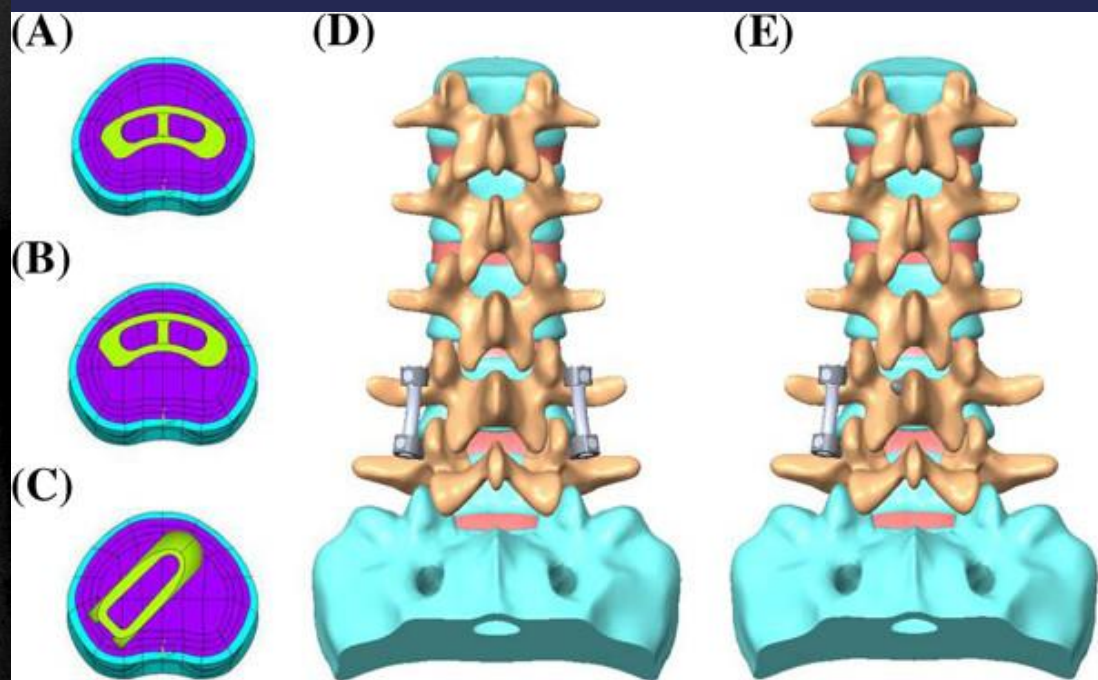
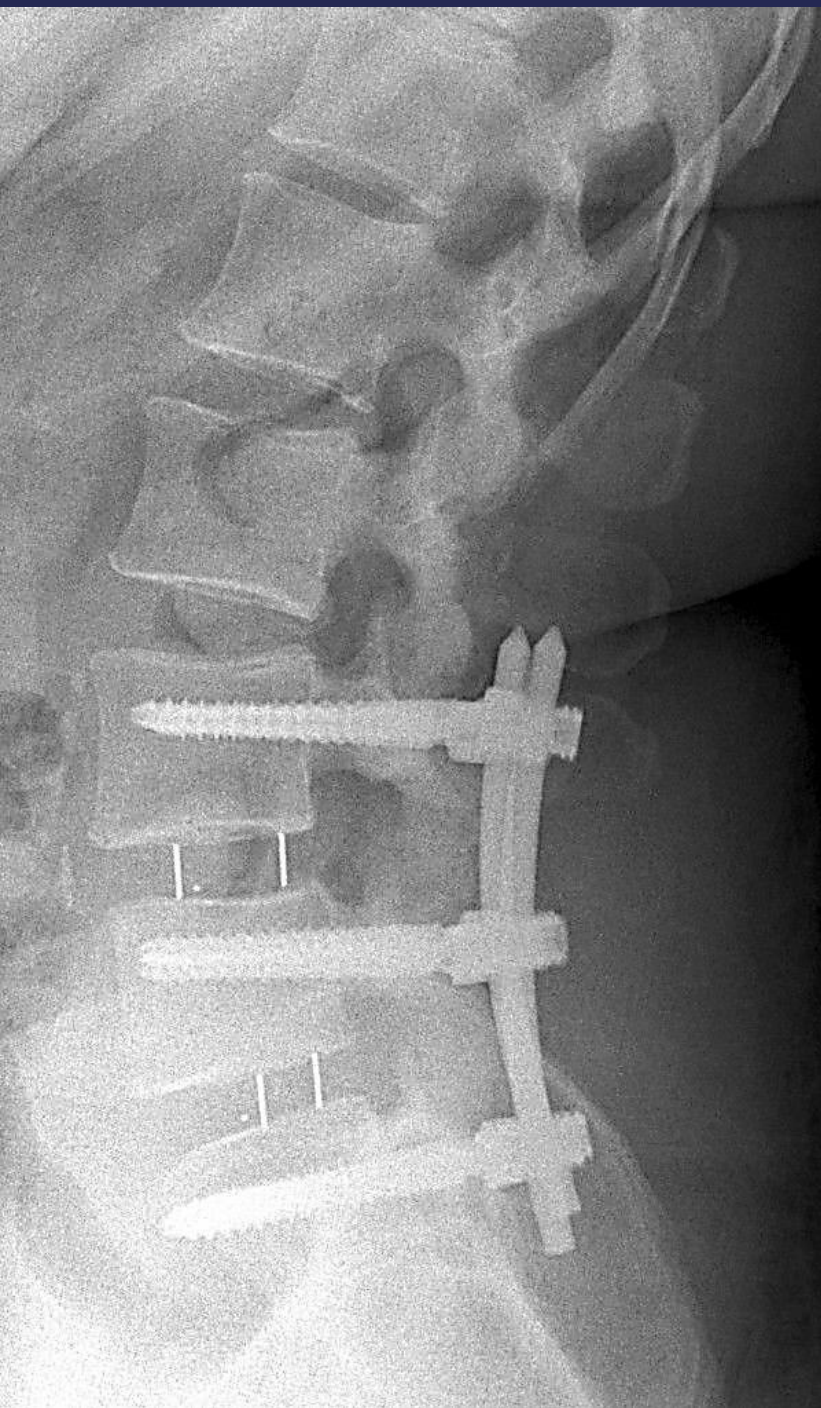
- A. Plate and screws in the front of the neck.
- B. Rods and screws in the back of the neck.
- C. Cage and screws in the lower back.

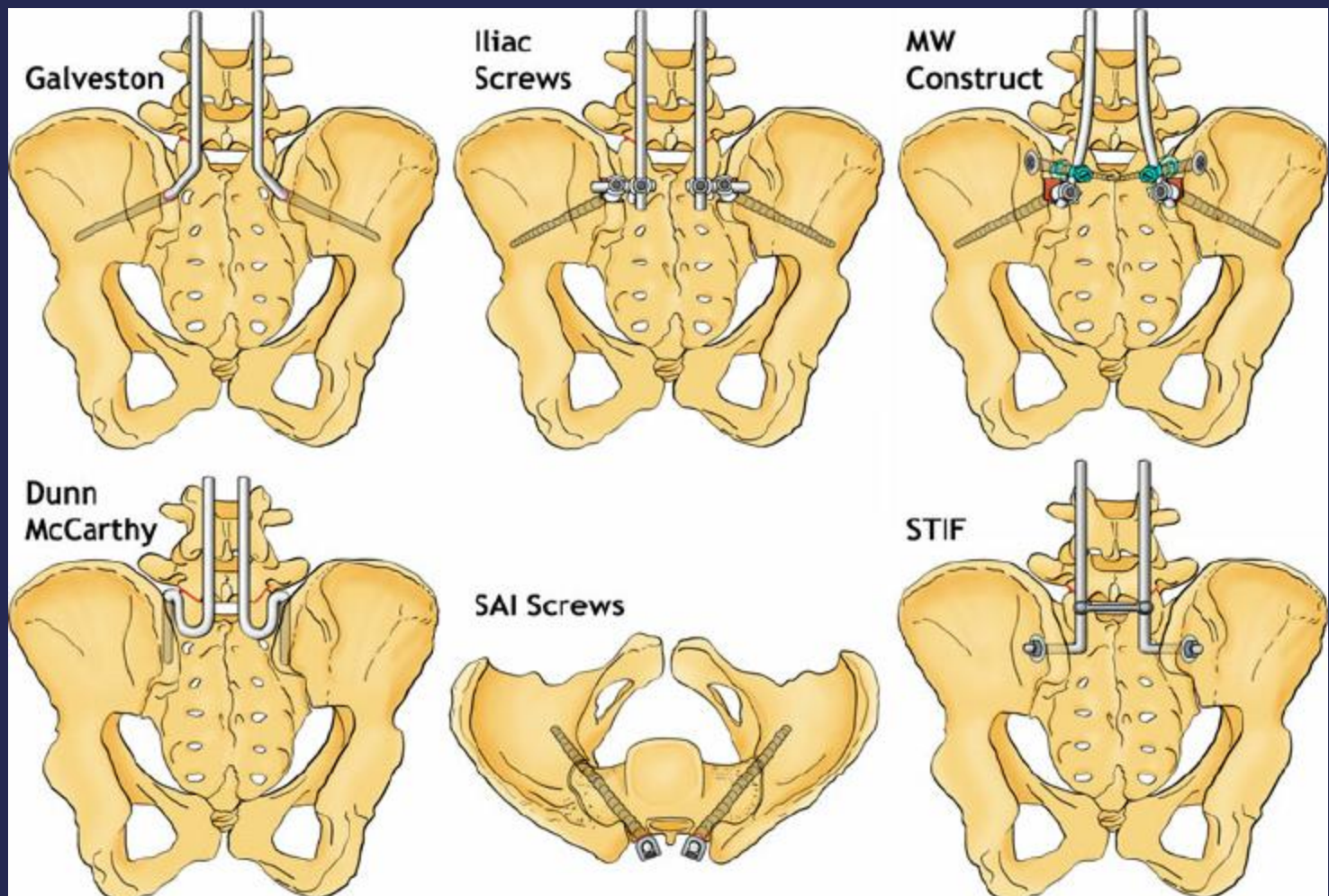
Anterior lumbar interbody fusion (ALIF)



- (A) ALIF interbody device with integral fixation. (B) ALIF implant with anterior plate fixation. (C) ALIF implant with posterior instrumentation.







???????

