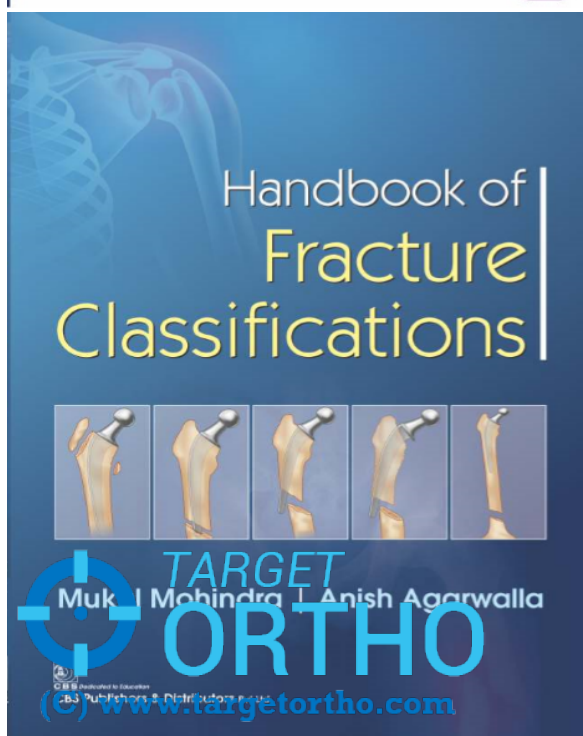
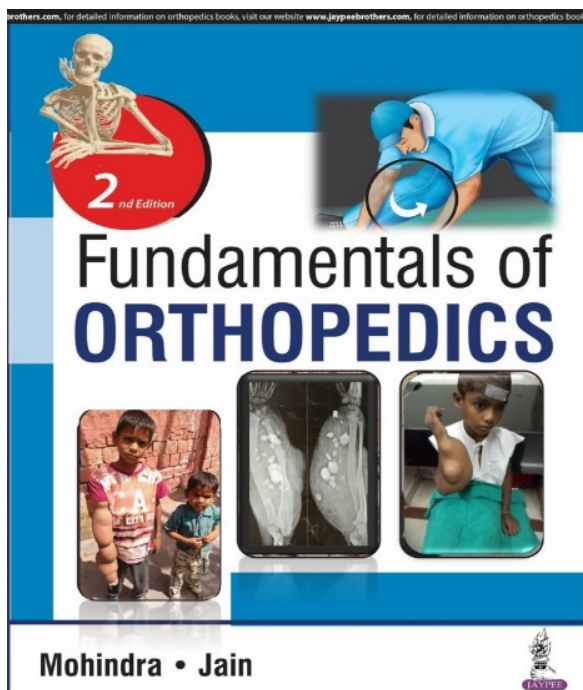




DR. MUKUL M HINDRA

mukulmohindra@gmail.com

M.S [ORTHO], DNB, MNAMS

Diploma SICOT [Belgium]

FNB [Arthroscopy & Sports Medicine]

Fellowship in Minimally Invasive Arthroplasty (Athens)

Consultant

Safdarjung Hospital

New Delhi

ORTHOPEDIC INSTRUMENTS

SURGICAL INSTRUMENTS

CUTTING

HOLDING

RETRACTING

SURGICAL RETRACTORS

To separate edges of a surgical incision/ dissection plane!

SIMPLE



SELF RETAINING



SIMPLE RETRACTORS

Angled Blade

Curved Blade

Hooked Blade





Lahey's Retractor



Langenbeck's
Retractor

Farabeuf Retractor



Army Navy Retractor

Volkman Retractor



Deaver's Retractor



Doyen's Retractor



Morris Retractor

MORRIS RETRACTOR

- 17.113 - Small'
- 17.114 - Medium
- 17.115 - Large



SELF RETAINING RETRACTORS



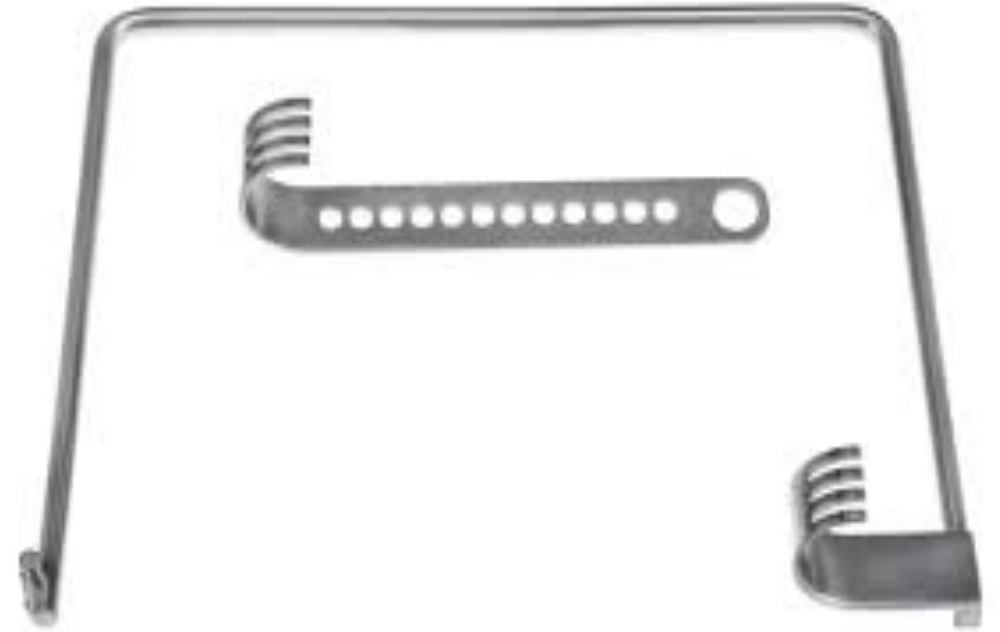
Myerding
Retractor

Gelpi
Retractor





Charnley's Retractor



SPECIAL RETRACTORS

Hohmann Retractors



Q. Who was the first to describe the use of retractors in surgery?

- A. Susruta
- B. Paul of Aegenia
- C. Hippocrates
- D. Ambrose Pare

Q. Langenbeck retractors were
ORIGINALLY designed for

- A. Urological procedures
- B. Abdominal surgeries
- C. Orthopedic surgeries
- D. Neuro-surgical procedures

SURGICAL INSTRUMENTS

CUTTING

HOLDING

RETRACTING

FORCEPS



Q. The word “FORCEPS”

- A. Singular; no plural version is there
- B. Singular; FORCEPS’ is plural version
- C. Plural; no singular version is there
- D. Plural; FORCEP is singular version

FORCEPS



Foriceps



RING FORCEPS

Kelly Rankin Hemostat

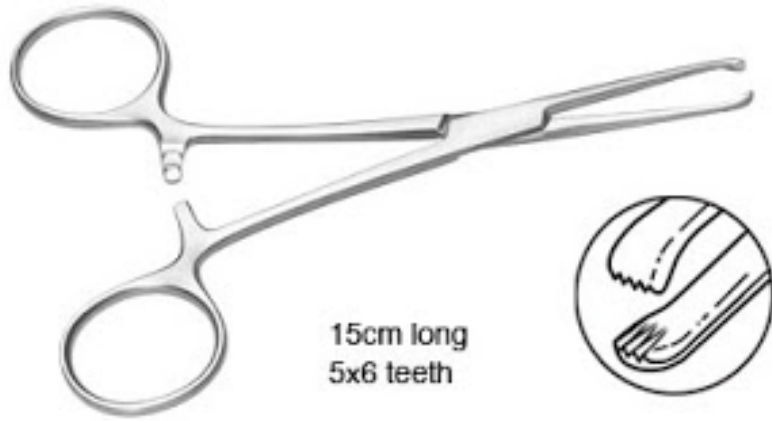


Halstead Mosquito Hemostat



Allis Clamp

Oscar H. Allis
(New York)



Babcock
Forceps





Sponge Holding Forceps

THUMB FORCEPS

Adson's Thumb forceps



SPECIAL FORCEPS

Plate holding Forceps

Verbrugge



AO Bone Holding Forceps



Q. Identify the type of bone holding forceps

- A. Lane's bone holding forceps
- B. Ferguson's bone holding forceps
- C. Allis bone holding forceps
- D. Richard's bone holding forceps





Q. Identify the type of bone holding forceps

- A. Lane's bone holding forceps
- B. Ferguson's bone holding forceps
- C. Allis bone holding forceps
- D. Richard's bone holding forceps



Pelvic Reduction Forceps



Lowman's clamp



SURGICAL INSTRUMENTS

CUTTING

HOLDING

RETRACTING

Bard Parker Handle

20

10

15

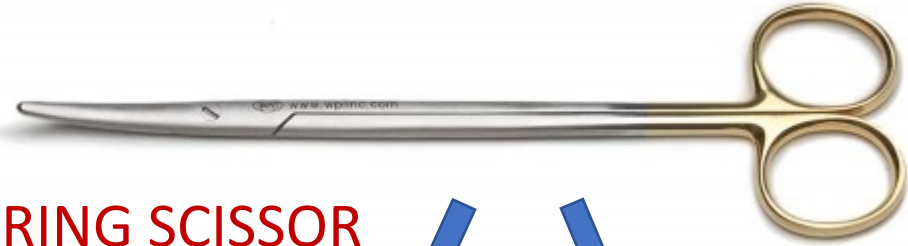
12

SCISSORS

SPRING SCISSOR



RING SCISSOR



TISSUE
CUTTING

SUTURE
CUTTING



TISSUE CUTTING SCISSORS

Metzenbaum
Scissors



Mayo
Scissors



MIND BOGGLER!!!

- PERIOSTEUM
- OSTEOTOME
- CHISEL
- BONE GOUGE


*If **Do = Red** and
So = Blue, what color
is "Tea, a drink with
jam and bread?"*

Hint: A, due is a deep, a female does

Periosteum elevator



OSTEOTOME



CHISEL



BONE GOUGE





Q. This instrument is

- A. Mallet
- B. Hammer
- C. Can be called either
- D. Need to see whether is can be disassembled to comment

BONE NIBBLER



BONE CUTTER

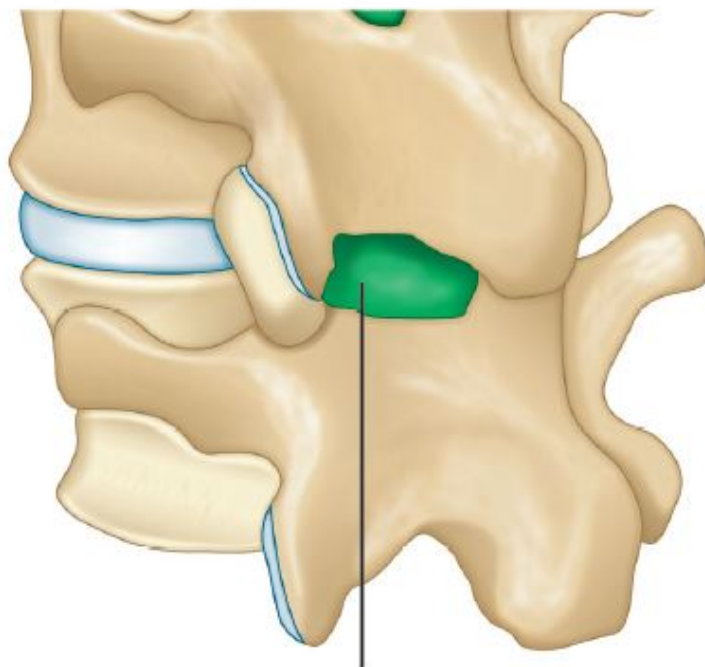


BONE CURET

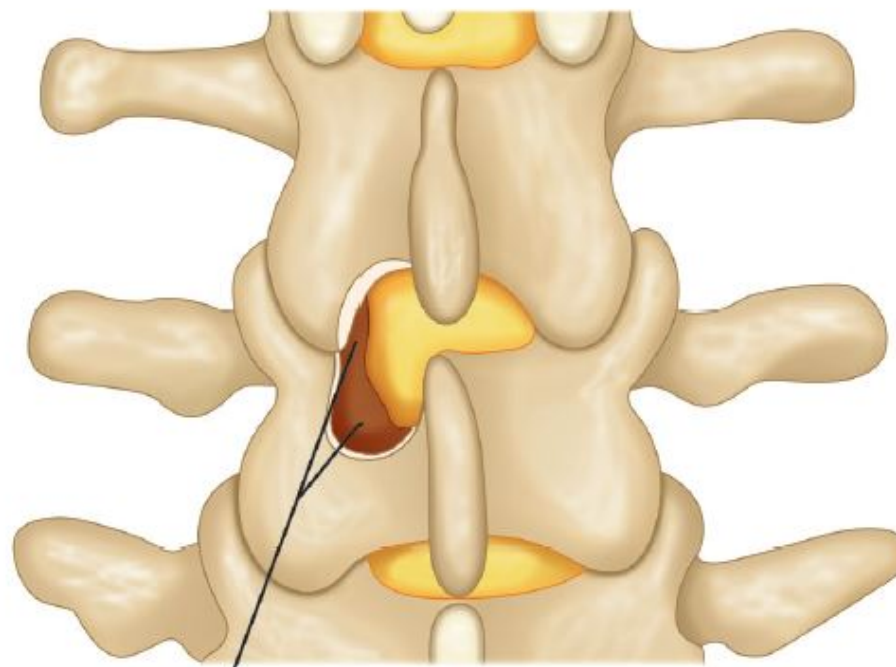


SPINAL INSTRUMENTATION

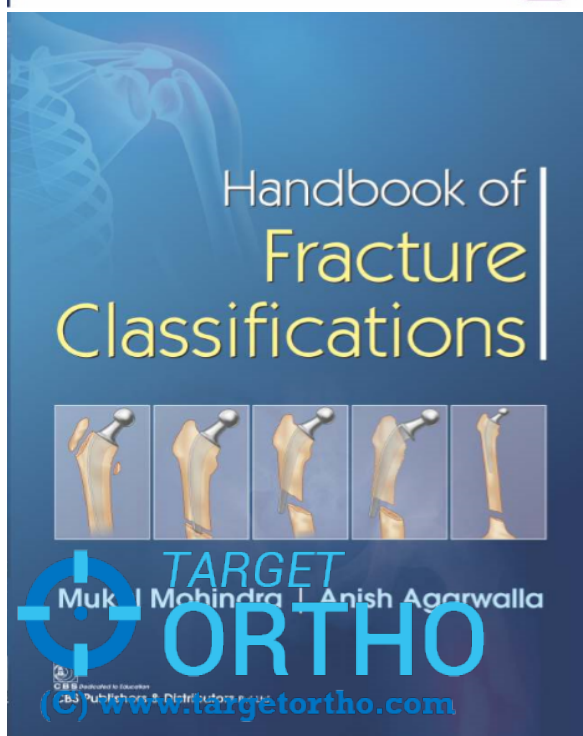
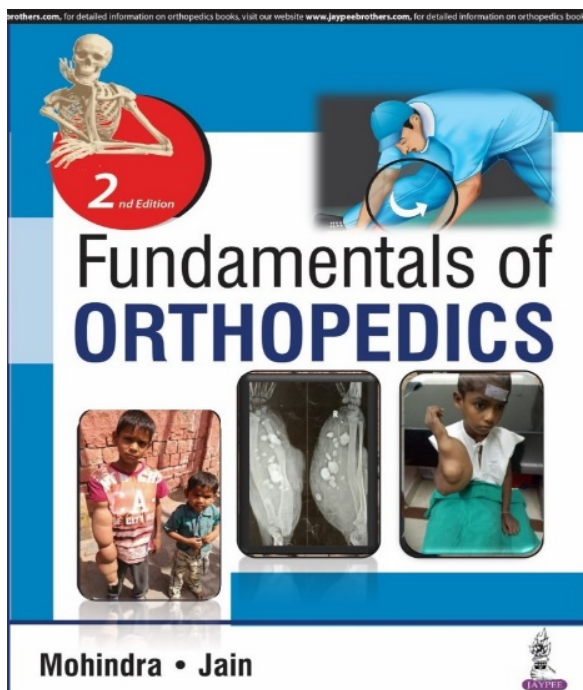




Ligamentum flavum excised
(Fenestration)



Part of lamina removed
(Laminotomy)



DR. MUKUL M  HINDRA

mukulmohindra@gmail.com

M.S [ORTHO], DNB, MNAMS
Diploma SICOT [Belgium]

FNB [Arthroscopy & Sports Medicine]
Fellowship in Minimally Invasive Arthroplasty (Athens)

Consultant
Safdarjung Hospital
New Delhi

