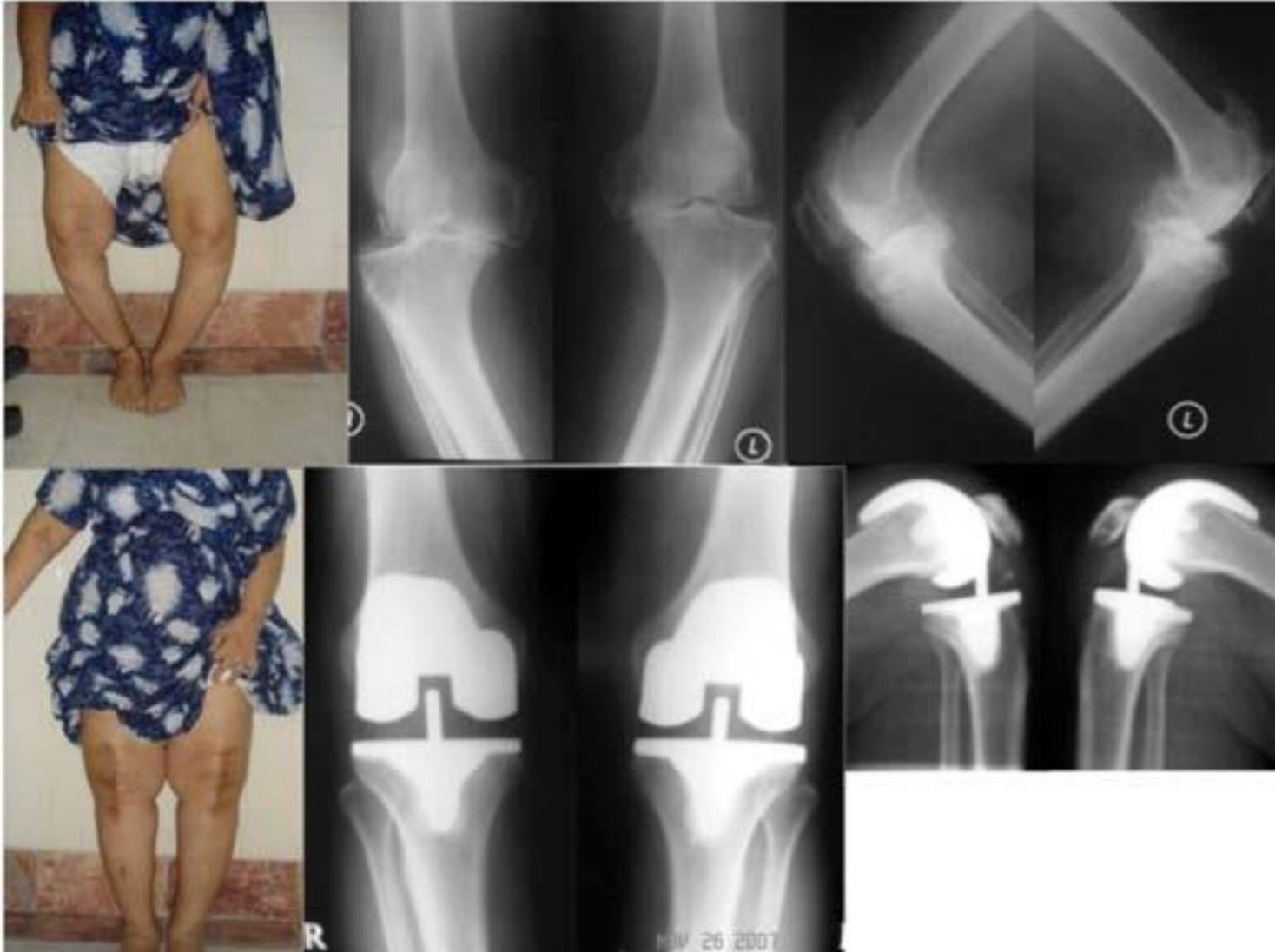


ARTHROPLASTIC SURGERY





So many Recent Advances....



JOINT PROBLEM

- ANALGESIC
- PT
- BRACE
- INTERVENTION
- ARTHRODESIS
- ARTHROPLASTY

WHEN ARTHROPLASY

- PAINFULL JOINT
- LOSS OF ROM
- JOINT DESTRUCTION
- DEFORMITY
- LLD

FINALLY

LOSS OF FUNCTION

GOAL

- PROVIDE FUNCTIONAL ROM
- STABLE
- LONGEVITY
- DEFORMITY CORECCTION
- LLD

MOBILE

HOPENESS

CONTRA INDICATION

INFECTION

NEUROVASCULAR

MUSCULAR

PAIN FREE JOINT & STABLE

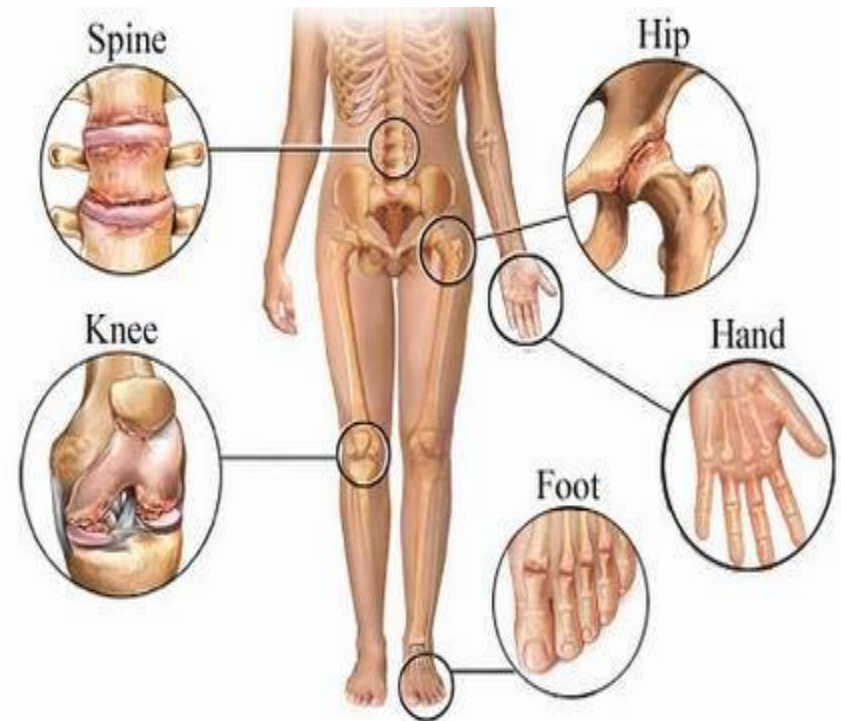


**After all it's a
Orthopaedicians choice**

INDEX

Recent Advances in

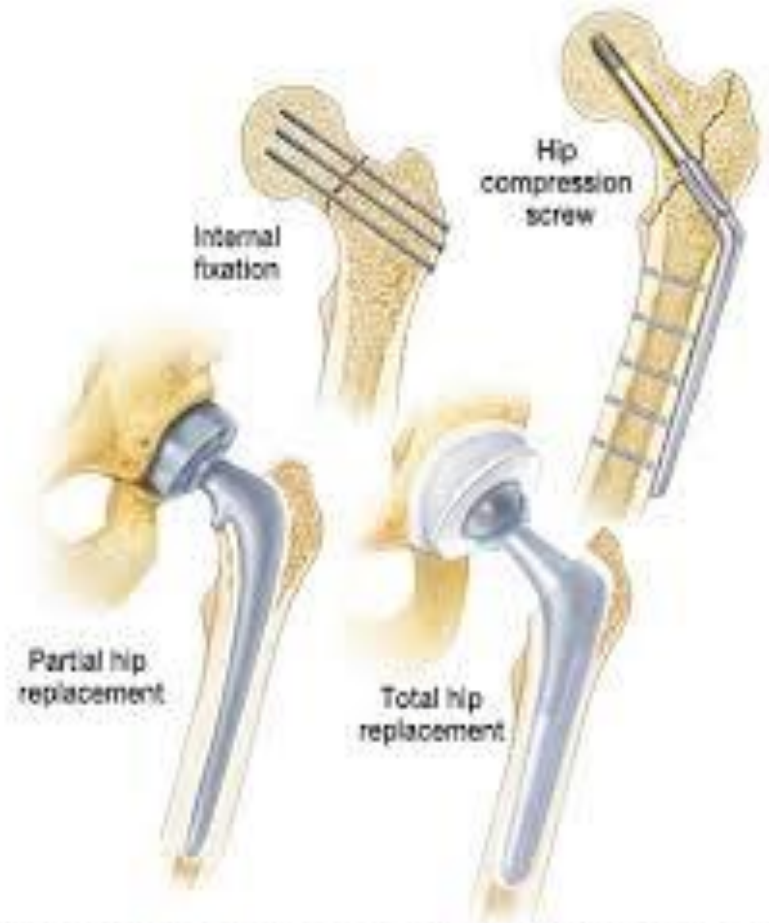
- Hip Arthroplasty
- Knee Arthroplasty
- Shoulder Arthroplasty
- Elbow Arthroplasty
- Ankle Arthroplasty
- Spine Arthroplasty
- Radial Head Arthroplasty
- CMC Joint Arthroplasty
- PIP Joint Arthroplasty



Hip fx

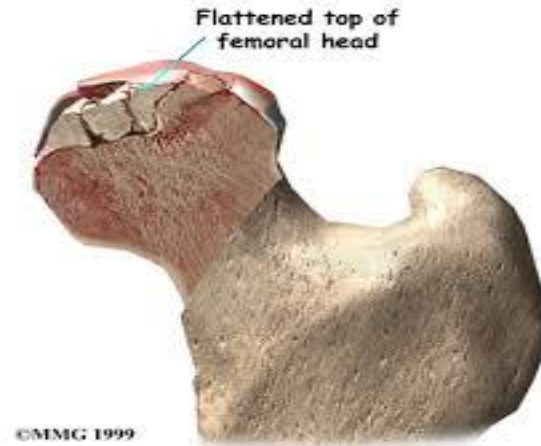


Hodener & Müller LLC

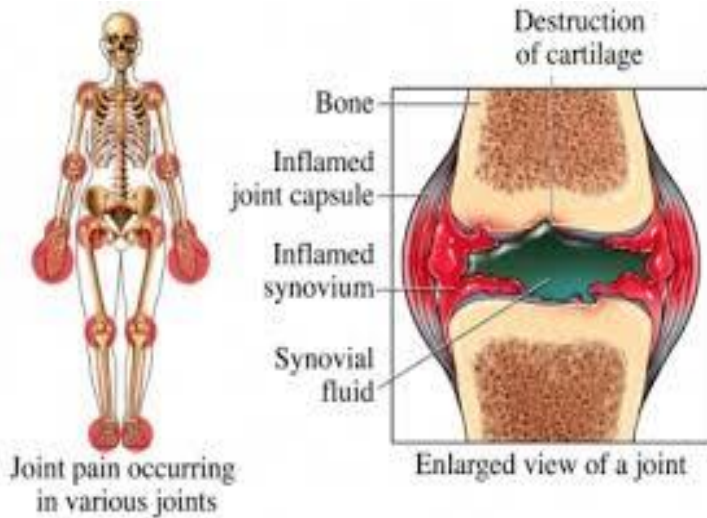


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AVN & OA



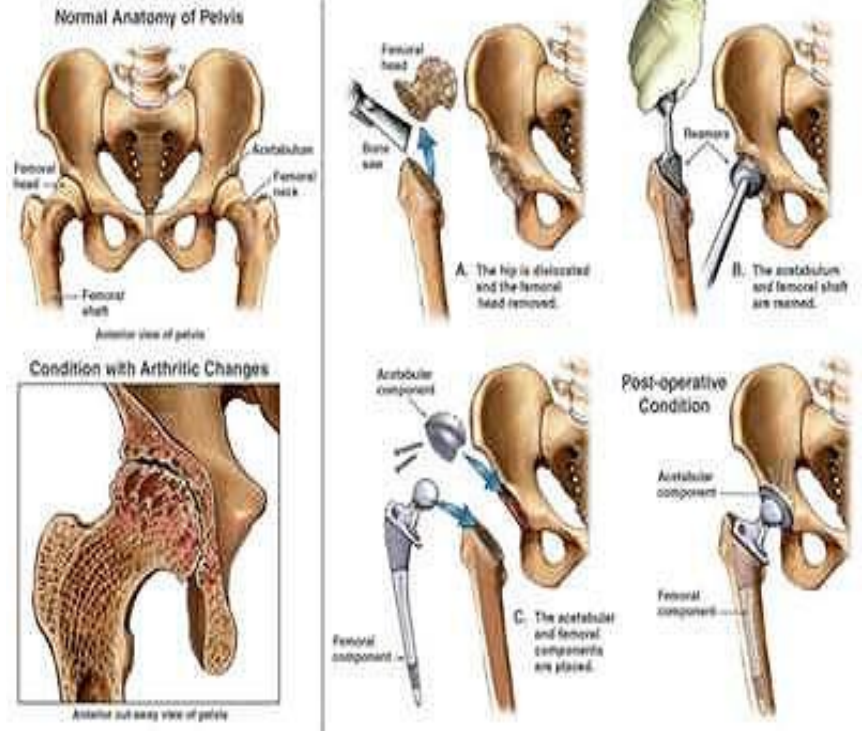
ARTHRITIS



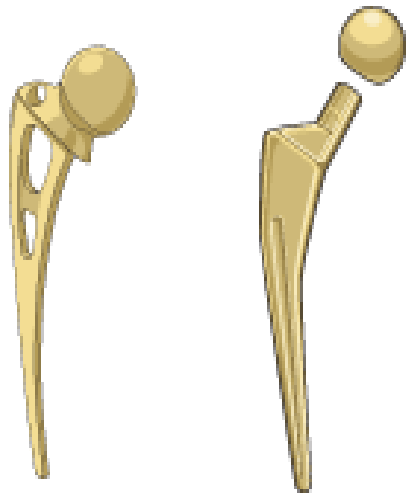
HIP



TOTAL HIP REPLACEMENT

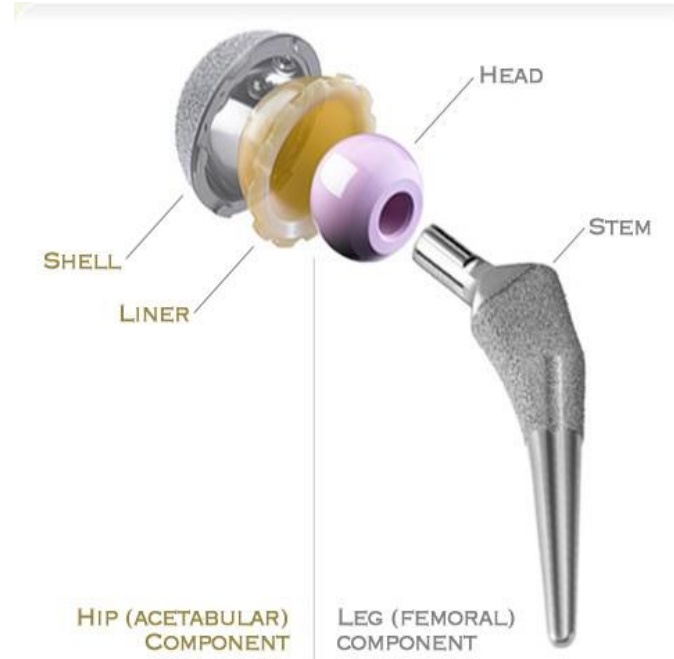


HIP



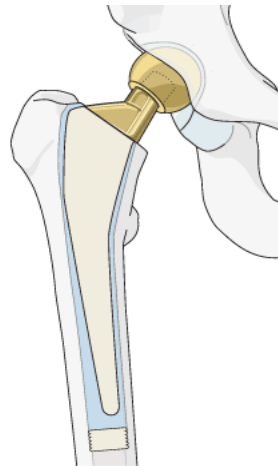
Austin-Moore

Modern modular prosthesis



HIP (ACETABULAR) COMPONENT

LEG (FEMORAL) COMPONENT

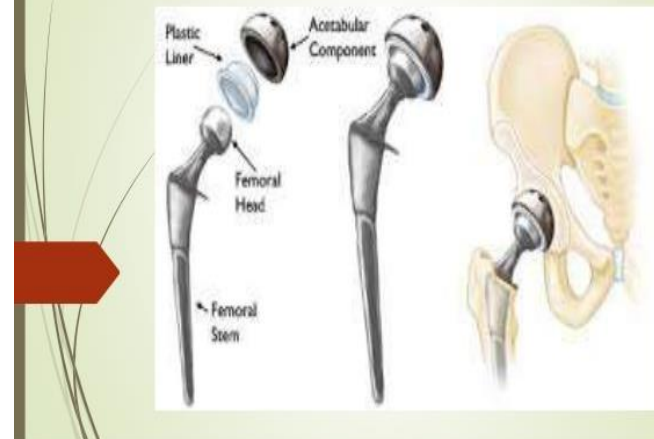


Hemiprosthesis



Total hip

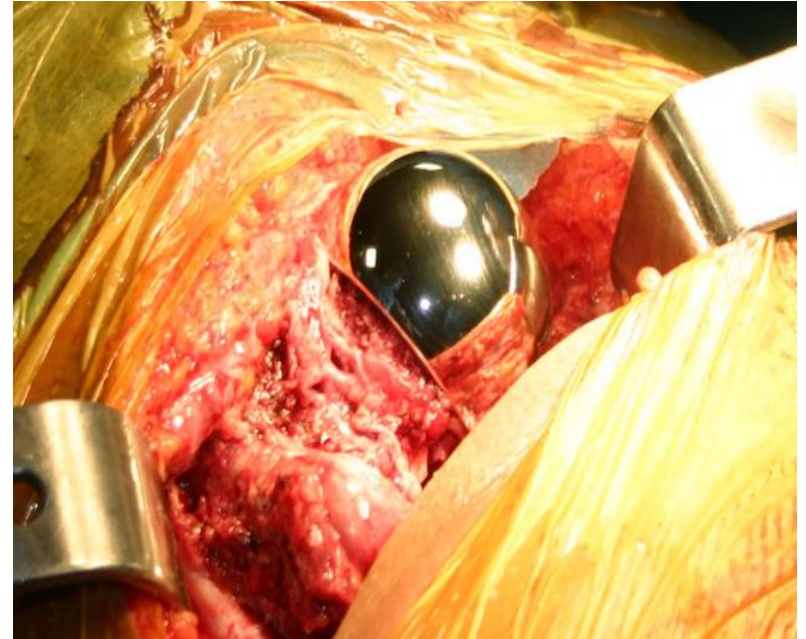
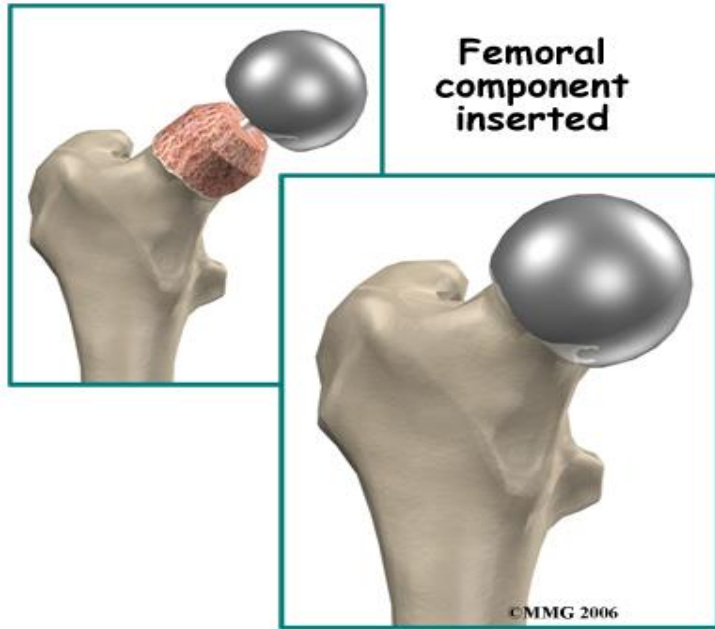
TOTAL HIP REPLACEMENT



Hip Resurfacing Surgery



Technique- Femoral head cemented in



What is Dual Mobility ?

Head articulates within a retentive polyethylene
Polyethylene is free to move in metalback shell in a NON
RETENTIVE way
Do not confuse with bipolar cups



Active Articulation™
Dual Mobility Hip
System



Knee Arthroplasty

Before



After



INDICATIONS

- Severe arthritis
- Young pts with systemic arthritis with multiple joint involvement
- Osteonecrosis with subchondral collapse of a femoral condyle
- Severe pain from chondrocalcinosis and pseudogout in elderly
- Severe patello femoral arthritis rarely

CONTRA-INDICATIONS

- Recent/current knee sepsis
- Remote source of ongoing infection
- Extensor mechanism discontinuity
- Recurvatum deformity secondary to muscle weakness
- Presence of painless, well functioning knee arthrodesis

TKA



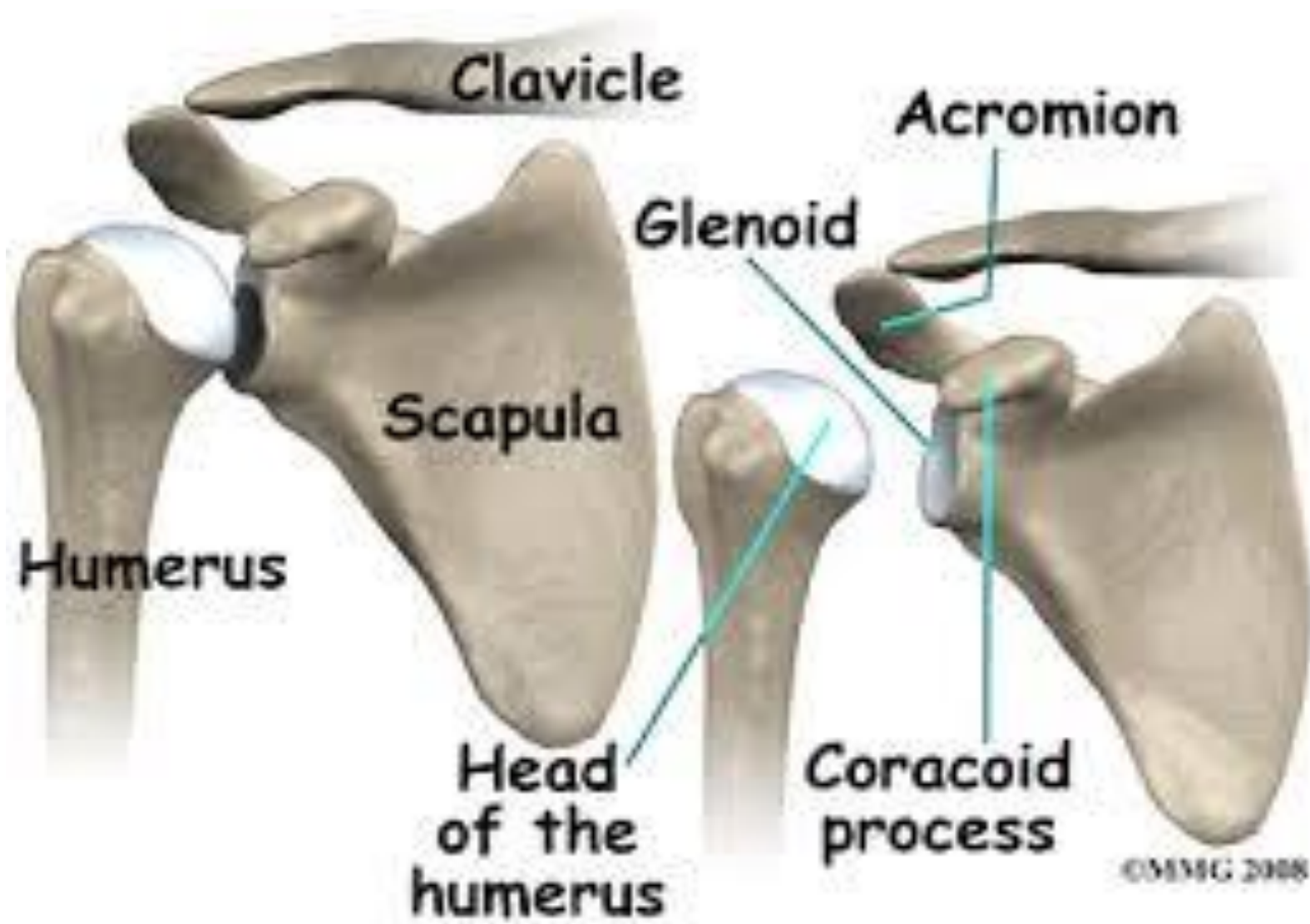
UNICONDYLAR



Medial compartment knee replacement

Total Shoulder Arthroplasty





INDICATION

Table 2

Relative Indications for Reverse Total Shoulder Arthroplasty for Proximal Humeral Fractures

Three- and 4-part fractures in patients older than 70 y

Nonreconstructable fractures, particularly of the tuberosities

Symptomatic nonunion or malunion

Fractures with a high risk of avascular necrosis

Preexisting arthritis

Presence of a rotator cuff tear

Arthroplasty in PHFx

- 4-part fractures,
- fracture dislocations,
- head-splitting fractures,
- impaction fractures,
- humeral head fractures with involvement of more than 50% of the articular surface, and
- 3-part fractures in elderly patients with osteoporotic bone. However, heterogeneity of fracture patterns exists within these groups



Humerus Replacement



Normal Anatomy



Post-accident Condition



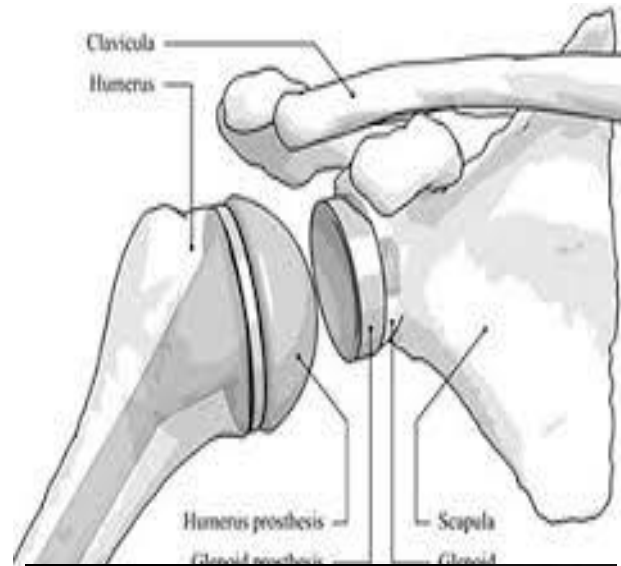
Subsequent Condition



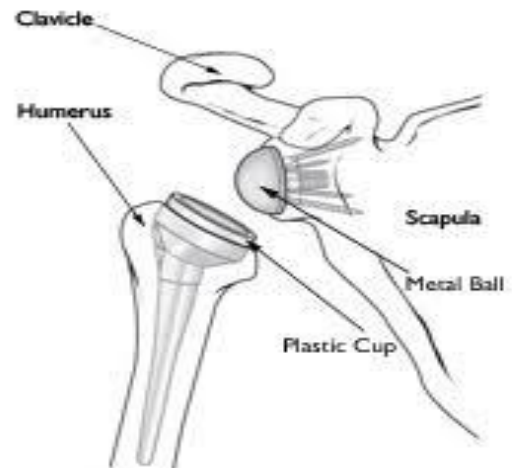
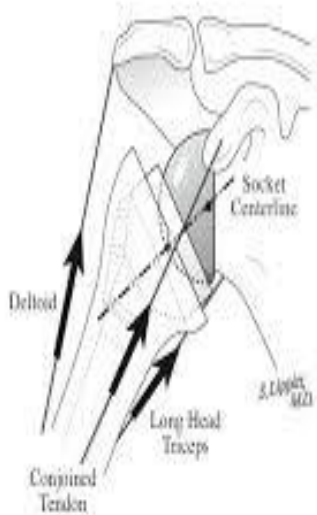
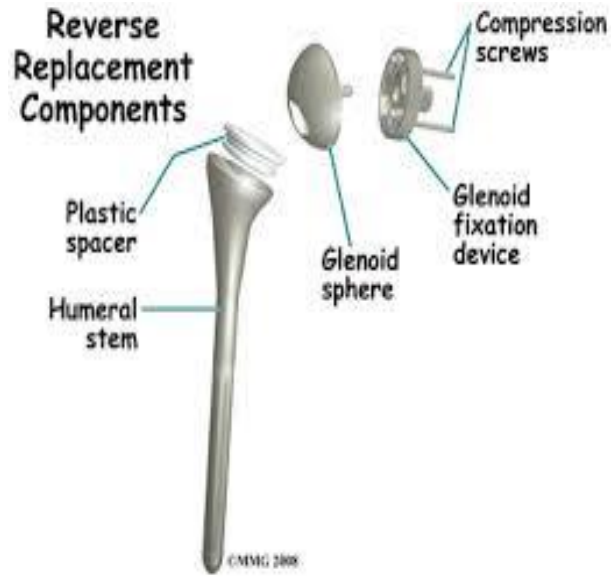
Final Condition



TSA



RSA



Resurfacing the shoulder



Total Elbow Arthroplasty



Indications for Total Elbow Arthroplasty

Severe joint pain

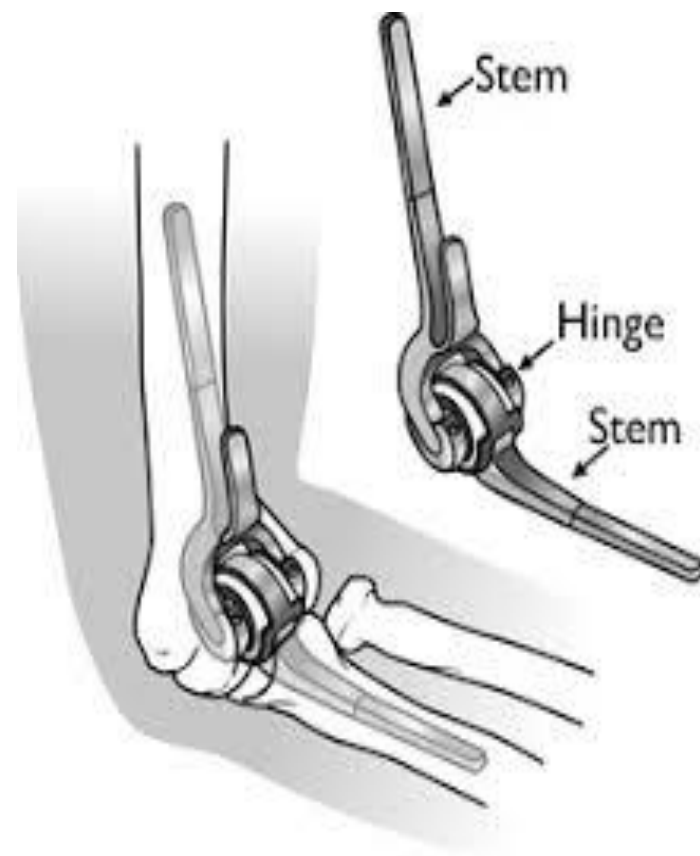
Articular destruction of the humeroulnar and humeroradial joints

RA is one of the most common pathologies leading to a TEA

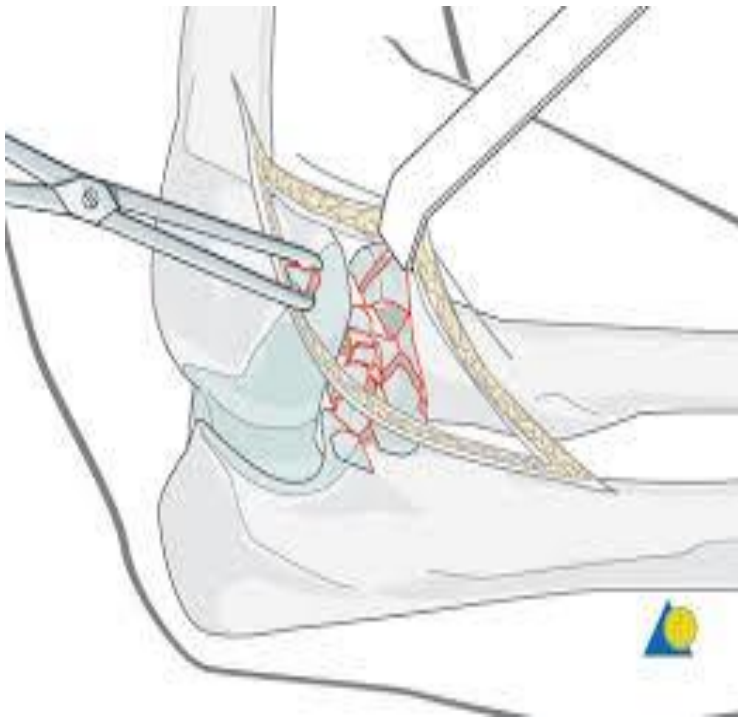
Significant instability of the elbow joint

Failed radial head resection

Joint Surgery and Postoperative Management - TEA



RADIAL HEAD FX



Total Ankle Arthroplasty



Indications

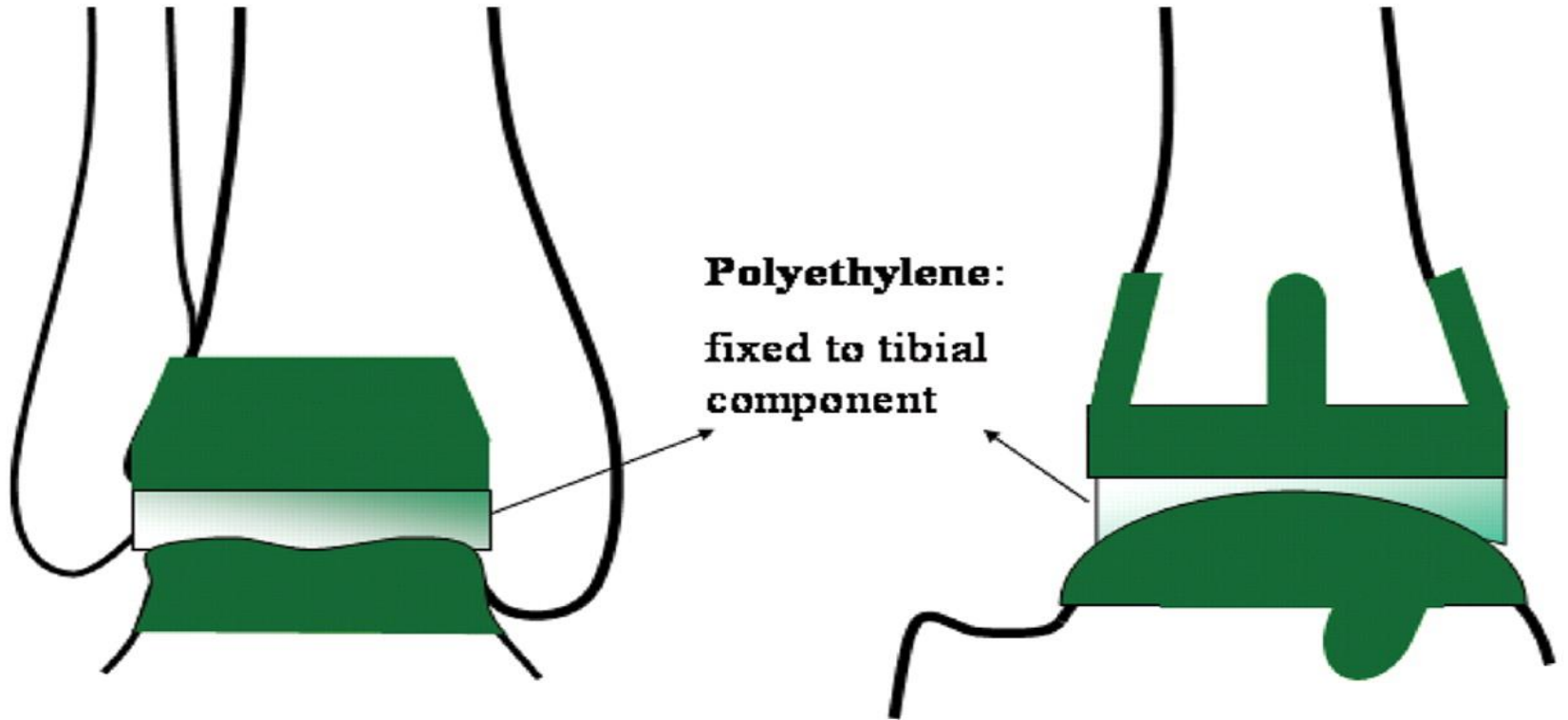
- For patients with unremitting pain and irreversibly damaged joints:-
 - ❖ Severe osteoarthritis
 - ❖ Rheumatoid arthritis
- Selected fracture (femoral neck fracture).
- Failure of previous reconstructive surgery (osteotomy, cup arthroplasty, femoral neck fracture complication – non union, avascular necrosis)
- Congenital hip diseases.
- Pathologic fractures from metastatic cancer.
- Joint instability.



The ESKA ankle prosthesis (Germany)

ESKA :

fixed-bearing (two-component) ankle prosthesis



frontal plane

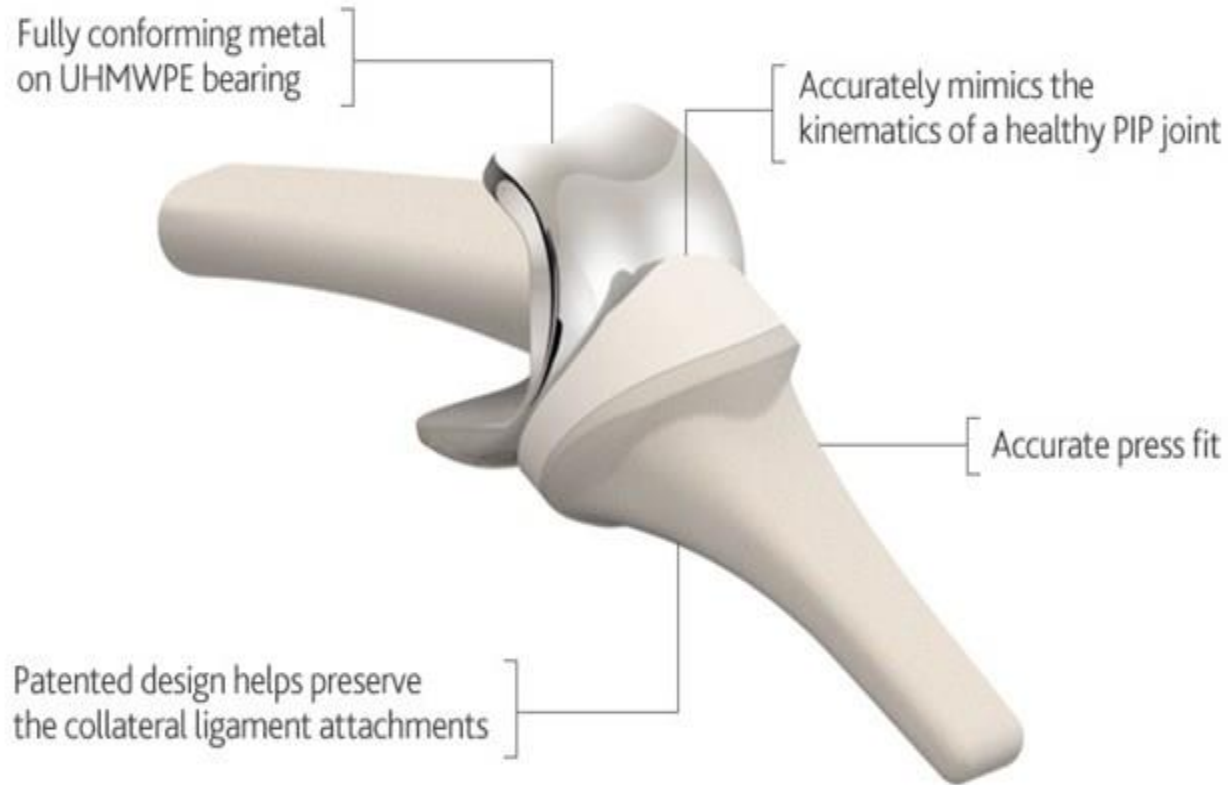
sagittal plane

CMC Joint Arthroplasty





PIP Joint Arthroplasty



Osteoarthritis
(late stage)



Fusiform
swelling
of joints

Heberden's nodes

ADAM

