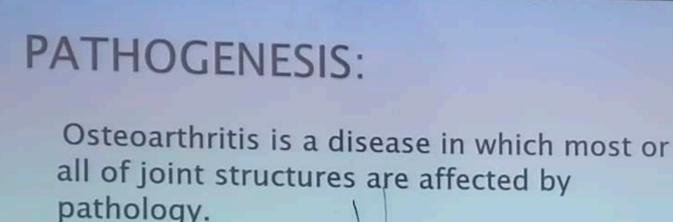
OSTEOARTHRITIS

DR.FAHMINA ASHFAQ

AP ANMC

RISK FACTORS:

- **AGE**
- **GENDER**
- JOINT INJURY(ruptured anterior cruciate ligament or torn meniscus)
- **OBESITY**



Thin layer of hyaline articular cartilage interposed between two articular bones is targeting site

Degeneration of fibrocartilagenous structurs like meniscus, sclerosis and growth of osteophytes.

PREVENTION:

- No proven strategy
- Framingham osteoarthritis study shows that weight reduction of 5 kg or more reduce risk of OA about half.
- Prevention of injuries

SIGNS AND SYMPTOMS:

- Joint pain that increase with activity
- Morning stiffness brief and self limited
- Crepitus
- Bony enlargement at the joint margin
- > Tenderness to palpation over the joint

Osteoarthritis Osteoarthritis (late stage) Fusiform Swelling of joints Heberden's nodes

DIAGNOSIS:

- ESR ---NORMAL
- > SEROLOGY----VE



IMAGING STUDIES:

- Joint space narrowing
- Osteophytes
- Subchondral cysts
- Bony sclerosis

HAND OA:



KNEE OA:



Synovial Fluid Analysis

-	NORMAL	Non- Inflammatory		Septic	Hemorrhagic
Clarity	Transparent	Transparent _		Dirty/Yellow	Red
Colour	Clear	Yellow	Yellow		Variable
Viscosity	High	High	Low L	Variable	200-2,000
WBC/mm3	No. of Contract of	200-2,000	2000-10,000 (up to 100,000)	>80,000	
		<25%	>50%	>75%	50-75%
PMNs%	<25%	<2570			

Depending on the clinical scenario, synovial fluid is analysed for:

- Cell count and differential
- Culture and sensitivity (if septic arthritis suspected) Crystals
- Cytology (if malignancy suspected)

SPECIAL TESTS:

WBC count is less than 2000cells/mcl No crystals

Treatment:

Non pharmacological:

assistive devices
quadricep strengthening
aerobic exercises
fitted valgus braces
wedged insoles in shoes

COMPLICTIONS:

- Osteonecrosis
- Bleeding within joint
- Septic joint
- Ruptured ligaments and tendons

7