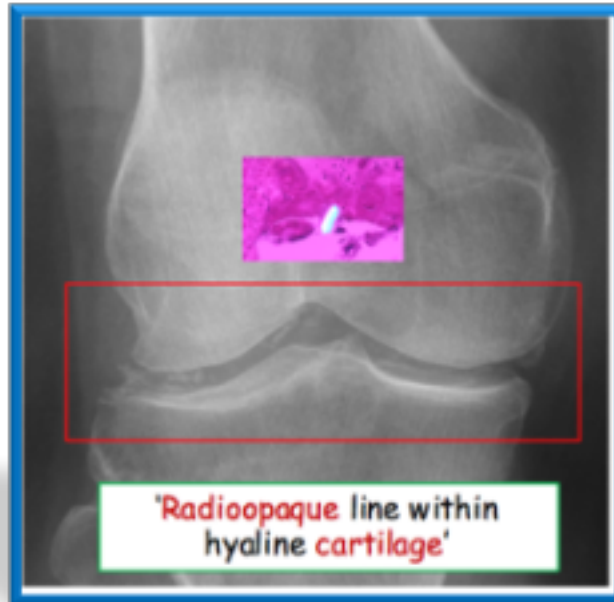
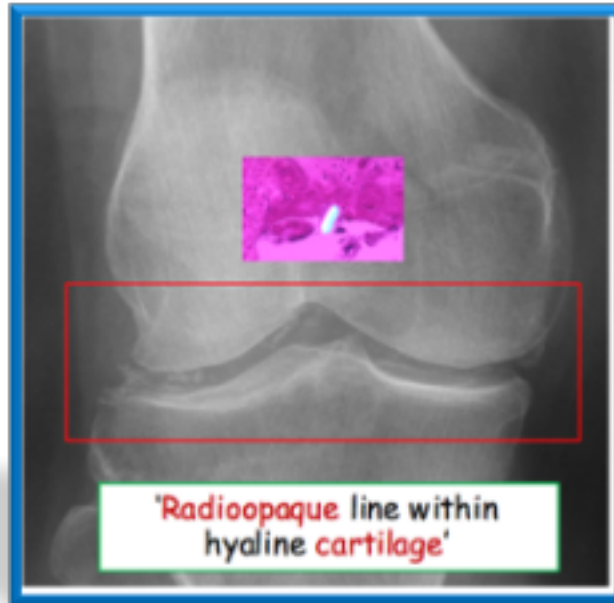


Podcast (Video Recorded Lecture Series):
Pseudogout for the USMLE Step One Exam



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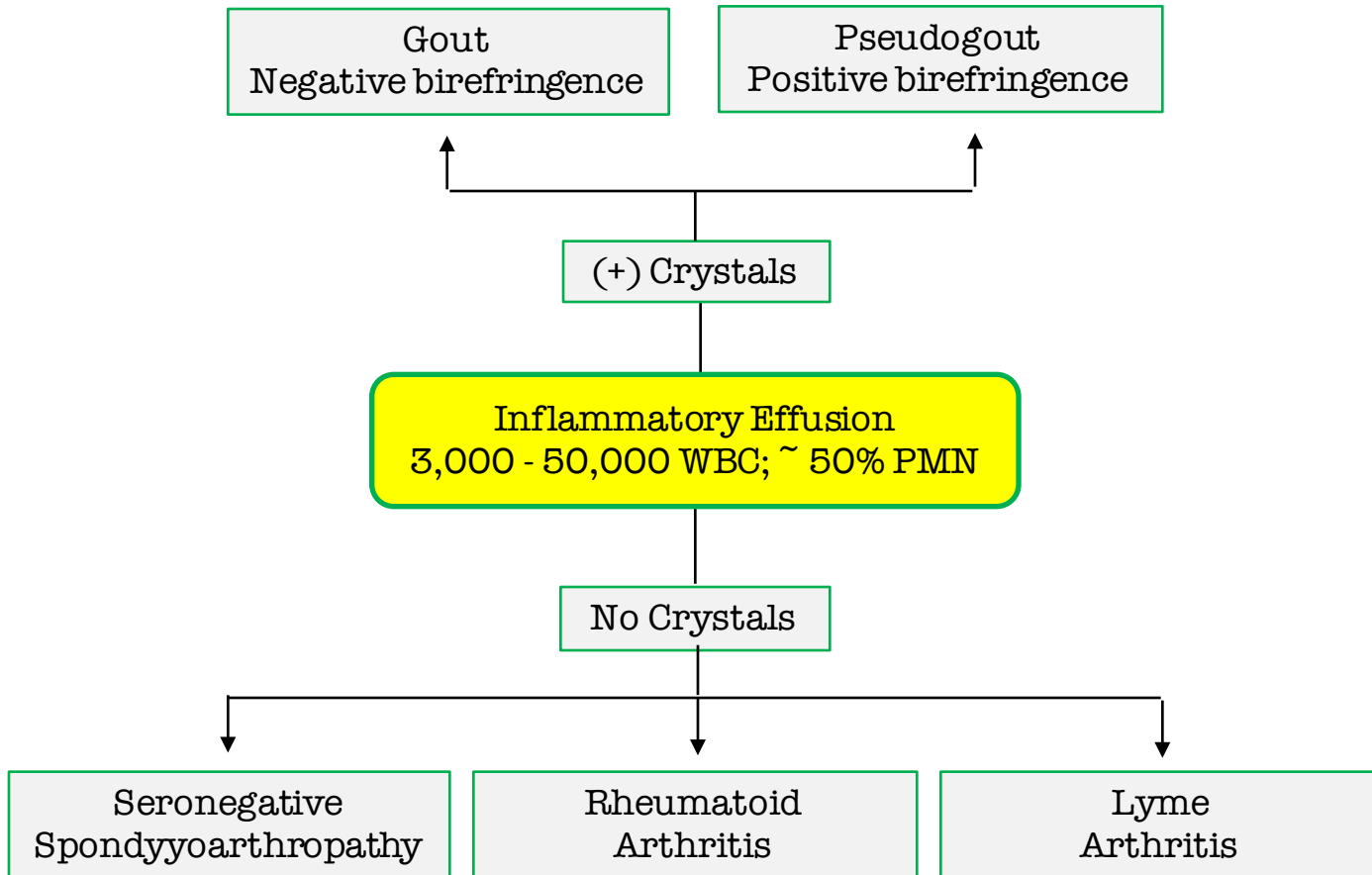
Tutorial Services

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Synovial Fluid Analysis Characteristics

	Volume (mL)	Viscosity	Clarity	Color	WBC/mm ³
Normal	< 3.5	High	Clear	Colorless/ Straw	< 150
Noninflammatory: OA/Trauma					< 3000
Inflammatory	> 3.5	Low	Cloudy	Yellow	> 3000
Septic (purulent)	> 3.5	Mixed	Opaque	Mixed	> 50,000
Hemorrhagic	> 3.5	Low	Mixed	Red	Similar to blood level

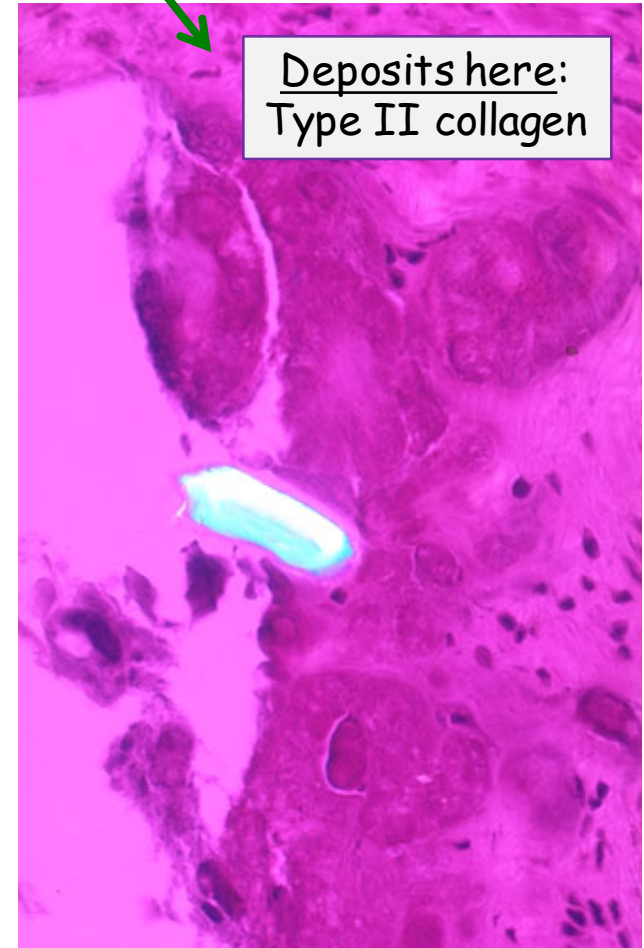
Crystal analysis (+), Gram Stain (-), Culture (-)



Pathology: Pseudogout, **Chondrocalcinosis**

(CPPD: **calcium pyrophosphate** deposition disease)

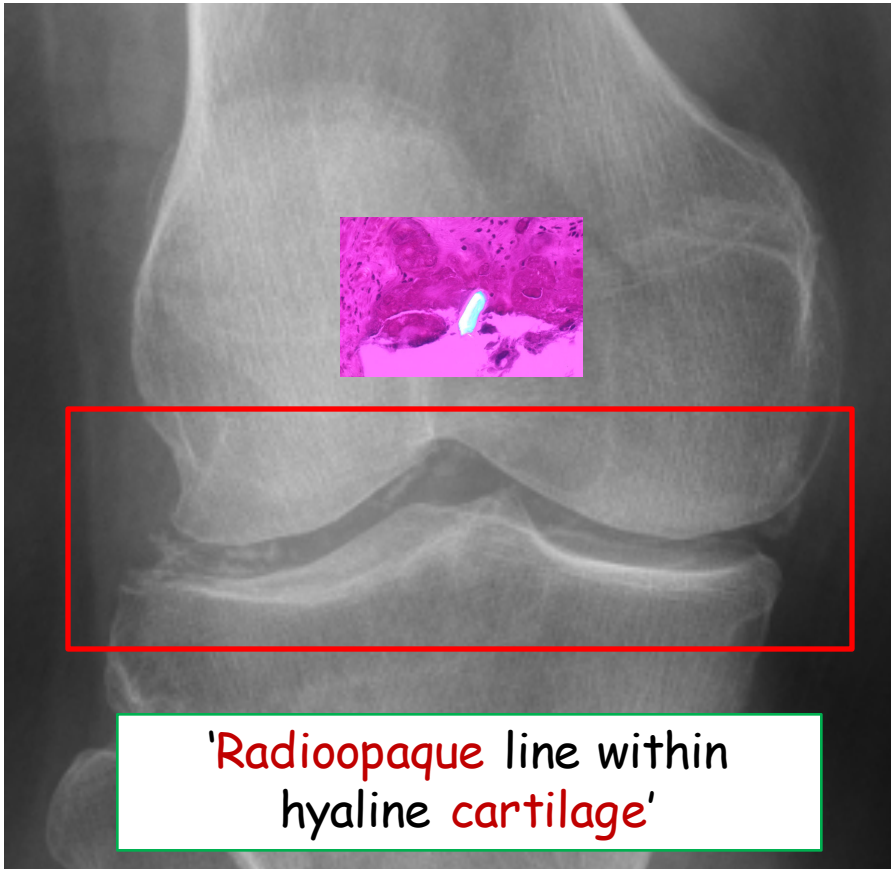
- Background:
 - **Acute mono** or polyarticular arthritis; recurrent episodes; **knee/wrist most common**.
 - As name implies, **deposited in cartilage**; synovium less common.
- Pathology/Pathogenesis:
 - Deposition of calcium pyrophosphate (**rhomboid crystals**) in tissues/cartilage
- Etiology:
 - Association with thyroid, HH, PTH



Pathology, Pseudogout, Chondrocalcinosis

(CPPD: calcium pyrophosphate deposition disease)

- **Presentation:**
 - **Acute arthritis** or discovered on radiograph



Pathology, Pseudogout, Chondrocalcinosis

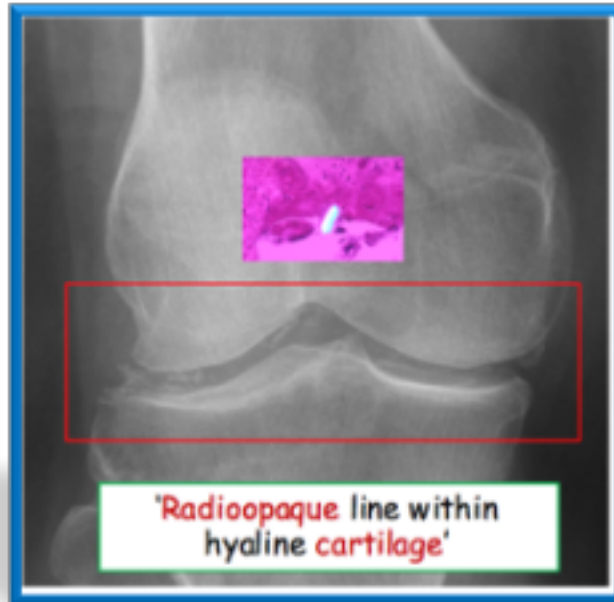
(CPPD: calcium pyrophosphate deposition disease)



Acute Rx: same as gout
Prevention: colchicine (only rx)

- **Presentation:**
 - Acute arthritis or discovered on radiograph (what to do?)
- **Diagnosis:**
 - Synovial fluid analysis
 - Inflammatory, no BUGS, (+) **rhomboid crystals**
 - Crystal is **BLUE** (positive birefringence w/ polarizing lens)
- **Related topic(s):**
 - 'Pseudo-RA' (joint involvement)
 - No Tophi

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