

# RHEUMATOLOGIC DISEASE

## INFLAMMATORY ARTHROPATHY

- Joint pain is the primary manifestation
- Constitutional symptoms are not common

### SPONDYLOARTHROPATHIES

- HLA-B27 associated (M>F)
- ~45 years of age
- Fusion of axial joints / spine

### RHEUMATOID ARTHRITIS

- Morning stiffness >30mins
- MCP + PIP joints commonly affected

### CRYSTAL ARTHROPATHY

- **Gout** - Monosodium Urate
  - Needle shape
  - Negative Birefringence
- **Pseudogout** - CPPD
  - Polymorphic shape
  - Chondrocalcinosis
  - Postive Birefringence



**LABS:** Rheumatoid Factor (RF) + Anti-CCP

- **Always consider pre-test probability!**
- **+ Antibodies but asymptomatic is common**

Rheumatoid Factor

- **60% will be RF +**
- **40% will be seronegative**
- **diagnosis made by H+P**

## CONNECTIVE TISSUE DISEASE

### LUPUS

- Anti-dsDNA
- Complement
- Anti-Smith
- APL antibody

### SJÖRGEN'S

- Anti-RO (SSA)
- Anti-LA (SSB)

### SCLERODERMA

- Anti-centromere
- Anti-SCL-70 (topoisomerase)

### MYOSITIS

- Anti-Jo 1

### MIXED CONNECTIVE TISSUE DISEASE

- Anti-U1-RNP
- \*RARE\*

**All connective tissue diseases are ANA +**

- **Sensitive for lupus, not specific**
- **Confirm with specific antibodies**

### TITERS

- **Starts at 1:40 - (negative)**
- **Lowest positive 1:80**
- **Increases by factor of 2**

\*but consider pretest probability

### TITER DILUTIONS



- Also monitor for organ systems that are typically asymptomatic: Kidneys + Cytopenias

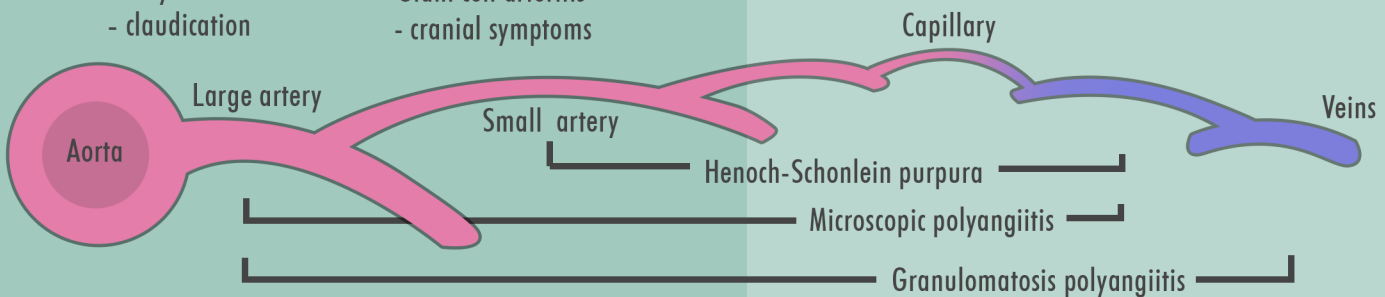
## VASCULITIS

### LARGE

- Takayasu Arteritis - claudication
- Giant cell arteritis - cranial symptoms

### MEDIUM / SMALL

- significant overlap



### LABS:

- Depends on vessel size
- ANCA + Cryoglobulin
- Vasculitides do NOT usually cause cytopenias

**ESR + CRP - useful for all rheumatologic disease!**

### MANIFESTATIONS

- Glomerulonephritis
- Palpable purpura
- Diffuse alveolar hemorrhage (DAH)
- Mononeuritis multiplex - wrist / foot drop
- Peripheral neuropathy