

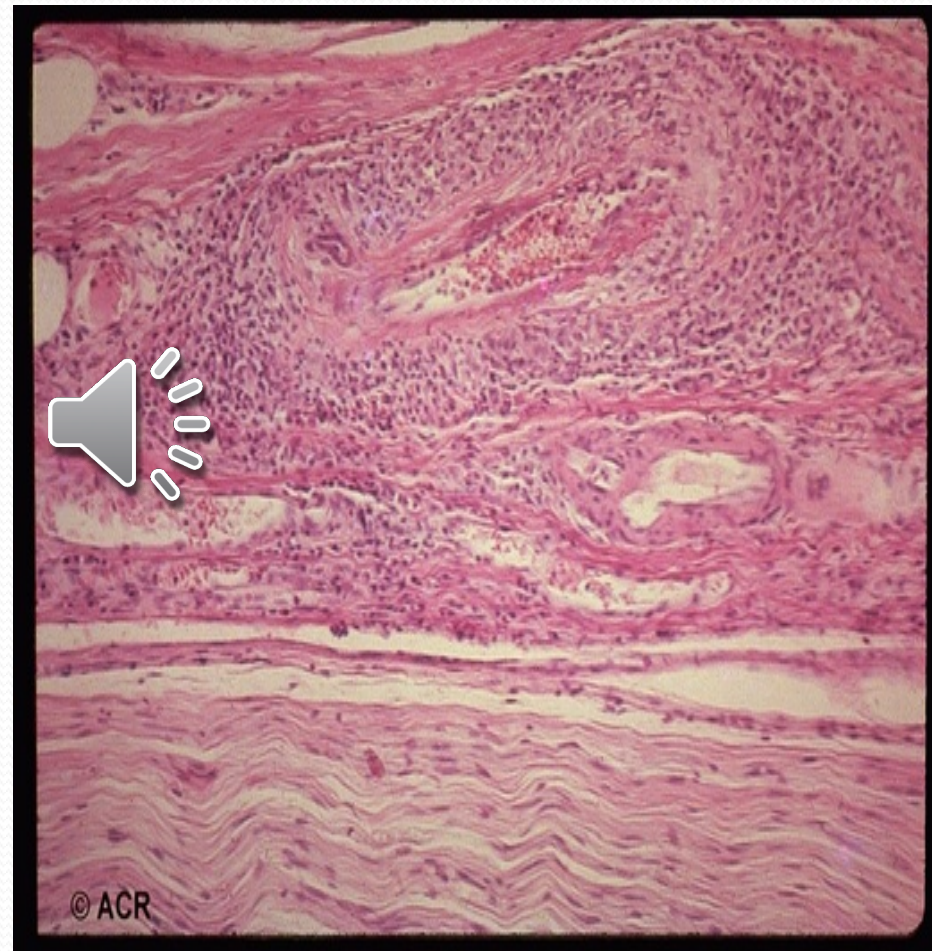
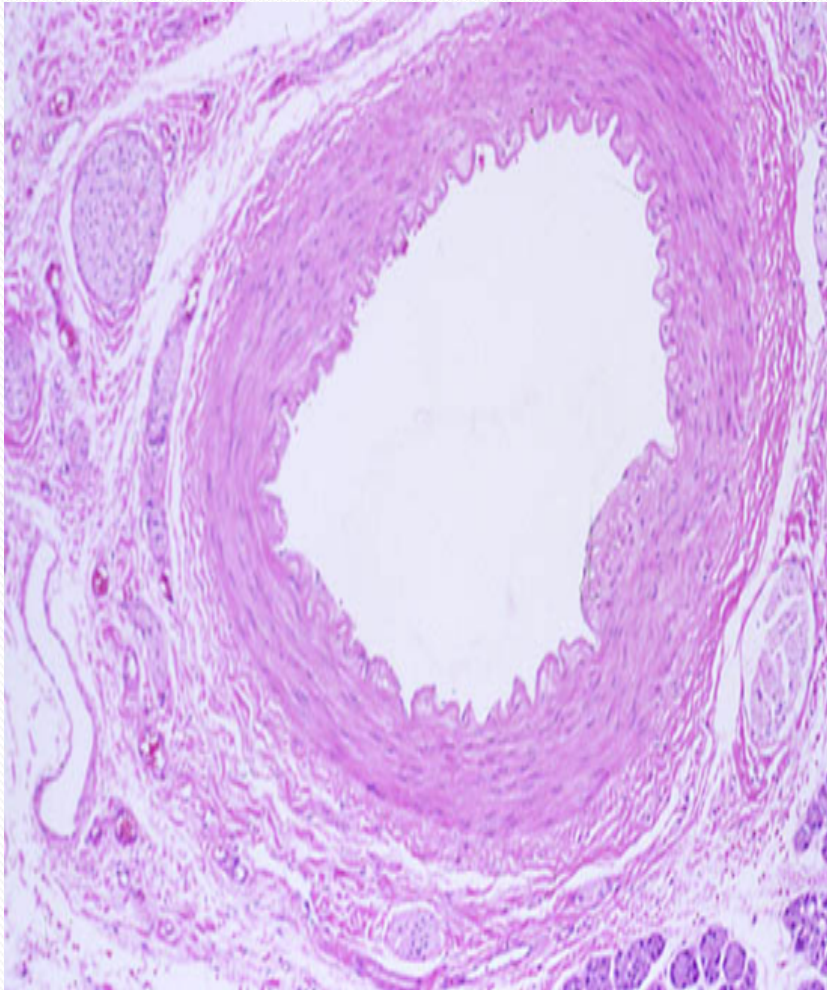
Systemic Vasculitis



Dr Ali Alkazzaz

Babylon collage of medicine

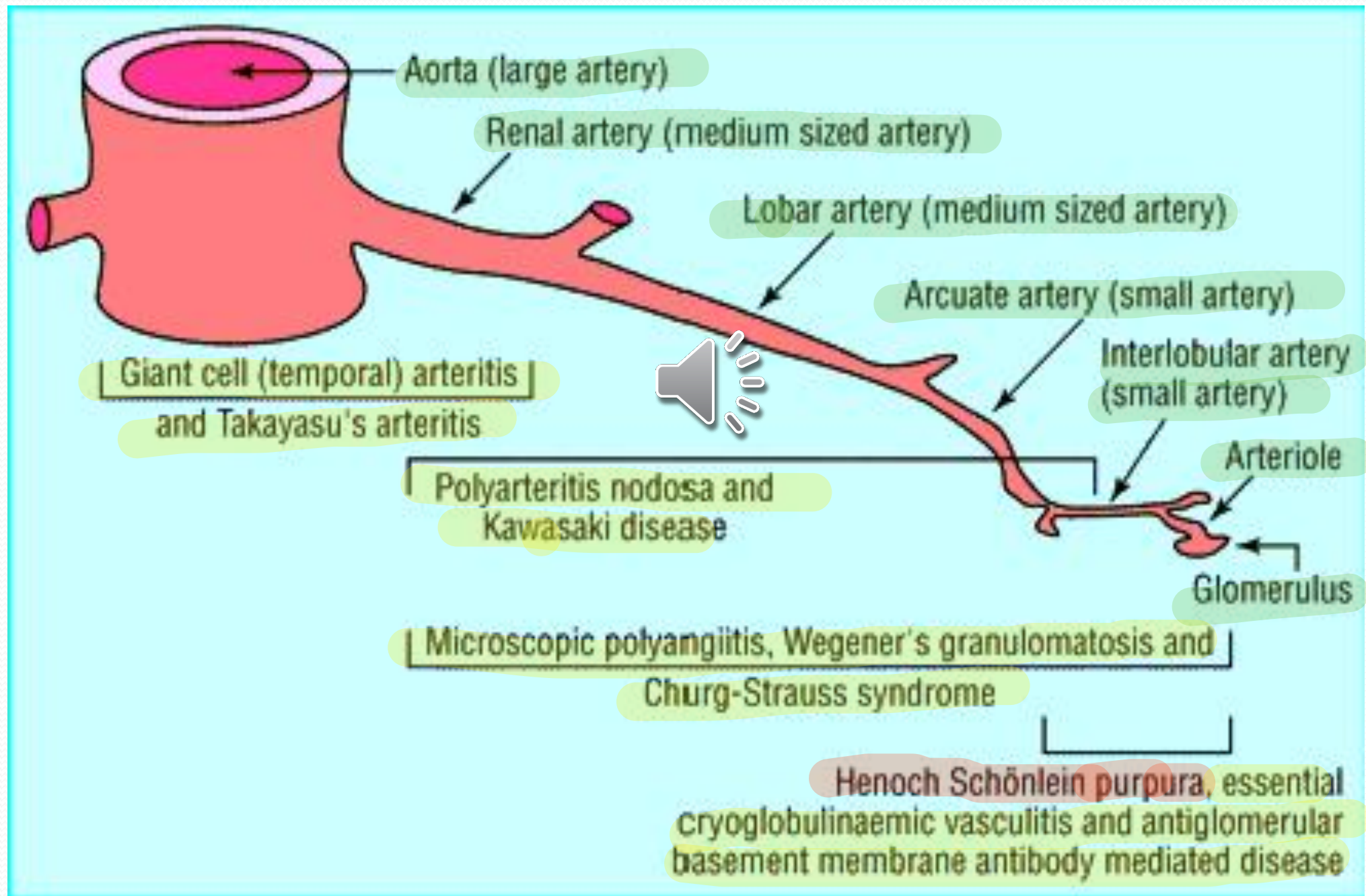
group of clinical syndromes characterized by
inflammation
of blood vessels



VASCULITIS

- systemic diseases can affect many different organ systems
- difficult to diagnose: challenging clinical picture even for experienced clinicians
- can be life-threatening

classification



Approach to Vasculitis



General Approach to Vasculitis



Slap at it

When should vasculitis be suspected

- MULTISYSTEM inflammatory disease
- Significant CONSTITUTIONAL SYMPTOMS
- RAPIDLY PROGRESSIVE organ dysfunction
- HIGH ESR
SEVERE anemia
PLATELETS > 500K



CLINICAL FEATURES PARTICULARLY

SUGGESTIVE of small vessel inflammation:

- SKIN: palpable purpura *
- LUNGS: pulmonary infiltrates /
hemoptysis
- KIDNEY: active urinary sediment
 - NEURO: foot drop

General Approach to Vasculitis



Early diagnosis

HISTORY: **PATIENT'S STORY**

get careful CHRONOLOGY

.....*PROBLEMS*

PHYSICAL EXAM: **BODY'S STORY**

thoughtful, thorough

.....*MORE PROBLEMS*

LABORATORY: **BEHIND-THE-SCENES STORY**

Basic CBC, CHEMS, LFTs, UA/micro, CXR

.....*MORE PROBLEMS*

SYSTEMIC VASCULITIS ?

- Are there additional tests which could help confirm this suspicion?
- Serologic tests
- Imaging studies
- Tissue biopsy

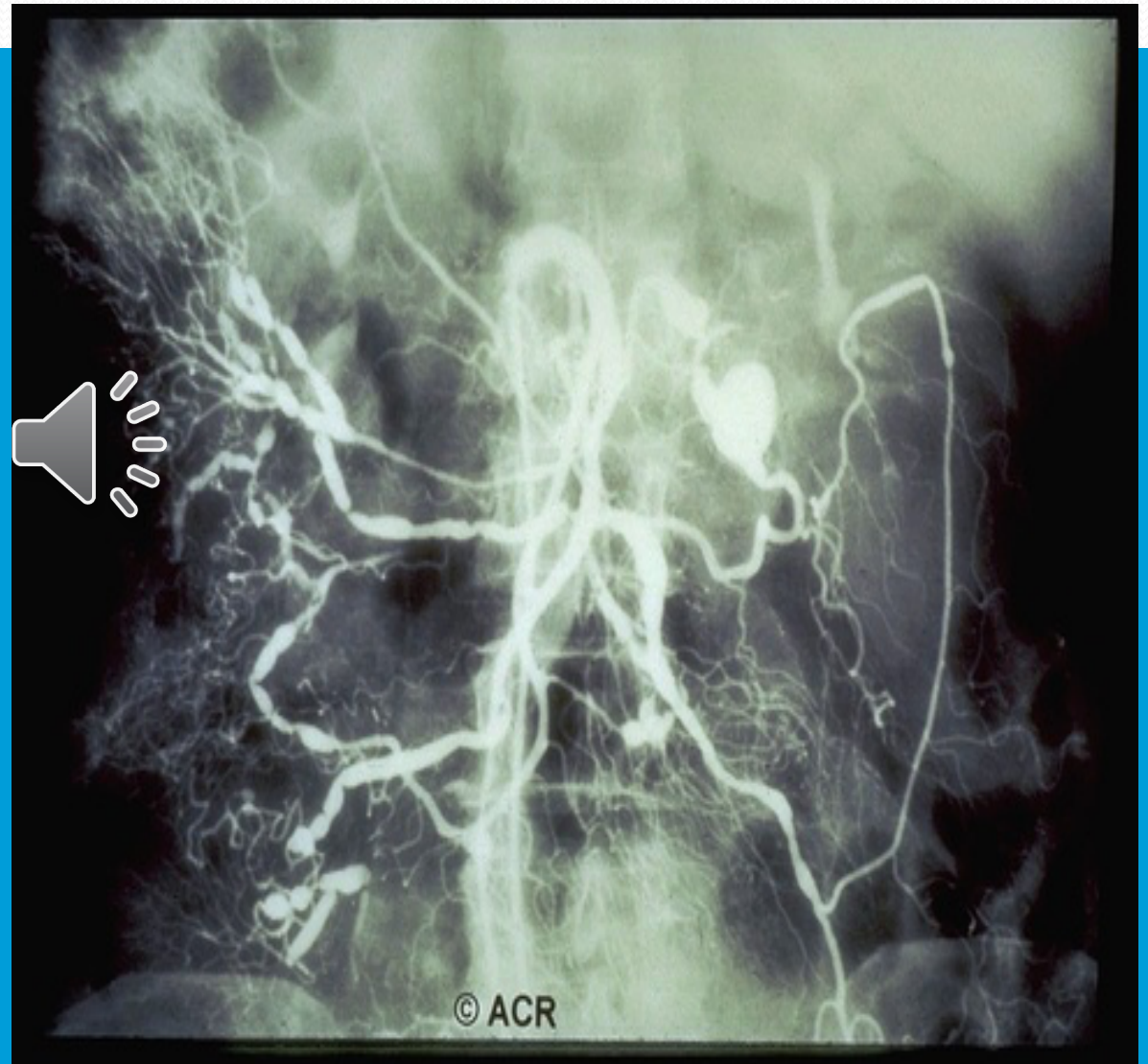
Serologic tests

- 1 • ANCA
 - 2 • Hepatitis B surface antigen
 - 3 • Hepatitis C, C3 & C4
 - 4 • HIV
 - 5 • ANA
 - 6 • ACA, "lupus" anticoag panel
- 

VASCULITIS: additional testing

Imaging studies

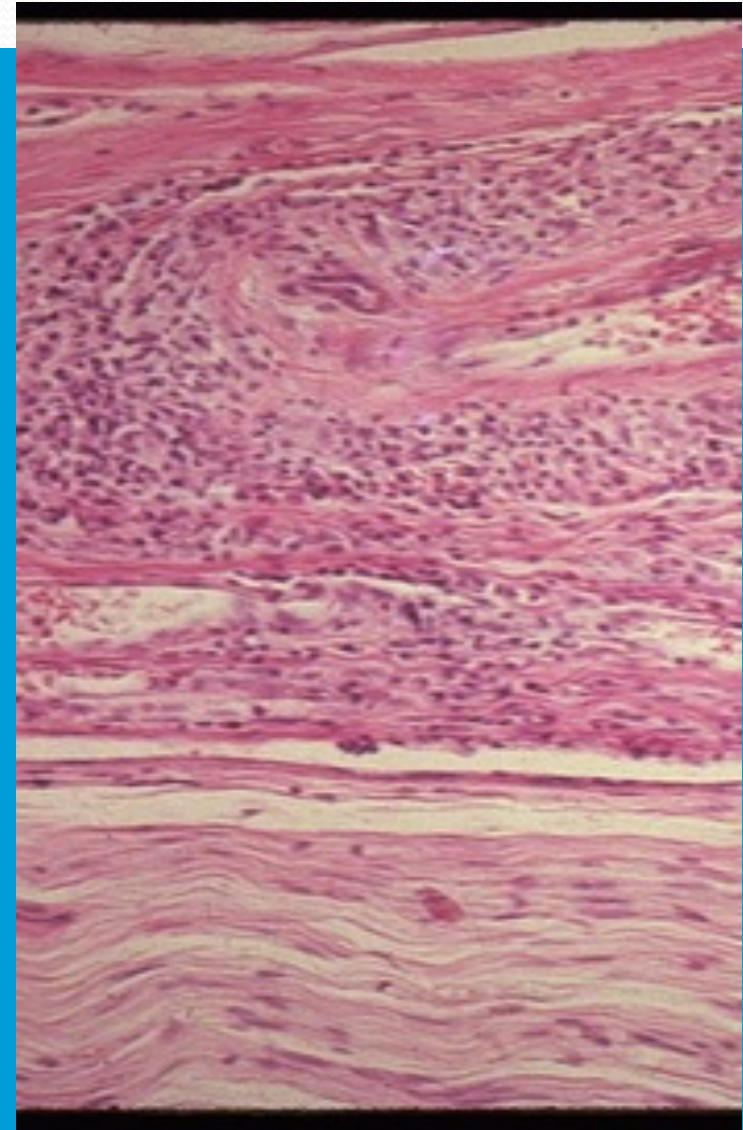
- Sinus CT scan Wegner granuloma
- Chest CT scan Poly angitis
- Mesenteric angiogram Git vasculitis



VASCULITIS: additional testing

Tissue biopsy

- Temporal artery
- Sural nerve
- Muscle
- Lung
- Renal



Clinical Manifestations

Systemic

Fever, sweats,
weight loss

Skin

Palpable Purpura

Neurologic

Mononeuritis Multiplex

Musculoskeletal

Arthralgia / arthritis

Muscle pain / claudication



• Respiratory

- Sinusitis / Epistaxis
- Pulmonary infiltrates

• Gastrointestinal

- Abdominal Pain
- Bloody stools

• Renal

- Glomerulonephritis
- Hypertension

CUTANEOUS

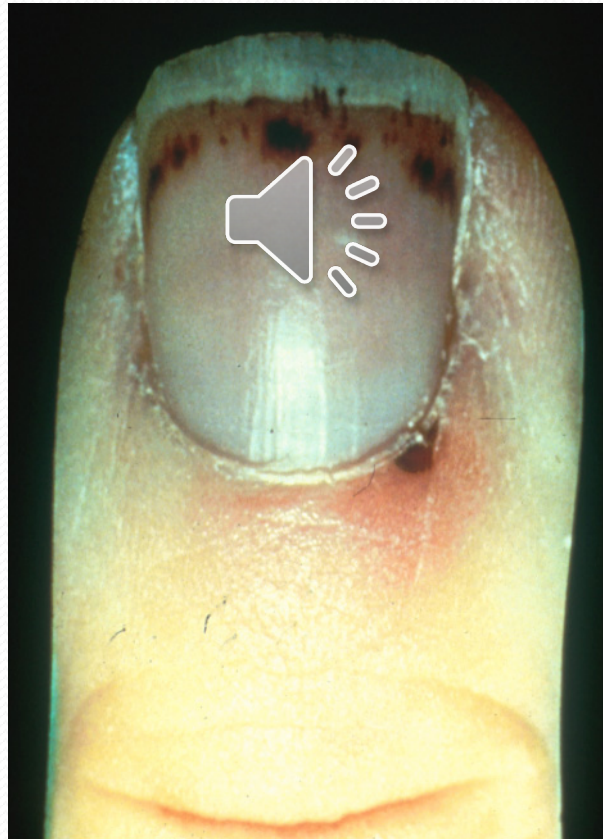
- Palpable Purpura



Livedo Reticularis

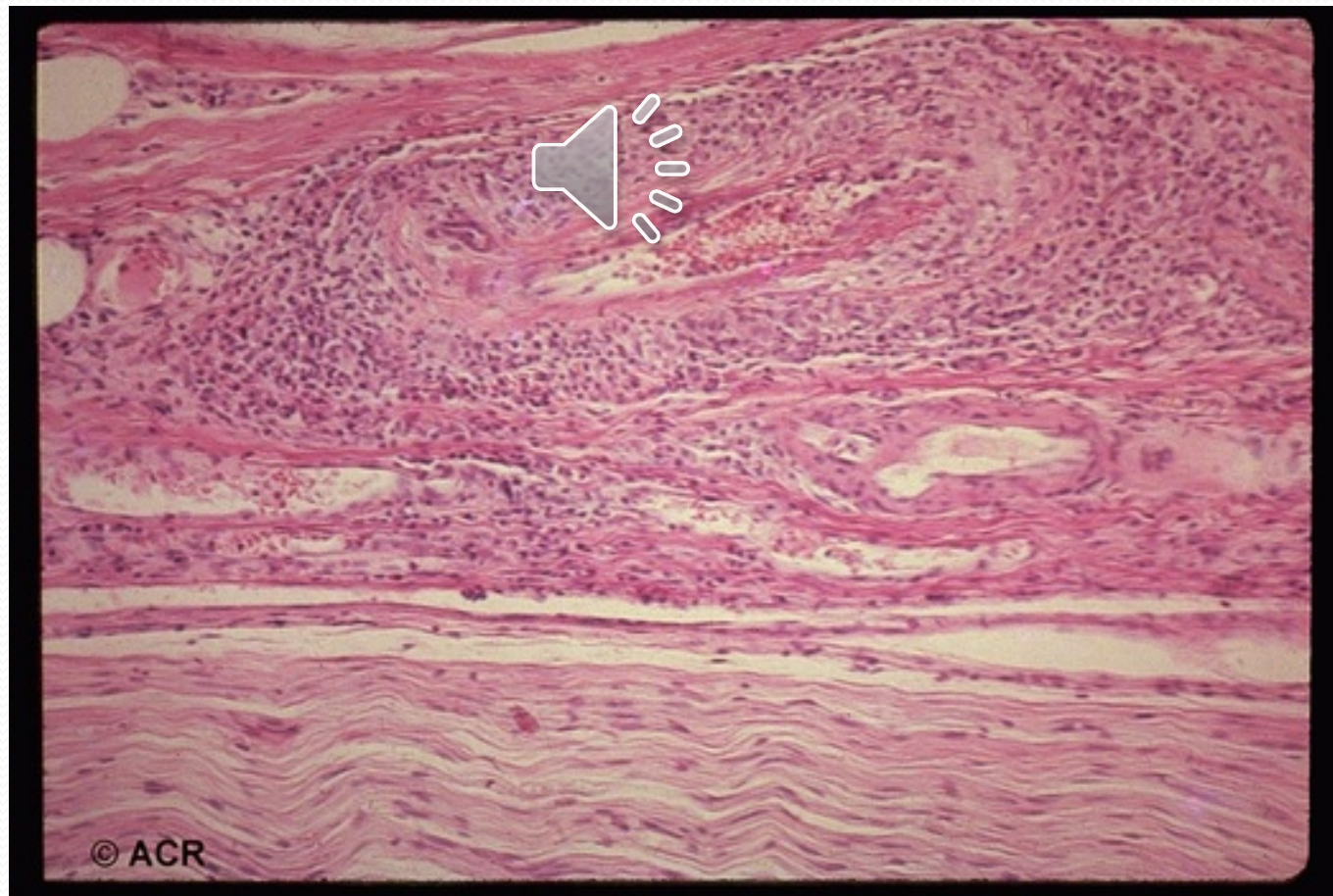


Splinter Hemorrhages



NEUROLOGIC

- Mononeuritis multiplex:
FOOT DROP



Sural nerve biopsy showing vasculitis

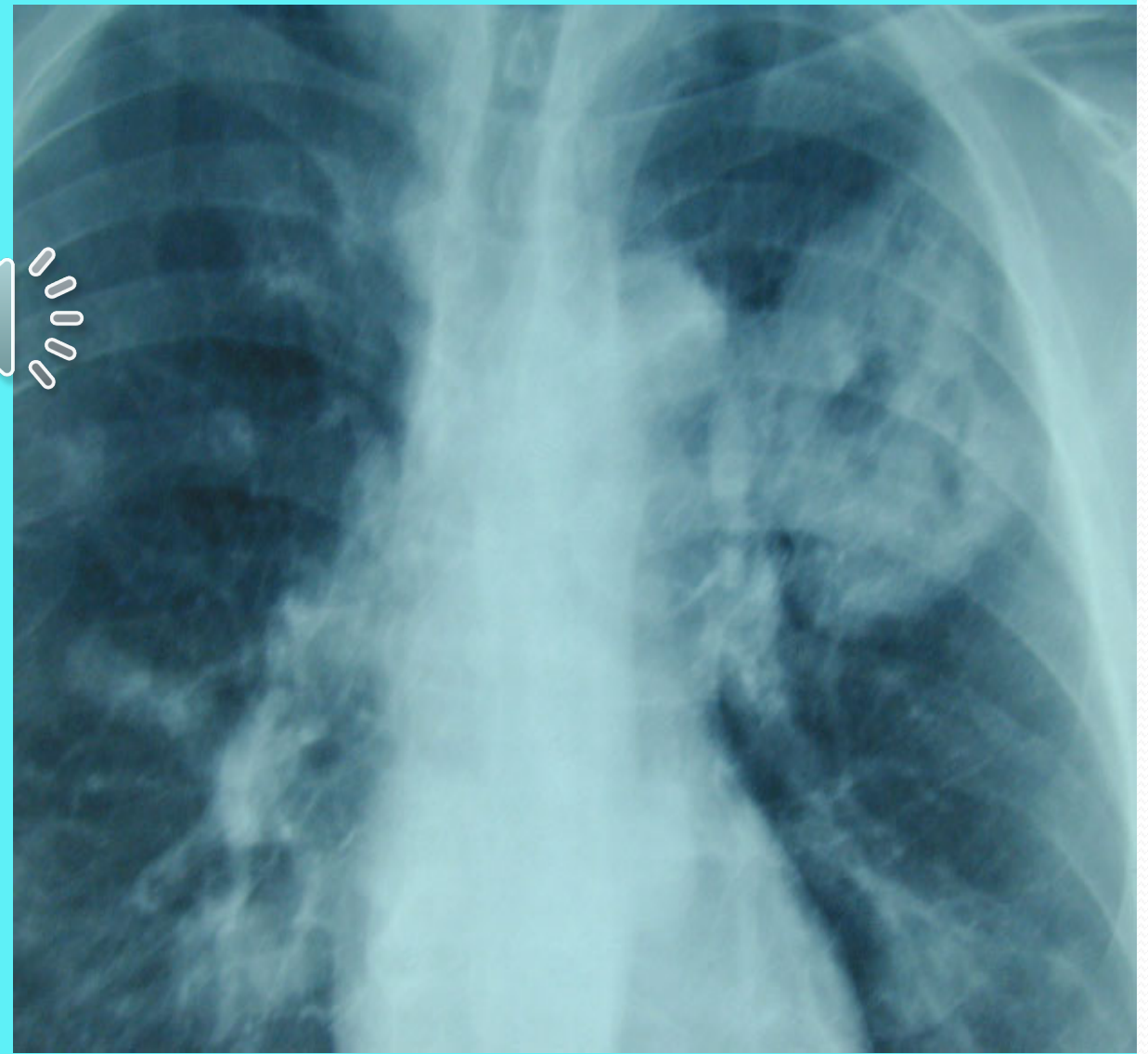
RESPIRATORY: upper

- Sinusitis
- Or.....



RESPIRATORY: lower

- Pulmonary infiltrates
- Nodules
- Cavities



GENITOURINARY

- Glomerulonephritis
 - Hypertension
 - Hematuria
 - RBC casts
-
- Testicular pain
(especially PAN)

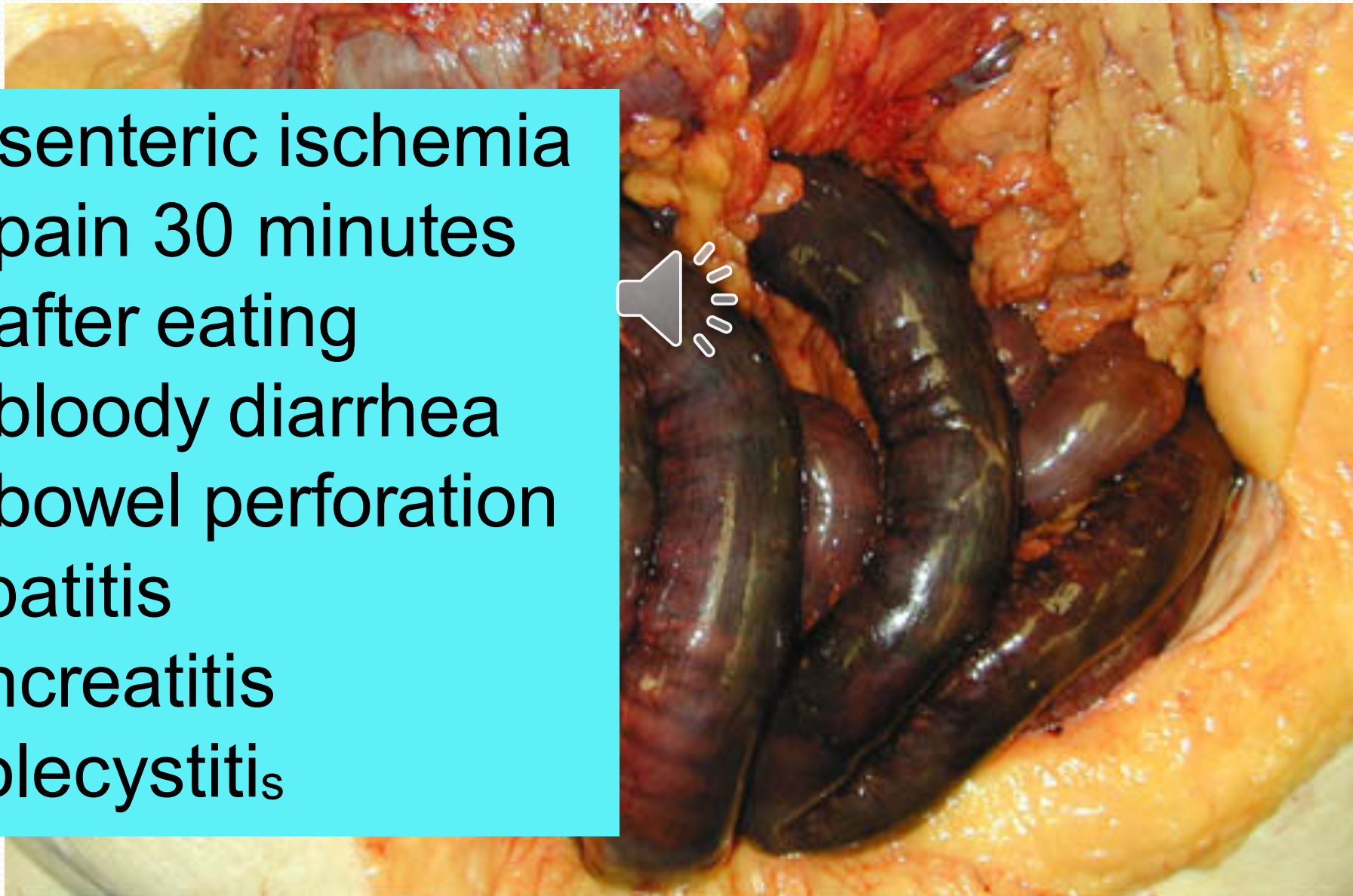


MUSCULOSKELETAL

- Polyarthralgias - common
- Polyarthritides - less common
- Myalgias - common 
- Myositis - biopsy may demonstrate vasculitis in muscle

GASTROINTESTINAL

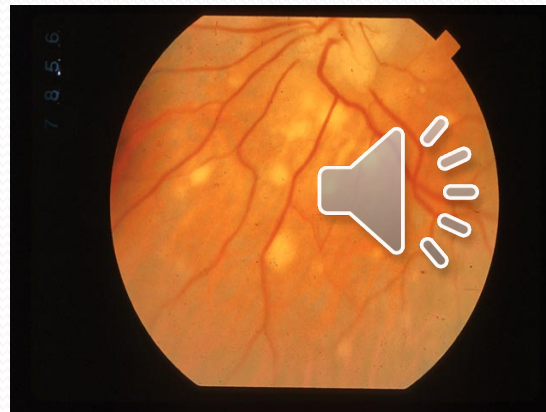
Mesenteric ischemia
pain 30 minutes
after eating
bloody diarrhea
bowel perforation
hepatitis
pancreatitis
cholecystitis



OCULAR Scleritis



Retinal Vasculitis



<http://www.uveitis.org/images/sarcoid6.jpg>

Iritis



eyelearn.med.utoronto.ca/.../RedEye/10Sclera.htm

<http://webmedia.unmc.edu/eye/iritis.jpg>

Common Laboratory Findings

INFLAMMATION:

1 Elevated ESR (can be > 100)

2 Elevated CRP

3 Leukocytosis

4 Thrombocytosis

5 Anemia

6 Low Albumin



VASCULITIS MIMICS

- **INFECTIOUS DISEASES**

- Endocarditis
- HIV

- **DRUGS**

- Cocaine
- Methamphetamine

- **CHOLESTEROL EMBOLI**

- **ANTIPHOSPHOLIPID ANTIBODY SYNDROME**



- This the end of 1st part
- Next part involved examples of vasculitis

