

# LYMPHADENOPATHY

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## Medical History

- Duration of symptoms
- Social history
  - sick contacts
  - travel exposure
    - tuberculosis endemic area
  - animal exposure
  - occupational exposure
    - silicon
    - beryllium
- Medications:
  - allopurinol
  - beta blockers
  - captopril
  - carbamazepine
  - cephalosporins, etc.
- Constitutional symptoms

## Physical Exam

- Location
  - specific distribution
  - generalized
- Size
  - non-enlarged (<1cm)
  - enlarged (>1cm)
- Tenderness
  - painful
  - non-painful to touch
- Consistency
  - hard / soft
  - rubbery
  - matted
- Infiltration
- stromal fibrosis

## Lymphadenopathy

### Localized

Related to lymph node drainage areas

#### Cervical

- EBV
- CMV
- HIV
- Toxo
- TB
- Lymphoma
- Head / Neck SCC
- Melanoma

#### SuprACLAVICULAR

- Virchow's Node
- Thoracic or Abdominal cancer
- Thyroid / larynx disease
- Tuberculosis

#### Axillary

- Infection
  - cat scratch
  - Tularemia
- Breast Cancer

#### Inguinal

- Sexually transmitted infections (STI)

### Generalized

#### Benign

##### Auto-immune

- Dermatomyositis
- Rheumatoid Arthritis
- Sjögren's

#### Malignant

- Lymphoma
- Angioimmunoblastic T-cell lymphoma

##### Infection

- Acute HIV
- EBV
- Mycobacterial
  - disseminated tuberculosis

##### Miscellaneous

- Castleman's
- Sarcoidosis

##### Medications

- Allupurinol
- Beta-Blockers
- Anti-epileptic drugs (AEDs)



• Think: **MIAMI**

- (M)alignancy, (I)nfection, (A)utoimmune, (M)iscellaneous, (I)atrogenic- i.e. drugs)



• Pearl: Many etiologies can cause localized and/or generalized LAD.  
Distinction is not always absolute!

## Differential Diagnosis

## Laboratory Evaluation

\*\*actual lab selection is patient-case specific\*\*

### General

- CBC with diff
- BMP
- Uric acid level
- LFTs
- LDH level

### Rheumatologic

- ANA
- Anti-dsDNA

### Infectious

- HIV
- PPD/Tspot
- EBV
- Monospot
- Hep A, Hep B
- RPR
- Viral load
  - HIV
  - CMV
  - Hep C



### Diagnostic Work-Up

• **1st** - Cross-sectional imaging
 

- CT Chest, Abdomen, Pelvis
- assists with lymphadenopathy surveillance

• **2nd** - PET scan
 

- define size/distribution of lymphadenopathy
- monitor progression

• **3rd** - Confirmatory lymph node tissue biopsy
 

- **Excisional biopsy:** Gold Standard
  - preserves architecture

- **Core needle biopsy:** When LN is not accessible

- **Fine needle aspiration:** Less preferred

- loss of architectural information
- often used for thyroid nodules

**Management** Address the underlying cause of LAD!