**Work-Up of LEUKOCYTOSIS**

**RISK FACTORS:**
- add info here

**PRACTICE POINTS:**
- add info here

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**Leukocytosis (>11)**
- Blood Smear AND History & Physical Exam
  - include nodes and spleen

**Myeloid Cells**
- Basophils
  - Concerning Features
    - Count >2 or increasing, or persistent
    - Not explained by infection
    - Dysplasia
    - Immature forms
    - Anemia/thrombocytopenia
  - Rule out
    - Cancer
    - Collagen VD
    - Chronic infection
    - Marrow recovery
  - REFER TO CCMB

- Monocytes
  - Concerning Features
    - Count >50
    - Promyelocytes and myelocytes
    - Dysplasia
    - Basophilia
    - Splenomegaly
    - *NOT associated with acute infection*
  - Persistent despite resolution of reactive process
  - Treat and Observe for recovery
  - REFER TO CCMB

- Neutrophils
  - Concerning Features
    - Count >2 or increasing or persistent
    - Dysplasia
    - Anemia
    - New organ damage
    - NOT explained by infection, allergies or collagen vascular disease
  - Rule out
    - Drugs
    - Infections
    - Allergies
    - Collagen Vascular Disease
  - REFER TO CCMB

- Eosinophils (>0.5)
  - Concerning Features
    - Count >2 or increasing, or persistent
    - Dysplasia
    - Anemia
    - New organ damage
    - NOT explained by infection, allergies or collagen vascular disease
  - Rule out
    - Drugs
    - Infections
    - Allergies
    - Collagen Vascular Disease
  - Treat and Observe for recovery

**Lymphocytes (>3.5)**
- Refer to Lymphocytes Pathway
Work-Up of LYMPHOCYTOSIS

**Risk Factors:**

**Practice Points:**

### Work-Up of LYMPHOCYTOSIS

1. **Lymphocytes (>3.5, repeated)**
   - **Any of these Concerning Features**
     - Lymphocytes >30
     - Hgb <100
     - Night sweats/weight loss
     - Splenomegaly
   - **Flow Cytometry**
   - **AND**
   - **Rule out secondary causes**
   - **Persist**
   - **Refer to CCMB**

2. **“Reactive” Lymphocytes**
   - Patient symptoms of infection or acute illness
   - **Flow Cytometry**
   - **Normal / Polyclonal**
     - **Refer to CCMB**
   - **Abnormal / Clonal**
     - **B Cells**
     - **T Cells**
     - **NK Cells**
   - **Refer to CCMB**

3. **Work-up for secondary causes**
   - **Refer to CCMB**

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George IT. Hematology, 475-484, 2012 (Adapted) January 23, 2015: Hematology DSG In Review (Johnston)