**INDICATIONS FOR TESTING**
Complement deficiency suspected
(recurrent bacterial infections, especially *Streptococcus pneumoniae*, *Neisseria* spp; autoimmune disorders)

- Total Complement Activity (CH50)
- Alternative Complement Activity (AH50)
- Also consider evaluation for immunoglobulin disorders

**Normal CH50 and AH50 AND High suspicion for Complement deficiency**
- Mannose Binding Lectin (MBL)
  - Low or absent MBL
    - Lectin pathway component deficiency

**Low or absent CH50 Normal AH50**
- Classical pathway component deficiency
  - Consider any or all of the following:
    - C1, C2, C4 levels or function testing
    - C1 esterase testing if angioedema present

**Low or absent CH50 and AH50**
- Terminal pathway component deficiency
  - Consider any or all of the following:
    - C3, C5, C6, C7, C8, C9 levels or function testing
    - Factor H, I levels

**Normal CH50 Low or absent AH50**
- Alternate pathway component deficiency
  - Consider any or all of the following:
    - Properdin levels or function testing
    - Factor B, D, levels

**Multiple components abnormal**

**No**
- Consider genetic testing if hereditary deficiency suspected

**Yes**
- Suggests disorder associated with complement consumption

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