**INDICATIONS FOR TESTING**
- Recurrent angioedema (without urticaria)
- Recurrent episodes of abdominal pain and vomiting
- Laryngeal edema
- Positive family history for angioedema

**ORDER**
C-1-Esterase Inhibitor Panel (includes complement component 4)

**C4, C1-INH protein quantities normal**
- Confirm C4, C1-INH normal during attack

**C4 quantity low but C1-INH protein normal or elevated**
- Determine C1-INH function
  - C1-INH function normal
  - C1-INH function decreased

**C4 and C1-INH protein quantities decreased**
- Consider angioedema types other than HAE types I and II
  - HAE type IV (familial)
  - Medications (eg, ACE inhibitors)
  - Estrogen-related
  - Factor XII related
  - Other

**Diagnosis: Angioedema due to C1-INH deficiency**
Confirm by second measurement of C4 and C1-INH quantity and function

**Family history of angioedema**
- Measure C1Q
  - Earlier age of onset and/or C1Q normal
  - Later age of onset and/or low C1Q

**No family history of angioedema**
- Hereditary angioedema
- Acquired angioedema