Consider Hereditary Angioedema (HAE):
- Recurrent angioedema (without urticaria)
- Recurrent episodes of abdominal pain and vomiting
- Laryngeal edema
- Positive family history of angioedema

Measure: serum complement factor 4 (C4), C1 inhibitor (C1-INH) antigenic protein. C1 inhibitor (C1-INH) functional level if available.

- C4 and C1-INH protein quantities decreased
  - Confirm decreased C4 and C1-INH protein by second measurement
    - Family history of angioedema
      - HAE-C1INH-Type I
        - Earlier age of onset and C1q normal
          - Consider Acquired Angioedema
        - Later age of onset and/or low C1q
          - Measure C1q and consider age of onset of symptoms
    - No family history of angioedema
      - Measure C1q and consider age of onset of symptoms

- C4 quantity low but C1-INH protein normal or elevated
  - Determine C1-INH function and repeat C4 and C1-INH protein levels
    - C1-INH function normal
      - Consider other non-HAE causes of C4 consumption
    - C1-INH function decreased
      - HAE-C1INH-Type II

- C4, C1-INH protein normal
  - Confirm C4, C1-INH normal during attack
    - Consider angioedema (AE) types other than HAE-C1-INH types I and II
      - AE from Medications
        - Eg. ACE inhibitors
      - HAE Type III
        - HAE-FXII
        - HAE-unknown