Hereditary Angioedema Diagnostic Algorithm Consider Hereditary Angioedema (HAE): Recurrent angioedema (without urticaria) Recurrent episodes of abdominal pain and vomiting Canadian Laryngeal edema **HAE Network** 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 C4 quantity low but C4, C1-INH protein C1-INH protein normal quantities decreased normal or elevated Determine C1-INH Confirm C4, C1-INH Confirm decreased C4 and C1-INH protein function and repeat C4 normal during attack by second measurement and C1-INH protein levels Family history No family Consider angioedema (AE) C1-INH C1-INH of angioedema history of types other than HAE-C1function function INH types I and II angioedema decreased normal **AE from Medications** Eg. ACE inhibitors HAE-Measure C1q and C1INHconsider age of **HAE Type III** Consider HAE-Type I onset of symptoms - HAE-FXII other C1INH-- HAE-unknown non-HAE Type II causes of C4 consumption Earlier age of Later Age of onset onset and C1q and/or low C1q normal Consider Acquired Angioedema

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