C4 level WNL

HAE unlikely: consider other causes such as type 3 HAE and idiopathic

C1-INH level and function below normal range

C1q WNL

HAE type 1

C1-INH level within normal range, but functionally below range

C1q WNL

HAE type 2

C1-INH level and function below normal range

C1q level below normal range

Acquired C1-INH deficiency

Rule out underlying malignancy and autoimmune disorders with anti-C1-INH auto-antibodies

C4 level decreased

HAE likely: confirm the diagnosis by measuring the C1-INH in serum by quantitative and functional assay and the C1q

C4 level WNL

Review all medications

Stop all medications known to cause angioedema, such as ACE inhibitors, NSAIDs, estrogens

Measure the C4 complement level in serum to screen for C1-INH deficiency

Angioedema (without urticaria)