INDICATIONS FOR TESTING
Recurrent ulcers, diarrhea, GERD

ORDER
Gastrin testing
AND
Gastric acid analysis
(patients receiving PPIs must cease use for 2 wks)

>1,000 pg/mL
Gastric pH <2

Zollinger-Ellison syndrome

≤1,000 pg/mL
Gastric pH ≥2

If available, perform a secretin stimulation test
(administer human secretin 0.4 mcg/kg of body weight over 1 min; collect samples for serum gastrin testing at 1, 2, 5, 10, 30 mins postinjection)

Increase over baseline gastrin ≥120 pg/mL

CT/MRI, endoscopic ultrasound

Yes

No

If family history indicates, evaluate for the possibility of MEN1

Reevaluate in 3-6 mos

Abbreviations
CT Computed tomography
GERD Gastroesophageal reflux disease
MEN1 Multiple endocrine neoplasia type 1
MRI Magnetic resonance imaging
PPI Proton pump inhibitor