

Table 2: *Secretory syndromes in patients with hormonally active GEP-NENs*

Tumor type	Symptoms/Findings	Substances responsible
Midgut NETs with liver metastases	Carcinoid syndrome (diarrhea, flushing, wheezing, carcinoid heart disease)	Serotonin, bradykinin, histamine, prostaglandins
Insulinoma	Hypoglycemia	Insulin
Gastrinoma	Multiple gastric ulcers, abdominal pain, diarrhea	Gastrin
VIPoma	Watery diarrhea, hypokalemia, achlorhydria (WHDA syndrome)	VIP
Glucagonoma	Diabetes, diarrhea, stomatitis, weight loss, necrolytic migratory erythema	Glucagon

Abbreviations: GEP-NEN, gastroenteropancreatic neuroendocrine neoplasm; NET, neuroendocrine tumor; VIP, vasoactive intestinal peptide.