Supplementary Table 3. Keyword normalization dictionary

Original term	Standardized term
anaemia, severe anemia	anemia
vitamin C	ascorbic acid
atrophic body gastritis, atrophic, chronic atrophic gastritis, metaplastic atrophic gastritis, corpus-predominant gastritis, corpus-restricted atrophic gastritis	atrophic gastritis
autoantibodies	autoantibody
autoimmune diseases	autoimmune disease
autoimmune atrophic gastritis, type a gastritis, autoimmune metaplastic atrophic gastritis, gastric autoimmunity, amag, chronic autoimmune gastritis, chronic atrophic autoimmune atrophic gastritis, chronic autoimmune atrophic gastritis, experimental autoimmune gastritis, autoimmune gastritis (aig), atrophic autoimmune gastritis, aig, type A autoimmune gastritis	autoimmune gastritis
polyglandular autoimmune syndrome, aps, autoimmune polyglandular syndrome type 3, autoimmune polyglandular syndromes	autoimmune polyglandular syndrome
autoimmune thyroiditis, hypothyroidism, autoimmune thyroid diseases, hashimoto's thyroiditis, graves disease, graves' disease, thyroid autoimmune disease, chronic thyroiditis	autoimmune thyroid disease
coeliac disease	celiac disease
chromogranin	chromogranin a
cytokines	cytokine
enterochromaffin-like cells, enterochromaffin-like cell	ecl cell
enterochromaffin-like cell hyperplasia, ecl-cell hyperplasia, ecl hyperplasia	ecl cell hyperplasia
endoscopic submucosal dissection	endoscopic resection
eradication therapy, eradication of *Helicobacter pylori*	eradication
adenocarcinoma of esophagogastric junction, barretts adenocarcinoma, cardioesophageal carcinoma	esophagogastric junction cancer
acid secretion, gastric acid secretion, gastric acidity, h+	gastric acid
atrophy, corpus atrophy, corpus-predominant atrophy	gastric atrophy
gastric biopsies	gastric biopsy
gastric adenocarcinoma, adenocarcinoma, gastric carcinoma, stomach neoplasms, early gastric cancer, cancer, malignancy, gastric neoplasm, gastric neoplasms, stomach cancer, atrophic gastritis gastric cancer, carcinoma, diffuse-type gastric cancer, early gastric cancer (egc), stomach neoplasm	gastric cancer
carcinogenesis	gastric carcinogenesis
corpus	gastric corpus
dysplasia	gastric dysplasia
mucosal immunity	gastric mucosal immunity
gastric carcinoid, gastric neuroendocrine tumors, neuroendocrine tumor, carcinoid, neuroendocrine tumors, gastric carcinoids, neuroendocrine, carcinoid tumor, carcinoids, net, neuroendocrine neoplasm, gastric carcinoid tumor, gastric neuroendocrine neoplasm, neuroendocrine neoplasia, neuroendocrine tumor (net), neuroendocrine tumour, neuroendocrine tumours	gastric neuroendocrine tumor
gastric polyps	gastric polyp
gastrin-17, gastrin 17, gastrins, gastrin g17, serum gastrin, serum gatrin-17	gastrin
gastro-oesophageal reflux disease, gerd, reflux esophagitis, gord, reflux oesophagitis	gastroesophageal reflux disease
gastropanel (r)	gastropanel
genetic polymorphisms, single nucleotide polymorphisms	genetic polymorphism
h. pylori, pylori, caga, helicobacter, *helicobacter pylori*, *h pylori*, *h-pylori*, *h. pylori* infection, helicobacter infection, helicobacter pylon, *helicobacter pylori* infection	*helicobacter pylori*
helicobacter pylori antibodies, caga antibodies	*helicobacter pylori* antibody
type b gastritis, *h. pylori*-associated gastritis	*helicobacter pylori* gastritis
pathology, histology	histopathology
hypergastrinaemia, stimulated gastrinemia	hypergastrinemia
gastric hyperplastic polyps, gastric hyperplastic polyp, hyperplastic polyps	hyperplastic polyp
interleukin-8	il-8
gastric intestinal metaplasia	intestinal metaplasia
intrinsic factor antibodies, anti-intrinsic factor antibody, anti-intrinsic factor antibodies	intrinsic factor antibody
iron deficiency, iron deficiency anaemia, iron-deficiency anemia, hemolytic anemia, refractory iron-deficiency anemia, refractory iron-deficient anemia	iron deficiency anemia
gastric metaplasia	metaplasia
parietal cells, gastric parietal cell	parietal cell
anti-parietal cell antibody, parietal cell antibodies, anti-parietal cell antibodies, gastric parietal cell antibody, parietal cell autoantibodies, antigastric parietal cell antibody	parietal cell antibody
pepsinogen i, pepsinogens, serum pepsinogens, pepsinogen ii, serum pepsinogen i	pepsinogen
peptic ulcer disease	peptic ulcer
pernicious anaemia, megaloblastic anemia, macrocytic anemia	pernicious anemia
h/k aptase, h+,k+-atpase, h+/k+ atapse, h+/k+-atpase, h,k-atpase	proton pump
proton pump inhibitors, omeprazole, ppi	proton pump inhibitor
regulatory t cells, th17, regulatory t cell, t lymphocytes, suppressor t cells, th2, treg cells	t cells
spasmolytic polypeptide-expressing metaplasia, spasmolytic polypeptide-expressing metaplasia (spem)	spem
updated sydney system	sydney system
type 1 diabetes mellitus, diabetes, diabetes mellitus	type 1 diabetes
vitamin b-12, cobalamin, methylcobalamin	vitamin b12
cobalamin deficiency, vitamin b-12 deficiency	vitamin b12 deficiency

Keywords occurring ≤2 times that did not require normalization were omitted from the table for clarity.