Supplementary Table 1. Keyword standardization of medical terms prior to analysis

No.	Original keywords	No.	Standardized keywords
1	ahi	1	apnea-hypopnea index
2	aspergillus	2	aspergillosis
3	biomarker	3	biomarkers
4	caldwell-luc approach	4	caldwell-luc operation
5	caldwel-luc operation		
6	adhesion molecule	5	cell adhesion molecules
7	adhesion molecules		
8	cerebrospinal fluid leak	6	cerebrospinal fluid rhinorrhea
9	csf rhinorrhea		
10	child	7	children
11	complication	8	complications
12	computed tomography scan	9	computed tomography
13	corticosteroid	10	corticosteroids
14	coronavirus	11	sars-cov-2
15	sars-cov-2		
16	dermatophagoides pteronyssinus	12	dermatophagoides
17	diabetes	13	diabetes mellitus
18	electrocautery	14	electrocauterization
19	electronmicroscopy	15	electron microscope
20	endoscopic endonasal approach	16	endoscopic endonasal surgery
21	endoscope	17	endoscopy
22	endoscopes		
23	endoscopic approach		
24	endoscopic sinus surgery		
25	nasal endoscope		
26	nasal endoscopy		
27	eosinophil	18	eosinophils
28	eosinophil infiltration		
29	epistatxis	19	epistaxis
30	epithelial cell	20	epithelial cells
31	epithelium		
32	ess	21	epworth sleepiness scale
33	foreign body	22	foreign bodies
34	fracture	23	fractures
35	fungal ball	24	fungal ball
36	fungus ball		
37	fungal	25	fungal infection
38	fungi		
39	fungus		
40	healthcare	26	health care
41	house-dust mite	27	house dust mites
42	immune	28	immunity
43	immune response		
44	newborm	29	infant
45	local anesthetics	30	local anesthesia
46	mast cell	31	mast cells
47	maxillary sinus cancer	32	maxillary sinus neoplasms
48	mucocilliary clearance	33	mucociliary clearance
49	mycetomas	34	mycetoma
50	nasal fracture	35	nasal bone fracture
51	nasal muccosa	36	nasal mucosa
52	nasal pollyp	37	nasal polyps
53	nasal polyposis		
54	polyp		
55	nasal provocation	38	nasal provocation tests
56	nasal provocation test		
57	nasal septum perforation	39	nasal septal perforation
58	nasal vestibule	40	nasal vestibule
59	nasolabial cysts	41	nasolabial cyst
60	nasal tumor	42	neoplasms
61	sinonasal tumor		
62	tumor		
63	non-odontogenic cyst	43	nonodontogenic cysts
64	otorhinolaryngology	44	otolaryngology
65	peripheral blood mononuclear cells	45	peripheral blood mononuclear cell
66	photographs	46	photograph
67	photography		
68	pituitary adenoma	47	pituitary adenomas
69	plasma cell	48	plasma cells
70	postnasal drip syndrome	49	postnasal drip
71	postoperative complication	50	postoperative complications
72	prelacrimal window approach	51	prelacrimal recess approach
73	proliferation cell nuclear antigen	52	proliferating cell nuclear antigen
74	allergic rhinitis (ar)	53	rhinitis
75	perennial allergic rhinitis		
76	rhinitis		
77	sinonasal tract	54	sinonasal tract
78	sinonasal tracts		
79	ethmoid sinus	55	sinus
80	frontal sinus		
81	maxilla		
82	maxillay		
83	paranasal sinus		
84	sinus		
85	sphenoid		
86	sphenoid sinus		
87	chronic maxillary sinusitis	56	sinusitis
88	chronic sinusitis		
89	frontal sinusitis		
90	maxillary sinusitis		
91	paranasal sinusitis		
92	rhinosinusitis		
93	sinusitis		
94	skullbase	57	skull base
95	cpap	58	sleep apnea syndromes
96	obstructive sleep apnea syndrome		sleep apnea syndromes
97	osa		
98	osas		
99	sleep apnea		
100	sleep apnea syndromes		
101	solitary fibrous tumor	59	solitary fibrous tumors
102	staphylococcus aureus exotoxins	60	staphylococcus aureus exotoxin
103	superantigen	61	superantigens
104	operations	62	surgery
105	operative		
106	surgeny		
107	surgical procedures		
108	surgical treatment		
109	surgical flap	63	surgical flaps
110	questionnaire	64	surveys and questionnaires
111	survey		
112	suture	65	sutures
113	therapeutic	66	therapeutics
114	three-dimensional image	67	three dimensional imaging
115	serum total ige	68	total ige
116	transnasal endoscopic approach	69	transnasal endoscopic surgery
117	turbinates	70	turbinate surgery
118	turbinate surgery		
119	ultrasonic bone aspirator	71	ultralsonic bone aspirator
120	x-ray computed	72	x-rays

Synonymous terms, spelling variants, abbreviations, plural forms, and typographical errors were standardized.