

## Supplementary Electronic File 1 Search terms and results

#	Database	Search term	Results
1	Medline	"Respiratory protective equipment*" OR "Respiratory protective device*" OR *"RESPIRATORY PROTECTIVE DEVICES"/ OR *"PERSONAL PROTECTIVE EQUIPMENT"/ OR *"PROTECTIVE DEVICES"/ OR "personal protective equipment*" OR "personal protective device*" OR "N95 mask*" OR "FFP3 mask*" OR "N95 Filtering facepiece*" OR "N95 facepiece*" OR ("facepiece respirator*").ti,ab	9483
2	Medline	("N95 respirator*").ti,ab	250
4	Medline	("PPE hood*").ti,ab	1
5	Medline	("Respirator Hood*").ti,ab	3
6	Medline	("Respirator Helmet*").ti,ab	3
7	Medline	(1 OR 2 OR 4 OR 5 OR 6)	9665
9	Medline	("Physical effect*" OR "physiological effect*" OR "heart rate" OR "carbon dioxide" OR "skin breakdown" OR "pressure ulcer*" OR breathing OR heat OR exhaustion OR fatigue OR anxiety OR confusion OR tolerance OR stress OR "reaction time" OR discomfort OR nasal function OR spirometer* OR Rhinomanometry OR "breathing resistance" OR "inhaled oxygen").ti,ab	1685776

10	Medline	(Adult* OR human* OR "healthcare worker*" OR "healthcare professional*" OR nurse* OR doctor* OR "occupational health" OR "intensive care unit*" OR pregnant OR pregnancy OR phenomenology OR experience).ti,ab	5158142
11	Medline	*"HEALTH PERSONNEL"/ OR *"MEDICAL STAFF"/ OR *NURSES/ OR *"NURSING STAFF"/	74747
12	Medline	("Health Care Provider*" OR "Healthcare Provider*").ti,ab	54996
13	Medline	(10 OR 11 OR 12)	5225114
14	Medline	(7 AND 9 AND 13)	276
17	CINAHL	"Respiratory protective equipment*" OR "Respiratory protective device*" OR *"RESPIRATORY PROTECTIVE DEVICES"/ OR *"PERSONAL PROTECTIVE EQUIPMENT"/ OR *"PROTECTIVE DEVICES"/ OR "personal protective equipment*" OR "personal protective device*" OR "N95 mask*" OR "FFP3 mask*" OR "N95 Filtering facepiece*" OR "N95 facepiece*" OR ("facepiece respirator*").ti,ab	5754
18	CINAHL	("N95 respirator*").ti,ab	190
19	CINAHL	("PPE hood*").ti,ab	0
20	CINAHL	("Respirator Hood*").ti,ab	3
21	CINAHL	("Respirator Helmet*").ti,ab	0
22	CINAHL	(17 OR 18 OR 20)	5797

23	CINAHL	("Physical effect*" OR "physiological effect*" OR "heart rate" OR "carbon dioxide" OR "skin breakdown" OR "pressure ulcer*" OR breathing OR heat OR exhaustion OR fatigue OR anxiety OR confusion OR tolerance OR stress OR "reaction time" OR discomfort OR nasal function OR spirometer* OR Rhinomanometry OR "breathing resistance" OR "inhaled oxygen").ti,ab	382498
24	CINAHL	(Adult* OR human* OR "healthcare worker*" OR "healthcare professional*" OR nurse* OR doctor* OR "occupational health" OR "intensive care unit*" OR pregnant OR pregnancy OR phenomenology OR experience).ti,ab	1431270
25	CINAHL	*"HEALTH PERSONNEL"/ OR *"MEDICAL STAFF"/ OR *NURSES/ OR *"NURSING STAFF"/	56623
26	CINAHL	("Health Care Provider*" OR "Healthcare Provider*").ti,ab	40229
27	CINAHL	(24 OR 25 OR 26)	1478491
28	CINAHL	(22 AND 23 AND 27)	160
29	EMBASE	"Respiratory protective equipment*" OR "Respiratory protective device*" OR *"RESPIRATORY PROTECTIVE DEVICES"/ OR *"PERSONAL PROTECTIVE EQUIPMENT"/ OR *"PROTECTIVE DEVICES"/ OR "personal protective equipment*" OR "personal	9155

		protective device*" OR "N95 mask*" OR "FFP3 mask*" OR "N95 Filtering facepiece*" OR "N95 facepiece*" OR ("facepiece respirator*").ti,ab	
30	EMBASE	("N95 respirator*").ti,ab	297
31	EMBASE	("PPE hood*").ti,ab	1
32	EMBASE	("Respirator Hood*").ti,ab	4
33	EMBASE	("Respirator Helmet*").ti,ab	7
34	EMBASE	(29 OR 30 OR 31 OR 32 OR 33)	9310
35	EMBASE	("Physical effect*" OR "physiological effect*" OR "heart rate" OR "carbon dioxide" OR "skin breakdown" OR "pressure ulcer*" OR breathing OR heat OR exhaustion OR fatigue OR anxiety OR confusion OR tolerance OR stress OR "reaction time" OR discomfort OR nasal function OR spirometer* OR Rhinomanometry OR "breathing resistance" OR "inhaled oxygen").ti,ab	2187409
36	EMBASE	(Adult* OR human* OR "healthcare worker*" OR "healthcare professional*" OR nurse* OR doctor* OR "occupational health" OR "intensive care unit*" OR pregnant OR pregnancy OR phenomenology OR experience).ti,ab	6538231
37	EMBASE	*"HEALTH PERSONNEL"/ OR *"MEDICAL STAFF"/ OR *NURSES/ OR *"NURSING STAFF"/	112237

38	EMBASE	("Health Care Provider*" OR "Healthcare Provider*").ti,ab	73810
39	EMBASE	(36 OR 37 OR 38)	6632183
40	EMBASE	(34 AND 35 AND 39)	306
41	Medline	14 [DT 1995-2020] [Languages English]	237
42	CINAHL	28 [DT 1995-2020] [Languages eng]	154
43	EMBASE	40 [DT 1995-2020] [English language] [Humans]	248
44	EMBASE, Medline	("The Experiences of Health Care Workers Employed in an Australian Intensive Care Unit During the H1N1 Influenza Pandemic of 2009: A Phenomenological Study").ti	2
45	EMBASE, Medline	("Respirator Physiological Effects Under Simulated Work Conditions").ti	1
46	EMBASE, Medline	("Headaches and the N95 Face-Mask Amongst Healthcare Providers").ti	3
47	EMBASE, Medline	("Evaluation of rebreathed air in human nasal cavity with N95 respirator: a CFD study").ti	0
48	EMBASE, Medline	("Protective Facemask Impact on Human Thermoregulation: An Overview").ti	2
49	EMBASE, Medline	("Adverse Skin Reactions to Personal Protective Equipment Against Severe Acute Respiratory Syndrome--A Descriptive Study in Singapore").ti	2
50	BNI, CINAHL, EMBASE, EMCARE, Medline	("Prevention and Treatment of Skin Damage Caused by Personal Protective Equipment: Experience of the First-Line	0

		Clinicians Treating 2019-nCoV Infection").ti	
51	EMBASE, Medline	("Postural Sway Measurements: A Potential Safety Monitoring Technique for Workers Wearing Personal Protective Equipment").ti	2
52	EMBASE, Medline	("Respirator Tolerance in Health Care Workers").ti	2
53	EMBASE, Medline	("Effects of Wearing N95 and Surgical Facemasks on Heart Rate, Thermal Stress and Subjective Sensations").ti	2
54	EMBASE, Medline	("Comparison of Nanoparticle Filtration Performance of NIOSH-approved and CE-Marked Particulate Filtering Facepiece Respirators").ti	2
55	EMBASE, Medline	("Respiratory consequences of N95-type Mask usage in pregnant healthcare workers-a controlled clinical study").ti	4
56	EMBASE, Medline	("The Effect of Physical Exertion in Chemical and Biological Personal Protective Equipment on Physiological Function and Reaction Time").ti	2
57	EMBASE, Medline	("Surgical mask placement over N95 filtering facepiece respirators: Physiological effects on healthcare workers").ti	2
	EMBASE, Medline	("Barriers and facilitators to healthcare workers' adherence with infection prevention and control (IPC) guidelines for respiratory infectious diseases: a rapid qualitative evidence synthesis").ti	2

#	Database	Search term	Results
1	Medline	("Respiratory protective equipment*").ti,ab	140
2	Medline	("Respiratory protective device*").ti,ab	133
3	Medline	**RESPIRATORY PROTECTIVE DEVICES"/ OR **PERSONAL PROTECTIVE EQUIPMENT"/ OR **PROTECTIVE DEVICES"/	5765
4	Medline	("personal protective equipment*").ti,ab	2968
5	Medline	("personal protective device*").ti,ab	81
6	Medline	("N95 mask*").ti,ab	121
7	Medline	("FFP3 mask*").ti,ab	10
8	Medline	("N95 Filtering facepiece*").ti,ab	137
9	Medline	("N95 facepiece*").ti,ab	2
10	Medline	("facepiece respirator*").ti,ab	251
11	Medline	(1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10)	8616
12	Medline	(Adult* OR human* OR "healthcare worker*" OR "healthcare professional*" OR nurse* OR doctor* OR "occupational health" OR "intensive care unit*" OR pregnant OR pregnancy OR phenomenology OR experience).ti,ab	5150321
13	Medline	**HEALTH PERSONNEL"/ OR **NURSES/ OR **MEDICAL STAFF"/ OR **NURSING STAFF"/	74629
14	Medline	("Physical effect*" OR "physiological effect*" OR	1680189

		"heart rate" OR "carbon dioxide" OR "skin breakdown" OR "pressure ulcer*" OR breathing OR heat OR exhaustion OR fatigue OR anxiety OR confusion OR tolerance OR stress OR "reaction time" OR discomfort OR nasal function).ti,ab	
15	Medline	(COVID-19 OR SARS OR H1N1 OR Influenza OR pandemic OR tuberculosis).ti,ab	317208
16	Medline	*"INFLUENZA, HUMAN"/	41244
17	Medline	("Coronavirus disease 2019").ti,ab	2958
18	Medline	("SARS-CoV-2").ti,ab	4379
19	Medline	(15 OR 16 OR 17 OR 18)	322146
20	Medline	(12 OR 13)	5187702
21	Medline	(11 AND 14 AND 19 AND 20)	38