

B.1 Clinical search literature search strategy

Searches were constructed using the following approaches:

- Population AND Prognostic/risk factor terms AND Study filter(s)

Table 23: Database date parameters and filters used

Database	Dates searched	Search filter used
Medline (OVID)	1946 – 7 July 2020	Exclusions Observational studies
Embase (OVID)	1974 – 7 July 2020	Exclusions Observational studies

Medline (Ovid) search terms

1.	exp Sleep Apnea Syndromes/
2.	(sleep* adj4 (apn?ea* or hypopn?ea*)).ti,ab.
3.	(sleep* adj4 disorder* adj4 breath*).ti,ab.
4.	(OSAHHS or OSA or OSAS).ti,ab.
5.	(obes* adj3 hypoventil*).ti,ab.
6.	pickwick*.ti,ab.
7.	or/1-6
8.	limit 7 to English language
9.	letter/
10.	editorial/
11.	news/
12.	exp historical article/
13.	Anecdotes as Topic/
14.	comment/
15.	case report/
16.	(letter or comment*).ti.
17.	or/9-16
18.	randomized controlled trial/ or random*.ti,ab.
19.	17 not 18
20.	animals/ not humans/
21.	exp Animals, Laboratory/
22.	exp Animal Experimentation/
23.	exp Models, Animal/
24.	exp Rodentia/
25.	(rat or rats or mouse or mice).ti.
26.	or/19-25
27.	8 not 26
28.	exp "signs and symptoms"/
29.	symptom assessment/
30.	diagnosis/ or prognosis/
31.	(clinical adj3 (manifestation* or feature* or finding* or aspect* or marker*)).ti,ab.
32.	(presenting adj3 (feature* or finding* or factor*)).ti,ab.
33.	presentation*.ti,ab.
34.	(physical adj3 (manifestation* or characteristic* or feature* or finding*)).ti,ab.

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35.	(sign or signs or symptom* or recogni* or identif* or complain*).ti,ab.
36.	(diagnos* or prognos* or assess* or criteria* or predict*).ti,ab.
37.	or/28-36
38.	Snoring/
39.	(snore* or snoring).ti,ab.
40.	((unrefresh* or un-refres* or daytime or day-time or fragment*) adj3 sleep*).ti,ab.
41.	(nocturia or tired* or insomnia* or headache* or somnolence or drows* or fatigue* or sleepiness).ti,ab.
42.	(ankle* adj3 (swell* or swollen)).ti,ab.
43.	((elevate* or high*) adj3 (hemoglobin or haemoglobin or hb or hgb)).ti,ab.
44.	(cognitive dysfunction* or brian fog or memor* impairment*).ti,ab.
45.	or/38-44
46.	((resistan* or nocturnal or nondipping or non-dipping) adj2 hypertension).ti,ab.
47.	(resistan* adj2 arrhythmia*).ti,ab.
48.	((atrial or atria or atrium or auricular) adj3 fibrillat*).ti,ab.
49.	*Atrial Fibrillation/
50.	((diabet* adj2 (type 2 or type ii)) or T2D).ti.
51.	((diabetic macular adj (odema or edema)) or DME).ti,ab.
52.	*Aortic Aneurysm/
53.	aortic aneurysm*.ti,ab.
54.	((heart or cardiac or myocardial) adj2 (failure or decompensation)).ti,ab.
55.	*Heart Failure/
56.	*cardiovascular diseases/ or *cardiovascular abnormalities/ or *cardiovascular infections/ or *heart diseases/ or *vascular diseases/
57.	(cardiovascular adj2 event*).ti,ab.
58.	*Stroke/
59.	(stroke or strokes).ti,ab.
60.	*Down Syndrome/
61.	(down* syndrome* or mongolism or trisomy 21).ti,ab.
62.	*Acromegaly/
63.	acromegal*.ti,ab.
64.	((Body mass index or BMI) adj2 >30).ti,ab.
65.	exp *Obesity/ or exp *Overweight/
66.	(obesity or obese or overweight or over-weight or over weight).ti.
67.	or/46-66
68.	27 and (37 or 45 or 67)
69.	Epidemiologic studies/
70.	Observational study/
71.	exp Cohort studies/
72.	(cohort adj (study or studies or analys* or data)).ti,ab.
73.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
74.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
75.	Controlled Before-After Studies/
76.	Historically Controlled Study/

77.	Interrupted Time Series Analysis/
78.	(before adj2 after adj2 (study or studies or data)).ti,ab.
79.	or/69-78
80.	exp case control studies/
81.	case control*.ti,ab.
82.	or/80-81
83.	79 or 82
84.	Cross-sectional studies/
85.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
86.	or/84-85
87.	79 or 86
88.	79 or 82 or 86
89.	68 and 88

Embase (Ovid) search terms

1.	exp Sleep Disordered Breathing/
2.	(sleep* adj4 (apn?ea* or hypopn?ea*)).ti,ab.
3.	(sleep* adj4 disorder* adj4 breath*).ti,ab.
4.	(OSAHHS or OSA or OSAS).ti,ab.
5.	(obes* adj3 hypoventil*).ti,ab.
6.	pickwick*.ti,ab.
7.	or/1-6
8.	limit 7 to English language
9.	letter.pt. or letter/
10.	note.pt.
11.	editorial.pt.
12.	case report/ or case study/
13.	(letter or comment*).ti.
14.	or/9-13
15.	randomized controlled trial/ or random*.ti,ab.
16.	14 not 15
17.	animal/ not human/
18.	nonhuman/
19.	exp Animal Experiment/
20.	exp Experimental Animal/
21.	animal model/
22.	exp Rodent/
23.	(rat or rats or mouse or mice).ti.
24.	or/16-23
25.	8 not 24
26.	symptom assessment/
27.	diagnosis/
28.	prognosis/
29.	(clinical adj3 (manifestation* or feature* or finding* or aspect* or marker*)).ti,ab.
30.	(presenting adj3 (feature* or finding* or factor*)).ti,ab.
31.	presentation*.ti,ab.

32.	(physical adj3 (manifestaion* or characteristic* or feature* or finding*)).ti,ab.
33.	(sign or signs or symptom* or recogni* or identif* or complain*).ti,ab.
34.	(diagnos* or prognos* or assess* or criteria* or predict*).ti,ab.
35.	symptomatology/
36.	or/26-35
37.	*snoring/
38.	(snore* or snoring).ti,ab.
39.	((unrefresh* or un-refres* or daytime or day-time or fragment*) adj3 sleep*).ti,ab.
40.	(nocturia or tired* or insomnia* or headache* or somnolence or drows* or fatigue* or sleepiness).ti,ab.
41.	(ankle* adj3 (swell* or swollen)).ti,ab.
42.	((elevate* or high*) adj3 (hemoglobin or haemoglobin or hb or hgb)).ti,ab.
43.	(cognitive dysfunction* or brian fog or memor* impairment*).ti,ab.
44.	or/37-43
45.	((resistan* or nocturnal or nondipping or non-dipping) adj2 hypertension).ti,ab.
46.	(resistan* adj2 arrhythmia*).ti,ab.
47.	((atrial or atria or atrium or auricular) adj3 fibrillat*).ti,ab.
48.	*atrial fibrillation/
49.	((diabet* adj2 (type 2 or type ii)) or T2D).ti.
50.	((diabetic macular adj (odema or edema)) or DME).ti,ab.
51.	*aortic aneurysm/
52.	aortic aneurysm*.ti,ab.
53.	((heart or cardiac or myocardial) adj2 (failure or decompensation)).ti,ab.
54.	*heart failure/
55.	*cardiovascular disease/ or *cardiovascular malformation/ or *cardiovascular infection/ or *heart disease/ or *vascular disease/
56.	(cardiovascular adj2 event*).ti,ab.
57.	*cerebrovascular accident/
58.	(stroke or strokes).ti,ab.
59.	*Down syndrome/
60.	(down* syndrome* or mongolism or trisomy 21).ti,ab.
61.	*acromegaly/
62.	acromegal*.ti,ab.
63.	((Body mass index or BMI) adj2 >30).ti,ab.
64.	exp *obesity/
65.	(obesity or obese or overweight or over-weight or over weight).ti.
66.	or/45-65
67.	25 and (36 or 44 or 66)
68.	Clinical study/
69.	Observational study/
70.	family study/
71.	longitudinal study/
72.	retrospective study/
73.	prospective study/
74.	cohort analysis/
75.	follow-up/

76.	cohort*.ti,ab.
77.	75 and 76
78.	(cohort adj (study or studies or analys* or data)).ti,ab.
79.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
80.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
81.	(before adj2 after adj2 (study or studies or data)).ti,ab.
82.	or/68-74,77-81
83.	exp case control study/
84.	case control*.ti,ab.
85.	or/83-84
86.	82 or 85
87.	cross-sectional study/
88.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
89.	or/87-88
90.	82 or 89
91.	82 or 85 or 89
92.	67 and 91