

## **ADDITIONAL FILES**

### **Appendix:**

1. Supplementary table 1: Search strings according to medical database platforms
2. PRISMA-P checklist
3. MOOSE checklist
4. PROSPERO registration

**Supplementary table 1:** Search strings according to medical database platforms

Databases	Search strings
<b>English medical databases</b>	
CINAHL	<p>S1 TX COVID-19</p> <p>S2 TX SARS-CoV-2</p> <p>S3 TX 2019-nCoV</p> <p>S4 TX Novel coronavirus</p> <p>S5 TX Coronavirus disease</p> <p>S6 TX Corona virus disease</p> <p>S7 TX S1 or S2 or S3 or S4 or S5 or S6</p> <p>S8 TX ((anosmi*) OR (hyposmi*) OR (microsmi*) OR (parosmi*) OR (dysomi*) OR (phantosmi*) OR (cacosmi*) OR (heterosmi*))</p> <p>S9 TX ((olfactory OR olfaction) AND ((dysfunction*) OR (disturb*) OR (damage*) OR (abnormal*) OR (anomal*) OR (problem*) OR (issue*) OR (change*) OR (symptom*) OR (sign*) OR (malfunction*)))</p> <p>S10 TX (((diminish*) OR (decreas*) OR (damp*) OR (reduc*) OR (loss of)) AND (smell sens*))</p> <p>S11 TX (((sinonasal) OR (nasosinus) OR (sinus) OR (nasal) OR (sinal) OR (turbina*)) AND ((dysfunction*) OR (disturb*) OR (damage*) OR (abnormal*) OR (anomal*) OR (problem*) OR (issue*) OR (change*) OR (symptom*) OR (sign*) OR (malfunction*)))</p> <p>S12 TX S8 or S9 or S10 or S11</p> <p>S13 S7 and S12</p> <p>S14 S7 and S12, Limiter = Publication year 2020</p>
ClinicalTrials.gov	<p>Condition or disease: COVID-19</p> <p>Outcome measure: anosmia</p>

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Cochrane central #1 ((2019 nCoV)) (word variations have been searched)

#2 COVID-19

#3 novel coronavirus

#4 coronavirus disease

#5 corona virus disease

#6 SARS-CoV-2

#7 #1 or #2 or #3 or #4 or #5 or #6

#8 ((anosmi\*) OR (hyposmi\*) OR (microsmi\*) OR (parosmi\*) OR (dysomi\*) OR (phantosmi\*) OR (cacosmi\*) OR (heterosmi\*))

#9 ((olfactory OR olfaction) AND ((dysfunction\*) OR (disturb\*) OR (damage\*) OR (abnormal\*) OR (anomal\*) OR (problem\*) OR (issue\*) OR (change\*) OR (symptom\*) OR (sign\*) OR (malfunction\*)))

#10 (((diminish\*) OR (decreas\*) OR (damp\*) OR (reduc\*) OR (loss of)) AND (smell n2 sens\*))

#11 (((sinonasal) OR (nasosinusal) OR (sinus) OR (nasal) OR (sinal) OR (turbina\*)) AND ((dysfunction\*) OR (disturb\*) OR (damage\*) OR (abnormal\*) OR (anomal\*) OR (problem\*) OR (issue\*) OR (change\*) OR (symptom\*) OR (sign\*) OR (malfunction\*)))

#12 #8 or #9 or #10 or #11

#13 #7 and #12 (with Cochrane Library publication date from Jan 2020 to Oct 2020)

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EMBASE

1. COVID-19.mp.
2. SARS-CoV-2.mp.
3. 2019-nCoV.mp.
4. novel coronavirus.mp.
5. coronavirus disease.mp.
6. corona virus disease.mp.
7. or/1-6
8. (anosmi\* or hyposmi\* or microsmi\* or phantosmi\* or cacosmi\* or parosmi\* or dysosmi\* or heterosmi\*).mp.
9. ((olfactory or olfaction) and (dysfunction\* or disturb\* or damage\* or abnormal\* or anomal\* or problem\* or issue\* or change\* or symptom\* or sign\* or malfunction\*)).mp.
10. (diminish\* or decreas\* or damp\* or reduc\* or loss of).mp.
11. (smell adj2 sens\*).mp.
12. 10 and 11
13. ((sinonasal or nasosinusal or sinus or nasal or sinal or turbina\*) and (dysfunction\* or disturb\* or damage\* or abnormal\* or anomal\* or problem\* or issue\* or change\* or symptom\* or sign\* or malfunction\*)).mp.
14. 8 or or 9 or 12 or 13
15. 7 and 14
16. limit 15 to yr="2020 -Current"

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MEDLINE (Ov- id) 1. COVID-19.mp.  
2. SARS-CoV-2.mp.  
3. 2019-nCoV.mp.  
4. novel coronavirus.mp.  
5. coronavirus disease.mp.  
6. corona virus disease.mp.  
7. or/1-6  
8. (anosmi\* or hyposmi\* or microsmi\* or phantosmi\* or cacosmi\* or parosmi\* or dys-  
osmi\* or heterosmi\*).mp.  
9. ((olfactory or olfaction) and (dysfunction\* or disturb\* or damage\* or abnormal\* or  
anomal\* or problem\* or issue\* or change\* or symptom\* or sign\* or malfunction\*)).mp.  
10. (diminish\* or decreas\* or damp\* or reduc\* or loss of).mp.  
11. (smell adj2 sens\*).mp.  
12. 10 and 11  
13. ((sinonasal or nasosinusul or sinus or nasal or sinal or turbina\*) and (dysfunction\* or  
disturb\* or damage\* or abnormal\* or anomal\* or problem\* or issue\* or change\* or  
symptom\* or sign\* or malfunction\*)).mp.  
14. 8 or or 9 or 12 or 13  
15. 7 and 14  
16. limit 15 to yr="2020 -Current"

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PubMed      (((COVID-19) OR (2019-nCoV) OR (coronavirus disease) OR (corona virus disease)) OR ((SARS-CoV-2) OR (novel coronavirus))) AND (((anosmi\*) OR (hyposmi\*) OR (microsmi\*) OR (parosmi\*) OR (dysomi\*) OR (phantosmi\*) OR (cacosmi\*) OR (heterosmi\*)) OR ((olfactory OR olfaction) AND ((dysfunction\*) OR (disturb\*) OR (damage\*) OR (abnormal\*) OR (anomal\*) OR (problem\*) OR (issue\*) OR (change\*) OR (symptom\*) OR (sign\*) OR (malfunction\*)))) OR (((diminish\*) OR (decreas\*) OR (damp\*) OR (reduc\*) OR (loss of)) AND (smell n2 sens\*)) OR (((sinonasal) OR (nasosinusal) OR (sinus) OR (nasal) OR (sinal) OR (turbina\*)) AND ((dysfunction\*) OR (disturb\*) OR (damage\*) OR (abnormal\*) OR (anomal\*) OR (problem\*) OR (issue\*) OR (change\*) OR (symptom\*) OR (sign\*) OR (malfunction\*)))) AND (“2020/01/01”[Date - Publication] : “2020/09/11”[Date - Publication])

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**Chinese medical databases\***

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CNKI      #1 (Title, Keyword, Abstract) 新型冠状病毒肺炎 + 冠状病毒肺炎 + 新型冠状病毒

#2 (Full text) 新型冠状病毒肺炎 + 冠状病毒肺炎 + 新型冠状病毒

#3 (Title, Keyword, Abstract) COVID-19 + SARS-CoV-2 + 2019-nCoV + Novel coronavirus + Coronavirus disease + Corona virus disease

#4 (Full text) COVID-19 + SARS-CoV-2 + 2019-nCoV + Novel coronavirus + Coronavirus disease + Corona virus disease

#5 (Title, Keyword, Abstract) 嗅觉下降 + 嗅觉丧失 + 嗅觉减退 + 嗅觉障碍 + 嗅觉改变 + 鼻腔症状

#6 (Full text) 嗅觉下降 + 嗅觉丧失 + 嗅觉减退 + 嗅觉障碍 + 嗅觉改变 + 鼻腔症状

#7 (Title, Keyword, Abstract) Anosmia + Hyposmia + Microsmia + Phantosmia + Cacosmia + Parosmia + Dysomia + Heterosmia + Olfactory + Sense of smell + Sinonasal + Nasal + Nasosinusal + sinus

#8 (Full text) Anosmia + Hyposmia + Microsmia + Phantosmia + Cacosmia + Parosmia + Dysomia + Heterosmia + Olfactory + Sense of smell + Sinonasal + Nasal + Naso-

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sinusal + sinus

#1 OR #2 OR #3 OR #4 AND #5 OR #6 OR #7 OR #8

Date: 1/1/20- 11/9/20

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VIP

#1 任意字段：2019 新型冠状病毒 或

#2 任意字段：新型冠状病毒肺炎 或

#3 任意字段：新型冠状病毒 或

#4 任意字段：冠状病毒肺炎 与

#5 任意字段：嗅觉

全部期刊

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WANFANG      检索表达式 (中英文扩展&主题词扩展) : (((全部:(“新型冠状病毒肺炎 + 冠状病毒肺炎 + 新型冠状病毒”)+题名或关键词:(新型冠状病毒肺炎 + 冠状病毒肺炎 + 新型冠状病毒))\*全部:(嗅觉+嗅觉下降 + 嗅觉丧失 + 嗅觉减退 + 嗅觉障碍 + 嗅觉改变 + 鼻腔症状)+题名或关键词:(嗅觉+嗅觉下降 + 嗅觉丧失 + 嗅觉减退 + 嗅觉障碍 + 嗅觉改变 + 鼻腔症状))))\*Date:2020-

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\*Search strings for Chinese medical databases (CNKI, VIP, WANFANG) were formulated in simplified Chinese characters. CNKI: China National Knowledge Infrastructure.