

## Supplementary material 9: Literature database searches for the scoping review

[Search methods and strategies for this review were written by the Cochrane Stroke Group's Information Specialist \(JDC\). The 'Search methods for identification of studies' and corresponding search strategies reported here are written based on the review's research question, inclusion criteria in close consultation with the review team drawing on the Information Specialist's subject expertise. The following search hedge/ filter is often used as a basis for constructing search strategies and is adapted where necessary.](#)

[The search strategies were adapted from the following reference.](#)<sup>1</sup>

### CENTRAL

- #1 MeSH descriptor: [Cerebrovascular Disorders] this term only
- #2 MeSH descriptor: [Basal Ganglia Cerebrovascular Disease] this term only
- #3 MeSH descriptor: [Brain Ischemia] explode all trees
- #4 MeSH descriptor: [Carotid Artery Diseases] explode all trees
- #5 MeSH descriptor: [Cerebral Small Vessel Diseases] explode all trees
- #6 MeSH descriptor: [Intracranial Arterial Diseases] explode all trees
- #7 MeSH descriptor: [Intracranial Embolism and Thrombosis] explode all trees
- #8 MeSH descriptor: [Intracranial Hemorrhages] explode all trees
- #9 MeSH descriptor: [Stroke] this term only
- #10 MeSH descriptor: [Stroke, Lacunar] this term only
- #11 MeSH descriptor: [Brain Infarction] explode all trees
- #12 MeSH descriptor: [Vasospasm, Intracranial] this term only
- #13 MeSH descriptor: [Vertebral Artery Dissection] explode all trees
- #14 MeSH descriptor: [Carotid Artery Injuries] explode all trees
- #15 MeSH descriptor: [Intracranial Arterial Diseases] explode all trees
- #16 MeSH descriptor: [Cerebral Arterial Diseases] this term only
- #17 MeSH descriptor: [Infarction, Anterior Cerebral Artery] this term only
- #18 MeSH descriptor: [Infarction, Middle Cerebral Artery] this term only
- #19 MeSH descriptor: [Infarction, Posterior Cerebral Artery] this term only
- #20 MeSH descriptor: [Carotid Arteries] explode all trees
- #21 MeSH descriptor: [Endarterectomy, Carotid] this term only

#22 (stroke\* or poststroke or apoplex\* or cerebral vasc\* or brain vasc\* or cerebrovasc\* or cva\* or SAH):ti,ab,kw

#23 ((brain\* or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or middle cerebral arter\* or MCA\* or anterior circulation or posterior circulation or basilar arter\* or vertebral arter\* or space-occupying) NEAR/5 (isch?emi\* or infarct\* or thrombo\* or emboli\* or occlus\* or hypoxi\*)):ti,ab,kw

#24 ((brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\* or putaminal or putamen or posterior fossa or hemispher\* or subarachnoid) NEAR/5 (h?emorrhag\* or h?ematoma\* or bleed\*)):ti,ab,kw

#25 (or #1 - #24)

#26 MeSH descriptor: [Perceptual Disorders] explode all trees

#27 MeSH descriptor: [Perception] explode all trees

#28 MeSH descriptor: [Hearing Disorders] this term only

#29 MeSH descriptor: [Hearing Loss] this term only

#30 MeSH descriptor: [Deafness] this term only

#31 MeSH descriptor: [Hearing Loss, Central] this term only

#32 MeSH descriptor: [Hearing Loss, Sudden] this term only

#33 MeSH descriptor: [Hyperacusis] this term only

#34 MeSH descriptor: [Olfaction Disorders] this term only

#35 MeSH descriptor: [Somatosensory Disorders] explode all trees

#36 MeSH descriptor: [Taste Disorders] explode all trees

#37 MeSH descriptor: [Vision Disorders] this term only

#38 MeSH descriptor: [Alice in Wonderland Syndrome] this term only

#39 MeSH descriptor: [Amblyopia] this term only

#40 MeSH descriptor: [Blindness] this term only

#41 MeSH descriptor: [Blindness, Cortical] this term only

#42 MeSH descriptor: [Color Vision Defects] this term only

#43 MeSH descriptor: [Diplopia] this term only

#44 MeSH descriptor: [Hemianopsia] this term only

#45 MeSH descriptor: [Photophobia] this term only

#46 MeSH descriptor: [Scotoma] this term only

- #47 MeSH descriptor: [Vision, Low] this term only
- #48 (percept\* NEAR/3 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)):ti,ab,kw
- #49 (agnosis or agnosia or anosognosia or prosopagnosia or prosopthalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia):ti,ab,kw
- #50 MeSH descriptor: [Sensation] this term only
- #51 MeSH descriptor: [Hearing] this term only
- #52 MeSH descriptor: [Smell] this term only
- #53 MeSH descriptor: [Taste] this term only
- #54 MeSH descriptor: [Touch] this term only
- #55 MeSH descriptor: [Vision, Ocular] this term only
- #56 MeSH descriptor: [Color Vision] this term only
- #57 MeSH descriptor: [Mesopic Vision] explode all trees
- #58 MeSH descriptor: [Night Vision] this term only
- #59 (somatosensory\* or (sensor\* NEAR/3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body NEAR/3 schema) or (body NEAR/3 orientation)):ti,ab,kw
- #60 MESH descriptor [Proprioception] explode all trees
- #61 (propriocep\* or (kin?esthetic NEAR/3 (percept\* or discriminat\*)):ti,ab,kw
- #62 ((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) NEAR/3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*)):ti,ab,kw
- #63 (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia):ti,ab,kw
- #64 (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia):ti,ab,kw
- #65 ((gustat\* or tast\*) NEAR/3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom)):ti,ab,kw
- #66 (((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) NEAR/3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or King Kopetsky syndrome):ti,ab,kw

#67 (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or oculomotor spatial) NEAR/3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia):ti,ab,kw

#68 (entomopia or palinopsia or asteropsis or strabismus or Anton syndrome or Balint syndrome or blindsight or achromatopsia or hyperchromatosis or ((facial or face) NEAR/3 intermetamorphosis) or (visual NEAR/3 anoneria)):ti,ab,kw

#69 ((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) NEAR/3 recogn\*):ti,ab,kw

#70 (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) NEAR/3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or locali?ation))):ti,ab,kw

#71 (or #26-#70)

#72 #25 and #71

## MEDLINE Ovid

1. cerebrovascular disorders/ or basal ganglia cerebrovascular disease/ or exp brain ischemia/ or exp carotid artery diseases/ or exp cerebral small vessel diseases/ or exp intracranial arterial diseases/ or exp "intracranial embolism and thrombosis"/ or exp intracranial hemorrhages/ or stroke/ or exp brain infarction/ or stroke, lacunar/ or vasospasm, intracranial/ or vertebral artery dissection/ or carotid stenosis/ or exp carotid artery injuries/ or intracranial arterial diseases/ or cerebral arterial diseases/ or infarction, anterior cerebral artery/ or infarction, middle cerebral artery/ or infarction, posterior cerebral artery/ or exp carotid arteries/ or endarterectomy, carotid/
2. (stroke\$ or poststroke or apoplex\$ or cerebral vasc\$ or brain vasc\$ or cerebrovasc\$ or cva\$ or SAH).ti,ab
3. ((brain\$ or cerebr\$ or cerebell\$ or vertebrobasil\$ or hemispher\$ or intracran\$ or intracerebral or infratentorial or supratentorial or middle cerebral arter\$ or MCA\$ or anterior circulation or posterior circulation or basilar arter\$ or vertebral arter\$ or space-occupying) adj5 (isch?emi\$ or infarct\$ or thrombo\$ or emboli\$ or oclus\$ or hypoxi\$)).ti,ab
4. ((brain\$ or cerebr\$ or cerebell\$ or intracerebral or intracran\$ or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\$ or putaminal or putamen or posterior fossa or hemispher\$ or subarachnoid) adj5 (h?emorrhag\$ or h?ematoma\$ or bleed\$)).ti,ab
5. or/1-4
6. exp perceptual disorders/ or exp perception/

7. hearing disorders/ or hearing loss/ or deafness/ or hearing loss, central/ or hearing loss, sudden/ or hyperacusis/ or olfaction disorders/ or exp somatosensory disorders/ or exp taste disorders/ or vision disorders/ or alice in wonderland syndrome/ or amblyopia/ or blindness/ or blindness, cortical/ or color vision defects/ or diplopia/ or hemianopsia/ or photophobia/ or scotoma/ or vision, low/
8. (percept\$ adj3 (impair\$ or problem\$ or abilit\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or deaf\$)).ti,ab
9. (agnosis or agnosia or prosopagnosia or prosopthalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\$ or syn?esthesia\$ or hypoesthesia or hyperesthesia).ti,ab
10. sensation/ or hearing/ or smell/ or taste/ or touch/ or vision, ocular/ or color vision/ or exp mesopic vision/ or night vision/
11. (somatosensory\$ or (sensor\$ adj3 (input\$ or stimul\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or processing or percept\$ or hallucination\$ or feedback or discriminat\$ or dysfunction\$ or recogn\$ or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation))).ti,ab
12. exp Proprioception/
13. (propriocep\$ or (kin?esthetic adj3 (percept\$ or discriminat\$))).ti,ab
14. ((odo?r\$ or smell\$ or olfact\$ or scent\$ or aroma or flavo?r) adj3 (memory or acuity or function\$ or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hedonics or deprivation or hallucinat\$)).ti,ab
15. (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantomsia or par?osmia or ageusia or hypogeusia or dysgeusia or tropomsia or euosmia or cacosmia or malodour or superosmia).ti,ab
16. (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantomsia or parosmia or tropomsia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia).ti,ab
17. ((gustat\$ or tast\$) adj3 (acuity or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or loss or an?esthesia or absence or phantom)).ti,ab
18. (((speech or speak\$ or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) adj3 (percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or King Kopetsky syndrome).ti,ab
19. (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\$ or polyop\$ or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\$ or visuo?spatial or visuo?construct\$ or ocular or optokinetic or optic\$ or oculomotor spatial) adj3 (illusion or blurry or overload or double or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or disorientation or allachesthesia or deficit\$ or defect\$ or disabilit\$ or disorder\$ or processing or dysfunction\$ or recogn\$ or interpretation or analysis or comprehension )) or

stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia).ti,ab

20. (entomopia or palinopsia or asteropsis or strabismus or Anton syndrome or Balint syndrome or blindsight or achromatopsia or hyperchromatosis or ((facial or face) adj3 intermetamorphosis) or (visual adj3 anoneria)).ti,ab

21. ((figure or shape or orientation or form or colo?r or textur\$ or crowding or contour or object or face or faces) adj3 recogn\$).ti,ab

22. (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\$ or touch) adj3 (stimul\$ or memory or acuity or sens\$ or percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$ or anisotropy or locali?ation))).ti,ab

23. or/6-22

24. 5 and 23

### **Embase Ovid**

1. cerebrovascular disease/ or brain disease/ or exp basal ganglion hemorrhage/ or exp brain hemangioma/ or exp brain hematoma/ or exp brain hemorrhage/ or exp brain infarction/ or exp brain ischemia/ or exp cerebral artery disease/ or exp cerebrovascular accident/ or exp cerebrovascular malformation/ or exp intracranial aneurysm/ or exp occlusive cerebrovascular disease/ or exp vertebrobasilar insufficiency/

2. exp carotid artery disease/ or exp carotid artery/ or exp carotid artery surgery/ or carotid endarterectomy/ or carotid artery thrombosis/ or carotid artery bruit/ or exp carotid artery obstruction/ or exp carotid atherosclerosis/

3. (stroke\$ or poststroke or apoplex\$ or cerebral vasc\$ or brain vasc\$ or cerebrovasc\$ or cva\$ or SAH).ti,ab

4. ((brain\$ or cerebr\$ or cerebell\$ or vertebrobasil\$ or hemispher\$ or intracran\$ or intracerebral or infratentorial or supratentorial or middle cerebral arter\$ or MCA\$ or anterior circulation or posterior circulation or basilar arter\$ or vertebral arter\$ or space-occupying) adj5 (isch?emi\$ or infarct\$ or thrombo\$ or emboli\$ or occlus\$ or hypoxi\$)).ti,ab

5. ((brain\$ or cerebr\$ or cerebell\$ or intracerebral or intracran\$ or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\$ or putaminal or putamen or posterior fossa or hemispher\$ or subarachnoid) adj5 (h?emorrhag\$ or h?ematoma\$ or bleed\$)).ti,ab

6. or/1-5

7. perception/ or depth perception/ or distance perception/ or interoception/ or loudness perception/ or movement perception/ or exp perceptive discrimination/ or exp perceptive threshold/ or exp pitch perception/ or spatial summation/ or perception deafness/ or exp perceptive discrimination/

8. perception disorder/ or exp agnosia/ or alice in wonderland syndrome/ or allesthesia/

9. (percept\$ adj3 (impair\$ or problem\$ or abilit\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or deaf\$)).ti,ab

10. (agnosis or agnosia or prosopagnosia or prosophtalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\$ or syn?esthesia\$ or hypoesthesia or hyperesthesia).ti,ab
11. somatosensory stimulation/ or sensory stimulation/ or somatosensory disorder/ or exp hyperesthesia/
12. (somatosensory\$ or (sensor\$ adj3 (input\$ or stimul\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or processing or percept\$ or hallucination\$ or feedback or discriminat\$ or dysfunction\$ or recogn\$ or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation))).ti,ab
13. proprioception/ or proprioceptive feedback/
14. (propriocep\$ or (kin?esthetic adj3 (percept\$ or discriminat\$))).ti,ab
15. "smelling and taste"/ or olfactory discrimination/ or olfactory memory/ or taste acuity/ or taste discrimination/ or "smell and taste parameters"/ or exp smelling disorder/
16. ((odo?r\$ or smell\$ or olfact\$ or scent\$ or aroma or flavo?r) adj3 (memory or acuity or function\$ or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hedonics or deprivation or hallucinat\$)).ti,ab
17. (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia).ti,ab
18. exp taste disorder/ or taste/
19. (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia).ti,ab
20. ((gustat\$ or tast\$) adj3 (acuity or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or loss or an?esthesia or absence or phantom)).ti,ab
21. speech perception/ or speech discrimination/
22. auditory system function/ or auditory stimulation/ or optokinetic stimulation/ or subliminal stimulation/ or vestibular stimulation/ or hearing/
23. (((speech or speak\$ or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) adj3 (percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or King Kopetsky syndrome).ti,ab
24. tactile discrimination/ or tactile memory/ or tactile stimulation/ or vibration sense/
25. visual disorder/ or amblyopia/ or aniseikonia/ or diplopia/ or macropsia/ or metamorphopsia/ or micropsia/ or oscillopsia/ or visual hallucination/ or visual illusion/ or visual stimulation/ or visual system function/
26. (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\$ or polyop\$ or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\$ or visuo?spatial or

visuo?construct\$ or ocular or optokinetic or optic\$ or oculomotor spatial) adj3 (illusion or blurry or overload or double or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or receipt\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or disorientation or allachethesia or deficit\$ or defect\$ or disabilit\$ or disorder\$ or processing or dysfunction\$ or recogn\$ or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia).ti,ab

27. (entomopia or palinopsia or asteropsis or strabismus or Anton syndrome or Balint syndrome or blindsight or achromatopsia or hyperchromatosis or ((facial or face) adj3 intermetamorphosis) or (visual adj3 anoneria)).ti,ab

28. ((figure or shape or orientation or form or colo?r or textur\$ or crowding or contour or object or face or faces) adj3 recogn\$).ti,ab

29. (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\$ or touch) adj3 (stimul\$ or memory or acuity or sens\$ or percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$ or anisotropy or locali?ation))).ti,ab

30. or/7-29

31. 6 and 30

## PsycINFO Ovid

1. cerebrovascular disorders/ or cerebral arteriosclerosis/ or cerebral hemorrhage/ or exp cerebral ischemia/ or cerebral small vessel disease/ or cerebrovascular accidents/ or subarachnoid hemorrhage/

2. (stroke\$ or poststroke or apoplex\$ or cerebral vasc\$ or brain vasc\$ or cerebrovasc\$ or cva\$ or SAH).ti,ab

3. ((brain\$ or cerebr\$ or cerebell\$ or vertebrobasil\$ or hemispher\$ or intracran\$ or intracerebral or infratentorial or supratentorial or middle cerebral arter\$ or MCA\$ or anterior circulation or posterior circulation or basilar arter\$ or vertebral arter\$ or space-occupying) adj5 (isch?emi\$ or infarct\$ or thrombo\$ or emboli\$ or occlus\$ or hypoxi\$)).ti,ab

4. ((brain\$ or cerebr\$ or cerebell\$ or intracerebral or intracran\$ or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\$ or putaminal or putamen or posterior fossa or hemispher\$ or subarachnoid) adj5 (h?emorrhag\$ or h?ematoma\$ or bleed\$)).ti,ab

5. or/1-4

6. exp perceptual disturbances/

7. perception/ or apperception/ or exp auditory perception/ or exp extrasensory perception/ or "form and shape perception"/ or exp "illusions (perception)"/ or exp intersensory processes/ or numerosity perception/ or exp olfactory perception/ or perceptual closure/ or exp perceptual constancy/ or exp perceptual discrimination/ or exp perceptual distortion/ or exp perceptual learning/ or exp perceptual localization/ or exp perceptual motor processes/ or perceptual organization/ or exp perceptual orientation/ or perceptual style/ or "signal detection (perception)"/ or exp somesthetic perception/ or exp spatial perception/ or subliminal perception/ or taste perception/ or exp visual perception/



8. (percept\$ adj3 (impair\$ or problem\$ or abilit\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or deaf\$)).ti,ab
9. (agnosis or agnosia or prosopagnosia or prosophtalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\$ or syn?esthesia\$ or hypoesthesia or hyperesthesia).ti,ab
10. sensory system disorders/ or somatosensory disorders/
11. (somatosensory\$ or (sensor\$ adj3 (input\$ or stimul\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or processing or percept\$ or hallucination\$ or feedback or discriminat\$ or dysfunction\$ or recogn\$ or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation))).ti,ab
12. (propriocep\$ or (kin?esthetic adj3 (percept\$ or discriminat\$))).ti,ab
13. ((odo?r\$ or smell\$ or olfact\$ or scent\$ or aroma or flavo?r) adj3 (memory or acuity or function\$ or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hedonics or deprivation or hallucinat\$)).ti,ab
14. (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantomsia or par?osmia or ageusia or hypogeusia or dysgeusia or tropomsia or euosmia or cacosmia or malodour or superosmia).ti,ab
15. (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantomsia or parosmia or tropomsia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia).ti,ab
16. ((gustat\$ or tast\$) adj3 (acuity or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or loss or an?esthesia or absence or phantom)).ti,ab
17. (((speech or speak\$ or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) adj3 (percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or King Kopetsky syndrome).ti,ab
18. (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\$ or polyop\$ or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\$ or visuo?spatial or visuo?construct\$ or ocular or optokinetic or optic\$ or oculomotor spatial) adj3 (illusion or blurry or overload or double or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or disorientation or allachesthesia or deficit\$ or defect\$ or disabilit\$ or disorder\$ or processing or dysfunction\$ or recogn\$ or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia).ti,ab
19. (entomopia or palinopsia or asteropsis or strabismus or Anton syndrome or Balint syndrome or blindsight or achromatopsia or hyperchromatosis or ((facial or face) adj3 intermetamorphosis) or (visual adj3 anoneria)).ti,ab
20. ((figure or shape or orientation or form or colo?r or textur\$ or crowding or contour or object or face or faces) adj3 recogn\$).ti,ab

21. (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\$ or touch) adj3 (stimul\$ or memory or acuity or sens\$ or percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$ or anisotropy or locali?ation))).ti,ab
22. or/6-21
23. 5 and 22

### **CINAHL EBSCO (Cumulative Index to Nursing and Allied Health Literature)**

S1 (MH "Cerebrovascular Disorders") OR (MH "Basal Ganglia Cerebrovascular Disease+") OR (MH "Carotid Artery Diseases") OR (MH "Carotid Artery Dissections") OR (MH "Carotid Artery Thrombosis") OR (MH "Carotid Stenosis") OR (MH "Cerebral Ischemia") OR (MH "Cerebral Ischemia, Transient") OR (MH "Cerebral Small Vessel Diseases") OR (MH "Cerebral Vasospasm") OR (MH "Cerebral Arterial Diseases+") OR (MH "Cerebral Aneurysm") OR (MH "Intracranial Arterial Diseases") OR (MH "Cerebral Arterial Diseases") OR (MH "Intracranial Arteriosclerosis") OR (MH "Intracranial Embolism and Thrombosis") OR (MH "Intracranial Thrombosis+") OR (MH "Intracranial Hemorrhage+") OR (MH "Stroke+") OR (MH "Vertebral Artery Dissections")

S2 TI (stroke or poststroke or post-stroke or cerebrovasc\* or brain vas\* or cerebral vas\* or cva or apoplex or SAH) or AB (stroke or poststroke or post-stroke or cerebrovasc\* or brain vas\* or cerebral vas\* or cva or apoplex or SAH)

S3 TI ((brain or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or middle cerebral arter\* or MCA\* or anterior circulation or posterior circulation or basilar arter\* or vertebral arter\* or space-occupying) N5 ( ischemi\* or ischaemi\* or infarct\* or thrombo\* or emboli\* or occlus\*)) OR AB ((brain or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or middle cerebral arter\* or MCA\* or anterior circulation or posterior circulation or basilar arter\* or vertebral arter\* or space-occupying) N5 ( ischemi\* or ischaemi\* or infarct\* or thrombo\* or emboli\* or occlus\*))

S4 TI (( brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\* or putaminal or putamen or posterior fossa or hemispher\* or subarachnoid ) N5 (h?emorrhage\* or h?ematoma\* or bleed\* )) OR AB (( brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\* or putaminal or putamen or posterior fossa or hemispher\* or subarachnoid ) N5 ( h?emorrhage\* or h?ematoma\* or bleed\* ))

S5 S1 or S2 or S3 or S4

S6 (MH "Perceptual Disorders+")

S7 (MH "Visual Perception+") OR (MH "Touch") OR (MH "Sensory Deprivation") OR (MH "Perceptual Masking") OR (MH "Perceptual Distortion") OR (MH "Intuition") OR (MH "Illusions+") OR (MH "Auditory Perception+")

S8 TI ( percept\* N5 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)) ) OR AB ( percept\* N5 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)) )

S9 TI (agnosis or agnosia or prosopagnosia or prosopthalmia or somatoparaphrenia or (body N3 (schema or orientation)) or “Alice in Wonderland syndrome” or “Todd syndrome” or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia)OR AB (agnosis or agnosia or prosopagnosia or prosopthalmia or somatoparaphrenia or (body N3 (schema or orientation)) or “Alice in Wonderland syndrome” or “Todd syndrome” or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia)

S10 (MH "Hearing Disorders") OR (MH "Deafness") OR (MH "Hyperacusis") OR (MH "Olfaction Disorders+") OR (MH "Somatosensory Disorders+") OR (MH "Taste Disorders+") OR (MH "Vision Disorders+")

S11 TI (somatosensory\* or (sensor\* N3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body N3 (schema or orientation))) OR AB (somatosensory\* or (sensor\* N3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body N3 (schema or orientation)))

S12 (MH "Sensation") OR (MH "Hearing") OR (MH "Pain") OR (MH "Smell") OR (MH "Taste") OR (MH "Touch") OR (MH "Vision") OR (MH "Proprioception+")

S13 TI (propriocep\* or (kin?esthetic N3 (percept\* or discriminat\*))) OR AB (propriocep\* or (kin?esthetic N3 (percept\* or discriminat\*)))

S14 TI ((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) N3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*)) OR AB ((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) N3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*))

S15 TI (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia) OR AB (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia)

S16 TI (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia) OR AB (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia)

S17 TI ((gustat\* or tast\*) N3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom)) OR AB ((gustat\* or tast\*) N3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or

sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom))

S18 TI (((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) N3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or “King Kopetsky syndrome”) OR AB (((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) N3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or “King Kopetsky syndrome”)

S19 TI (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?cropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or oculomotor spatial) N3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia) OR AB (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?cropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or oculomotor spatial) N3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia)

S20 TI (entomopia or palinopsia or asteropsis or strabismus or “Anton syndrome” or “Balint syndrome” or blindsight or achromatopsia or hyperchromatosis or ((facial or face) N3 intermetamorphosis) or (visual N3 anoneria)) OR AB (entomopia or palinopsia or asteropsis or strabismus or “Anton syndrome” or “Balint syndrome” or blindsight or achromatopsia or hyperchromatosis or ((facial or face) N3 intermetamorphosis) or (visual N3 anoneria))

S21 TI ((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) N3 recogn\*) OR AB ((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) N3 recogn\*)

S22 TI (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) N3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or locali?ation))) OR AB (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) N3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or locali?ation)))

S23 S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S20 or S21 or S22

S24 S5 and S23

## AMED Ovid

1. cerebrovascular disorders/ or cerebral hemorrhage/ or cerebral infarction/ or cerebral ischemia/ or cerebrovascular accident/ or stroke/
2. (stroke\$ or poststroke or apoplex\$ or cerebral vasc\$ or brain vasc\$ or cerebrovasc\$ or cva\$ or SAH).ti,ab
3. ((brain\$ or cerebr\$ or cerebell\$ or vertebrobasil\$ or hemispher\$ or intracran\$ or intracerebral or infratentorial or supratentorial or middle cerebral arter\$ or MCA\$ or anterior circulation or posterior circulation or basilar arter\$ or vertebral arter\$ or space-occupying) adj5 (isch?emi\$ or infarct\$ or thrombo\$ or emboli\$ or occlus\$ or hypoxi\$)).ti,ab
4. ((brain\$ or cerebr\$ or cerebell\$ or intracerebral or intracran\$ or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\$ or putaminal or putamen or posterior fossa or hemispher\$ or subarachnoid) adj5 (h?emorrhag\$ or h?ematoma\$ or bleed\$)).ti,ab
5. or/1-4
6. perception/ or exp auditory perception/ or body image/ or discrimination/ or sensory deprivation/ or sensory thresholds/ or exp visual perception/ or sensory integration/
7. perceptual disorders/
8. (percept\$ adj3 (impair\$ or problem\$ or abilit\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or deaf\$)).ti,ab
9. (agnosis or agnosia or prosopagnosia or prosopthalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\$ or syn?esthesia\$ or hypoesthesia or hyperesthesia).ti,ab
10. sensation/ or hearing/ or smell/ or exp taste/ or touch/ or vision/
11. (somatosensory\$ or (sensor\$ adj3 (input\$ or stimul\$ or deficit\$ or distortion\$ or defect\$ or disabilit\$ or disturbance\$ or disorder\$ or discriminat\$ or processing or percept\$ or hallucination\$ or feedback or discriminat\$ or dysfunction\$ or recogn\$ or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation))).ti,ab
12. exp proprioception/
13. (propriocep\$ or (kin?esthetic adj3 (percept\$ or discriminat\$))).ti,ab
14. ((odo?r\$ or smell\$ or olfact\$ or scent\$ or aroma or flavo?r) adj3 (memory or acuity or function\$ or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hedonics or deprivation or hallucinat\$)).ti,ab
15. (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantomsia or par?osmia or ageusia or hypogeusia or dysgeusia or tropomsia or euosmia or cacomsia or malodour or superosmia).ti,ab
16. (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantomsia or paromsia or tropomsia or euosmia or cacomsia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia).ti,ab

17. ((gustat\$ or tast\$) adj3 (acuity or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or loss or an?esthesia or absence or phantom)).ti,ab
18. (((speech or speak\$ or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) adj3 (percept\$ or processing or \$stimulation or distinguish\$ or discriminat\$)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or King Kopetsky syndrome).ti,ab
19. (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\$ or polyop\$ or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\$ or visuo?spatial or visuo?construct\$ or ocular or optokinetic or optic\$ or oculomotor spatial) adj3 (illusion or blurry or overload or double or percept\$ or perceive\$ or discriminat\$ or distinguish\$ or recept\$ or sensitiv\$ or hallucination\$ or abnormalit\$ or distortion\$ or disturbance\$ or anomal\$ or disorientation or allachesthesia or deficit\$ or defect\$ or disabilit\$ or disorder\$ or processing or dysfunction\$ or recogn\$ or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia)).ti,ab
20. (entomopia or palinopsia or asteropsis or strabismus or Anton syndrome or Balint syndrome or blindsight or achromatopsia or hyperchromatosis or ((facial or face) adj3 intermetamorphosis) or (visual adj3 anoneria)).ti,ab
21. ((figure or shape or orientation or form or colo?r or textur\$ or crowding or contour or object or face or faces) adj3 recogn\$).ti,ab
22. (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\$ or touch) adj3 (stimul\$ or memory or acuity or sens\$ or percept\$ or processing or stimul\$ or distinguish\$ or discriminat\$ or anisotropy or locali?ation))).ti,ab
23. or/6-22
24. 5 and 23

**Web of Science – Core Collection (Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC Timespan=All years)**

#1 TS=(stroke\* or poststroke or apoplex\* or “cerebral vasc\*” or “brain vasc\*” or cerebrovasc\* or cva\* or SAH)

#2 TS=((brain\* or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or “middle cerebral arter\*” or MCA\* or “anterior circulation” or “posterior circulation” or “basilar arter\*” or “vertebral arter\*” or “space-occupying”) NEAR/5 (isch?emi\* or infarct\* or thrombo\* or emboli\* or occlus\* or hypoxi\*))

#3 TS= ((brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or “basal gangli\*” or putaminal or putamen or “posterior fossa” or hemispher\* or subarachnoid) NEAR/5 (h?emorrhag\* or h?ematoma\* or bleed\*))

#4 #1 or #2 or #3

- #5 TS=(percept\* NEAR/3 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*))
- #6 TS=(agnosis or agnosia or prosopagnosia or prosopthalmia or “Alice in Wonderland syndrome” or “Todd syndrome” or all?esthesia\* or syn?esthesia\$ or hypoesthesia or hyperesthesia)
- #7 TS=(somatosensory\* or (sensor\* NEAR/3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or “evoked potentials” or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body NEAR/3 (schema or orientation)))
- #8 TS=(propriocep\* or (kin?esthetic NEAR/3 (percept\* or discriminat\*)))
- #9 TS=((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) NEAR/3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*))
- #10 TS=(anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia)
- #11 TS=(ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia)
- #12 TS=((gustat\* or tast\*) NEAR/3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom))
- #13 TS=(((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) NEAR/3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or “King Kopetsky syndrome”)
- #14 TS=(amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or “oculomotor spatial”) NEAR/3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia)
- #15 TS=(entomopia or palinopsia or asteropsis or strabismus or “Anton syndrome” or “Balint syndrome” or blindsight or achromatopsia or hyperchromatosis or ((facial or face) NEAR/3 intermetamorphosis) or (visual NEAR/3 anoneria))
- #16 TS=((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) NEAR/3 recogn\*)

#17 TS=(astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) NEAR/3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or localisation)))

#18 #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17

#19 #4 and #18

### **ERIC EBSCOhost**

S1 TI (stroke or poststroke or post-stroke or cerebrovasc\* or brain vascul\* or cerebral vascul\* or cva or apoplex or SAH) or AB (stroke or poststroke or post-stroke or cerebrovasc\* or brain vascul\* or cerebral vascul\* or cva or apoplex or SAH)

S2 TI ((brain or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or middle cerebral artery or MCA\* or anterior circulation or posterior circulation or basilar artery or vertebral artery or space-occupying) N5 ( ischemi\* or ischaemi\* or infarct\* or thrombo\* or emboli\* or occlus\*)) OR AB ((brain or cerebr\* or cerebell\* or vertebrobasil\* or hemispher\* or intracran\* or intracerebral or infratentorial or supratentorial or middle cerebral arter\* or MCA\* or anterior circulation or posterior circulation or basilar arter\* or vertebral arter\* or space-occupying) N5 ( ischemi\* or ischaemi\* or infarct\* or thrombo\* or emboli\* or occlus\*))

S3 TI (( brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\* or putaminal or putamen or posterior fossa or hemispher\* or subarachnoid ) N5 ( haemorrhage\* or hemorrhage\* or haematoma\* or hematoma\* or bleed\* )) OR AB (( brain\* or cerebr\* or cerebell\* or intracerebral or intracran\* or parenchymal or intraparenchymal or intraventricular or infratentorial or supratentorial or basal gangli\* or putaminal or putamen or posterior fossa or hemispher\* or subarachnoid ) N5 ( h\*emorrhage\* or hemorrhage\* or haematoma\* or hematoma\* or bleed\* ))

S4 S1 or S2 or S3

S5 DE "Perception" OR DE "Perception Tests" OR DE "Perceptual Impairments" OR DE "Perceptual Motor Coordination" OR DE "Perceptual Development" OR DE "Perceptual Motor Learning" OR DE "Cognitive Processes" OR DE "Auditory Perception" OR DE "Auditory Discrimination" OR DE "Auditory Stimuli" OR DE "Kinesthetic Perception" OR DE "Olfactory Perception" OR DE "Tactual Perception" OR DE "Visual Perception" OR DE "Depth Perception" OR DE "Visual Acuity" OR DE "Visual Stimuli" OR DE "Visual Discrimination" OR DE "Cognitive Mapping" OR DE "Sensory Experience" OR DE "Sensory Integration"

S6 TI (percept\* N5 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)) OR AB ( percept\* N5 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*))

S7 TI (agnosia or agnosia or prosopagnosia or prosopthalmia or somatoparaphrenia or (body N3 (schema or orientation)) or "Alice in Wonderland syndrome" or "Todd syndrome" or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia) OR AB (agnosia or agnosia or prosopagnosia or prosopthalmia or somatoparaphrenia or (body N3 (schema or



orientation)) or “Alice in Wonderland syndrome” or “Todd syndrome” or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia)

S8 TI (somatosensory\* or (sensor\* N3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation))) OR AB (somatosensory\* or (sensor\* N3 (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation)) or somatosognosia or asomatognosia or somatoparaphrenia or (body adj3 (schema or orientation)))

S9 TI (propriocep\* or (kin?esthetic N3 (percept\* or discriminat\*))) OR AB (propriocep\* or (kin?esthetic N3 (percept\* or discriminat\* or deaf\*)))

S10 TI ((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) N3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*)) OR AB ((odo?r\* or smell\* or olfact\* or scent\* or aroma or flavo?r) N3 (memory or acuity or function\* or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hedonics or deprivation or hallucinat\*))

S11 TI (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia) OR AB (anosmia or anodmia or anosmy or Kallmann syndrome or dysosmia or hyposmia or hyposphresia or phantosmia or par?osmia or ageusia or hypogeusia or dysgeusia or troposmia or euosmia or cacosmia or malodour or superosmia)

S12 TI (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia) OR AB (ageusia or dysgeusia or parageusia or phantogeusia or hypogeusia or amblygeustia or hypogeusesthesia or hyp?esthesia or superosmia or phantosmia or parosmia or troposmia or euosmia or cacosmia or dysosmia or hypergeusia or phantogeusia or hyperosmia or hyposmia)

S13 TI ((gustat\* or tast\*) N3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom)) OR AB ((gustat\* or tast\*) N3 (acuity or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or loss or an?esthesia or absence or phantom))

S14 TI (((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) N3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or “King Kopetsky syndrome”) OR AB (((speech or speak\* or voice or spoken or acoustic or audio or auditory or sound or pitch or prosody or binaural or phoneme) N3 (percept\* or processing or stimul\* or distinguish\* or discriminat\*)) or hyperacusis or misophonia or phonophobia or sonophobia or amusia or “King Kopetsky syndrome”)

S15 TI (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or oculomotor spatial) N3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia) OR AB (amblyop? or aniseikonia or oscillopsia or xanthopsia or d?plop\* or polyop\* or metamorphopsia or m?ropsia or ((vision or visual or visual?percept\* or visuo?spatial or visuo?construct\* or ocular or optokinetic or optic\* or oculomotor spatial) N3 (illusion or blurry or overload or double or percept\* or perceive\* or discriminat\* or distinguish\* or recept\* or sensitiv\* or hallucination\* or abnormalit\* or distortion\* or disturbance\* or anomal\* or disorientation or allachesthesia or deficit\* or defect\* or disabilit\* or disorder\* or processing or dysfunction\* or recogn\* or interpretation or analysis or comprehension )) or stereoillusion or kakopsia or kalopsia or pelopsia or archromatopsia or akinetopsia or telopsia or stereopsis or palinopsia or teleopsia or simultanagnosia)

S16 TI (entomopia or palinopsia or asteropsis or strabismus or “Anton syndrome” or “Balint syndrome” or blindsight or achromatopsia or hyperchromatosis or ((facial or face) N3 intermetamorphosis) or (visual N3 anoneria)) OR AB (entomopia or palinopsia or asteropsis or strabismus or “Anton syndrome” or “Balint syndrome” or blindsight or achromatopsia or hyperchromatosis or ((facial or face) N3 intermetamorphosis) or (visual N3 anoneria))

S17 TI ((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) N3 recogn\*) OR AB ((figure or shape or orientation or form or colo?r or textur\* or crowding or contour or object or face or faces) N3 recogn\*)

S18 TI (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) N3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or locali?ation))) OR AB (astereognosia or stereognosis or astereognosis or paraesthesia or hypersensitivity or ((tactile or haptic\* or touch) N3 (stimul\* or memory or acuity or sens\* or percept\* or processing or stimul\* or distinguish\* or discriminat\* or anisotropy or locali?ation)))

S19 S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18

S20 S5 and S19

### **Centre for Reviews and Dissemination (DARE, NHS EE, HTA)**

#1 MeSH DESCRIPTOR Cerebrovascular Disorders EXPLODE ALL TREES IN DARE,NHSEED,HTA

#2 (stroke\* or poststroke or apoplex\* or cerebral vasc\* or brain vasc\* or cerebrovasc\* or cva\* or SAH):TI IN DARE, NHSEED, HTA

#3 #1 OR #2

#4 MeSH DESCRIPTOR Perceptual Disorders EXPLODE ALL TREES IN DARE,NHSEED,HTA

#5 MeSH DESCRIPTOR Perception EXPLODE ALL TREES IN DARE,NHSEED,HTA

#6 (percept\* AND (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)):TI IN DARE, NHSEED, HTA

#7 (agnosis or agnosia or anosognosia or prosopagnosia or prosopthalmia or Alice in Wonderland syndrome or Todd syndrome or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia):TI IN DARE, NHSEED, HTA

#8 MeSH DESCRIPTOR Sensation EXPLODE ALL TREES IN DARE,NHSEED,HTA

#9 (somatosensory\* or (sensor\* AND (input\* or stimul\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or processing or percept\* or hallucination\* or pathway\* or evoked potentials or feedback or discriminat\* or dysfunction\* or recogn\* or interpretation))):TI IN DARE, NHSEED, HTA

#10 #4 OR #5 OR #6 OR #7 OR #8 OR #9

#11 #3 AND #10

### **ProQuest Dissertations & Theses Global**

S1 ti(stroke\* or poststroke or apoplex\* or cerebral vasc\* or brain vasc\* or cerebrovasc\* or cva\* or SAH) OR ab(stroke\* or poststroke or apoplex\* or "cerebral vasc\*" or "brain vasc\*" or cerebrovasc\* or cva\* or SAH)

S2 ti(percept\* NEAR/3 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*)) OR ab(percept\* NEAR/3 (impair\* or problem\* or abilit\* or deficit\* or distortion\* or defect\* or disabilit\* or disturbance\* or disorder\* or discriminat\* or deaf\*))

S3 ti(agnosis or agnosia or anosognosia or prosopagnosia or prosopthalmia or "Alice in Wonderland syndrome" or "Todd syndrome" or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia) OR ab(agnosis or agnosia or anosognosia or prosopagnosia or prosopthalmia or "Alice in Wonderland syndrome" or "Todd syndrome" or all?esthesia\* or syn?esthesia\* or hypoesthesia or hyperesthesia)

S4 ti(somatosensory\* OR (sensor\* NEAR/3 (input\* OR stimul\* OR deficit\* OR distortion\* OR defect\* OR disabilit\* OR disturbance\* OR disorder\* OR discriminat\* OR processing OR percept\* OR hallucination\* OR pathway\* OR "evoked potentials" OR feedback OR discriminat\* OR dysfunction\* OR recogn\* OR interpretation))) OR ab(somatosensory\* OR (sensor\* NEAR/3 (input\* OR stimul\* OR deficit\* OR distortion\* OR defect\* OR disabilit\* OR disturbance\* OR disorder\* OR discriminat\* OR processing OR percept\* OR hallucination\* OR pathway\* OR "evoked potentials" OR feedback OR discriminat\* OR dysfunction\* OR recogn\* OR interpretation)))

S5 S2 OR S3 OR S4

S6 S1 AND S5

**US National Institutes of Health Ongoing Trials Register ClinicalTrials.gov**

**(www.clinicaltrials.gov)**

( perception OR agnosis OR agnosia OR anosognosia OR allesthesia OR hypoesthesia OR hyperesthesia OR somatosensory OR sensory OR sensation OR hearing OR aural OR smell OR olfactory OR taste OR gustatory OR touch OR tactile OR vision OR visual OR optic OR ocular OR proprioception ) AND AREA[ConditionSearch] ( Vertebral Artery OR Brain Infarction OR Intracranial Hemorrhages OR Carotid Artery Diseases OR Brain Ischemia OR Cerebral Hemorrhage OR Cerebrovascular Disorders OR Stroke )

1. Phases are: ALL;

Basic search: perception AND CEREBROVASCULAR OR agnosis AND CEREBROVASCULAR OR agnosia AND CEREBROVASCULAR OR anosognosia AND CEREBROVASCULAR OR allesthesia AND CEREBROVASCULAR OR hypoesthesia AND CEREBROVASCULAR OR hyperesthesia AND CEREBROVASCULAR OR somatosensory AND CEREBROVASCULAR OR sensory AND CEREBROVASCULAR OR sensation AND CEREBROVASCULAR OR hearing AND CEREBROVASCULAR OR aural AND CEREBROVASCULAR OR smell AND CEREBROVASCULAR OR olfactory AND CEREBROVASCULAR OR taste AND CEREBROVASCULAR OR gustatory AND CEREBROVASCULAR OR touch AND CEREBROVASCULAR OR tactile AND CEREBROVASCULAR OR vision AND CEREBROVASCULAR OR visual AND CEREBROVASCULAR OR optic AND CEREBROVASCULAR OR ocular AND CEREBROVASCULAR OR proprioception

2. Phases are: ALL;

Basic search: perception AND STROKE OR agnosis AND STROKE OR agnosia AND STROKE OR anosognosia AND STROKE OR allesthesia AND STROKE OR hypoesthesia AND STROKE OR hyperesthesia AND STROKE OR somatosensory AND STROKE OR sensory AND STROKE OR sensation AND STROKE OR hearing AND STROKE OR aural AND STROKE OR smell AND STROKE OR olfactory AND STROKE OR taste AND STROKE OR gustatory AND STROKE OR touch AND STROKE OR tactile AND STROKE OR vision AND STROKE OR visual AND STROKE OR optic AND STROKE OR ocular AND STROKE OR proprioception

2. Phases are: ALL;

Basic search: perception AND CEREBRAL OR agnosis AND CEREBRAL OR agnosia AND CEREBRAL OR anosognosia AND CEREBRAL OR allesthesia AND CEREBRAL OR hypoesthesia AND CEREBRAL OR hyperesthesia AND CEREBRAL OR somatosensory AND CEREBRAL OR sensory AND CEREBRAL OR sensation AND CEREBRAL OR hearing AND CEREBRAL OR aural AND CEREBRAL OR smell AND CEREBRAL OR olfactory AND CEREBRAL OR taste AND CEREBRAL OR gustatory AND CEREBRAL OR touch AND CEREBRAL OR tactile AND CEREBRAL OR vision

AND CEREBRAL OR visual AND CEREBRAL OR optic AND CEREBRAL OR ocular  
AND CEREBRAL OR proprioception

## **Epistemonikos**

(title:((title:(stroke\* OR poststroke OR apoplex\* OR "cerebral vasc\*" OR "brain vasc\*" OR cerebrovasc\* OR cva\* OR SAH) OR abstract:(stroke\* OR poststroke OR apoplex\* OR "cerebral vasc\*" OR "brain vasc\*" OR cerebrovasc\* OR cva\* OR SAH)) AND  
(title:(perception OR agnosis OR agnosia OR anosognosia OR allesthesia OR hypoesthesia OR hyperesthesia OR somatosensory OR sensory OR sensation OR hearing OR aural OR smell OR olfactory OR taste OR gustatory OR touch OR tactile OR vision OR visual OR optic OR ocular OR proprioception) OR abstract:(perception OR agnosis OR agnosia OR anosognosia OR allesthesia OR hypoesthesia OR hyperesthesia OR somatosensory OR sensory OR sensation OR hearing OR aural OR smell OR olfactory OR taste OR gustatory OR touch OR tactile OR vision OR visual OR optic OR ocular OR proprioception)))) OR  
abstract:((title:(stroke\* OR poststroke OR apoplex\* OR "cerebral vasc\*" OR "brain vasc\*" OR cerebrovasc\* OR cva\* OR SAH) OR abstract:(stroke\* OR poststroke OR apoplex\* OR "cerebral vasc\*" OR "brain vasc\*" OR cerebrovasc\* OR cva\* OR SAH)) AND  
(title:(perception OR agnosis OR agnosia OR anosognosia OR allesthesia OR hypoesthesia OR hyperesthesia OR somatosensory OR sensory OR sensation OR hearing OR aural OR smell OR olfactory OR taste OR gustatory OR touch OR tactile OR vision OR visual OR optic OR ocular OR proprioception))))

## References

1. Cheyne J. Search strategy for retrieval of references on stroke healthcare in MEDLINE Ovid, [text]. In. University of Edinburgh. College of Medicine and Veterinary Medicine. Cochrane Stroke Group; 2020. <http://dx.doi.org/10.7488/ds/2862>