

Supplementary materials

1) Search strategy

We searched the following resources from inception up to June 2015:

- The Cochrane Central Register of Controlled Trials (CENTRAL)
- ALOIS (Cochrane dementia group)
- AMED (EBSCO)
- CENTRAL (Cochrane Library)
- CINAHL (EBSCO)
- EMBASE (Ovid)
- EMBASE classic (Ovid)
- LILACS (Bireme)
- Medline (Ovid)
- Psychosocial instruments (Ovid)
- PsycINFO (EBSCO)
- Science Citation Index Expanded (SCI-Expanded) (ISI Web of Science)
- Social Sciences Citation Index (SSCI) (ISI Web of Science)
- Arts & Humanities Citation Index (A&HCI) (ISI Web of Science)

We hand searched the following conference proceedings:

- European Stroke Conference 2015
- International Stroke Conference 2015
- UK Stroke Forum 2015

We searched the following specialist titles relating to music and music interventions:

- Music Perception (University of California Press)
- Psychology of Music (Sage)
- Journal of Music Therapy (Oxford University Press)
- British Journal of Music Therapy (British Association for Music Therapy)
- Music and Medicine (PKP Publishing services)
- Psychomusicology (American Psychological Association)
- Musicae Scientiae (Sage)

We searched for studies that are currently in progress, or recently completed and unpublished using the following resources:

- WHO International clinical Trials Registry Platform
- EU Clinical Trials Register
- US NIH Clinical Trials Registry
- Australia and New Zealand Clinical Trials Registry (ANZCTR)
- Chinese Clinical Trials Registry (ChiCTR)
- the Stroke Trials Registry

Finally we attempted to contact research teams we knew to be active in designing music interventions for neurological conditions using electronic mail at various points during the review process.

2) Database search strategy

1. Ovid (MEDLINE, Embase, and Health & Psychosocial Instruments)

Stroke Search Terms	
1	cerebrovascular disorders/ or exp basal ganglia cerebrovascular disease/ or exp brain ischemia/ or exp carotid artery diseases/ or exp intracranial arterial diseases/ or exp intracranial embolism and thrombosis/ or exp intracranial hemorrhages/ or exp stroke/ or exp brain infarction/ or exp vertebral artery dissection/
2	(stroke or cerebrovasc\$ or brain vas\$ or cerebral vas\$ or cva\$ or apoplex\$).tw.
3	((brain\$ or cerebr\$ or cerebell\$ or vertebrobasilar or hemispher\$ or intracran\$ or intracerebral or infratentorial or supratentorial or MCA or anterior circulation or posterior circulation or basal ganglia) adj5 (isch?emi\$ or infarct\$ or thrombo\$ or emboli\$)).tw.
4	((brain\$ or cerebr\$ or cerebell\$ or intracerebral or intracran\$ or parenchymal or intraventricular or infratentorial or supratentorial or basal gangli\$) adj5 (haemorrhage\$ or hemorrhage\$ or haematoma\$ or hematoma\$ or bleed\$)).tw.
5	(stroke or poststroke or post*stroke or cerebrovasc\$ or brain vas\$ or cerebral vas\$ or cva\$ or apoplex\$ or isch?emi\$ attack\$ or tia\$1 or neurologic\$ deficit\$ or SAH or AVM).tw.
6	1 or 2 or 3 or 4 or 5
Music Search Terms	
7	Exp music
8	Exp music therapy
9	Exp acoustic stimulation
10	(music adj3 listening).tw
11	(music adj3 therap\$).tw
12	(music\$ or rhythmic\$ or melod\$).tw.
13	((auditory or acoustic) adj3 (perception\$ or stimulat\$ or cue\$)).tw.
14	7 or 8 or 9 or 10 or 11 or 12 or 13
Combined Search	
15	6 and 14

2. EBSCO (CINAHL and PsycINFO)

Stroke Search Terms	
S1	stroke* or poststroke* or cva*.
S2	cerebrovascular* or cerebral vascular.
S3	cerebral or cerebellar or brainstem or vertebrobasilar.
S4	infarct* or isch?emi* or thrombo* or apoplexy or emboli*.
S5	S3 and S4
S6	carotid*.
S7	cerebral or intracerebral or intracranial or parenchymal.
S8	brain or intraventricular or brainstem or cerebellar.
S9	infratentorial or supratentorial or subarachnoid.
S10	S7 or S8 or S9
S11	haemorrhage or hemorrhage or haematoma or hematoma or bleeding or aneurysm.
S12	S10 and S11
S13	transient isch?emi*.
S14	aphasi* or dysphasi* or dysphagi* or hemianop* or hemiplegi* or hemipar* or aprax*.

S15	S1 or S2 or S5 or S6 or S12 or S13 or S14
Music Search Terms	
S16	Exp music
S17	Exp music therapy
S18	Exp acoustic stimulation
S19	(music adj3 listening).tw
S20	(music adj3 therap\$).tw
S21	(music\$ or rhythmic\$ or melod\$).tw.
S22	((auditory or acoustic) adj3 (perception\$ or stimulat\$ or cue\$)).tw.
S23	7 or 8 or 9 or 10 or 11 or 12 or 13
Combined Search	
S24	S15 and S23

3. Web of Science

Combined Search	
1	music and stroke

4. Alois

Combined Search	
1	music

5. Clinical trial websites (ClinicalTrials.gov, Clinicaltrialsregister.eu, apps.who.int/trialsearch, ChicTr.org/en, StrokeCenter.org/trials, and ANZCTR.org.au)

Combined Search	
1	Music and stroke

/

after an index term indicates that all subheadings were selected.

*

before an index term indicates that that term was focused - i.e. limited to records where the term was a major MeSH/Emtree term.

"exp"

before an index term indicates that the term was exploded.

.tw.

indicates a search for a term in title/abstract at the end of a term indicates that this term has been truncated.

\$

?

in the middle of a term indicates the use of a wildcard.

adj

indicates a search for two terms where they appear adjacent to one another

3) Data extraction proforma

We extracted data on the following:

- Study specific information: author, year of publication, title, journal
- Trial information: study design, randomisation, blinding
- Intervention details: type of intervention, type of music used, music selection method (participant vs. researcher), length of intervention, dose of music listening intervention (frequency and duration), comparison intervention or control, sampling frame
- Participants: age, sex, primary stroke diagnosis, time since stroke, numbers included at baseline and follow up, numbers with cognitive impairment at baseline
- Outcome information: method of cognitive/mood outcome assessment, results of cognitive/mood assessment at each time point.
- Other information: rates of adverse events, funding source.