

Supplemental Material S1. Final search strategies – scoping review.

Database	DateSearchRun	Results	UniqueResults
Ovid MEDLINE	20191203	1286	1274
EMBASE	20191203	3120	1957
CINAHL	20191203	1955	887
ERIC	20191203	172	25
PsycINFO	20191203	1540	400
CochraneSR	20191203	3	0
LLBA	20191203	883	123
Total	20191203	8959	4666

Ovid MEDLINE

(exp Aphasia/ or exp Anomia/ or (aphasi* or dysphasi* or anomi*).ti,ab,kw.) and (exp Behavior Therapy/ or exp Language Therapy/ or exp Speech Therapy/ or exp Speech-Language Pathology/ or Rehabilitation/ or exp Music Therapy/ or exp Psychotherapy, Group/ or Relaxation/ or Therapy, Computer-Assisted/ or (AAC or cueing strateg* or errorless learning or group psychotherap* or group therap* or aphasia program* or life participation approach or neurofeedback* or orla or semantic cueing or semantic feature analysis or TUF or video model* or virtual reality or ((aphasia or attention or behavior or behavioral or behavioural or behavioural or behavioural or behavioural or cognitive or communication or computer or computerised or constant or conversation or language or lexical or melodic or memory or multimodal or music or orthographic or phonological or naming or reading or repetition or response elaboration or script or self administered or semantic or sentence comprehension or speech or verb network strengthening or visual action or voice or word finding) adj2 (therap* or intervention* or rehabilitation or treatment* or training))).ti,ab,kw,kf.)

limit 10 to yr="2009 -Current" (1286)

Ovid MEDLINE(R) ALL <1946 to December 02, 2019>		
Search	Strategy	Results
1	exp Aphasia/ or exp Anomia/	12118
2	(aphasi* or dysphasi* or anomi*).ti,ab,kw.	16585
3	1 or 2	19655
4	exp Behavior Therapy/ or exp Language Therapy/ or exp Speech Therapy/ or exp Speech-Language Pathology/ or Rehabilitation/ or exp Music Therapy/ or exp Psychotherapy, Group/ or Relaxation/ or Therapy, Computer-Assisted/	130843
5	(AAC or cueing strateg* or errorless learning or group psychotherap* or group therap* or aphasia program* or life participation approach or neurofeedback* or orla or semantic cueing or semantic feature analysis or TUF or video model* or virtual reality).ti,ab,kw,kf.	23194
6	6 ((aphasia or attention or behavior or behavioral or behavioral or behavioral or behavioural or behavioural or behavioural or behavioural or cognitive or communication or computer or computerised or constant or conversation or language or lexical or melodic or memory or multimodal or music or orthographic or phonological or naming or reading or repetition or response elaboration or script or self administered or semantic or sentence comprehension or speech or verb network strengthening or visual action or voice or word finding) adj2 (therap* or intervention* or rehabilitation or treatment* or training)).ti,ab,kw,kf.	95278
7	4 or 5 or 6	209863
8	3 and 7	2439
9	limit 8 to yr="2009 -Current"	1286

EMBASE		
<i>SR_Cavanaugh_Aphasia_2019</i>		
Search	Strategy	Results
#9.	#3 AND #7 AND [2009-2020]/py	3,102
#8.	#3 AND #7	5,131
#7.	#4 OR #5 OR #6	308,275
#6.	((aphasia OR attention OR behavior OR behavioral OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR 'response elaboration' OR script OR 'self administered' OR semantic OR 'sentence comprehension' OR speech OR 'verb network strengthening' OR 'visual action' OR voice OR 'word finding') NEAR/2 (therap* OR intervention* OR rehabilitation OR treatment* OR training)):ti,ab,kw	137,116
#5.	aac:ti,ab,kw OR 'cueing strateg*':ti,ab,kw OR 'errorless learning':ti,ab,kw OR 'group psychotherap*':ti,ab,kw OR 'group therap*':ti,ab,kw OR 'aphasia program*':ti,ab,kw OR 'life participation approach':ti,ab,kw OR neurofeedback*':ti,ab,kw OR orla:ti,ab,kw OR 'semantic cueing':ti,ab,kw OR 'semantic feature analysis':ti,ab,kw OR tuf:ti,ab,kw OR 'video model*':ti,ab,kw OR 'virtual reality':ti,ab,kw	32,788
#4.	'behavior therapy'/exp OR 'cognitive behavioral therapy'/exp OR 'speech and language rehabilitation'/exp OR 'rehabilitation'/de OR 'music therapy'/exp OR 'group therapy'/exp OR	192,359

	'relaxation training'/exp OR 'computer assisted therapy'/de	
#3.	#1 OR #2	35,772
#2.	aphasi*:ti,ab,kw OR dysphasi*:ti,ab,kw OR anomi*:ti,ab,kw	26,306
#1.	'aphasia'/exp	29,472

Search	Strategy	Results
S9	S3 AND S7	1,955
S8	S3 AND S7	2,787
S7	S4 OR S5 OR S6	144,447
S6	TI ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") N2 (therap* OR intervention* OR rehabilitation OR treatment* OR training)) OR AB ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") N2	88,765

	(therap* OR intervention* OR rehabilitation OR treatment* OR training)) OR SU ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") N2 (therap* OR intervention* OR rehabilitation OR treatment* OR training))	
S5	TI (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality") OR AB (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality") OR SU (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality")	10,348
S4	(MH "Behavior Therapy+") OR (MH "Rehabilitation, Speech and Language+") OR (MH "Speech-Language Pathology") OR (MH "Speech-Language Pathologists") OR (MH "Rehabilitation") OR (MH "Music Therapy+") OR (MH "Psychotherapy, Group+") OR (MH "Relaxation") OR (MH "Therapy, Computer-Assisted")	89,900
S3	S1 OR S2	7,117
S2	TI (aphasi* OR dysphasi* OR anomi*) OR AB (aphasi* OR dysphasi* OR anomi*) OR SU (aphasi* OR dysphasi* OR anomi*)	7,117
S1	(MH "Aphasia+") OR (MH "Anomia")	5,492

ERIC		
<i>SR_Cavanaugh_Aphasia_2019</i>		
Search	Strategy	Results
S9	S6 AND S7	172
S8	S6 AND S7	348
S7	S3 OR S4 OR S5	108,954
S6	S1 OR S2	1,386
S5	TI ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") N2 (therap* OR intervention* OR rehabilitation OR treatment* OR training)) OR AB ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") N2 (therap* OR intervention* OR rehabilitation OR treatment* OR training)) OR SU ((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR	24,299

	voice OR "word finding") N2 (therap* OR intervention* OR rehabilitation OR treatment* OR training))	
S4	TI (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality") OR AB (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality") OR SU (AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality")	4,042
S3	DE "Behavior Modification" OR DE "Desensitization" OR DE "Positive Behavior Supports" OR DE "Intervention" OR DE "Therapy" OR DE "Art Therapy" OR DE "Bibliotherapy" OR DE "Educational Therapy" OR DE "Group Therapy" OR DE "Music Therapy" OR DE "Occupational Therapy" OR DE "Physical Therapy" OR DE "Psychotherapy" OR DE "Speech Therapy" OR DE "Therapeutic Recreation" AND DE "Rehabilitation" OR DE "Rehabilitation Counseling" OR DE "Computer Assisted Instruction" OR DE "Intelligent Tutoring Systems"	95,943
S2	TI (aphasi* OR dysphasi* OR anomi*) OR AB (aphasi* OR dysphasi* OR anomi*) OR SU (aphasi* OR dysphasi* OR anomi*)	1,386
S1	DE "Aphasia"	1,049

PsycINFO (Ovid)		
Search	Strategy	Results
1	exp Aphasia/	16738
2	(aphasi* or dysphasi* or anomi*).ti,ab,id.	15540
3	1 or 2	22552

4	exp Behavior Therapy/ or exp Language Therapy/ or exp Speech Therapy/ or exp Speech-Language Pathology/ or Rehabilitation/ or exp Music Therapy/ or exp Group Psychotherapy/ or exp Relaxation Therapy/ or Relaxation/ or Computer Assisted Therapy/	76276
5	(AAC or cueing strateg* or errorless learning or group psychotherap* or group therap* or aphasia program* or life participation approach or neurofeedback* or orla or semantic cueing or semantic feature analysis or TUF or video model* or virtual reality).ti,ab,id.	28124
6	((aphasia or attention or behavior or behavioral or behavioral or behavioral or behavioural or behavioural or behavioural or behavioural or cognitive or communication or computer or computerised or constant or conversation or language or lexical or melodic or memory or multimodal or music or orthographic or phonological or naming or reading or repetition or response elaboration or script or self administered or semantic or sentence comprehension or speech or verb network strengthening or visual action or voice or word finding) adj2 (therap* or intervention* or rehabilitation or treatment* or training)).ti,ab,id.	112289
7	4 or 5 or 6	176509
8	3 and 7	3087
9	limit 8 to yr="2009 -Current"	1540

Cochrane Database of Systematic Reviews (Wiley)		
Search	Strategy	Results
#1	MeSH descriptor: [Aphasia] explode all trees	383
#2	MeSH descriptor: [Anomia] explode all trees	22
#3	(aphasi* OR dysphasi* OR anomi*):ti,ab,kw	1758
#4	#1 OR #2 OR #3	1758
#5	MeSH descriptor: [Behavior Therapy] explode all trees	15593
#6	MeSH descriptor: [Language Therapy] explode all trees	204

#7	MeSH descriptor: [Speech Therapy] explode all trees	253
#8	MeSH descriptor: [Speech-Language Pathology] explode all trees	68
#9	MeSH descriptor: [Rehabilitation] this term only	307
#10	MeSH descriptor: [Music Therapy] explode all trees	766
#11	MeSH descriptor: [Psychotherapy, Group] explode all trees	3299
#12	MeSH descriptor: [Relaxation] this term only	291
#13	MeSH descriptor: [Music Therapy] explode all trees	766
#14	MeSH descriptor: [Therapy, Computer-Assisted] this term only	1254
#15	(AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality"):ti,ab,kw 3695 #16 (aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding"):ti,ab,kw NEAR/2 (therap* OR intervention* OR rehabilitation OR treatment* OR training):ti,ab,kw	51253
#17	#5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16	59133
#18	#4 AND #17 with Cochrane Library publication date Between Jan 2009 and Dec 2019	736

Linguistics and Language Behavior Abstracts (LLBA)		
Search	Strategy	Results
S1	<p>((MAINSUBJECT.EXPLODE("Aphasia") OR MAINSUBJECT.EXPLODE("Anomia")) OR (ab(aphasi* OR dysphasi* OR anomi*) OR ti(aphasi* OR dysphasi* OR anomi*))) AND ((MAINSUBJECT.EXPLODE("Language Therapy") OR MAINSUBJECT.EXPLODE("Speech Therapy") OR MAINSUBJECT.EXPLODE("Psychotherapy")) OR (ti(AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality") or ab(AAC OR "cueing strateg*" OR "errorless learning" OR "group psychotherap*" OR "group therap*" OR "aphasia program*" OR "life participation approach" OR neurofeedback* OR orla OR "semantic cueing" OR "semantic feature analysis" OR TUF OR "video model*" OR "virtual reality"))) OR (ti((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") NEAR/2 (therap* OR intervention* OR rehabilitation OR treatment* OR training))) OR ab((aphasia OR attention OR behavior OR behavioral OR behavioral OR behavioral OR behavioural OR behavioural OR behavioural OR behavioural OR cognitive OR communication OR computer OR computerised OR constant OR conversation OR language OR lexical OR melodic OR memory OR multimodal OR music OR orthographic OR phonological OR naming OR reading OR repetition OR "response elaboration" OR script OR "self administered" OR semantic OR "sentence comprehension" OR speech OR "verb network strengthening" OR "visual action" OR voice OR "word finding") NEAR/2 (therap* OR intervention* OR rehabilitation OR treatment* OR training)))) AND pd(20090101- 20201231)</p>	883