

Supplemental Material S2. The specific database search strategies for each database.

1. Medline

<p>Interface: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily</p> <p>Date of Search: 12 February 2020</p> <p>Number of hits: 2,601</p> <p>Comment: In Ovid, two or more words are automatically searched as phrases; i.e. no quotation marks are needed</p>	<p>Field labels</p> <ul style="list-style-type: none"> • exp/ = exploded MeSH term • / = non exploded MeSH term • .ti,ab,kf. = title, abstract and author keywords • adjx = within x words, regardless of order • * = truncation of word for alternate endings
<ol style="list-style-type: none"> 1. exp Cleft Palate/ 2. exp Cleft Lip/ 3. exp Velopharyngeal Insufficiency/ 4. (harelip* or hare lip* or labiopalatoschi* or palatoschi* or palatischi* or palatolabioschi* or palatum fissum).ti,ab,kf. 5. ((palatopharyngeal or velopharyngeal) adj3 (incompetenc* or insufficienc*)).ti,ab,kf. 6. cleft*.ti,ab,kf. 7. 1 or 2 or 3 or 4 or 5 or 6 8. exp "Rehabilitation of Speech and Language Disorders"/ 9. exp "Early Intervention (Education)"/ 10. exp Speech Production Measurement/ 11. (articulat* or language* or misarticulat* or phonolog* or speech* or voice*).ti,ab,kf. 12. (therap* or training or treat* or rehabilitat* or intervention*).ti,ab,kf. 13. 11 and 12 14. (early adj3 (educat* or intervention*)).ti,ab,kf. 15. (Speech adj3 (assess* or screen* or measure* or outcome* or evaluat* or test*)).ti,ab,kf. 16. 8 or 9 or 10 or 13 or 14 or 15 17. 7 and 16 18. 17 not (animals not humans).sh. 	

2. Embase

<p>Interface: embase.com</p> <p>Date of Search: 12 February 2020</p> <p>Number of hits: 3,359</p> <p>Comment: Emtree is the controlled vocabulary in Embase</p>	<p>Field labels</p> <ul style="list-style-type: none"> • /exp = exploded Emtree term • /de = non exploded Emtree term • ti,ab = title and abstract • NEAR/x = within x words, regardless of order • * = truncation of word for alternate endings
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#18 NOT ([animals]/lim NOT [humans]/lim)

#18 #8 AND #17

#17 #9 OR #10 OR #11 OR #14 OR #15 OR #16

#16 (speech NEAR/3 (assess* OR screen* OR measure* OR outcome* OR evaluat* OR test*)):ti,ab,kw

#15 (early NEAR/3 (educat* OR intervention*)):ti,ab,kw

#14 #12 AND #13

#13 therap*:ti,ab,kw OR training:ti,ab,kw OR treat*:ti,ab,kw OR rehabilitat*:ti,ab,kw OR intervention*:ti,ab,kw

#12 articul*:ti,ab,kw OR language*:ti,ab,kw OR misarticulat*:ti,ab,kw OR phonolog*:ti,ab,kw OR speech*:ti,ab,kw OR voice*:ti,ab,kw

#11 'speech analysis'/exp

#10 'early childhood intervention'/de

#9 'speech rehabilitation'/exp

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

#7 cleft*:ti,ab,kw

#6 ((palatopharyngeal OR velopharyngeal) NEAR/3 (incompetenc* OR insufficienc*)):ti,ab,kw

#5 harelip*:ti,ab,kw OR 'hare lip':ti,ab,kw OR labiopalatoschi*:ti,ab,kw OR palatoschi*:ti,ab,kw OR palatischi*:ti,ab,kw OR palatolabioschi*:ti,ab,kw OR 'palatum fissum':ti,ab,kw

#4 'cleft lip face palate'/exp

#3 'cleft lip with or without cleft palate'/exp

#2 'palatopharyngeal incompetence'/exp

#1 'cleft palate'/exp

3. Cochrane Library

Interface: Wiley	Field labels
Date of Search: 12 February 2020	<ul style="list-style-type: none"> • ti,ab,kw = title, abstract and author keywords • NEAR/x = within x words, regardless of order • * = truncation of word for alternate endings
Number of hits: 173 (17 +156)	
<p>#1 (harelip* or (hare NEXT lip*) or labiopalatoschi* or palatoschi* or palatischi* or palatolabioschi* or "palatum fissum"):ti,ab,kw</p> <p>#2 ((palatopharyngeal or velopharyngeal) NEAR/3 (incompetenc* or insufficienc*)):ti,ab,kw</p> <p>#3 cleft*:ti,ab,kw</p> <p>#4 #1 OR #2 OR #3</p> <p>#5 (articulat* or language* or misarticulat* or phonolog* or speech* or voice*):ti,ab,kw</p> <p>#6 (therap* or training or treat* or rehabilitat* or intervention*):ti,ab,kw</p> <p>#7 #5 AND #6</p> <p>#8 (early NEAR/3 (educat* or intervention*)):ti,ab,kw</p> <p>#9 (speech NEAR/3 (assess* or screen* or measure* or outcome* or evaluat* or test*))</p> <p>#10 #7 OR #8 OR #9</p> <p>#11 #4 AND #10</p>	

4. Web of Science Core Collection

<p>Interface: Clarivate Analytics</p> <p>Date of Search: 12 February 2020</p> <p>Number of hits: 1,711</p>	<p>Field labels</p> <ul style="list-style-type: none"> • TS/Topic = title, abstract, author keywords and Keywords Plus • NEAR/x = within x words, regardless of order • * = truncation of word for alternate endings <p>Note: sometimes "quotation marks" are needed for single search terms to avoid automatic term mapping (lemmatization).</p>
<p>#1 TOPIC: ((harelip* or "hare lip*" or labiopalatoschi* or palatoschi* or palatischi* or palatolabioschi* or "palatum fissum")) OR TOPIC: (((palatopharyngeal or velopharyngeal) NEAR/2 (incompetenc* or insufficienc*))) OR TOPIC: (cleft*)</p> <p>#2 TOPIC: ((articulat* or language* or misarticulat* or phonolog* or speech* or voice*))</p> <p>AND TOPIC: ((therap* or training or treat* or rehabilitat* or intervention*))</p> <p>#3 TOPIC: ((early NEAR/2 (educat* or intervention*))) OR TOPIC: ((speech NEAR/2 (assess* or screen* or measure* or outcome* or evaluat* or test*)))</p> <p>#4 #3 OR #2</p> <p>#5 #4 AND #1</p>	

5. Psycinfo

<p>Interface: Ovid</p> <p>Date of Search: 12 February 2020</p> <p>Number of hits: 267</p> <p>Comment: In Ovid, two or more words are automatically searched as phrases; i.e. no quotation marks are needed</p>	<p>Field labels</p> <ul style="list-style-type: none"> • exp/ = exploded controlled term • / = non exploded controlled term • .ti,ab,id. = title, abstract and author keywords • adjx = within x words, regardless of order • * = truncation of word for alternate endings
<p>1. exp Cleft Palate/ 2. (harelip* or hare lip* or labiopalatoschi* or palatoschi* or palatisci* or palatolabioschi* or palatum fissum).ti,ab,id. 3. ((palatopharyngeal or velopharyngeal) adj3 (incompetenc* or insufficienc*)).ti,ab,id. 4. cleft*.ti,ab,id. 5. 1 or 2 or 3 or 4 6. Speech Therapy/ 7. Language Therapy/ 8. Early Intervention/ 9. (articulat* or language* or misarticulat* or phonolog* or speech* or voice*).ti,ab,id. 10. (therap* or training or treat* or rehabilitat* or intervention*).ti,ab,id. 11. 9 and 10 12. (early adj3 (educat* or intervention*)).ti,ab,id. 13. (Speech adj3 (assess* or screen* or measure* or outcome* or evaluat* or test*)).ti,ab,id. 14. 6 or 7 or 8 or 11 or 12 or 13 15. 5 and 14</p>	

6. Cinahl

Interface: Ebsco		Field labels
Date of Search: 12 February 2020		<ul style="list-style-type: none">• MH+ = exploded Cinahl Heading• MH = non exploded Cinahl Heading• TI = title• AB = abstract• Nx = within x words, regardless of order• * = truncation of word for alternate endings
Number of hits: 646		
S17	S7 AND S16	
S16	S8 OR S9 OR S10 OR S13 OR S14 OR S15	
S15	TI ((speech N2 (assess* or screen* or measure* or outcome* or evaluat* or test*))) OR AB ((speech N2 (assess* or screen* or measure* or outcome* or evaluat* or test*)))	
S14	TI ((early N2 (educat* or intervention*))) OR AB ((early N2 (educat* or intervention*)))	
S13	S11 AND S12	
S12	TI ((therap* or training or treat* or rehabilitat* or intervention*)) OR AB ((therap* or training or treat* or rehabilitat* or intervention*))	
S11	TI ((articulat* or language* or misarticulat* or phonolog* or speech* or voice*)) OR AB ((articulat* or language* or misarticulat* or phonolog* or speech* or voice*))	
S10	(MH "Speech Production Measurement+")	
S9	(MH "Early Intervention+")	
S8	(MH "Rehabilitation, Speech and Language+")	
S7	S1 OR S2 OR S3 OR S4 OR S5 OR S6	
S6	TI cleft* OR AB cleft*	
S5	TI (((palatopharyngeal or velopharyngeal) N2 (incompetenc* or insufficienc*))) OR AB (((palatopharyngeal or velopharyngeal) N2 (incompetenc* or insufficienc*)))	
S4	TI ((harelip* or "hare lip*" or labiopalatoschi* or palatoschi* or palatischi* or palatolabioschi* or "palatum fissum")) OR AB ((harelip* or "hare lip*" or labiopalatoschi* or palatoschi* or palatischi* or palatolabioschi* or "palatum fissum"))	
S3	(MH "Velopharyngeal Insufficiency")	
S2	(MH "Cleft Lip")	
S1	(MH "Cleft Palate")	