

Table Supplementary Digital Context 2: Overview of the 37 Articles that were Identified but that did not Match the Defined Inclusion Criteria.

Study	Reason for exclusion
1. Casserly and Barney (2017)	Normal hearing participants
2. Chisolm et al. (2013)	No speech OCM; Data taken from of Saunders et al. 2016 with different focus of analysis
3. Dawes, Munro, Kalluri, and Edwards (2014a)	No auditory training protocol
4. Dawes, Munro, Kalluri, and Edwards (2014b)	No auditory training protocol
5. Dubno (2013)	Pilot data / protocol
6. Giroud, Lemke, Reich, Matthes, and Meyer (2017a)	Normal hearing participants
7. Giroud, Lemke, Reich, Matthes, and Meyer (2017b)	No auditory training protocol
8. Glyde, Cameron, Dillon, and Hickson (2014)	No RCT with appropriate control group
9. Henshaw and Ferguson (2013)	Pilot data / protocol
10. Henshaw and Ferguson (2014)	No RCT with appropriate control group
11. Henshaw, McCormack, and Ferguson (2015)	No speech OCM; Data taken from Ferguson et al. 2014 with different focus of analysis
12. Ihler et al. (2017)	Cochlear implant users
13. Kang, Sarro, and Sanes (2014)	Animal study
14. Kraus et al. (2014)	No auditory training protocol
15. Leo et al. (2012)	Pilot data / protocol
16. Moradi, Wahlin, Hällgren, Rönnerberg, and Lidestam (2017)	Comparison of auditory vs. audio-visual training
17. Neger, Rietveld, and Janse (2014)	No speech OCM; No RCT
18. Ng et al. (2014)	No auditory training protocol
19. Nkyekyer, Meyer, Blamey, Pipingas, and Bhar (2018)	Pilot data / protocol
20. Oberg et al. (2014)	No RCT with appropriate control group
21. Sabin, Clark, Eddins, and Wright (2013)	No RCT with appropriate control group
22. Santos et al. (2014)	No RCT with appropriate control group
23. Scharenborg and Janse (2013)	No RCT with appropriate control group
24. Scharenborg, Weber, and Janse (2015)	No RCT with appropriate control group
25. Schumann, Garcia, and Hoppe (2017)	No English version available
26. Smith, Saunders, Chisolm, Frederick, and Bailey (2016)	No speech OCM; Data taken from Saunders et al. 2016 with different focus of analysis
27. Sommers, Tye-Murray, Barcroft, and Spehar (2015)	No speech OCM; no RCT with appropriate control group
28. Thorén, Öberg, Andersson, and Lunner (2015)	No auditory training protocol
29. Thorén, Öberg, Wänström, Andersson, and Lunner (2014)	No auditory training protocol
30. Tremblay and Backer (2016)	Review article
31. Tremblay, Ross, Inoue, McClannahan, and Collet (2014)	No auditory training protocol
32. Tye-Murray, Spehar, Barcroft, and Sommers (2017)	No RCT with appropriate control group
33. Tye-Murray, Spehar, Sommers, and Barcroft (2016)	No RCT with appropriate control group
34. Vitti, Blasca, Sigulem, and Torres Pisa (2015)	No speech outcome measures
35. Wayne, Hamilton, Huyck, and Johnsrude (2016)	No auditory (only cognitive) training
36. Whitton, Hancock, Shannon, and Polley (2017)	Audio-motor training protocol
37. Woods et al. (2015)	No RCT with appropriate control group