

Supplementary Material 1 – Excluded articles and reason for exclusion (n=87).

Author, Year	Reason for exclusion
Amlani ¹	4
Arthi and Sreenivas ²	3
Azarov et al. ³	4
Bauer et al. ⁴	1
Bornman et al. ⁵	4
Brennan-Jones et al. ⁶	1
Bright et al. ⁷	3
Brook and Williams ⁸	5
Byrne, Schmitt and Murphy ⁹	5
Chauhan and Shah ¹⁰	4
Chen and Wang ¹¹	4
Chen et al. ¹²	4
Choi et al. ¹³	3
Colsmann et al. ¹⁴	1
Corrêa, Soldera and Machado ¹⁵	5
Costa, Eto & Lucas ¹⁶	1
Derin et al. ¹⁷	4
Dewyer et al. ¹⁸	4
DiGiovanni and Rizzo ¹⁹	4
Dritsakis et al. ²⁰	4
Fetscher ²¹	3
Ganesan, et al. ²²	3
Garrison e Bochner ²³	1
Garrison et al. ²⁴	1
Han et al. ²⁵	4
Hong, et al. ²⁶	2
Hollander et al. ²⁷	3
Hussein et al. ²⁸	3
Jacobs and Saunders ²⁹	3
Jacobs et al. ³⁰	5
Jayawardena et al. ³¹	3
Kam et al. ³²	4
Kam and Fu ³³	1
Kelly et al. ³⁴	1
Krzyzek et al. ³⁵	4
Laitinen et al. ³⁶	6
Larrosa et al. ³⁷	4
Leonidas et al. ³⁸	3
Liu et al. ³⁹	1
Livshitz et al. ⁴⁰	1
Löhler et al. ⁴¹	1
Lycke et al. ⁴²	4
Lycke et al. ⁴³	1
Magro et al. ⁴⁴	1
Mahomed-Asmail ⁴⁵	6

Martinez-Beneyto et al. ⁴⁶	4
Masalski et al. ⁴⁷	3
Messmer et al. ⁴⁸	6
Monica et al. ⁴⁹	1
Na et al. ⁵⁰	4
Nakamura ⁵¹	3
Ogah ⁵²	4
Oliveira et al. ⁵³	6
Ondáš et al. ⁵⁴	1
Ozdek et al. ⁵⁵	1
Paglialonga et al. ⁵⁶	3
Paglialonga, Tognola and Pincirolì ⁵⁷	3
Paglialonga, Tognola and Pincirolì ⁵⁸	5
Paz-Oliveira et al. ⁵⁹	3
Pereira et al. ⁶⁰	4
Pickens et al. ⁶¹	4
Potgieter et al. ⁶²	3
Rashid, Dreschler and Laat ⁶³	1
Saibua, Seesutas and Iransena ⁶⁴	3
Saliba et al. ⁶⁵	1
Saly ⁶⁶	4
Samelli et al. ⁶⁷	1
Samelli et al. ⁶⁸	1
Schönborn et al. ⁶⁹	4
Sethi et al. ⁷⁰	5
Sheikh and Sheikh ⁷¹	1
Skarżyński et al. ⁷²	1
Sohn et al. ⁷³	4
Souza et al. ⁷⁴	1
Teixeira et al. ⁷⁵	6
Teki, Kumar and Griffiths ⁷⁶	3
Tognola et al. ⁷⁷	3
Tonder et al. ⁷⁸	4
Vijayasingam et al. ⁷⁹	1
Vlaming et al. ⁸⁰	4
Wongsirichot et al. ⁸¹	4
Xing et al. ⁸²	5
Yang et al. ⁸³	5
Yao et al. ⁸⁴	1
Yeung et al. ⁸⁵	1
Yimtae et al. ⁸⁶	1
Zarei ⁸⁷	6

Legend: 1. Studies that did not use phone apps; 2. Studies that were not audiology-related; 3. Studies that did not compare smartphone app-based diagnostic methods with the reference standard (audiometry); 4 Studies that did not show any validity measurements (sensitivity and specificity) or did not show sufficient data to calculate them; 5. Comments, letters, conference, summary, personal opinions, and clinical trials; 6. Unavailable studies.

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