Table S3. Overeferral Performance Indicators

ID	Source	# with hearing loss risk factors / # screened (%)	I5: Referral rate after discharge (% of screened)	I5 within 5- 20% (for OAE) or ≤4% (for ABR or OAE+ABR) [A, I, N.R.]	I6: Referral rate for definitive audiological evaluation after screening	I6 <4% [A, I, N.R.]	I7: False Positive Rate	I7 ≤3% [A, I, N.R.]
1	Bevilacqua M, 2010 ³³	1,284 / 11,466 (11.2%)	2,546 / 11,466 (22.2%)	I – OAE	382 / (11,466 – 519) (3.5%)	A	312 / (10,893 – 519) (3.0%)	A
2	Calevo M, 2007 ³⁴	462 / 32,306 (1.4%)	- without audiological risk factor: 3,012 / 31,796 (9.5%); - at higher audiological risk: 510 / 510 (100.0%) - globally: 3,522 / 32,306 (10.9%)	A – OAE	a) without audiological risk factor: 19 / (31,796 – 180) (0.06%) ^a b) at higher audiological risk: 22 / 462 (4.8%) Globally: 41 / 32,258 (0.1%)	A	0,28% (reported)	A
3	Cebulla M, 2012 ³⁵	N.R. / 6868 (N.R.%)	Well baby newborn: 261 / 6,868 (3.8%)	A - aABR	188 / (6,868 - 2) (2.7%)	А	141 / (6,819 - 2) (2.1%)	Α
4	De Capua, 2007 ³⁶	1,344 / 19,700 (6.8%)	≤2,893 / 19,700 (14.7%) ^b	A – OAE	35 / (19,700 – 255) (0.2%)	Α	0 / (19,665 – 255) (0.0%)	А
5	Guastini L, 2010 ³⁷	264 / 8,671 (3.0%)	- without audiological risk factor: 430 / 8,407 (5.1%); - at higher audiological risk: 264 / 264 (100.0%) - globally: 694 / 8,671 (8,0%)	A – OAE	6 / (8,671 – 42) (0.07%)	A	0 / (8,665 – 42) (0.0%)	A

^a 3 neonates with transient Hearing Loss resolved by month 12 have been included

^b 2,893 is the sum of 1,549 positive at first TOAE and 1,344 High Risk (among which a number of neonates classified as *TOAE refer* were included); even for the worst case of no high risk neonate without OAE the benchmark would be achieved.

ID	Source	# with hearing loss risk factors / # screened (%)	I5: Referral rate after discharge (% of screened)	I5 within 5- 20% (for OAE) or ≤4% (for ABR or OAE+ABR) [A, I, N.R.]	I6: Referral rate for definitive audiological evaluation after screening	I6 <4% [A, I, N.R.]	I7: False Positive Rate	I7 ≤3% [A, I, N.R.]
6	Habib H, 2005 ³⁸	0 / 11,986 (0%)	without audiological risk factor: 300 / 11,986 (2.5%)	N.R. – OAE	300 / 11,986 (2.5%)	А	278 / 11,986 (2.3%)	А
7	Kennedy C, 2005 ³⁹	1,724 / 21,279 (8.1%)	N.R. / N.R. (2.5% at the start of the program. to 1.6% at a later stage)	A - OAE/ABR	N.R. / N.R. (2.5% at the start of the program. to 1.6% at a later stage)	A	319 / 21,279 (1.5%)	А
8	Korres S, 2008 ⁴⁰	N.R. / 76,560 (N.R.)	1,688 / 76,560 (2.2%)	A - OAE	404 / (76,560 – 1,230) (0.5%)	A	99 / (75,330 - 1,230) (0.1%)	А
9	Lin H, 2007 ⁴¹	Three Protocols used (see Tab 2): a) N.R. / 18,260 (N.R.); b) N.R. / 3,540 (N.R.); c) N.R. / 3,788 (N.R.);	a) 5.8% (2-3 tests); b) 1.6% (2 tests); c) 0.8% (2 tests)	a) A - OAE; b) A - OAE/ABR; c) A - ABR	Three protocols used (see Table 2): a) 1,055 / (18,260 – 196) (5.8%); b) 57 / (3,540 – 17) (1.6%); c) 31 / (3,788 – 3) (0.8%)	a) I; b) A; c) A	a) 776 / (18,064 – 196) (4.3%); b) 31 / (3,523 – 17) (0.9%); c) 12 / (3,785 – 3) (0.3%)	a) I; b) A; c) A
10	Rohlfs AK, 2010 ⁴²	N.R. / 60.782 (N.R.)	1.963 / 60,782 (3,2%)	A - ABR	217 / (60,782 - 701) (0.4%)	А	33 / (60,664 - 701) (0.05%)	А
11	Tatli MM, 2007 ⁴³	N.R. / 711 (N.R.) ^c	N.R. / N.R. (N.R.)	N.R OAE	5 / (711 – 6) (0.7%)	А	0.3% reported by the authors	А

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^c Authors report that 236 out of 711 (33.2%) are from NICU

ID	Source	# with hearing loss risk factors / # screened (%)	I5: Referral rate after discharge (% of screened)	I5 within 5- 20% (for OAE) or ≤4% (for ABR or OAE+ABR) [A, I, N.R.]	I6: Referral rate for definitive audiological evaluation after screening	I6 <4% [A, I, N.R.]	I7: False Positive Rate	I7 ≤3% [A, I, N.R.]
12	Tsuchiya H, 2006 ⁴⁴	N.R. / 8,979 (high risk neonates needing intensive care not included)	37 / 8,979 (0.4%)	N.R ABR	31 / (8,979 – 1) (0.3%)	A	6 / (8,978 – 1) (0.07%)	A