

Published Literature on Prevalence of Hearing Loss in Children

Author	Published Year	Country	Study Period	Age at identification	Cases (n)	Population (N)	Decibel Threshold	Case Identification Method(s)	Prevalence/1000 (95% CI)
Kankkunen	1982	Sweden	1964-1969 [#]	<6 years	50	40963 live births	>40 dB	Medical Records	1.2 (0.9, 1.6)
			1970-1979 [#]	6 years	179	31286 live births	>40 dB	Medical Records/Questionnaire	1.3 (1.0, 1.8)
Martin	1982	EEC	1969 [#]	8 years	3462	4126268 live births	≥50 dB	Questionnaire	0.84 (0.81, 0.87)
Upfold	1982	Australia	1949-1980 [#]	<18 years	16199	7231000 live births	~60-90 dB	Medical Records	2.24 (2.20, 2.28)
Parving	1983	Denmark	1970-1979 [#]	2-12 years	117	82265 live births	≥35 dB	Medical Records	1.4 (1.2, 1.7)
McPherson	1985	Gambia	1983	2-10 years	433	130776 children	≥30 dB	Screening	3.3 (3.0, 3.6)
Newton	1985	United Kingdom	1977-1980 [#]	<6 years	111	136720 live births	>25 dB*	Medical Records	0.8 (0.7, 1.0) ¹
Sorri	1985	Finland	1966 [#]	15 years	64	11748 children	>25 dB	Screening	5.4 (4.3, 6.7)
Sehlin	1990	Sweden	1964-1983 [#]	≤20 years	160	63463 live births	≥30 dB	Registry	7.5 (2.2, 2.9)
Davis	1992	United Kingdom	1983-1986 [#]	3-6 years	41	29317 live births	≥50 dB	Medical Records	1.4 (1.0, 1.9)
Parving	1993	Denmark	1970-1980 [#]	2-12 years	117	82265 live births	≥25 dB	Registry	1.4 (1.2, 1.7)
			1980-1990 [#]	2-12 years	94	60985 live births	≥25 dB	Registry	1.5 (1.3, 1.9)
Karikoski	1994	Finland	1973-1990 [#]	≤18 years	353	270726 children	≥30 dB	Medical Records	1.3 (1.2, 1.5)
Davis	1995	United Kingdom	1983-1988 [#]	3-5 years	200	164929 live births	≥40 dB*	Screening/Registry	1.2 (1.1, 1.4) ¹
Baille	1996	France	1976-1985 [#]	<9 years	217	327095 live births	>70 dB	Education Records	0.7 (0.6, 0.8) ¹
Darin	1997	Sweden	1980-1984 [#]	6-10 years	55	27881 live births	>20 dB	Medical Records	2.0 (1.5, 2.6)
Fortnum	1997	United Kingdom	1985-1993 [#]	2-10 years	653	552558 live births	≥40 dB	Medical Records	1.2 (1.1, 1.3)
Vartianen	1997	Finland	1974-1987 [#]	<9 years	98	46240 live births	≥25 dB*	Screening	1.7 (1.4, 2.1) ¹
Maki-Torkko	1998	Finland	1973-1992 [#]	<14 years	253	212328 live births	≥40 dB	Medical Records	1.2 (1.1, 1.3)
Streppel	1998	Germany	1992-1993 [#]	2-19 years	314	738500 live births	>30 dB	Screening	0.4 (0.38, 0.47)
Varitanen	1998	Finland	1972-1986 [#]	<10 years	84	49090 live births	≥40 dB*	Screening	2.1 (1.7, 2.6) ²
Mencher	2000	Costa Rica	1988	8 years	122	81780 live births	>20 dB*	Screening	1.5 (1.3, 1.8)
Nekahm	2000	Austria	1980-1994 [#]	6-20	165	124809 live births	>40 dB	Medical Records	1.3 (1.1, 1.5)
Uus	2000	Estonia	1985-1990 [#]	8-13 years	240	139535 live births	≥40 dB	Screening	1.7 (1.5, 1.9)
Fortnum	2001	United Kingdom	1995 [#]	3 years	NR	NR	>40 dB	Education/Medical Records	1.1 (1.0, 1.1)
			1982-1989 [#]	9-16 years	NR	NR	>40 dB	Screening/Medical records	2.1 (2.0, 2.1)
Liu	2001	China	1986-1989	<15 years	227	34157 children	>27 dB	Screening/Questionnaire	6.6 (5.8, 7.6)
Levi	2004	Israel	1968-1977 [#]	Children**	82	63950 live births	≥56 dB*	Screening	1.3 (1.0, 1.6) ¹
			1978-1991 [#]	Children**	150	141720 live births	≥56 dB*	Screening	1.1 (0.9, 1.2) ¹
Russ	2007	Australia	1993 [#]	6 years	141	64116 live births	>40 dB	Screening	2.2 (1.9, 2.6)

*sensorineural hearing loss only

**age unknown

[#] live Births

¹ bilateral cases only

² unilateral cases only

³ Survey Questionnaire Item- 'deaf/a lot of trouble hearing'

Abbreviations: dB=decibels; EEC=European Economic Community; n=Frequency; NR=Not Reported.