Demographic Details

Of young Australians aged less than 26 years with a hearing loss, who have been fitted with a hearing aid or cochlear implant at 31 December 2022

Contents

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SUMMARY:

This circular contains summary data on children and young adults fitted with hearing aids or cochlear implants in Australia, who were under the age of 26 years on 31 December 2022 and who were provided with audiological and hearing aid or cochlear implant speech processor support services through Hearing Australia.

The data provides information at national and state / territory level and has been collated from Hearing Australia's electronic client and record management system databases (as a "snapshot"). It includes:

- Number of children who have an aided hearing loss.
- Number of newly fitted children in the 2022 calendar year
- Fitting rates of children, teens and young adults with hearing loss
- Hearing loss distribution of aided/implanted children and young adults
- Fitting rates for Aboriginal and Torres Strait Islander clients under 26 years of age.

The major characteristics of the report show:

- All aided and implanted children and young adults less than 26 years of age on 31 December 2022 who are identified as being 'current and active' as of 31 December 2022
- Data on children and young adults who were first fitted with hearing aids from 1 January to 31 December 2022.

Care should be taken when comparing information from previous reports, and particularly prior to 2007, due to their differing parameters, i.e., the dynamics of the child population characteristics and demography in the database, updated information and calculation rounding at the time the report was compiled.

Differences in other data and calculations shown for similar birth years in previous reports prior to 2007 are due to the timing of the 'snapshot" nature of the report (data were previously collated on 31 March each year) and a change from the way "hearing loss buckets" have been defined. In 2011, the "0-30dB & 31-60dB" groups changed to "0-40dB & 41-60dB" to better reflect the target condition of universal newborn hearing screening. Regular actions across the organization to review and update the information on all aided child clients in the database, have also affected the "snapshot" counts and calculations.

When comparing specific birth years, data may change from one snapshot report to the next, due to clients changing state or territory of residence, ceasing or commencing aid use, or becoming deceased during the intervening period.

Taking the above comments into account this report shows that on 31 December 2022 Hearing Australia provided audiological services, hearing aid and cochlear implant support to 27,176 citizens and permanent residents under 26 years of age, of which 2,364 (8.7 per cent) were Aboriginal or Torres Strait Islander and 51.2 per cent were male.

- 23946 were aged under 21 years.
    - 9.4 per cent were Aboriginal or Torres Strait Islander
- 3,230 were aged from 21-25 years.
    - 3.7 per cent were Aboriginal or Torres Strait Islander

During 2022 a total of 2,971clients was fitted with hearing aids for the first time. 396 of these were children born in 2022. Of the clients first fitted during 2022,

- 2,717 were aged under 21 at the time of first fitting.
- 254 were aged 21-25 years at the time of first fitting.

Profile of the total client base.

On 31 December 2022, Hearing Australia supported the hearing rehabilitation needs of 27,176 citizens and permanent residents under 26 years of age. This represents a 1 per cent increase since December 31, 2021. Figure 1 and Table 1 show the distribution of clients by state/territory of residence on 31 December 2022. Table 2 displays the distribution of clients aged less than 21 years. Table 3 displays the distribution of clients aged 21-25 years.

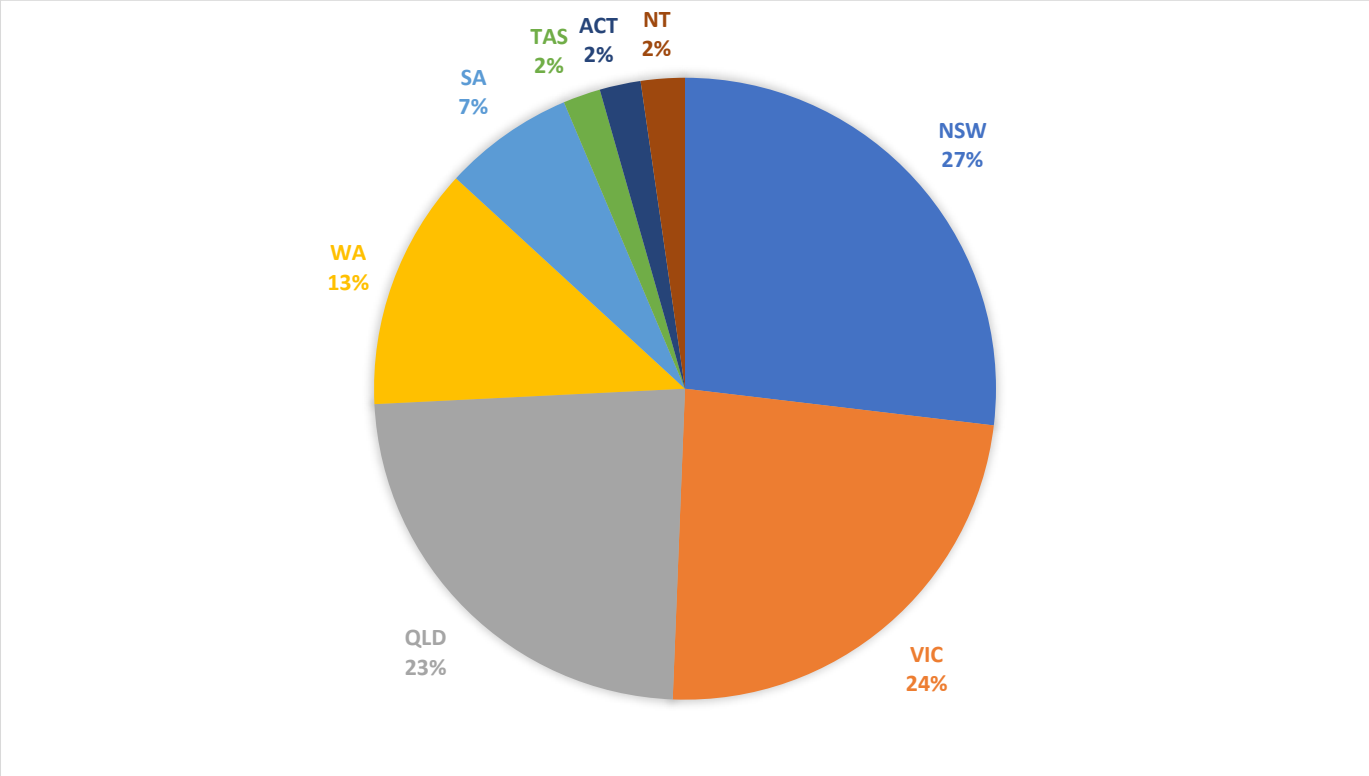

Figure 1: Aided/Implanted Young Australians less than 26 years of age, by state/territory – 31 December 2022.

	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
Number	7306	6453	6408	3429	1850	529	580	621	27176
Per centage	26.9	23.7	23.6	12.6	6.8	1.9	2.1	2.3	100

Table 1: Distribution of Aided/Implanted Young Australians under 26 years of age, by state/territory at 31 December, 2022.

	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
Number	6380	5609	5735	3071	1612	462	494	583	23946
Per centage	26.6	23.4	23.9	12.8	6.7	1.9	2.1	2.4	100

Table 2: Distribution of Aided/Implanted Young Australians aged less than 21 years by state/territory at 31 December, 2022.

	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
Number	926	844	673	358	238	67	86	38	3230
Per centage	28.7	26.1	20.8	11.1	7.4	2.1	2.7	1.2	100

Table 3: Distribution of Aided/implanted Young Australians aged from 21 to less than 26 years by state/territory at 31 December, 2022.

Nationally 11.9 per cent of clients are Young Adults aged from 21 – 25 years.

Table 4 provides further detail about the distribution of aided clients by year of birth, state and territory.

BIRTH YEAR	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
1997	191	188	141	77	53	14	17	16	697
1998	185	186	131	59	48	14	18	5	646
1999	175	157	123	70	47	15	19	4	610
2000	187	145	155	78	40	11	21	9	646
2001	188	168	123	74	50	13	11	4	631
2002	314	249	214	117	75	16	28	12	1025
2003	285	257	212	137	94	22	19	21	1047
2004	272	257	232	137	79	26	20	25	1048
2005	303	260	259	132	91	30	26	22	1123
2006	331	289	300	164	92	34	31	23	1264
2007	364	305	337	169	106	37	36	25	1379
2008	382	287	315	188	101	28	24	36	1361
2009	366	337	343	196	105	40	35	38	1460
2010	388	303	348	179	113	24	31	33	1419
2011	411	353	354	201	109	27	24	43	1522
2012	378	353	371	178	101	27	28	46	1482
2013	370	328	343	204	95	20	25	30	1415
2014	341	312	362	204	93	21	39	32	1404
2015	358	301	324	192	73	24	27	36	1335
2016	306	298	259	151	64	21	20	48	1167
2017	252	238	273	135	62	20	17	39	1036
2018	218	200	224	110	46	8	15	34	855
2019	218	203	230	100	32	11	13	19	826
2020	197	192	183	78	30	9	15	7	711
2021	206	182	164	65	26	10	12	11	676
2022	120	105	88	34	25	7	9	3	391
Total	7306	6453	6408	3429	1850	529	580	621	27176

Table 4: All clients aged less than 26 years who have been fitted with a hearing aid and/or cochlear implant, National Summary by State/Territory and Birth Year on 31 December 2022.

Gender

Nationally, 51.2 per cent of clients identified as male, 48.6 per cent as female and 0.1 per cent as intersex.

Hearing Loss

The vast majority of clients (65%) who use amplification have a better ear 3-Frequency Average Hearing Loss (3FAHL) of 0 to 40 dBHL; that is, their better ear hearing ranges from within normal limits to a mild degree of hearing loss (Figure 2).

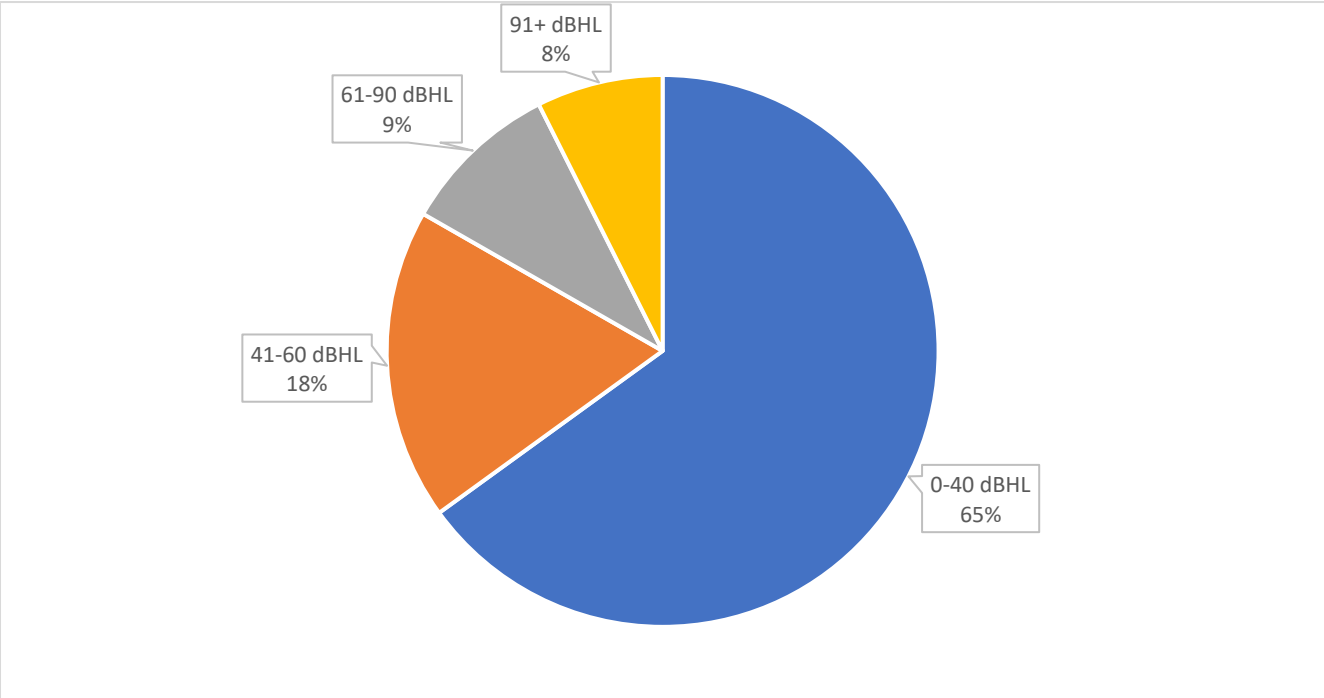

Figure 2: Distribution of hearing loss amongst total aided clients aged under 26 years at 31 December 2022 (3-Frequency Average Hearing Loss in the better ear)

The hearing loss profile for each state and territory is shown in Tables 8 & 9.

BETTER EAR 3FAHL (DBHL)	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
0-40	4408	4073	4345	2377	1279	354	368	461	17665
41-60	1517	1183	1101	571	289	100	93	106	4960
61-90	722	616	594	282	166	51	68	32	2531
91+	655	580	368	197	116	24	51	22	2013
Unknown	4	1	0	2	0	0	0	0	7
Total	7306	6453	6408	3429	1850	529	580	621	27176

Table 5: Latest Better Ear 3FA Hearing Loss of aided/implanted young Australians under 26 years of age at 31 December 2022

BETTER EAR 3FAHL	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
0-40	60.3	63.1	67.8	69.3	69.1	66.9	63.4	74.2	65.0
41-60	20.8	18.3	17.2	16.7	15.6	18.9	16.0	17.1	18.3
61-90	9.9	9.5	9.3	8.2	9.0	9.6	11.7	5.2	9.3
91+	9.0	9.0	5.7	5.7	6.3	4.5	8.8	3.5	7.4
Unknown	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 6: Latest 3FA Hearing Loss of aided/implanted young Australians under 26 years of age, Per centage distribution at 31 December 2022

As shown in Figure 3, both the number of aided clients and the hearing loss profile changes according to age. Fitting rates peak at late primary school ages (11 – 12 years). In the older aided client cohort moderate and greater degrees of hearing loss are more common. This is most likely because children who are fitted to help manage mild or unilateral hearing loss in an education setting, cease device usage when they leave school.

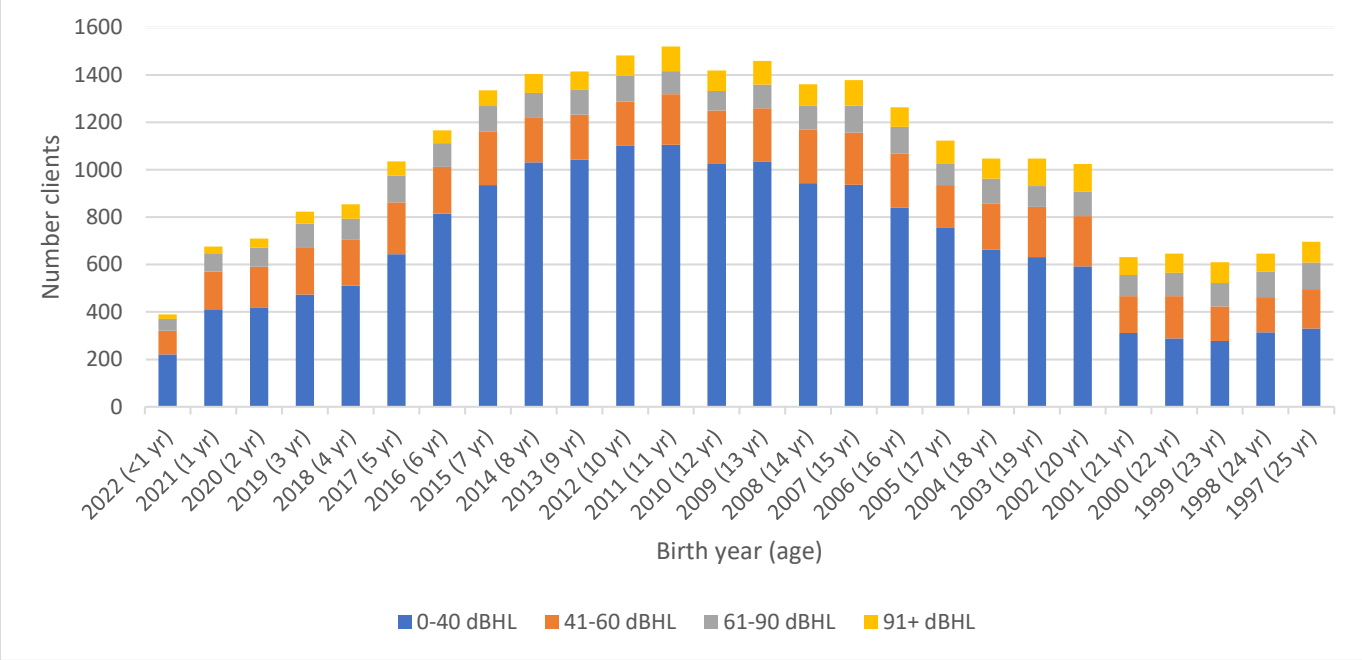

Figure 3: Hearing Loss distribution per birth year, according to better ear 3-Frequency Average Hearing Loss for clients aged less than 26 years at 31 December 2022

Trends in device fitting

HEARING LOSS

Figure 4 displays fitting rates per thousand live births according to the better ear 3-Frequency-Average hearing loss for clients aged 0- 20 years, since 2010, when the demographic report began to use the current hearing loss groupings.

While fitting rates for moderate and greater degrees of hearing loss have remained stable, fitting rates have increased for those who have normal hearing to a mild loss in the better ear.

Several factors are likely to contribute to this increase:

- Improved technical flexibility of hearing aids to fit mild losses.
- Increasing options for children with unilateral hearing loss, including the fitting of cochlear implants to children who have unaidable hearing in one ear and normal hearing in the other ear (also called Single Sided Deafness)
- Increased focus on fitting hearing aids to assist children who have a long-term conductive hearing loss due to middle ear disease.
- Increasing focus upon the possible adverse impacts of mild & unilateral hearing loss on development.

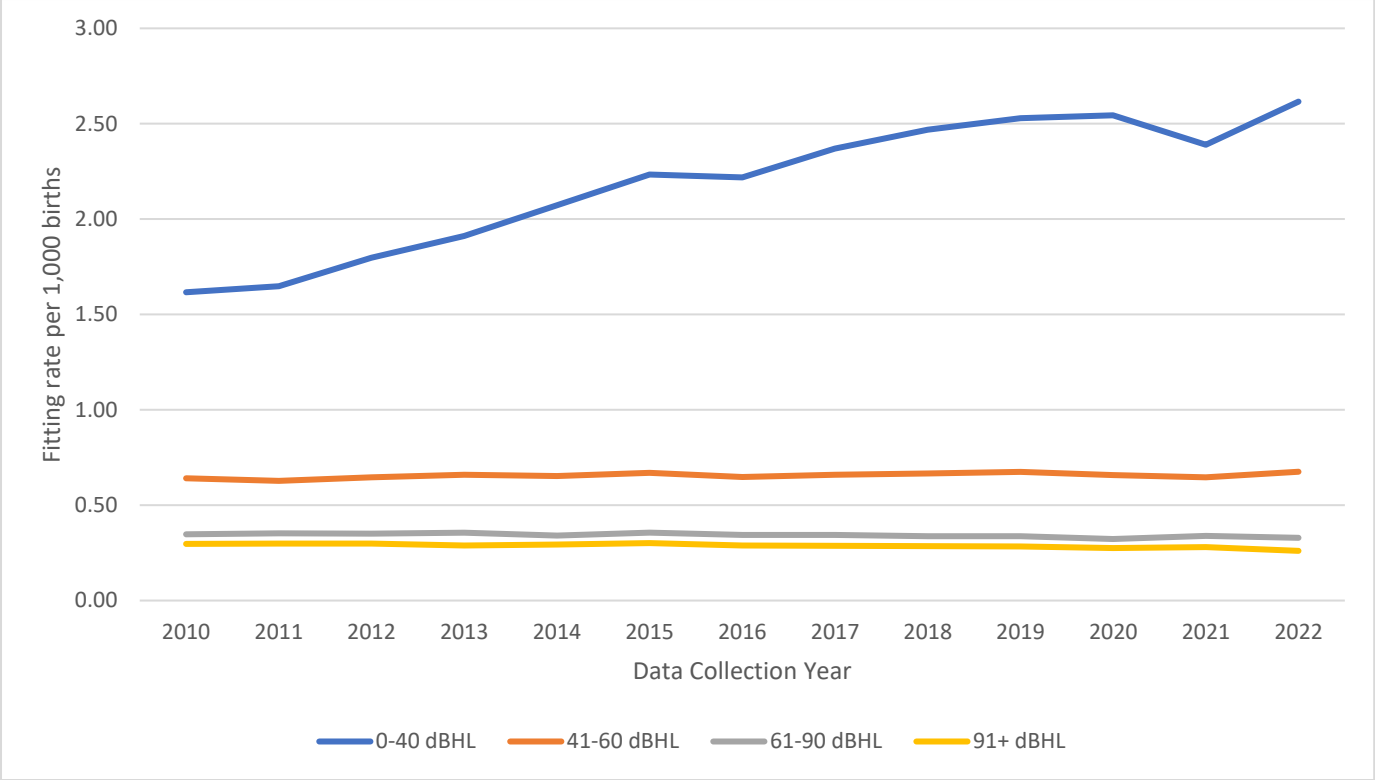

Figure 4: Fitting rates according to better ear 3-Frequency-Average Hearing loss since 2010 – clients from birth to 20 years of age. (Snapshot at 31 December, in each year)

Not all children have the same degree of hearing loss in each ear. Table 10a shows the distribution of better/worse hearing loss across all aided young Australians under 7 years of age while Table 10b shows the same data for all clients aged under 26 years. Hearing losses that are assumed to be mild or unilateral, based upon the 3 Frequency Average Hearing Loss, are less common in the younger age group compared with the entire aided client base aged under 26.

Some caution should be applied when interpreting data for children with a hearing loss in the 0-14 dBHL range. This data indicates that the average hearing loss at 500, 1000 and 2000Hz is less than 15dBHL, but does not necessarily mean hearing loss is within normal limits for all frequencies from 250 – 8000 Hz.

		Worse ear 3FAHL (dBHL)					
Better ear 3FAHL (dBHL)		0-14	15-40	41-60	61-90	91+	Total
	0-14	1%	4%	2%	3%	1%	12%
	15-40	0%	30%	12%	6%	2%	50%
	41-60	0%	0%	17%	4%	1%	22%
	61-90	0%	0%	0%	8%	2%	11%
	91+	0%	0%	0%	0%	6%	6%
	Total	1%	34%	31%	22%	12%	100%

*Table 7a: comparison of better ear and worse ear hearing loss groupings as a percentage of all clients **aged less than 7 years** @ 31 December 2022*

		Worse ear 3FAHL (dBHL)					
Better ear 3FAHL (dBHL)		0-14	15-40	41-60	61-90	91+	Total
	0-14	3%	9%	5%	5%	3%	24%
	15-40	0%	26%	10%	4%	2%	41%
	41-60	0%	0%	14%	4%	1%	18%
	61-90	0%	0%	0%	6%	3%	9%
	91+	0%	0%	0%	0%	7%	7%
	Total	3%	35%	28%	18%	16%	100%

*Table 7b: Comparison of better ear and worse ear hearing loss groupings as a percentage of the all aided clients **aged under 26** years @ 31 December 2022*

COCHLEAR IMPLANTS

The database indicates that 3,437children and young adults use a cochlear implant speech processor in one or both ears, an increase of 1.5% compared with 2021 data. While Hearing Australia supports maintenance and provides upgrade and replacement speech processors for these clients, the fitting and programming of the speech processors is undertaken by external clinics. Thus the data below are reliant upon the provision of information from external clinics and may not necessarily reflect the total number of clients who use a speech processor. The distribution of clients by year of birth and state/territory is shown in Table 11.

BIRTH YEAR	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
1997	28	28	20	8	5	1	3	0	93
1998	37	25	14	8	8	2	1	0	95
1999	43	25	18	11	6	2	5	0	110
2000	28	23	28	13	3	0	6	1	102
2001	33	28	19	7	9	1	2	0	99
2002	55	37	36	11	5	2	5	2	153
2003	54	32	27	19	12	3	4	1	152
2004	49	31	33	19	7	1	2	1	143
2005	43	33	33	11	7	2	7	1	137
2006	51	35	34	19	3	1	4	1	148
2007	54	49	46	13	8	5	8	0	183
2008	55	42	32	16	8	2	6	0	161
2009	52	33	40	24	6	6	6	0	167
2010	65	34	36	10	8	3	2	1	159
2011	72	48	25	15	11	2	3	1	177
2012	67	41	48	16	13	1	5	3	194
2013	53	42	38	16	11	2	6	1	169
2014	46	42	32	17	11	0	11	2	161
2015	53	37	35	13	7	3	4	1	153
2016	46	38	33	15	5	2	4	4	147
2017	41	34	25	22	10	2	5	2	141
2018	43	35	22	13	8	0	5	1	127
2019	38	30	29	13	4	0	5	1	120
2020	27	15	27	13	3	0	4	0	89
2021	20	9	12	8	0	0	3	0	52
2022	5	0	0	0	0	0	0	0	5
Total	1158	826	742	350	178	43	116	24	3437

Table 8: Clients who have been fitted with a cochlear implant in one or both ears, by state/territory and birth year[1] at 31 December 2022.

[1] *Data likely to under-estimate cochlear implantee numbers*

Clients first fitted with hearing aids in 2022.

2,971 clients under 26 years of age were fitted for the first time in 2022, representing a 1.8 per cent increase compared with 2021 data. 2,717 were aged less than 21 years at the time of first fitting whilst 254 were aged from 21 – 25 years. The distribution of clients by state and territory is found in Tables 12 & 13, with a more detailed analysis according to year of birth, state and territory in Table 14.

Clients first fitted – by state & territory.

	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
Number	665	651	664	353	179	56	50	99	2717
Percentage	24.5	24.0	24.4	13.0	6.6	2.1	1.8	3.6	100.0

Table 9: Distribution of children under 21 years of age and fitted for the first time in 2022 - by state and territory.

	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
Number	59	71	57	31	17	8	10	1	254
Percentage	23.2	28.0	22.4	12.2	6.7	3.1	3.9	0.4	100.0

Table 10: Distribution of clients aged 21 – 25 years of age and fitted for the first time in 2022– by state and territory.

BIRTH YEAR	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
1997	15	23	17	8	7	1	1	1	73
1998	13	16	13	3	4	0	5	0	54
1999	9	8	7	6	4	2	1	0	37
2000	12	9	12	5	2	3	2	0	45
2001	10	15	8	9	0	2	1	0	45
2002	11	17	9	3	3	3	2	1	49
2003	12	6	8	6	4	0	0	2	38
2004	14	15	8	5	3	3	0	1	49
2005	19	17	9	11	6	1	2	1	66
2006	13	14	10	5	6	1	2	2	53
2007	9	19	21	14	10	3	2	0	78
2008	18	12	14	15	9	0	0	2	70
2009	14	11	16	12	11	3	3	4	74
2010	20	13	17	11	5	2	0	1	69
2011	24	25	23	12	8	3	3	2	100
2012	23	26	17	13	6	4	2	4	95
2013	33	20	37	14	6	1	1	4	116
2014	29	27	38	19	10	3	2	7	135
2015	45	47	41	30	12	5	6	7	193
2016	49	50	38	36	15	5	4	12	209
2017	39	43	55	35	10	4	3	15	204
2018	38	26	45	25	9	1	0	14	158
2019	28	30	48	15	9	2	3	9	144
2020	22	39	36	15	4	1	1	2	120
2021	85	89	86	23	8	4	5	6	306
2022	120	105	88	34	25	7	9	3	391
Total	724	722	721	384	196	64	60	100	2971

Table 11: Clients less than 26 years of age who were first fitted with hearing aids in 2022. National Summary by State/Territory and Birth year.

The impact of Universal Newborn Hearing Screening continues to be apparent in the fitting profile of children shown in Figure 5, with the birth year 2022 showing the highest number of new fittings (13.2% of the total new fittings). A second peak in fittings occurs in early primary school. As can be seen in Figure 5, the vast majority of children who receive their first hearing aids in primary school have a mild or unilateral hearing loss (Better Ear 3FAHL $\leq$ 40 dBHL). A more detailed analysis by Birth Year and 3FAHL is found in Table 15.

"Late" hearing aid fittings may be due to a number of factors including

- Late onset or progressive sensorineural hearing loss,
- Children who develop a chronic conductive hearing loss due to Otitis Media,
- Children with a mild or unilateral hearing loss that was either
    - Diagnosed at an early age, but which did not require assistance with hearing until school entry or
    - Not detected until school entry.

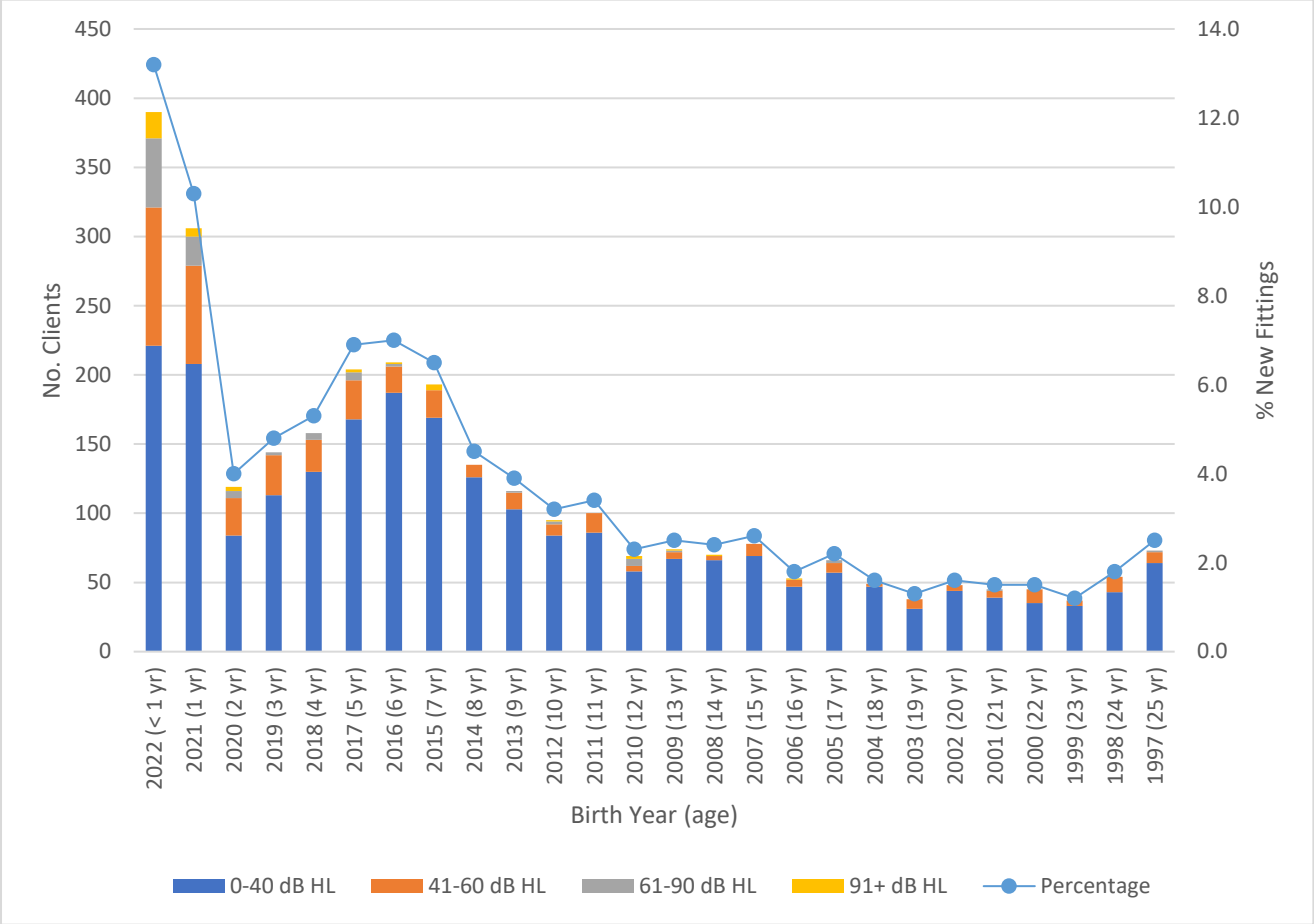

Figure 5: Hearing profile of clients first fitted in 2022 by age, better ear 3-Frequency Average Hearing Loss on 31 December 2022.

BIRTH YEAR	0-40 dB HL	41-60 dB HL	61-90 dB HL	91+ dB HL	Unknown	Total	Percentage
1997	64	8	1	0	0	73	2.5
1998	43	11	0	0	0	54	1.8
1999	33	4	0	0	0	37	1.2
2000	35	10	0	0	0	45	1.5
2001	39	5	1	0	0	45	1.5
2002	44	4	0	0	1	49	1.6
2003	31	7	0	0	0	38	1.3
2004	47	2	0	0	0	49	1.6
2005	57	7	2	0	0	66	2.2
2006	47	5	0	1	0	53	1.8
2007	69	9	0	0	0	78	2.6
2008	66	3	0	1	0	70	2.4
2009	67	5	1	1	0	74	2.5
2010	58	4	5	2	0	69	2.3
2011	86	14	0	0	0	100	3.4
2012	84	8	2	1	0	95	3.2
2013	103	12	1	0	0	116	3.9
2014	126	9	0	0	0	135	4.5
2015	169	20	0	4	0	193	6.5
2016	187	19	2	1	0	209	7.0
2017	168	28	6	2	0	204	6.9
2018	130	23	5	0	0	158	5.3
2019	113	29	2	0	0	144	4.8
2020	84	27	5	3	1	120	4.0
2021	208	71	21	6	0	306	10.3
2022	221	100	50	19	1	391	13.2
Total	2379	444	104	41	3	2971	100.0

Table 12: Clients first fitted in 2022, by birth year and better ear 3FAHL category

Aboriginal and Torres Strait Islander clients.

Aboriginal and Torres Strait Islander children comprise 8.7% of the total aided/implanted child and young adult client base and 13.9% of those first fitted in 2022.

While the peak age of first fitting in 2022 for non-Indigenous Australian children occurred in the first year of life, it occurred later, at five years of age, for Aboriginal and Torres Strait Islander children (Figure 6). The proportion of children receiving amplification in the early years of life has increased dramatically since 2008, when this data first became available. In 2008, 4.6 per cent of Aboriginal or Torres Strait Islander children aged 20 or younger were aided before the age of three years, whilst in 2022 data shows 17.9 per cent of newly fitted children being aided before age three years. (Figure 7)

Using these same birth years for comparison, Figure 8 contrasts fitting rates for the two cohorts, according to the aided client database on 31 December 2022. It can be seen that fitting rates are very similar for the first two years of life. For example, in the 2022 birth year, the fitting rate for Aboriginal and Torres Strait Islander children was 1.1 per thousand births, compared with 1.3 per thousand for non-Indigenous children. However by age five, fitting rates have doubled for Aboriginal and Torres Strait Islander children.

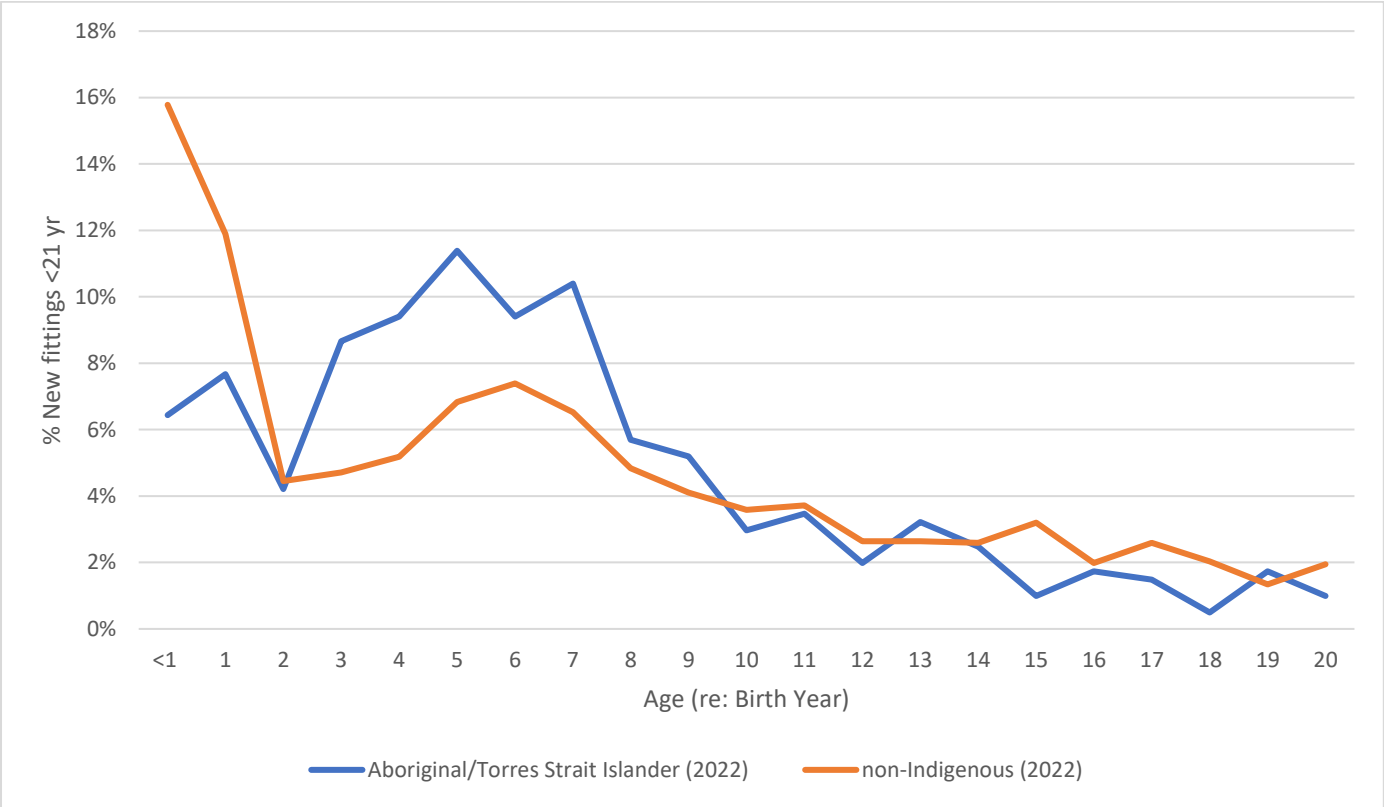

Figure 6: Age of first hearing aid fitting for non-Indigenous and Aboriginal and To. s Strait clients from birth to 20 years, 2022, by proportion of initial fittings per cohort

This difference in peak first fitting age between is partially explainable by the differences in cause of hearing loss. A large proportion of hearing loss in non-Indigenous Australian children is present and identified at birth. A large proportion of hearing loss in Aboriginal and Torres Strait Islander children is caused by persistent middle ear infection: not present at birth but often appearing in the first year of life. This is clearly demonstrated in Figure 9, which shows a much higher fitting rate for mild hearing losses amongst Aboriginal and Torres Strait Islander children, consistent with the degree of loss most commonly caused by middle ear pathology.

Table 16 shows the distribution of Aboriginal and Torres Strait Islander clients by birth year and state, while Table 17 shows the distribution of Aboriginal and Torres Strait Islander clients first fitted in 2022.

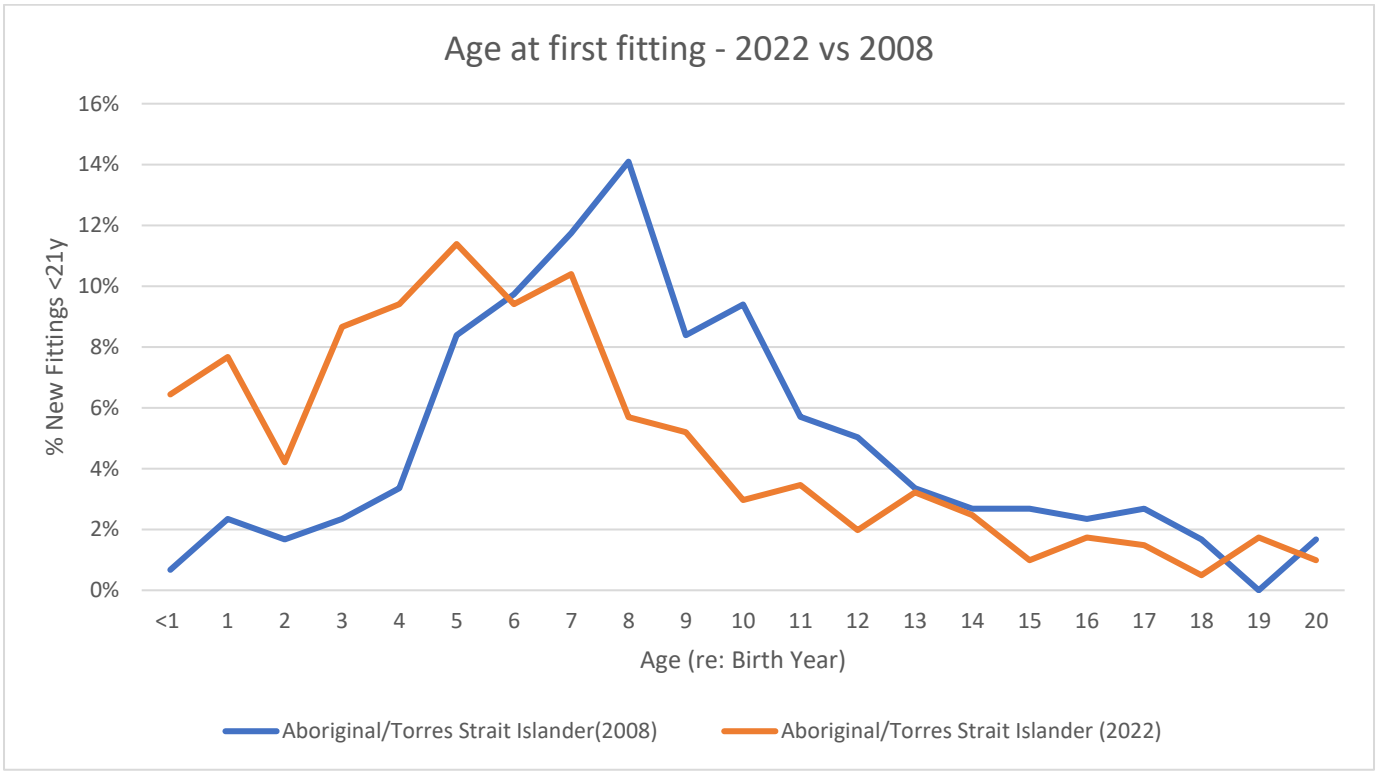

Figure 7: Age at first hearing aid fitting as a proportion of new fittings for Aboriginal and/or Torres Strait Islander clients first fitted in 2008 and 2022.

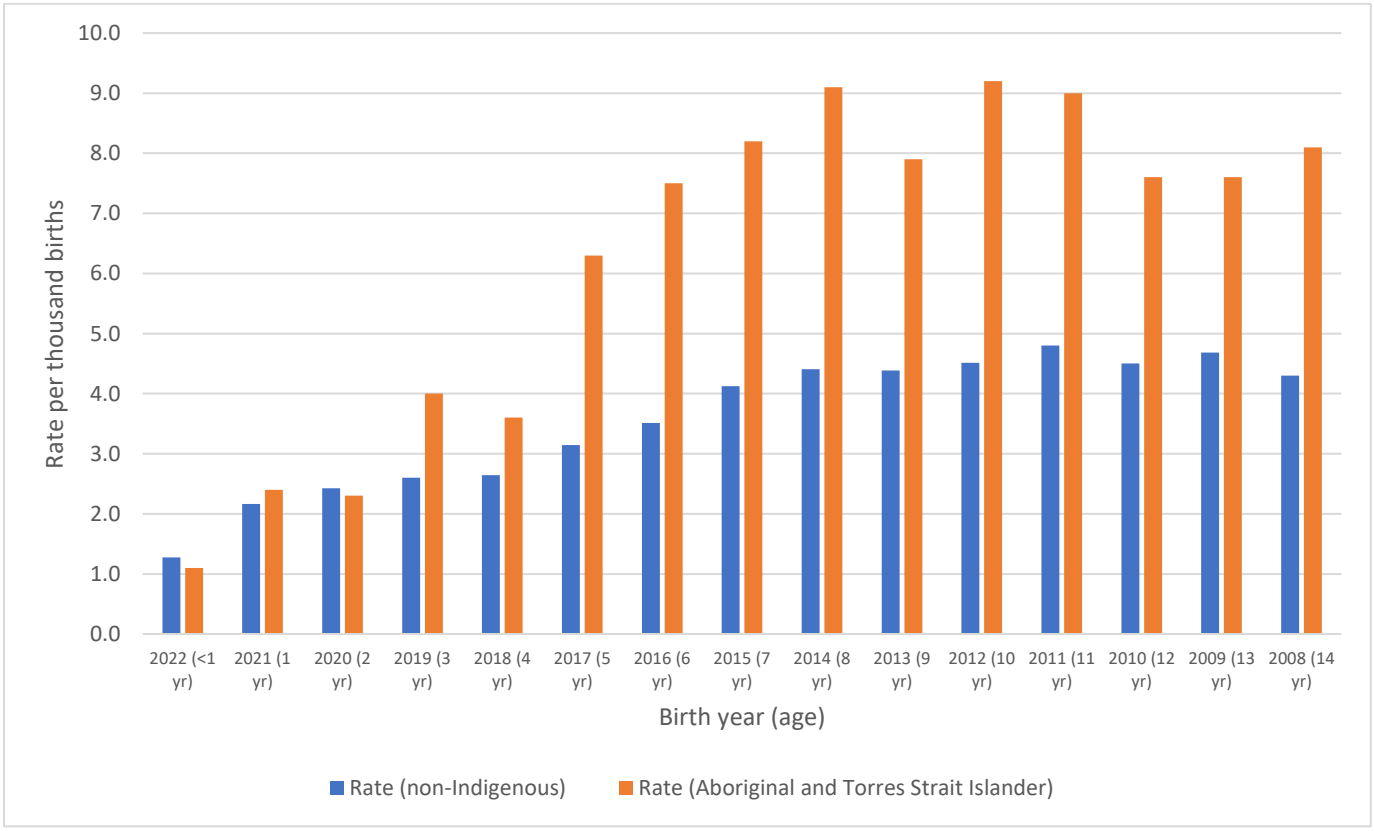

Figure 8: Fitting rate per thousand births, non-Indigenous vs Aboriginal and/or Torres Strait Islander children born from 2008-2022.

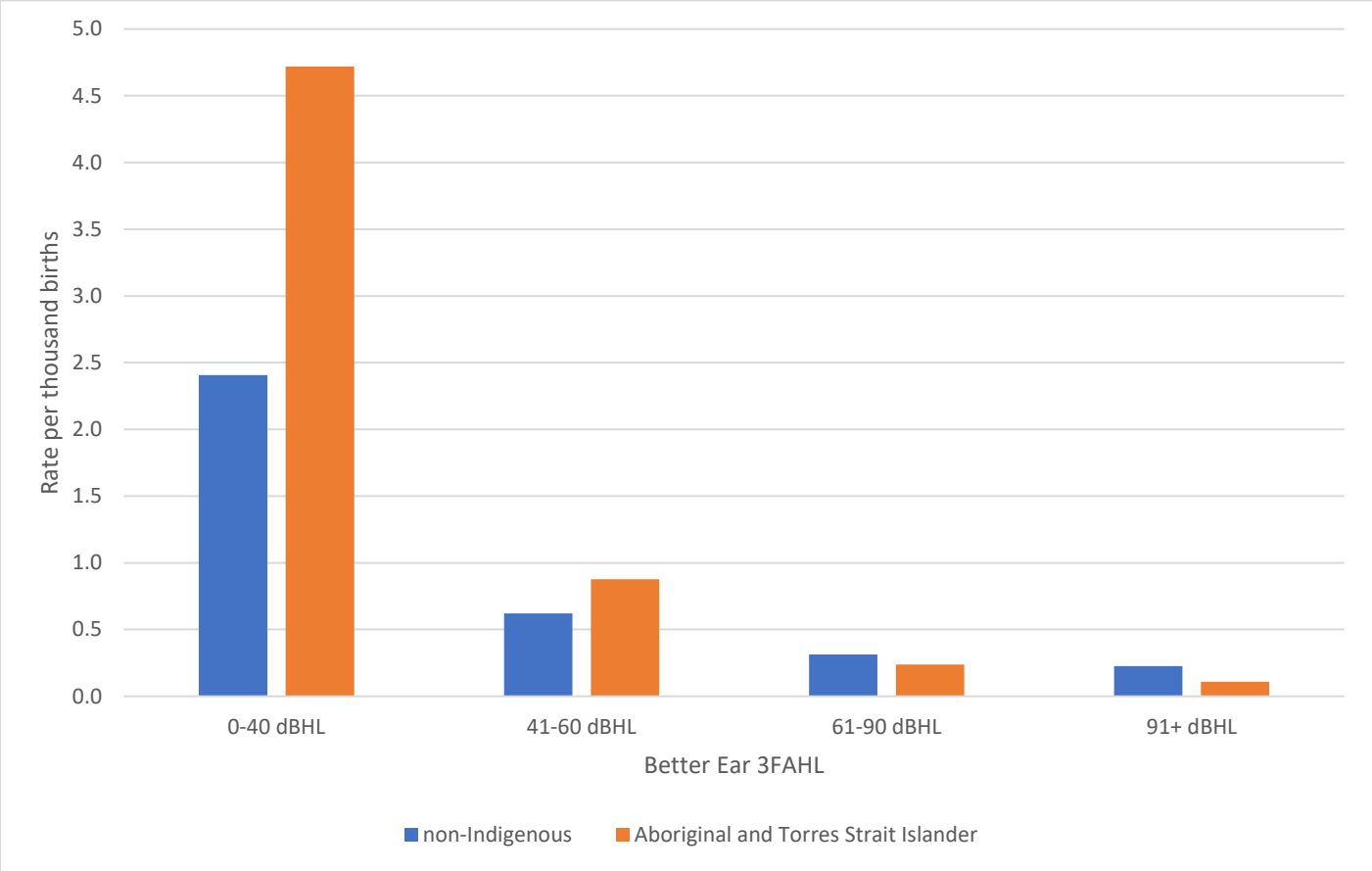

Figure 9: Fitting rate per thousand births according to Better Ear hearing loss, non-Indigenous vs Aboriginal and Torres Strait Islander children born from 2008-2022.

BIRTH YEAR	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
1997	7	3	6	3	2	0	0	13	34
1998	8	2	3	4	0	0	1	3	21
1999	13	0	3	2	0	0	0	3	21
2000	5	3	8	2	2	1	0	6	27
2001	4	1	4	2	2	0	0	4	17
2002	17	2	10	9	5	2	0	9	54
2003	13	5	23	12	8	0	0	14	75
2004	23	2	18	19	7	0	1	17	87
2005	18	5	29	11	4	2	1	11	81
2006	15	8	21	21	8	2	0	13	88
2007	22	10	31	28	7	1	0	17	116
2008	32	5	34	23	7	2	1	27	131
2009	20	10	25	34	10	1	0	29	129
2010	23	8	34	33	5	1	0	28	132
2011	32	9	38	34	10	1	1	33	158
2012	38	5	46	40	3	3	0	33	168
2013	28	5	42	42	10	0	1	17	145
2014	21	4	57	42	10	0	1	26	161
2015	24	10	47	32	9	0	1	29	152
2016	27	5	36	26	4	1	2	39	140
2017	21	5	40	24	4	2	1	31	128
2018	9	8	26	11	3	1	0	22	80
2019	18	3	33	14	4	1	0	14	87
2020	12	7	19	5	1	2	0	4	50
2021	16	6	19	4	2	3	0	6	56
2022	8	3	8	5	0	1	0	1	26
Total	474	134	660	482	127	27	11	449	2364

Table 13: Aboriginal and/or Torres Strait Islander clients aged less than 26 years who have been fitted with a hearing aid and/or cochlear implant, National summary by State/Territory and Birth Year – 31 December 2022

BIRTH YEAR	NSW	VIC	QLD	WA	SA	TAS	ACT	NT	NATIONAL
1997	0	0	1	0	1	0	0	1	3
1998	2	0	0	0	0	0	1	0	3
1999	1	0	0	0	0	0	0	0	1
2000	1	0	2	0	0	0	0	0	3
2001	0	0	0	0	0	0	0	0	0
2002	2	0	1	0	0	1	0	0	4
2003	1	1	1	2	0	0	0	2	7
2004	1	0	1	0	0	0	0	0	2
2005	1	0	3	1	1	0	0	0	6
2006	1	2	3	0	0	0	0	1	7
2007	1	0	1	2	0	0	0	0	4
2008	2	0	4	1	1	0	0	2	10
2009	2	0	1	3	3	0	0	4	13
2010	1	0	4	3	0	0	0	0	8
2011	4	1	3	2	1	0	1	2	14
2012	2	0	3	4	0	1	0	2	12
2013	6	0	9	3	0	0	0	3	21
2014	2	0	10	5	0	0	0	6	23
2015	5	3	14	10	2	0	1	7	42
2016	8	1	7	6	1	1	2	12	38
2017	7	3	9	11	1	1	0	14	46
2018	4	3	14	4	1	0	0	12	38
2019	9	1	14	2	0	0	0	9	35
2020	2	4	8	1	0	1	0	1	17
2021	6	4	13	2	0	3	0	3	31
2022	8	3	8	5	0	1	0	1	26
Total	79	26	134	67	12	9	5	82	414

Table 14: Aboriginal and/or Torres Strait Islander clients first fitted with hearing aids in 2022, National Summary by State/Territory and Birth Year.

Further information can be found in the summary tables in Appendix A.

Early Diagnosis – Newborn Hearing Screening

The target condition for Universal Newborn Hearing Screening (UNHS) is a bilateral, moderate or greater degree of sensorineural hearing loss. Evidence supports fitting of hearing aids by 6 months of age as promoting the best outcomes for children with congenital hearing loss.

Previous versions of this report have compared early hearing aid fittings with an expected incidence of moderate or greater, bilateral congenital hearing loss equal to 1.1 per thousand births and have not distinguished between the degrees of hearing loss amongst newly fitted babies. Recently the Australasian Newborn Hearing Screening Committee estimated that 0.9 children per thousand born will have a bilateral hearing loss of 40dB 3FAHL or greater.

Tables 18-26 present data about the expected number of children who would be born with the **target hearing loss** each year, the number of children fitted before 6 and 12 months of age and the percentage of expected fittings achieved for each state, territory and nationally, from 2012 to 2022. When considering this data:

- Data capture for the 2022 birth year is not yet complete because some babies who were born in 2022 will not turn 6 or 12 months of age until 2023. The expected number of children born with the target hearing loss is based upon estimated birth numbers at the time of data extraction, and may vary when births for the year 2022 are available.
- Demographic reports for birth years prior to 2018 report the following data for all degrees of hearing loss, rather than for the target hearing loss.
- States and Territories with low birth rates are likely to demonstrate greater variation in the per centage of babies fitted before 6 and 12 months of age.
- There are a range of reasons why some babies may not be fitted with their first hearing aids before 6 months of age, including
    - Other health issues taking priority over management of the hearing loss,
    - Attendance at appointments,
    - Family choice.
- Note that the numbers of children born & aided in years prior to 2022 may vary from past reports if children ceased receiving service over the past year, due to ceasing device use, changing state or country of residence or becoming deceased.

Tables 15 – 23: Expected and Actual numbers of children fitted before 6 months and 12 months of age, who have a better ear 3FAHL >40dBHL. Births from ABS CAT 3301.0 except for 2022 which is an estimate.

BIRTH YEAR	EXPECTED	FIT <6MTH	FIT <12MTH	% FIT <6MTH	% FIT <12MTH
2012	279	184	217	65.9	77.8
2013	277	183	213	66.1	76.9
2014	270	200	228	74.1	84.4
2015	275	223	246	81.1	89.5
2016	280	204	226	72.9	80.7
2017	278	239	276	86.0	99.3
2018	284	217	242	76.4	85.2
2019	275	232	268	84.4	97.5
2020	265	212	240	80.0	90.6
2021	279	202	231	72.4	82.8
2022	279	163	169	58.4	60.6

Table 15 - National

BIRTH YEAR	EXPECTED	FIT <6MTH	FIT <12MTH	% FIT <6MTH	% FIT <12MTH
2012	89	53	61	59.6	68.5
2013	90	54	61	60.0	67.8
2014	82	63	65	76.8	79.3
2015	90	75	81	83.3	90.0
2016	86	58	62	67.4	72.1
2017	87	70	75	80.5	86.2
2018	97	70	72	72.2	74.2
2019	89	67	79	75.3	88.8
2020	86	73	75	84.9	87.2
2021	91	64	73	70.3	80.2
2022	91	49	53	53.8	58.2

Table 16 - NSW

Birth Year	Expected	Fit <6mth	Fit <12mth	% Fit <6mth	% Fit <12mth
2012	70	44	55	62.9	78.6
2013	67	48	59	71.6	88.1
2014	67	49	61	73.1	91.0
2015	66	45	50	68.2	75.8
2016	75	53	61	70.7	81.3
2017	74	70	84	94.6	113.5
2018	71	59	68	83.1	95.8
2019	69	63	74	91.3	107.2
2020	66	57	67	86.4	101.5
2021	68	59	70	86.8	102.9
2022	68	47	47	69.1	69.1

Table 17 – Victoria

Birth Year	Expected	Fit <6mth	Fit <12mth	% Fit <6mth	% Fit <12mth
2012	57	41	50	71.9	87.7
2013	57	46	51	80.7	89.5
2014	57	44	53	77.2	93.0
2015	56	45	50	80.4	89.3
2016	56	50	55	89.3	98.2
2017	55	45	54	81.8	98.2
2018	56	49	58	87.5	103.6
2019	56	56	64	100.0	114.3
2020	54	53	65	98.1	120.4
2021	58	48	52	82.8	89.7
2022	58	34	35	58.6	60.3

Table 18- QLD

BIRTH YEAR	EXPECTED	FIT <6MTH	FIT <12MTH	% FIT <6MTH	% FIT <12MTH
2012	30	19	20	63.3	66.7
2013	31	17	23	54.8	74.2
2014	32	20	22	62.5	68.8
2015	32	33	38	103.1	118.8
2016	32	19	23	59.4	71.9
2017	31	25	31	80.6	100.0
2018	30	15	19	50.0	63.3
2019	30	27	31	90.0	103.3
2020	29	15	16	51.7	55.2
2021	31	18	22	58.1	71.0
2022	31	14	15	45.2	48.4

Table 19 - WA

BIRTH YEAR	EXPECTED	FIT <6MTH	FIT <12MTH	% FIT <6MTH	% FIT <12MTH
2012	18	16	18	88.9	100.0
2013	18	13	14	72.2	77.8
2014	18	14	17	77.8	94.4
2015	18	13	14	72.2	77.8
2016	18	9	10	50.0	55.6
2017	17	12	14	70.6	82.4
2018	17	15	15	88.2	88.2
2019	18	10	10	55.6	55.6
2020	17	6	8	35.3	47.1
2021	18	6	6	33.3	33.3
2022	18	11	11	61.1	61.1

Table 20 - SA

Birth Year	Expected	Fit <6mth	Fit <12mth	% Fit <6mth	% Fit <12mth
2012	6	1	3	16.7	50.0
2013	5	1	1	20.0	20.0
2014	5	0	0	0.0	0.0
2015	5	5	5	100.0	100.0
2016	5	5	5	100.0	100.0
2017	5	6	7	120.0	140.0
2018	5	1	1	20.0	20.0
2019	5	1	2	20.0	40.0
2020	5	2	3	40.0	60.0
2021	5	1	1	20.0	20.0
2022	5	3	3	60.0	60.0

Table 21 - TAS

Birth Year	Expected	Fit <6mth	Fit <12mth	% Fit <6mth	% Fit <12mth
2012	5	4	4	80.0	80.0
2013	5	2	2	40.0	40.0
2014	5	8	8	160.0	160.0
2015	5	6	6	120.0	120.0
2016	5	5	5	100.0	100.0
2017	6	5	5	83.3	83.3
2018	5	7	8	140.0	160.0
2019	5	5	5	100.0	100.0
2020	5	5	5	100.0	100.0
2021	5	5	5	100.0	100.0
2022	5	4	4	80.0	80.0

Table 22 - ACT

BIRTH YEAR	EXPECTED	FIT <6MTH	FIT <12MTH	% FIT <6MTH	% FIT <12MTH
2012	4	6	6	150.0	150.0
2013	4	2	2	50.0	50.0
2014	4	2	2	50.0	50.0
2015	4	1	2	25.0	50.0
2016	4	5	5	125.0	125.0
2017	3	6	6	200.0	200.0
2018	4	1	1	25.0	25.0
2019	3	3	3	100.0	100.0
2020	3	1	1	33.3	33.3
2021	3	1	2	33.3	66.7
2022	3	1	1	33.3	33.3

Table 23 - NT

APPENDIX A – SUMMARY TABLES.

Clients under 26 years of age who have been fitted with a hearing aid and/or cochlear implant, by birth year and calendar year first fitted, on 31 December 2022

		YEAR FIRST FITTED																										
Birth year		1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
	1997	21	57	51	38	32	44	42	27	26	19	21	13	9	16	9	20	24	12	14	13	10	19	14	38	35	73	697
	1998		19	61	53	34	47	46	34	24	20	17	19	16	13	14	12	14	10	14	13	16	15	26	26	29	54	646
	1999			19	71	40	40	29	40	47	36	20	22	18	17	16	10	10	13	17	12	17	16	24	18	21	37	610
	2000				30	62	63	43	34	53	43	22	22	17	30	16	19	17	16	13	12	16	11	16	18	28	45	646
	2001					27	71	45	43	45	52	46	36	30	26	10	15	15	9	12	20	16	17	16	9	26	45	631
	2002						32	94	59	60	69	67	74	55	52	39	36	34	37	30	46	39	45	38	46	24	49	1025
	2003							67	79	67	44	53	72	77	72	48	42	37	38	42	38	48	40	53	55	37	38	1047
	2004								71	79	62	39	56	81	93	65	49	54	44	33	43	41	46	55	42	46	49	1048
	2005									93	83	42	50	72	85	82	67	57	61	60	64	43	45	50	47	56	66	1123
	2006										122	112	61	72	68	89	97	59	80	63	50	72	64	72	63	67	53	1264
	2007											135	102	64	57	89	98	112	97	97	87	72	64	69	81	77	78	1379
	2008												155	101	66	69	83	125	132	105	73	74	83	72	69	84	70	1361
	2009													180	116	71	67	105	135	157	113	106	101	84	68	83	74	1460
	2010														163	133	73	86	109	122	125	134	102	111	92	100	69	1419
	2011															203	155	83	66	118	147	170	143	127	111	99	100	1522
	2012																220	162	67	65	118	162	187	175	119	112	95	1482
	2013																	239	168	62	81	129	156	191	151	122	116	1415
	2014																		284	174	75	97	123	190	186	140	135	1404
	2015																			308	200	73	87	127	162	185	193	1335
	2016																				262	174	80	89	130	223	209	1167
	2017																					304	211	100	81	136	204	1036
	2018																						294	211	83	109	158	855
	2019																							340	216	126	144	826
	2020																								364	227	120	711
	2021																									370	306	676
	2022																										391	391
	Total	21	76	131	192	195	297	366	387	494	550	574	682	792	874	953	1063	1233	1378	1506	1592	1813	1949	2250	2275	2562	2971	27176

DETAILS OF ABORIGINAL AND TORRES STRAIT ISLANDER CLIENTS UNDER THE AGE OF 26 YEARS WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

STATE	FIRST FITTING AGE (MONTHS)						TOTAL	LATEST 3FAHL (DBHL)				
	<3	3 to <6	6 to <12	12 to <18	18 to <24	24+		0-40	41-60	61-90	91+	Unknown
NSW	38	29	20	11	13	363	474	342	89	22	20	1
VIC	4	13	4	4	5	104	134	100	20	10	3	1
QLD	18	29	31	19	24	539	660	506	104	33	17	0
WA	15	12	9	4	17	425	482	378	70	24	10	0
SA	6	7	1	5	1	107	127	99	17	9	2	0
TAS	0	2	2	1	2	20	27	25	2	0	0	0
ACT	0	0	0	0	1	10	11	10	0	1	0	0
NT	4	11	5	9	9	411	449	337	82	16	14	0
National	85	103	72	53	72	1979	2364	1797	384	115	66	2

DETAILS OF ABORIGINAL AND TORRES STRAIT ISLANDER CLIENTS UNDER THE AGE OF 21 YEARS WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

STATE	FIRST FITTING AGE (MONTHS)						TOTAL	LATEST 3FAHL (DBHL)				
	<3	3 to <6	6 to <12	12 to <18	18 to <24	24+		0-40	41-60	61-90	91+	Unknown
NSW	38	28	19	8	9	335	437	329	77	17	13	1
VIC	4	13	4	3	5	96	125	96	16	9	3	1
QLD	18	29	28	17	24	520	636	496	98	29	13	0
WA	15	12	9	4	17	412	469	371	69	20	9	0
SA	6	7	1	5	1	101	121	94	17	8	2	0
TAS	0	2	2	1	2	19	26	25	1	0	0	0
ACT	0	0	0	0	1	9	10	9	0	1	0	0
NT	4	11	4	8	9	384	420	325	72	13	10	0
National	85	102	67	46	68	1876	2244	1745	350	97	50	2

DETAILS OF ABORIGINAL AND TORRES STRAIT ISLANER CLIENTS AGED 21 – 25 YEARS WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

STATE	FIRST FITTING AGE (MONTHS)						TOTAL	LATEST 3FAHL (DBHL)				
	<3	3 to <6	6 to <12	12 to <18	18 to <24	24+		0-40	41-60	61-90	91+	Unknown
NSW	0	1	1	3	4	28	37	13	12	5	7	0
VIC	0	0	0	1	0	8	9	4	4	1	0	0
QLD	0	0	3	2	0	19	24	10	6	4	4	0
WA	0	0	0	0	0	13	13	7	1	4	1	0
SA	0	0	0	0	0	6	6	5	0	1	0	0
TAS	0	0	0	0	0	1	1	0	1	0	0	0
ACT	0	0	0	0	0	1	1	1	0	0	0	0
NT	0	0	1	1	0	27	29	12	10	3	4	0
National	0	1	5	7	4	103	120	52	34	18	16	0

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

AUSTRALIA

BIRTH YEAR	FIRST FITTING AGE (MONTHS)							TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
	Births	<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	251842	2	15	31	32	26	591	697	2.8	331	166	112	87	1
1998	249616	4	16	30	34	20	542	646	2.6	314	149	107	76	0
1999	248870	8	14	31	41	20	496	610	2.5	278	145	99	88	0
2000	249636	12	14	37	28	38	517	646	2.6	289	178	99	80	0
2001	246394	12	18	29	36	31	505	631	2.6	312	155	89	75	0
2002	250988	18	24	41	44	25	873	1025	4.1	592	213	102	117	1
2003	251161	33	45	42	31	32	864	1047	4.2	632	212	88	115	0
2004	254246	32	52	34	33	34	863	1048	4.1	662	197	103	86	0
2005	264493	51	51	50	23	25	923	1123	4.2	757	178	89	99	0
2006	270849	78	73	45	36	31	1001	1264	4.7	840	228	114	82	0
2007	292152	85	72	37	42	34	1109	1379	4.7	937	220	114	108	0
2008	302272	100	82	36	34	33	1076	1361	4.5	944	225	103	89	0
2009	301253	115	110	49	26	35	1125	1460	4.8	1035	225	99	101	0
2010	303318	90	118	54	40	32	1085	1419	4.7	1027	223	83	86	0
2011	301617	126	126	57	51	37	1125	1522	5.0	1106	213	97	105	1
2012	309582	156	109	70	52	29	1066	1482	4.8	1103	185	109	85	0
2013	308065	174	125	61	48	31	976	1415	4.6	1043	190	106	76	0
2014	299697	212	115	82	42	45	908	1404	4.7	1032	190	102	80	0
2015	305377	225	152	79	56	43	780	1335	4.4	935	228	106	66	0
2016	311104	204	131	63	28	39	702	1167	3.8	815	197	100	55	0
2017	309142	227	151	85	54	42	477	1036	3.4	644	218	114	60	0
2018	315147	228	148	68	67	38	306	855	2.7	511	194	89	61	0
2019	305832	242	180	85	49	55	215	826	2.7	473	201	99	51	2
2020	294369	285	164	91	41	60	70	711	2.4	420	171	81	38	1
2021	309996	260	218	102	67	29	0	676	2.2	412	159	77	28	0
2022	309996	204	154	33	0	0	0	391	1.3	221	100	50	19	1
Total	7417014	3183	2477	1422	1035	864	18195	27176	3.7	17665	4960	2531	2013	7

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC 2022

NSW

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	87156	2	8	8	8	9	156	191	2.2	78	59	32	22	0
1998	85499	1	7	9	6	5	157	185	2.2	79	47	32	27	0
1999	86784	3	4	10	9	14	135	175	2.0	68	50	25	32	0
2000	86752	4	2	10	7	15	149	187	2.2	70	66	30	21	0
2001	84578	2	1	6	13	14	152	188	2.2	83	50	31	24	0
2002	86583	10	7	11	13	7	266	314	3.6	178	64	32	40	0
2003	86344	22	16	8	9	5	225	285	3.3	155	68	23	39	0
2004	85894	15	16	13	8	6	214	272	3.2	159	60	29	24	0
2005	91224	27	12	16	6	6	236	303	3.3	200	50	29	24	0
2006	92188	35	25	19	11	10	231	331	3.6	199	69	38	25	0
2007	96351	29	18	16	7	12	282	364	3.8	237	66	28	33	0
2008	100276	46	26	12	6	10	282	382	3.8	249	72	29	32	0
2009	98231	43	24	11	7	7	274	366	3.7	233	67	30	36	0
2010	101266	40	22	15	14	16	281	388	3.8	266	56	31	35	0
2011	99054	49	36	15	12	14	285	411	4.1	275	62	29	44	1
2012	98508	52	24	22	13	9	258	378	3.8	263	58	31	26	0
2013	100462	65	22	13	15	11	244	370	3.7	267	60	20	23	0
2014	91074	75	27	16	13	13	197	341	3.7	236	53	28	24	0
2015	100079	99	25	20	13	18	183	358	3.6	231	71	32	24	0
2016	96083	72	25	10	10	6	183	306	3.2	208	60	21	17	0
2017	96591	80	26	11	13	11	111	252	2.6	146	58	31	17	0
2018	107343	78	36	11	16	13	64	218	2.0	114	57	26	21	0
2019	98906	78	44	23	11	16	46	218	2.2	115	59	28	14	2
2020	95459	104	45	21	4	10	13	197	2.1	110	53	19	15	0
2021	101332	100	56	28	15	7	0	206	2.0	123	54	18	11	0
2022	101332	78	33	9	0	0	0	120	1.2	66	28	20	5	1
Total	2455349	1209	587	363	259	264	4624	7306	3.0	4408	1517	722	655	4

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

VICTORIA

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	60732	0	5	13	6	6	158	188	3.1	99	37	27	25	0
1998	60492	2	4	12	15	7	146	186	3.1	104	34	26	22	0
1999	58875	5	3	10	12	5	122	157	2.7	73	34	29	21	0
2000	59171	2	8	13	10	6	106	145	2.5	66	33	24	22	0
2001	58626	4	13	8	10	6	127	168	2.9	88	38	16	26	0
2002	61478	0	8	15	17	8	201	249	4.1	143	51	19	36	0
2003	61058	1	18	17	9	8	204	257	4.2	162	50	20	25	0
2004	62417	5	18	9	11	8	206	257	4.1	162	42	25	28	0
2005	63297	11	17	17	9	9	197	260	4.1	169	32	27	32	0
2006	65245	17	20	9	8	11	224	289	4.4	175	59	29	26	0
2007	70325	16	26	5	11	7	240	305	4.3	200	44	26	35	0
2008	71184	14	21	8	10	9	225	287	4.0	178	51	32	26	0
2009	70928	21	24	17	7	9	259	337	4.8	245	47	24	21	0
2010	70572	11	29	16	10	6	231	303	4.3	221	42	19	21	0
2011	71444	34	26	22	17	6	248	353	4.9	249	48	22	34	0
2012	77405	30	32	18	15	9	249	353	4.6	265	38	24	26	0
2013	73969	31	36	23	17	9	212	328	4.4	228	44	30	26	0
2014	74224	39	30	29	11	11	192	312	4.2	219	48	20	25	0
2015	73568	31	43	20	24	12	171	301	4.1	216	49	19	17	0
2016	82892	41	47	22	13	11	164	298	3.6	201	53	24	20	0
2017	82094	56	41	27	15	7	92	238	2.9	122	64	35	17	0
2018	78488	60	34	21	22	4	59	200	2.5	109	50	23	18	0
2019	77220	70	39	27	10	10	47	203	2.6	105	62	22	14	0
2020	73543	64	52	27	7	20	22	192	2.6	113	53	20	5	1
2021	75363	58	60	41	15	8	0	182	2.4	103	50	23	6	0
2022	75363	51	44	10	0	0	0	105	1.4	58	30	11	6	0
Total	1809973	674	698	456	311	212	4102	6453	3.6	4073	1183	616	580	1

Births from ABS CAT 3301.0 except for 2022 which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

QUEENSLAND

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	46965	0	1	3	9	7	121	141	3.0	68	29	23	21	0
1998	47046	1	2	6	7	3	112	131	2.8	56	39	22	14	0
1999	46503	0	6	4	7	0	106	123	2.6	58	28	24	13	0
2000	47278	1	2	8	6	12	126	155	3.3	76	37	23	19	0
2001	47678	3	2	6	6	6	100	123	2.6	58	34	20	11	0
2002	47771	6	4	10	7	3	184	214	4.5	115	53	25	21	0
2003	48342	2	5	8	4	5	188	212	4.4	127	46	19	20	0
2004	49940	7	9	7	7	10	192	232	4.6	153	38	27	14	0
2005	51707	8	13	10	6	5	217	259	5.0	173	49	15	22	0
2006	52695	17	18	9	8	7	241	300	5.7	215	48	23	14	0
2007	61306	24	16	11	14	4	268	337	5.5	234	50	27	26	0
2008	63168	27	17	5	10	7	249	315	5.0	241	42	21	11	0
2009	66149	27	34	8	7	9	258	343	5.2	255	44	23	21	0
2010	64523	22	44	14	9	4	255	348	5.4	252	65	14	17	0
2011	63253	26	37	12	13	7	259	354	5.6	270	50	22	12	0
2012	63837	35	32	17	12	9	266	371	5.8	290	36	30	15	0
2013	63354	42	37	15	3	6	240	343	5.4	262	43	27	11	0
2014	63066	49	31	18	6	12	246	362	5.7	281	43	24	14	0
2015	61745	52	42	23	13	10	184	324	5.2	240	43	29	12	0
2016	61841	54	27	18	2	12	146	259	4.2	180	44	27	8	0
2017	61158	43	48	25	16	12	129	273	4.5	197	48	19	9	0
2018	61931	48	50	19	10	10	87	224	3.6	143	51	22	8	0
2019	61735	42	65	21	17	19	66	230	3.7	143	47	28	12	0
2020	59490	67	40	25	15	17	19	183	3.1	105	41	25	12	0
2021	64111	51	61	15	27	10	0	164	2.6	100	32	26	6	0
2022	64111	33	45	10	0	0	0	88	1.4	53	21	9	5	0
Total	1490703	687	688	327	241	206	4259	6408	4.3	4345	1101	594	368	0

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

WESTERN AUSTRALIA

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	24776	0	0	4	5	2	66	77	3.1	31	19	17	9	1
1998	24717	0	1	3	2	2	51	59	2.4	25	11	15	8	0
1999	24849	0	1	1	2	0	66	70	2.8	40	13	6	11	0
2000	25093	3	0	2	4	3	66	78	3.1	39	17	12	10	0
2001	24002	1	0	4	2	1	66	74	3.1	44	14	11	5	0
2002	23601	0	4	2	3	1	107	117	5.0	70	25	14	7	1
2003	24273	4	3	4	2	9	115	137	5.6	87	20	15	15	0
2004	25295	3	5	1	3	5	120	137	5.4	84	28	13	12	0
2005	26253	1	5	2	1	3	120	132	5.0	92	23	7	10	0
2006	27777	2	3	3	4	1	151	164	5.9	117	27	11	9	0
2007	29165	6	3	1	3	6	150	169	5.8	125	25	12	7	0
2008	31851	4	7	4	6	4	163	188	5.9	142	27	11	8	0
2009	30879	9	11	7	1	7	161	196	6.3	140	35	7	14	0
2010	31424	6	7	7	2	2	155	179	5.7	141	26	7	5	0
2011	32259	10	10	4	5	5	167	201	6.2	156	24	13	8	0
2012	33627	17	7	6	3	0	145	178	5.3	138	27	9	4	0
2013	34516	20	10	7	6	2	159	204	5.9	158	26	11	9	0
2014	35403	21	14	9	8	4	148	204	5.8	161	23	13	7	0
2015	35135	22	27	11	3	1	128	192	5.5	134	37	15	6	0
2016	35429	17	18	10	1	3	102	151	4.3	113	23	10	5	0
2017	34498	23	12	18	3	9	70	135	3.9	89	24	13	9	0
2018	33257	19	12	13	10	3	53	110	3.3	75	19	9	7	0
2019	33539	35	15	12	5	8	25	100	3.0	64	21	11	4	0
2020	32426	25	14	11	8	8	12	78	2.4	52	12	10	4	0
2021	34039	30	18	9	6	2	0	65	1.9	41	15	6	3	0
2022	34039	21	11	2	0	0	0	34	1.0	19	10	4	1	0
Total	782122	299	218	157	98	91	2566	3429	4.4	2377	571	282	197	2

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

SOUTH AUSTRALIA

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	18362	0	1	1	3	2	46	53	2.9	29	12	7	5	0
1998	18226	0	2	0	3	2	41	48	2.6	28	9	6	5	0
1999	17958	0	0	2	3	1	41	47	2.6	27	6	9	5	0
2000	17859	1	2	1	0	2	34	40	2.2	22	10	5	3	0
2001	17281	2	1	4	4	2	37	50	2.9	26	10	7	7	0
2002	17665	1	0	2	3	1	68	75	4.2	51	12	6	6	0
2003	17443	3	2	3	4	4	78	94	5.4	61	17	5	11	0
2004	17140	1	2	2	1	4	69	79	4.6	56	16	3	4	0
2005	17801	2	3	3	0	0	83	91	5.1	69	10	8	4	0
2006	18260	3	5	2	0	2	80	92	5.0	68	16	6	2	0
2007	19666	4	2	4	4	5	87	106	5.4	77	16	11	2	0
2008	20229	5	8	4	2	1	81	101	5.0	72	14	7	8	0
2009	19735	6	10	4	1	3	81	105	5.3	80	15	6	4	0
2010	20078	9	12	0	1	2	89	113	5.6	84	17	7	5	0
2011	19892	5	12	2	1	5	84	109	5.5	85	15	6	3	0
2012	20433	14	10	3	2	1	71	101	4.9	72	15	4	10	0
2013	20090	11	15	1	3	1	64	95	4.7	70	9	12	4	0
2014	20384	11	11	7	1	1	62	93	4.6	64	14	9	6	0
2015	19587	12	11	1	2	2	45	73	3.7	51	12	5	5	0
2016	19772	9	6	2	1	2	44	64	3.2	48	7	8	1	0
2017	19072	18	9	3	2	1	29	62	3.3	42	7	8	5	0
2018	19113	15	8	1	3	1	18	46	2.4	27	9	5	5	0
2019	19490	6	9	1	4	1	11	32	1.6	17	6	6	3	0
2020	18526	13	6	4	2	4	1	30	1.6	19	7	4	0	0
2021	19757	13	10	3	0	0	0	26	1.3	20	4	1	1	0
2022	19757	11	13	1	0	0	0	25	1.3	14	4	5	2	0
Total	493576	175	170	61	50	50	1344	1850	3.7	1279	289	166	116	0

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

TASMANIA

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	6007	0	0	1	0	0	13	14	2.3	9	3	1	1	0
1998	5978	0	0	0	1	1	12	14	2.3	7	2	5	0	0
1999	6032	0	0	2	2	0	11	15	2.5	6	6	1	2	0
2000	5692	0	0	0	0	0	11	11	1.9	4	7	0	0	0
2001	6430	0	0	0	0	1	12	13	2.0	8	4	0	1	0
2002	6003	0	0	0	0	2	14	16	2.7	13	1	0	2	0
2003	5752	0	1	0	2	1	18	22	3.8	13	4	3	2	0
2004	5809	0	1	1	0	0	24	26	4.5	18	5	2	1	0
2005	6310	1	0	1	0	0	28	30	4.8	20	8	1	1	0
2006	6475	1	1	1	2	0	29	34	5.3	24	5	4	1	0
2007	6663	2	2	0	2	0	31	37	5.6	24	6	4	3	0
2008	6775	2	1	0	0	0	25	28	4.1	19	7	1	1	0
2009	6627	4	5	2	0	0	29	40	6.0	25	9	4	2	0
2010	6385	0	2	1	1	0	20	24	3.8	14	4	4	2	0
2011	6608	1	1	0	2	0	23	27	4.1	20	3	3	1	0
2012	6168	0	1	3	2	0	21	27	4.4	21	4	2	0	0
2013	6049	1	0	1	1	0	17	20	3.3	16	2	1	1	0
2014	5935	1	1	1	1	0	17	21	3.5	18	2	1	0	0
2015	5680	2	3	1	0	0	18	24	4.2	18	2	2	2	0
2016	5968	2	4	0	0	2	13	21	3.5	15	1	5	0	0
2017	5610	2	5	1	3	1	8	20	3.6	8	8	3	1	0
2018	5547	1	1	0	2	2	2	8	1.4	7	1	0	0	0
2019	5741	1	3	1	1	1	4	11	1.9	8	1	2	0	0
2020	5780	1	5	2	0	0	1	9	1.6	6	2	1	0	0
2021	6034	2	5	1	1	1	0	10	1.7	9	1	0	0	0
2022	6034	4	3	0	0	0	0	7	1.2	4	2	1	0	0
Total	158092	28	45	20	23	12	401	529	3.3	354	100	51	24	0

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH A HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

ACT

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	4208	0	0	0	1	0	16	17	4.0	10	3	3	1	0
1998	3982	0	0	0	0	0	18	18	4.5	12	5	1	0	0
1999	4253	0	0	2	6	0	11	19	4.5	4	6	5	4	0
2000	4065	1	0	3	1	0	16	21	5.2	10	4	4	3	0
2001	3938	0	1	1	0	1	8	11	2.8	3	4	3	1	0
2002	4112	1	0	1	1	3	22	28	6.8	15	5	4	4	0
2003	4128	1	0	2	1	0	15	19	4.6	12	2	2	3	0
2004	4174	1	1	1	1	1	15	20	4.8	13	5	1	1	0
2005	4210	1	1	1	1	1	21	26	6.2	16	4	1	5	0
2006	4484	3	1	2	3	0	22	31	6.9	23	3	2	3	0
2007	4757	4	4	0	1	0	27	36	7.6	23	7	5	1	0
2008	4808	2	2	2	0	1	17	24	5.0	16	3	2	3	0
2009	4860	5	2	0	2	0	26	35	7.2	25	3	4	3	0
2010	5152	2	2	1	2	1	23	31	6.0	21	9	1	0	0
2011	5121	1	2	2	1	0	18	24	4.7	17	3	1	3	0
2012	5461	4	1	1	4	0	18	28	5.1	21	2	3	2	0
2013	5545	2	4	1	3	1	14	25	4.5	18	2	4	1	0
2014	5552	13	0	2	1	3	20	39	7.0	29	2	6	2	0
2015	5542	6	0	2	1	0	18	27	4.9	19	5	3	0	0
2016	5152	5	2	0	0	2	11	20	3.9	15	1	2	2	0
2017	6207	4	4	0	1	0	8	17	2.7	10	3	3	1	0
2018	5374	4	4	2	4	1	0	15	2.8	7	4	2	2	0
2019	5520	7	3	0	0	0	3	13	2.4	8	1	1	3	0
2020	5368	9	2	1	3	0	0	15	2.8	9	2	2	2	0
2021	5543	5	3	2	2	0	0	12	2.2	7	1	3	1	0
2022	5543	4	5	0	0	0	0	9	1.6	5	4	0	0	0
Total	127059	85	44	29	40	15	367	580	4.6	368	93	68	51	0

Births from ABS CAT 3301.0 except for 2022, which is an estimate

DETAILS OF PERSONS UNDER THE AGE OF 26 YEARS WITH HEARING IMPAIRMENT WHO WERE FITTED WITH A HEARING AID OR COCHLEAR IMPLANT ON 31 DEC. 2022

NT

BIRTH YEAR	BIRTHS	FIRST FITTING AGE (MONTHS)						TOTAL FITTED	RATE PER 1000 BIRTHS	LATEST 3FAHL (DBHL)				
		<3	3 to <6	6 to <12	12 to <18	18 to <24	24+			0-40	41-60	61-90	91+	Unknown
1997	3588	0	0	1	0	0	15	16	4.5	7	4	2	3	0
1998	3641	0	0	0	0	0	5	5	1.4	3	2	0	0	0
1999	3576	0	0	0	0	0	4	4	1.1	2	2	0	0	0
2000	3685	0	0	0	0	0	9	9	2.4	2	4	1	2	0
2001	3822	0	0	0	1	0	3	4	1.0	2	1	1	0	0
2002	3724	0	1	0	0	0	11	12	3.2	7	2	2	1	0
2003	3790	0	0	0	0	0	21	21	5.5	15	5	1	0	0
2004	3551	0	0	0	2	0	23	25	7.0	17	3	3	2	0
2005	3660	0	0	0	0	1	21	22	6.0	18	2	1	1	0
2006	3696	0	0	0	0	0	23	23	6.2	19	1	1	2	0
2007	3896	0	1	0	0	0	24	25	6.4	17	6	1	1	0
2008	3944	0	0	1	0	1	34	36	9.1	27	9	0	0	0
2009	3820	0	0	0	1	0	37	38	9.9	32	5	1	0	0
2010	3899	0	0	0	1	1	31	33	8.5	28	4	0	1	0
2011	3954	0	2	0	0	0	41	43	10.9	34	8	1	0	0
2012	4104	4	2	0	1	1	38	46	11.2	33	5	6	2	0
2013	4053	2	1	0	0	1	26	30	7.4	24	4	1	1	0
2014	4026	3	1	0	1	1	26	32	7.9	24	5	1	2	0
2015	4004	1	1	1	0	0	33	36	9.0	26	9	1	0	0
2016	3927	4	2	1	1	1	39	48	12.2	35	8	3	2	0
2017	3882	1	6	0	1	1	30	39	10.0	30	6	2	1	0
2018	4050	3	3	1	0	4	23	34	8.4	29	3	2	0	0
2019	3658	3	2	0	1	0	13	19	5.2	13	4	1	1	0
2020	3752	2	0	0	2	1	2	7	1.9	6	1	0	0	0
2021	3784	1	5	3	1	1	0	11	2.9	9	2	0	0	0
2022	3784	2	0	1	0	0	0	3	0.8	2	1	0	0	0
Total	99270	26	27	9	13	14	532	621	6.3	461	106	32	22	0

Births from ABS CAT 3301.0 except for 2022, which is an estimate.