

**2023 CDC EHDI
Hearing Screening and Follow-up Survey (HSFS)**

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**Please use dropdown bar to select State/Territory.*

The following navigation bar is available on all worksheets.
Click on a tab to jump to the corresponding sheet.



Directions:

Please complete the following survey with only documented, non-estimated data for infants born between January 1, 2023 and December 31, 2023. Any comments and/or caveats about the reported data can be entered in the Final section at the end of the survey. If you have any questions about this survey, please refer to the Explanations document or contact Suhana Ema (sema@cdc.gov).

Survey Notes:

The survey is divided into three parts, which each have several different sections. These include Part 1 (Screening, Diagnostic, and Intervention Data), Part 2 (Type and Severity of Hearing Losses), and Part 3 (Demographics).

Data cannot be manually entered into fields highlighted in **green**. The totals for these green fields will be automatically calculated based on the data entered into the **yellow-highlighted** fields.

To navigate through the survey use the menu bar located near the top of each survey page and click on the desired section (e.g., "Diagnostic Data").

Part 1: Screening, Diagnostic, and Intervention Data

[Screening Data](#)

[Diagnostic Data](#)

[Intervention Data](#)

[Additional Cases Not Reported](#)

2023 Hearing Screening Data	
Total Occurrent Births [∞]	33,313
Total Occurrent Births According to Vital Records	33,313
Optional: Total Occurrent Homebirths	325
Overall Documented Screening Results (Most Recent/Final Screen)	
Total Documented as Screened	30,540
Passed (most recent/final screen)	
Total Passed (most recent / final screen)	28,166
<i>Passed: Before 1 Month of Age</i>	27,957
<i>Passed: After 1 Month of Age</i>	209
<i>Passed: Age Unknown</i>	0
Not Passed (most recent/final screen)	
Total Not Passed (most recent / final screen)	2,374
<i>Not Passed: Before 1 Month of Age</i>	2,346
<i>Not Passed: After 1 Month of Age</i>	28
<i>Not Passed: Age Unknown</i>	0
Detailed Screening Results (if applicable)	
Passed (most recent/final screen)	
<i>Passed initial / No outpatient</i>	26,081
<i>No initial/ Passed outpatient</i>	1,364
<i>Passed initial / Passed outpatient</i>	44
<i>Referred initial / Passed outpatient</i>	677
Total Passed (most recent/final screen)	28,166
Not Passed (most recent/final screen)	
<i>Referred initial / No outpatient</i>	2,022
<i>No initial/ Referred outpatient</i>	82
<i>Passed initial / Referred outpatient</i>	36
<i>Referred initial / Referred outpatient</i>	234
<i>Referred initial / Straight to diagnostic evaluation</i>	0
Total Not Passed (most recent/final screen)	2,374
No Documented Screening / Undetermined (Most Recent/Final Screen)	
Total Documented as Not Screened	2,773
Straight to Diagnostic Evaluation	0
<i>The sum of the value entered in this field and the value for Total Not Passed will automatically populate into Diagnostic Data section.</i>	
Infant Died	305
Non-resident/Moved Out of Jurisdiction	0
Unable to be Screened due to Medical Reasons	5
Parents / Family Declined Services	13
Infant Transferred and No Documentation of Screening	606
Homebirths	325
Parents / Family Contacted but Unresponsive	0
Unable to Contact	53
Unknown	1,466
Other	0
Total Occurrent Births [∞]	33,313

Notes:

See the HSFS Explanations document for the definitions

[∞] The value for the "Total Occurrent Births" field at the bottom of this table must match the value reported for the "Total Occurrent Births" field at the top of this table. If there is any difference you will receive an error message. If received, please make sure to correct this error before continuing to the next section.

Part 1: Screening, Diagnostic, and Intervention Data

Screening Data	Diagnostic Data	Intervention Data	Additional Cases Not Reported
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2023 Diagnostic Data

Total Not Passed (most recent/final screen) <i>This is the sum of infants not passing most recent/final hearing screening <u>and</u> infants who did not receive hearing screening due to being sent straight to diagnostic evaluation, as reported in previous Screening Data section.</i>	2,374
Documented Diagnosis (please report <u>initial</u> diagnosis)	
Total with Documented Diagnosis	617
Diagnosed with No Permanent Hearing Loss	
Total with No Hearing Loss <i>This is the sum of infants with no hearing loss and infants with transient hearing loss.</i>	497
<i>No Hearing Loss: Before 3 Months of Age</i>	400
<i>No Hearing Loss: After 3 Months of Age</i>	86
<i>No Hearing Loss: Age Unknown</i>	11
Diagnosed with Permanent Hearing Loss	
Total with Permanent Hearing Loss	57
<i>Permanent Hearing Loss: Before 3 Months of Age</i>	26
<i>Permanent Hearing Loss: After 3 Months but Before 6 Months of Age</i>	16
<i>Permanent Hearing Loss: After 6 Months of Age</i>	15
<i>Permanent Hearing Loss: Age Unknown</i>	0
Diagnosed with Transient Hearing Loss	
Transient Hearing Loss	63
<i>Transient Hearing Loss: Before 3 Months of Age</i>	38
No Documented Diagnosis / Undetermined	
Total with No Documented Diagnosis	1,757
<i>Audiological Diagnosis in Process (Awaiting Diagnosis) Only applies to infants seen at least one time and have a follow-up appointment scheduled.</i>	97
<i>Infant Died</i>	16
<i>Non-resident / Moved Out of Jurisdiction</i>	2
<i>Unable to Receive Diagnostic Testing due to Medical Reasons</i>	0
<i>Parents / Family Declined Services</i>	5
<i>Parent / Family Contacted but Unresponsive</i>	1
<i>Unable to Contact</i>	703
<i>Unknown</i>	933
<i>Other</i>	0
Total Diagnosed and Not Diagnosed[∞]	2,374

Notes:
 See the HSFS Explanations document for the definitions
 ∞ The value for the "Total Diagnosed and Not Diagnosed" field at the bottom of this table must match the value for the "Total Not Passed (most recent/final screen)" field at the top of this table. If there is any difference you will receive an error message. If received, please make sure to correct this error before continuing to the next section.

Home Page	Part 1: Screening, Diagnostic, and Intervention Data	Part 2: Type and Severity of Hearing Losses	Part 3: Demographics	Supplemental	Final
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Part 1: Screening, Diagnostic, and Intervention Data

Screening Data	Diagnostic Data	Intervention Data	Additional Cases Not Reported
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2023 Early Intervention (EI) Data	
Total with Permanent Hearing Loss	57
Total with Referral Status	57
Referred to Part C EI	20
Referred to Part C EI: Before 6 Months of Age	19
Referred to Part C EI: After 6 Months of Age	1
Referred to Part C EI: Age Unknown	0
Not Referred to Part C EI	37
Unknown Referral Status	0
Documented EI Services	
Total Enrolled in Part C EI Services	9
Signed IFSP: Before 6 Months of Age	6
Signed IFSP: After 6 Months of Age	3
Signed IFSP: Age Unknown	0
Total from Non-Part C EI Services Only	0
<i>For the purposes of this survey, Non-Part C EI does <u>not</u> include family to family support services.</i>	
Received Non-Part C EI Services: Before 6 Months of Age	0
Received Non-Part C EI Services: After 6 Months of Age	0
Received Non-Part C EI Services: Age Unknown	0
No Documented EI Services/ Undetermined	
Total with No Documented EI Services	48
Not Eligible for Part C Services	0
Diagnosis Changed to No Hearing Loss	0
Infant Died	0
Non-resident / Moved Out of Jurisdiction	0
Unable to Receive EI due to Medical Reasons	0
Parents / Family Declined Services	3
Parent / Family Contacted but Unresponsive	0
Unable to Contact	2
Unknown	37
Other	6
Total with EI Services & No EI Services	57

Notes:

Part 1: Screening, Diagnostic, and Intervention Data

Screening Data	Diagnostic Data	Intervention Data	Additional Cases Not Reported
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2023 Additional Cases Not Reported

Cases of Hearing Loss not included in the "Diagnostic Data" section *	
Total Additional Cases of Hearing Loss not included in Diagnostic Data	0
Additional Cases of Permanent Hearing Loss (e.g., late onset)	

Cases of Hearing Loss not included in the "Intervention Data" section **	
Total Additional Cases of Hearing Loss not included in Intervention Data	0
Additional Cases Enrolled in EI (Part C or non-Part C)	
Additional Cases Not Receiving Intervention: Monitoring Only	
Additional Cases Not Receiving Intervention: Unknown	
Additional Cases Not Receiving Intervention: Other	

Cases Enrolled in EI without a Confirmed Diagnosis ***	
Total Additional Cases Enrolled in EI without Confirmed Diagnosis	0

Notes:

- * Only cases of hearing loss not reported in the previous "Diagnostic Data" section should be reported in this "Cases of Hearing Loss not included in the 'Diagnostic Data'" section.
- ** Only cases of hearing loss not reported in the previous "Intervention Data" section should be reported in this "Cases of Hearing Loss not included in the 'Intervention Data'" section.
- *** Only cases who did not pass hearing screening, have no confirmed diagnosis, but were enrolled in early intervention services should be reported in this "Cases Enrolled in EI without a Confirmed Diagnosis" section.

Part 2: Type and Severity of Hearing Losses (By Ear)

Total Cases of Permanent Hearing Loss (from Part 1)*	57
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		BILATERAL				UNILATERAL			LATERALITY UNKNOWN <i>(for Cases where it is unknown if the loss is unilateral or bilateral)</i>
		RIGHT EAR	LEFT EAR	UNKNOWN EAR <i>(Note: record degree of loss for <u>each</u> ear)</i>		RIGHT EAR	LEFT EAR	UNKNOWN EAR	
Sensorineural	Slight	0	0	0	0	0	0	0	
	Mild	9	10	0	0	0	2	0	
	Moderate	4	1	0	0	1	1	0	
	Moderately Severe	0	2	0	0	0	1	0	
	Severe	3	2	0	0	3	1	0	
	Profound	6	6	0	0	2	0	0	
	Unknown Severity	0	0	0	0	0	0	0	
Conductive	Slight	0	0	0	0	0	0	0	
	Mild	0	1	0	0	1	4	0	
	Moderate	2	1	0	0	0	0	0	
	Moderately Severe	0	1	0	0	0	0	0	
	Severe	0	1	0	0	0	0	0	
	Unknown Severity	1	0	0	0	0	0	0	
Mixed	Slight	0	0	0	0	0	0	0	
	Mild	0	0	0	0	0	0	0	
	Moderate	2	4	0	0	0	1	0	
	Moderately Severe	2	2	0	0	0	1	0	
	Severe	2	1	0	0	0	0	0	
	Profound	1	0	0	0	0	0	0	
	Unknown Severity	0	0	0	0	0	0	0	
Type Unknown	Slight	0	0	0	0	0	0	0	
	Mild	0	0	0	0	0	0	0	
	Moderate	0	0	0	0	0	0	0	
	Moderately Severe	0	0	0	0	0	0	0	
	Severe	0	0	0	0	0	0	0	
	Profound	0	0	0	0	2	0	0	
	Unknown Severity	0	0	0	0	0	0	0	
Auditory Neuropathy	Slight	0	0	0	0	0	0	0	
	Mild	0	0	0	0	0	0	0	
	Moderate	0	0	0	0	0	0	0	
	Moderately Severe	0	0	0	0	0	0	0	
	Severe	1	1	0	0	0	0	0	
	Profound	0	0	0	0	1	0	0	
	Unknown Severity	1	1	0	0	1	1	0	
Totals by Ear	34	34	0	0	11	12	0	0	
Totals by Child	34	0	11	12	0	0			
Total Cases Resolved (i.e., change from hearing loss to no hearing loss)									
Overall Total*								57	

Note:
* The value for the "Overall Total" field at the bottom of this table must match the value for the "Total Cases of Permanent Hearing Loss" field at the top of this table. If there is any difference you will receive an error message. If received, please make sure to correct this error before submitting the survey.

Part 3: Demographics

	Screening			Diagnostics		Intervention
	Total Occurrent Births	Total Pass	Total Not Passed**	Total with No Hearing Loss (includes transient cases)	Total with Permanent Hearing Loss	Total Enrolled in Part C EI
Totals (from Part 1) *	33,313	28,166	2,374	560	57	9
Sex						
Male	15,843	14,322	1,188	299	32	2
Female	15,219	13,751	1,178	259	24	7
Unknown	2,251	93	8	2	1	0
Totals	33,313	28,166	2,374	560	57	9

Maternal Age						
<15 years	0	0	0	0	0	0
15-19 years	0	0	0	0	0	0
20 – 24 years	0	0	0	0	0	0
25-34 years	0	0	0	0	0	0
35 – 50 years	0	0	0	0	0	0
> 50 years	0	0	0	0	0	0
Unknown	33,313	28,166	2,374	560	57	9
Totals	33,313	28,166	2,374	560	57	9

Maternal Education						
Less than High School	0	0	0	0	0	0
High School Graduate or GED	0	0	0	0	0	0
Some College or AA/AS degree	0	0	0	0	0	0
College Graduate or above	0	0	0	0	0	0
Unknown	33,313	28,166	2,374	560	57	9
Totals *	33,313	28,166	2,374	560	57	9

Maternal Ethnicity						
Hispanic or Latino	1,429	1,213	179	30	4	3
Not Hispanic or Latino	22,659	20,404	1,766	445	40	4
Unknown	9,225	6,549	429	85	13	2
Totals *	33,313	28,166	2,374	560	57	9

Maternal Race						
White (Not Hispanic)	11,492	10,369	915	189	17	2
White (Hispanic)	342	310	24	8	0	0
White (Ethnicity Unknown)	3,516	3,277	206	31	2	0
Black or African American (Not Hispanic)	10,033	9,044	739	229	19	2
Black or African American (Hispanic)	56	47	6	3	0	0
Black or African American (Ethnicity Unknown)	2,691	2,507	149	32	3	0
Asian	261	229	25	7	0	0
Native Hawaiian or Pacific Islander	3	3	0		0	0
American Indian or Alaskan Native	192	171	18	2	1	0
Unknown	1,364	1,168	155	29	10	2
Other	3,363	1,041	137	30	5	3
Totals *	33,313	28,166	2,374	560	57	9

Notes:

* The row values reported for the "Totals (from Part 1)" fields at the top of this table must match the row values reported for the "Totals" fields, for each demographic variable. If there is any difference you will receive an error message. Red shading will indicate the cell(s) with an error. If received, please make sure to correct the error(s) before submitting the survey.

** Total Not Passed field includes infants who did not receive hearing screening due to being sent straight to diagnostic evaluation.

Supplemental Section (new)

Notes:

- Family-to-family support is an area of interest to HRSA MCHB and other EHDI partners. The following questions have been added to the HSFS to help explore the feasibility of collecting information about this area of interest.
- Completing this section is not required. It is optional.
- Please only report family-to-family support information for babies reported to have permanent hearing loss in the Diagnostic Data section of the HSFS.
- CDC will not use this information for any current CDC EHDI cooperative agreement or other performance measures.
- CDC will provide this information to HRSA MCHB and interested partners, along with a summary of limitations.
- Partners will not publicly share this information.

Definitions:

Family-to-family support is defined as "support from a trained parent/caregiver of a child who is D/HH (i.e., has a child with a hearing loss/atypical hearing) providing support to families with a child who is D/HH (i.e., has a child with a hearing loss/atypical hearing); family support could include any parent, primary caregiver or guardian."

Referred is defined as "the receipt (sharing per program agreement protocol) of contact and pertinent information from an entity (e.g., EHDI or EI program, another family, or provider) to the family-based organization (FBO) for any child with suspected or confirmed permanent atypical hearing in one or both ears. The information is received for the purpose of offering, providing, and/or enrolling in family-to-family support."

Enrolled is defined as "the two-way verbal and/or written acceptance (as agreed upon between the EHDI program and the FBO) to participate in family-to-family support services followed with documentation by the FBO into the designated data system(s)."

The above definitions can be found here: https://www.infanthearing.org/webinars/docs/FEHDI_Definitions_10Dec2020_Final%20DRAFT.pdf

Questions:

1. Do you collect family-to-family support information about referral that meet the definitions? *(Please click gray box to see dropdown menu)*
2. *(If answered Yes to #1)* How many infants born in 2023 with permanent hearing loss were referred to family-to-family support?
3. Do you collect family-to-family support information about enrollment that meet the definitions? *(Please click gray box to see dropdown menu)*
4. *(If answered Yes to #3)* How many infants born in 2023 with permanent hearing loss were enrolled in family-to-family support?

Yes
57
Yes
29

Final

Comments:

Please use this section to enter any comments and/or caveats about the reported data (2,500 character limit).

No documented screening: "Unknown" includes 212 children screened with an OAE instead of an AABR contrary to state policy.

Check for Errors:

Please refer to the list below to check for outstanding errors in the survey. If there are any red fields, please navigate to the appropriate tab and fix the error before submitting.

Part 1: Screening Data	No errors
Part 1: Diagnostic Data	No errors
Part 1: Intervention Data	No errors
Part 2: Type and Severity of Hearing Losses	No errors
Part 3: Demographics	No errors