

## Summary of 2018 National CDC EHDI Data

**Data Source:** 2018 CDC Early Hearing Detection and Intervention (EHDI) Hearing Screening & Follow-up Survey (HSFS)

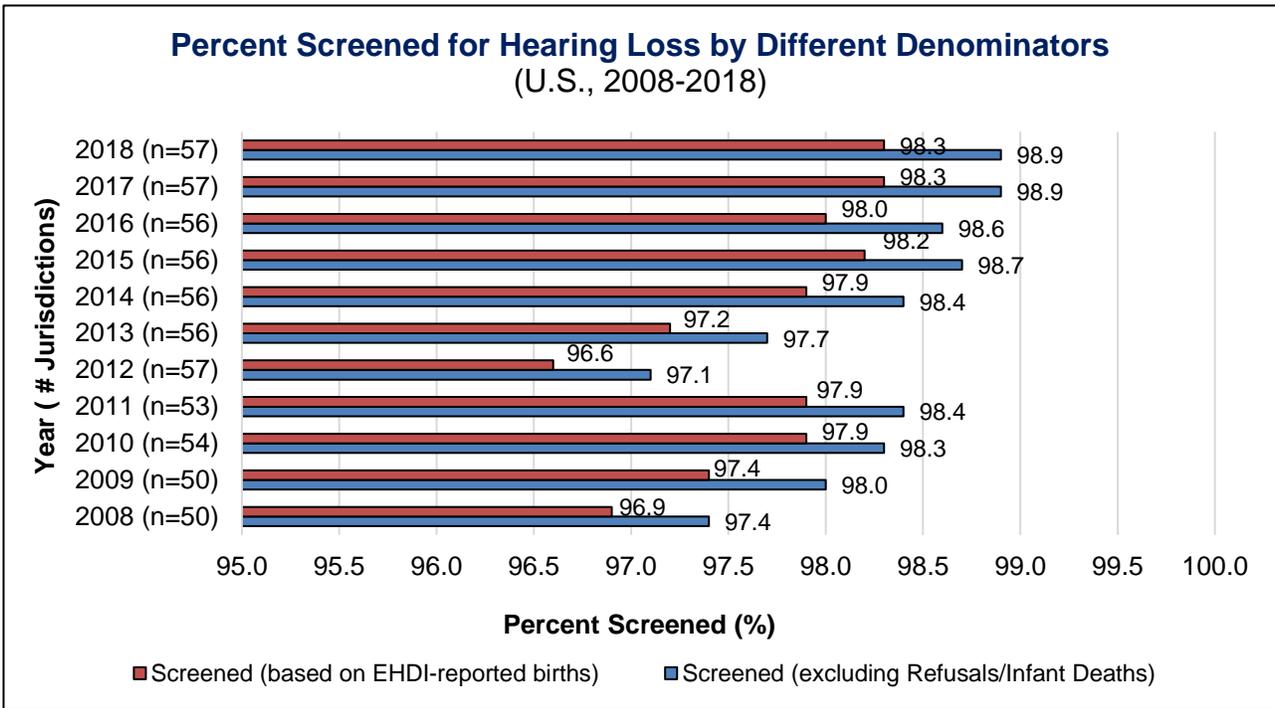
**Number of Respondents:** 57<sup>a</sup> (50 states, 7 territories) AL, AK, American Samoa, AZ, AR, CA, Commonwealth of the Northern Mariana Islands, CT, DE, District of Columbia, FL, GA, Guam, HI, ID, IL, IN, IA, KS, KY, LA, ME, Marshall Islands, MD, MA, MI, Micronesia, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, Palau, PA, Puerto Rico, RI, SC, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY

2018 Documented EHDI Data Items	
Total Occurrent Births (according to state & territorial EHDI programs)	<b>3,744,815</b>
<b>Documented Hearing Screening</b>	
Percent Screened	<b>98.3%</b> (n = 3,681,776) (Range: 84.1% - 99.6%)
○ Percent Screened (excluding infant deaths & parental refusals)	98.9%
○ Percent Screened before 1 Month of Age	97.0% (n = 3,571,658)
Percent Not Passing final / most recent screening	1.6% (n = 60,258)
<b>No Documented Hearing Screening</b>	
Percent w. No Documented Screening:	<b>1.7%</b> (n = 63,039)
○ Overall Percent Loss to Follow-up (LFU) / Loss to Documentation (LTD) for Screening <sup>⊗</sup>	<b>0.5%</b> (n = 19,652) (Range: 0.0 - 7.7%)
▪ LFU/LTD = # Parents/Family Contacted but Unresponsive (1,023) + # Unable to Contact (2,484) + # Unknown (16,145)	
<b>Documented Diagnosis</b>	
Percent Diagnosed	<b>64.1%</b> (n = 38,634) (Range: 0.0 - 100.0%)
○ Percent with No Hearing Loss (i.e., no diagnosed hearing loss)	53.4% (n = 32,202)
○ Percent with Hearing Loss	10.7% (n = 6,432)
○ Percent Diagnosed (normal hearing + hearing loss) before 3 Months of Age	77.1% (n = 29,799)
Prevalence of Hearing Loss	<b>1.7 per 1,000 screened</b>
<b>No Documented Diagnosis</b>	
Percent w. No Documented Diagnosis:	<b>35.9%</b> (n = 21,624)
○ In Process	1.5% (n = 898)
○ Infant Died / Parents Declined	3.8% (n = 2,315)
○ Non-Resident / Moved	2.9% (n = 1,755)
○ Overall Percent Loss to Follow-up (LFU) / Loss to Documentation (LTD) for Diagnosis <sup>⊗</sup>	<b>25.9%</b> (n = 15,581) (Range: 0.0 - 89.1%)
▪ LFU/LTD = # Parents/Family Contacted but Unresponsive (5,229) + # Unable to Contact (3,828) + # Unknown (6,524)	
▪ Percent LFU / LTD for Diagnosis: Due to Unable to Contact and Unknown	<b>17.2%</b> (n = 10,352)
▪ Percent Unresponsive for Diagnosis: Due to Parents/Family Contacted but Unresponsive	<b>8.7%</b> (n = 5,229)
<b>Other Cases of Hearing Loss</b>	
Number of Additional Cases (e.g., late-onset hearing loss & infants not screened at birth)	n = 344
Number of Cases of Non-Permanent / Transient Hearing Loss	n = 1,223
<b>Documented Referral to Early Intervention (EI)</b>	
Percent Referred to Part C EI (of those with hearing loss)	86.2% (n = 5,543)
Percent Not Referred to Part C and Unknown (of those with hearing loss)	9.7% (n = 626)
<b>Documented Enrollment in EI</b>	
Percent Enrolled in EI (Part C & Non-Part C)	<b>66.6%</b> (n = 4,286) (Range 0.0% - 100.0%)
○ Enrolled in EI = # in Part C EI (4,170) + # in Non-Part C EI (116)	
○ Percent Enrolled in EI before 6 Months of Age (Part C & Non-Part C)	<b>70.1%</b> (n = 3,003)
<b>No Documented Enrollment in EI</b>	
Percent w. No Documented EI Services	<b>32.9%</b> (n = 2,113)
○ Infant Died / Parents Declined	9.6% (n = 620)
○ Non-Resident / Moved	2.1% (n = 136)
○ Not Eligible for Part C Services	1.4% (n = 93)
○ Overall Percent Loss to Follow-up (LFU) / Loss to Documentation (LTD) for EI <sup>⊗</sup>	<b>17.7%</b> (n = 1,141) (Range 0.0 - 100.0%)
▪ LFU/LTD = # Parents/Family Contacted but Unresponsive (150) + # Unable to Contact (275) + # Unknown (716)	
▪ Percent LFU / LTD for EI: Due to Unable to Contact and Unknown	<b>15.4%</b> (n = 991)
▪ Percent Unresponsive for EI: Due to Parents/Family Contacted but Unresponsive	<b>2.3%</b> (n = 150)

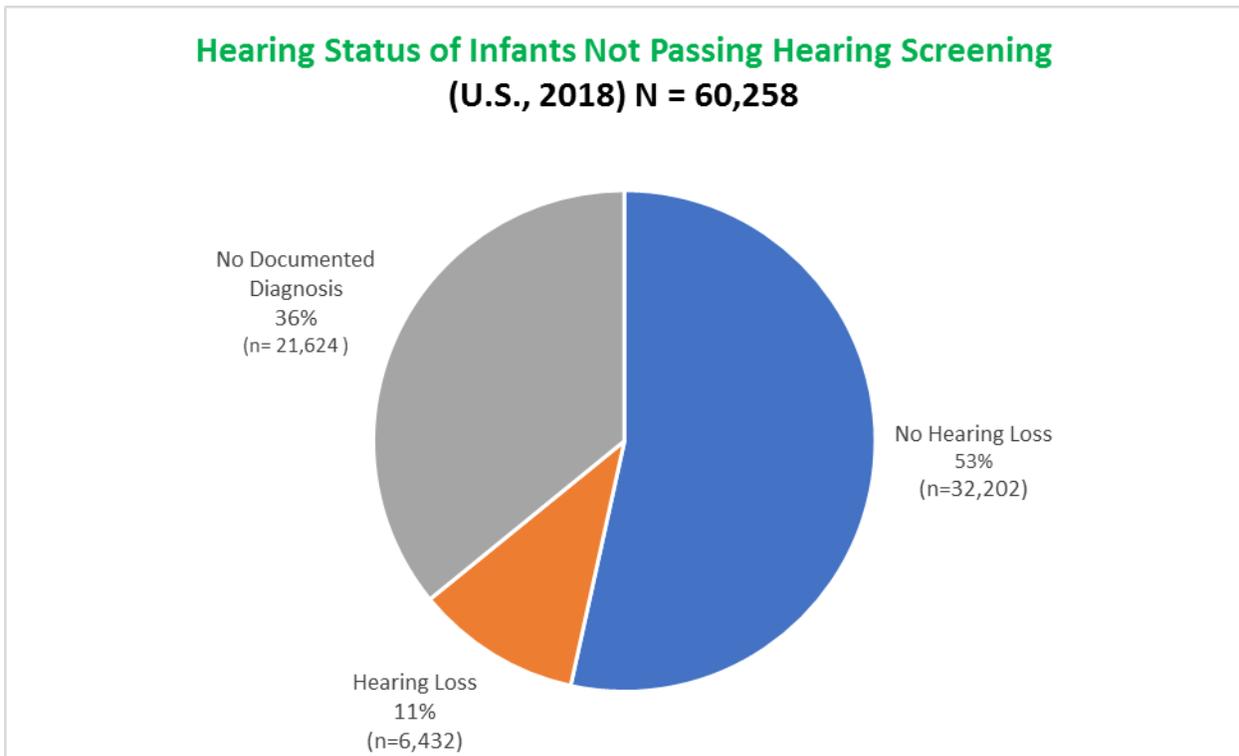
**Notes:** <sup>a</sup>All 57 states and territories responded to all parts of the survey <sup>⊗</sup>Respondents had the option to either use the revised definition or previous version for the field "Parents/Family Contacted but Unresponsive." 45 jurisdictions used the revised definition for the 2018 HSFS.

For summaries by jurisdiction, please visit: [www.cdc.gov/ncbddd/hearingloss/ehdi-data.html](http://www.cdc.gov/ncbddd/hearingloss/ehdi-data.html)

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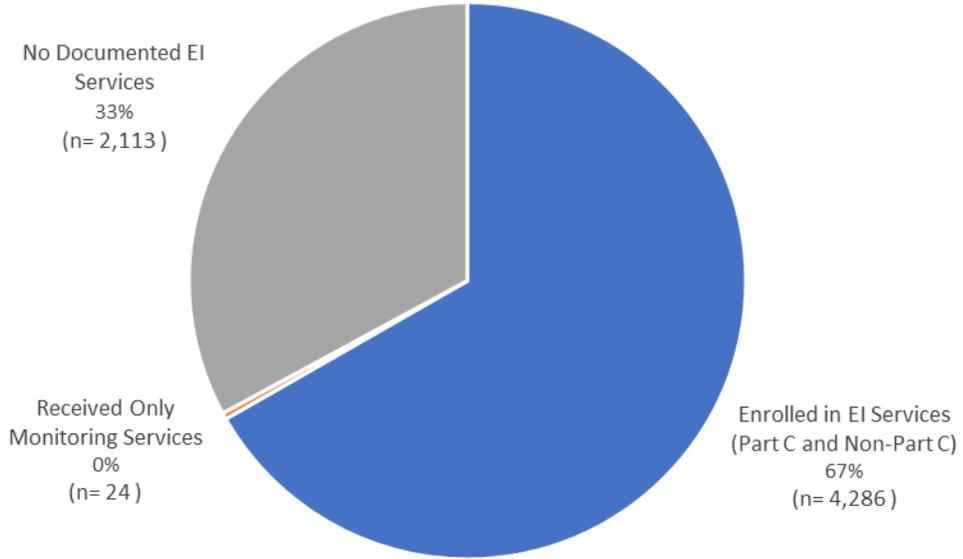


- Screened (based on EHDI-reported births): # screened / occurrent births reported by EHDI programs x 100
- Screened (excluding Refusals/Infant Deaths): # screened / occurrent births, excluding infant deaths & parental refusals x 100



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**Documented Intervention Status of Infants with Hearing Loss  
(U.S., 2018) Total w. Hearing Loss = 6,432**



EI = Early Intervention

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**Data Notes**

- Hearing Screening and Follow-up Survey data reflect information that states and territories have reportedly **documented** without estimation. As a result, data reported by CDC EHDI may differ from other sources.
- Some respondents only provided partial data (e.g., hearing screening data only). As a result, the number of reporting states and territories and denominators varies for some of the data sections.
- These data are subject to change if additional states and/or territories report data for year 2018.
- **In Process:** Respondents were advised that to be reported in this category, each infant must have been seen for diagnostic testing at least one time and have a follow-up appointment already scheduled.
- **LFU (Loss to Follow-up) / LTD (Loss to Documentation):** Sub-group of “No Documented Diagnosis / Undetermined” and “No Intervention Services / Undetermined.” Includes cases where infants’ families were *Contacted but Unresponsive, Unable to Contact, and Unknown.*

**Explanation of 2018 Calculations\***

**Documented Hearing Screening**

Percent Screened

$$3,681,776 \text{ (\# screened)} / 3,744,815 \text{ (occurrent births reported by EHDI programs)} \times 100 = 98.9\%$$

Percent Screened (*excluding infant deaths & parental refusals*)

$$3,681,776 \text{ (\# screened)} / 3,722,800 \text{ (occurrent births excluding infant deaths & parental refusals)} \times 100 = 98.9\%$$

Percent Screened Before 1 Month of Age

$$3,571,658 \text{ (\# pass before 1 month + \# not pass before 1 month)} / 3,681,776 \text{ (\# screened)} \times 100 = 97.0\%$$

Percent Not Passing final / most recent hearing screening

$$60,258 \text{ (\# not pass)} / 3,681,776 \text{ (\# screened)} \times 100 = 1.6\%$$

**No Documented Hearing Screening**

Percent with No Documented Hearing Screening

$$63,039 \text{ (\# w. no documented screening)} / 3,744,815 \text{ (\# occurrent births reported by EHDI programs)} \times 100 = 1.7\%$$

Overall Percent LFU / LTD (*i.e., Unable to Contact / Unresponsive / Unknown*)

$$19,652 \text{ (\# unable to contact + \# unresponsive + \# unknown)} / 3,744,815 \text{ (\# occurrent births)} \times 100 = 0.5\%$$

**Documented Diagnosis**

Percent Diagnosed

$$38,634 \text{ (\# w. documented diagnosis)} / 60,258 \text{ (\# not pass)} \times 100 = 64.1\%$$

Percent with No Hearing Loss (*i.e., no diagnosed hearing loss*)

$$32,202 \text{ (\# w. no hearing loss)} / 60,258 \text{ (\# not pass)} \times 100 = 53.4\%$$

Percent Hearing Loss

$$6,432 \text{ (\# w. diagnosed permanent hearing loss)} / 60,258 \text{ (\# not pass)} \times 100 = 10.7\%$$

Percent Diagnosed Before 3 Months of Age

$$29,799 \text{ (\# diagnosed with no hearing loss before 3 months + \# with permanent hearing loss before 3 months)} / 38,634 \text{ (\# w. documented diagnosis)} \times 100 = 77.1\%$$

Prevalence of Hearing Loss

$$6,432 \text{ (\# w. diagnosed permanent hearing loss)} / 3,681,776 \text{ (\# screened)} \times 1,000 = 1.7 \text{ per 1,000 screened}$$

**No Documented Diagnosis**

Percent with No Documented Diagnosis (*of those not passing*)

$$21,624 \text{ (\# w. no documented diagnosis)} / 60,258 \text{ (\# not pass screening)} \times 100 = 35.9\%$$

Percent in Process

$$898 \text{ (\# in process)} / 60,258 \text{ (\# not pass screening)} \times 100 = 1.5\%$$

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Percent Infant Died / Parents Declined Services

2,315 (# infant died + # parents declined services) / 60,258 (# not pass screening) x 100 = 3.8%

Percent Non-Resident or Moved Out of Jurisdiction

1,755 (# non-resident + # moved out of jurisdiction) / 60,258 (# not pass screening) x 100 = 2.9%

Overall Percent LFU / LTD (*i.e., Unable to Contact / Unresponsive / Unknown*)

15,581 (# unable to contact + # unresponsive + # unknown) / 60,258 (# not pass screening) x 100 = 25.9%

Percent LFU/LTD for Diagnosis: Due to Unable to Contact and Unknown

10,352 (# unable to contact + # unknown) / 60,258 (# not pass screening) x 100 = 17.2%

Percent Unresponsive for Diagnosis: Due to Parents/Family Contacted but Unresponsive

5,229 (# parents/family contacted but unresponsive) / 60,258 (# not pass screening) x 100 = 8.7%

**Documented Referral to EI**

Percent Referred to Part C EI (*of those with hearing loss*)

5,543 (# referred to Part C EI) / 6,432 (# w. permanent hearing loss) x 100 = 86.2%

Percent Not Referred to Part C and Unknown (*of those with hearing loss*)

626 (# not referred to Part C + # unknown) / 6,432 (# w. permanent hearing loss) x 100 = 9.7%

**Documented Enrollment in EI**

Percent Enrolled in EI (*Part C & Non-Part C*)

4,286 (# enrolled in Part C + # in non-Part C EI) / 6,432 (# w. permanent hearing loss) x 100 = 66.6%

Percent Enrolled in EI before 6 Months of Age (*Part C & Non-Part C*)

3,003 (# enrolled in Part C EI before 6 months + # in Non-Part C EI before 6 Months) / 4,286 (# enrolled in Part C + # in non-Part C EI) x 100 = 70.1%

**No Documented Enrollment in EI**

Percent with No Documented EI Services (*of those with hearing loss*)

2,113 (# not receiving any EI services) / 6,432 (# w. permanent hearing loss) x 100 = 32.9%

Percent Infant Died / Parents Declined (*of those with hearing loss*)

620 (# infant died + # parents declined services) / 6,432 (# w. permanent hearing loss) x 100 = 9.6%

Percent Non-Resident / Moved (*of those with hearing loss*)

136 (# non-resident + # moved out of jurisdiction) / 6,432 (# w. permanent hearing loss) x 100 = 2.1%

Percent Not Eligible for Part C Services (*of those with hearing loss*)

93 (# not eligible for Part C services) / 6,432 (# w. permanent hearing loss) x 100 = 1.4%

Percent LFU / LTD for EI

1,141 (# unable to contact + # unresponsive + # unknown) / 6,432 (# w. permanent hearing loss) x 100 = 17.7%

Percent LFU/LTD for EI: Due to Unable to Contact and Unknown

991 (# unable to contact + # unknown) / 6,432 (# w. permanent hearing loss) x 100 = 15.4%

Percent Unresponsive for EI: Due to Parents/Family Contacted but Unresponsive

150 (# parents/family contacted but unresponsive) / 6,432 (# w. permanent hearing loss) x 100 = 2.3%

*\*Based on data from 57 states & territories*