April 2014

Preliminary Summary of 2012 National CDC EHDI Data

Data Source: 2012 CDC EHDI Hearing Screening & Follow-up Survey (HSFS)

Number of Respondents: **54*** (*47 states, 6 territories, and the District of Columbia*)
AL, AK, American Samoa, AR, AZ, CNMI, CO, CT, DC, FL, FSM, GA, Guam, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, Palau, Republic of the Marshall Islands, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY

2012 Documented EHDI Data Items	
Total Occurrent Births (*according to state & territorial EHDI programs*)^	3,380,784
Documented Hearing Screening^	
Percent Screened	**96.7%** (n = 3,269085)
○ Percent Screened (*excluding infant deaths & parental refusals*)	97.2%
○ Percent Screened before 1 Month of Age	95.0% (n = 3,105,606)
Percent Not Passing final / most recent screening	1.8% (n = 58,088)
○ Percent Not Passing Inpatient Screen and Not Receiving an Outpatient Screen	**13.0**% (n = 7,536)
Documented Diagnosis* *(based on 51,601 infants not passing)*	
Percent Diagnosed	**52.9%** (n = 27,293)
○ Percent with No Hearing Loss (*i.e., no diagnosed hearing loss*)	43.8% (n = 22,620)
○ Percent with Hearing Loss	9.1% (n = 4,673)
○ Percent Diagnosed (*normal hearing + hearing loss*) before 3 Months of Age	69.9% (n = 19,080)
Prevalence of Hearing Loss	**1.5 per 1,000 screened** *(Range 0.0 – 4.3 per 1,000)*
No Documented Diagnosis*	
Percent w. No Documented Diagnosis *(of those not passing)*:	**47.1%** (n = 24,308)
○ In Process	2.0% (n = 1,019)
○ Infant Died / Parents Declined	5.2% (n = 2,685)
○ Non-Resident / Moved	2.7% (n = 1,410)
○ Percent Loss to Follow-up (LFU) / Loss to Documentation (LTD) for Diagnosis ▪ *LFU/LTD = # Parents/Family Contacted but Unresponsive (9,579) + # Unable to Contact (3,216) + # Unknown (6,981)*	**38.3%** (n = 19,776) *(Range 2.5 – 83.6%)*
○ Percent LFU/LTD for Diagnosis *excluding* Infants Not Passing an Inpatient Screen and not having a documented Outpatient Screen	23.8% (n = 12,294)
Other Cases of Hearing Loss	
Number of Additional Cases (*e.g., late-onset hearing loss & infants not screened at birth*)	n = 437
Number of Cases of Non-Permanent / Transient Hearing Loss	n = 1,114
Documented Referral to Early Intervention (EI)** *(based on 4,673 infants w. hearing loss)*	
Percent Referred to Part C EI *(of those with hearing loss)*	81.1% (n = 3,790)
○ Percent Eligible for Part C EI *(of those referred)*	81.9% (n = 3,104)
Percent Not Referred to Part C and Unknown *(of those with hearing loss)*	18.9% (n = 883)
Documented Enrollment in EI**	
Percent w. Hearing Loss Receiving EI *(Part C & Non-Part C)* ○ *Receiving EI = # in Part C EI (2,565) + # in Non-Part C EI (91)*	**56.8%** (n = 2,656) *(Range 0.0% - 100%)*
○ Percent Receiving EI before 6 Months of Age *(Part C & Non-Part C)*	**65.3**% (n = 1,734)
No Documented Enrollment in EI**	
Percent Receiving No EI Services *(of those with hearing loss)*	**41.3%** (n = 1,931)
○ Infant Died / Parents Declined *(of those with hearing loss)*	5.7% (n = 267)
○ Non-Resident / Moved *(of those with hearing loss)*	1.7% (n = 79)
○ Not Eligible for Part C EI	3.4% (n = 163)
○ Percent LFU / LTD for Intervention ▪ *LFU/LTD = # Parents/Family Contacted but Unresponsive (203) + # Unable to Contact (121) + # Unknown (1,095)*	**30.4%** (n = 1,419) *(Range 0.0 % - 100%)*

Notes*: Some jurisdictions only reported partial data (e.g., only hearing screening data) Number of Respondents: ^54 States & Territories; * 52 States & Territories; ** 51 States & Territories (*different than States & Territories reporting diagnostic data*)

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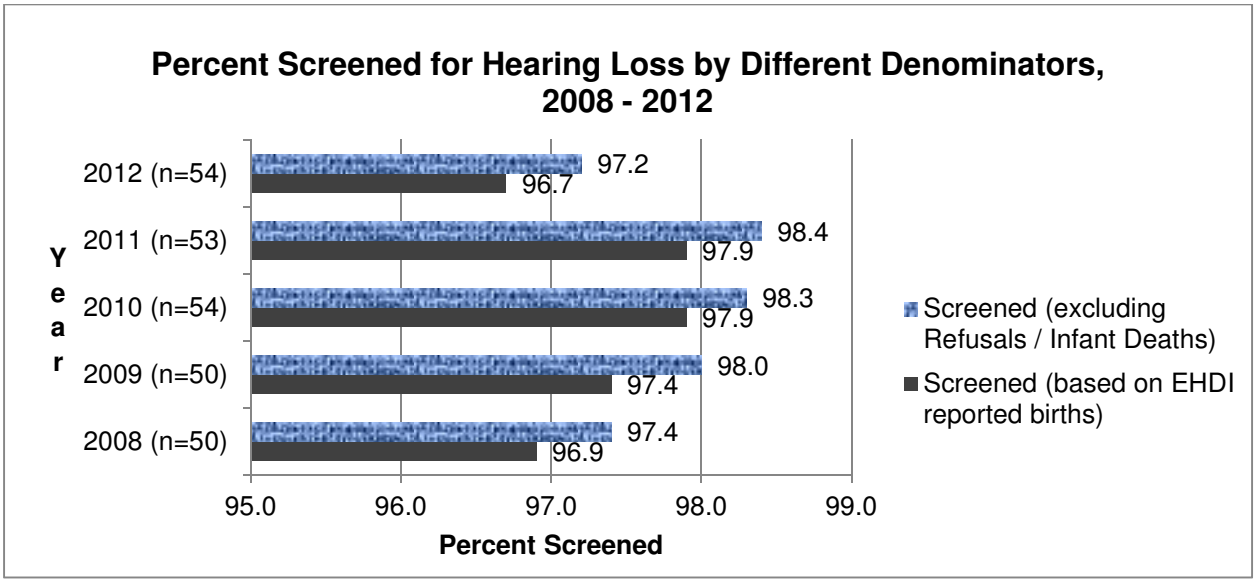

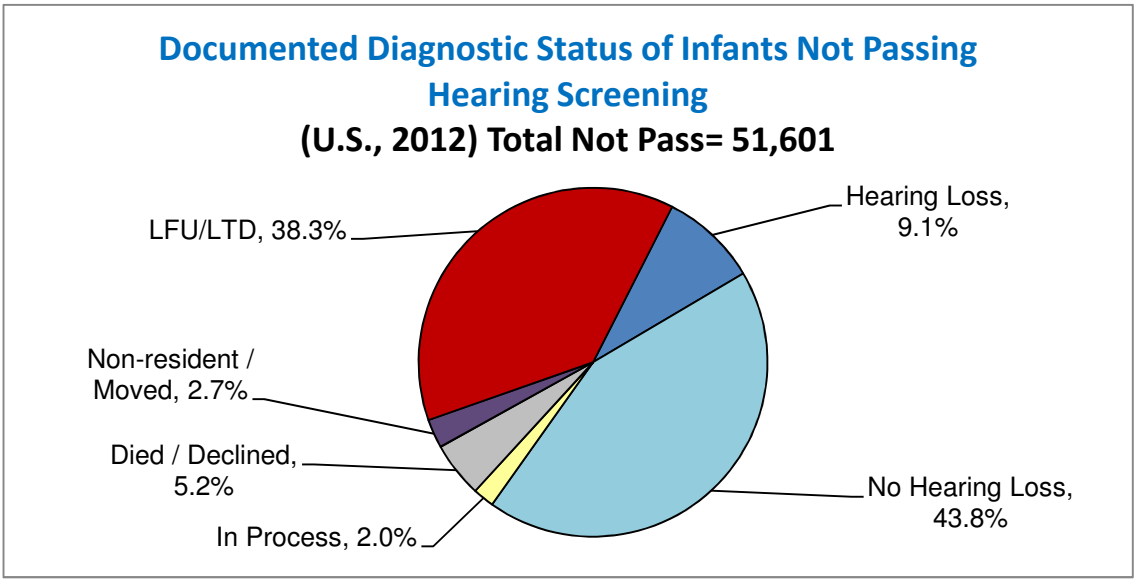

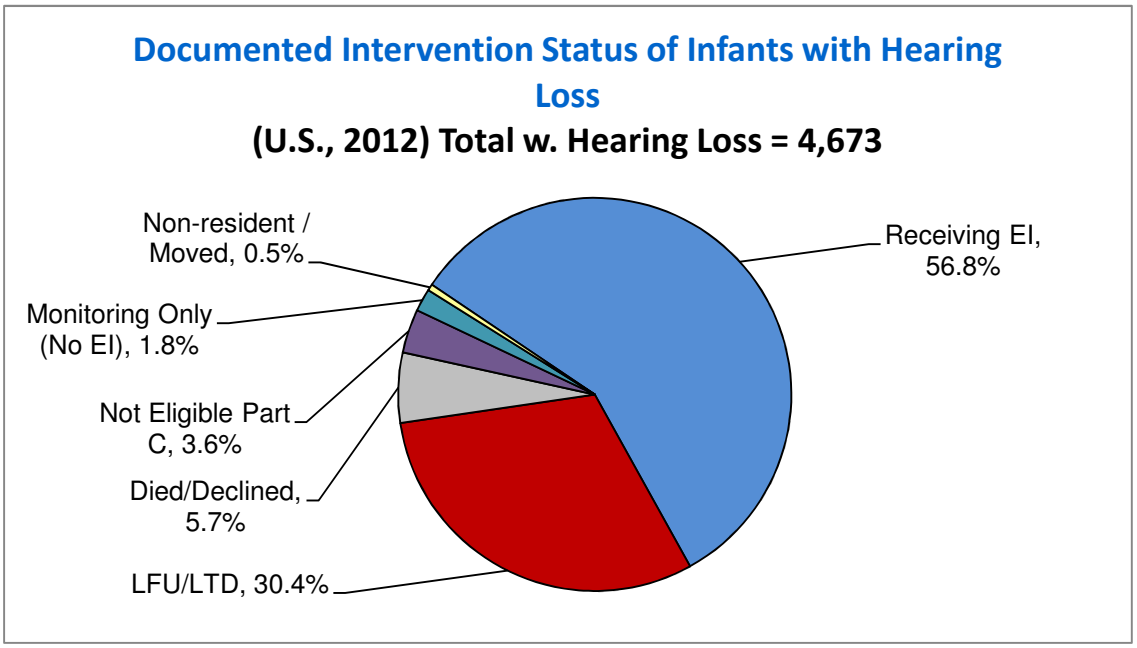

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Data Notes

- HSFS data reflects 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.
- This data is subject to change if additional states and/or territories report data for year 2012.
- **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." Includes instances where infant's families were *Unable to be contacted or Unresponsive*. and *Unknown cases*.

Explanation of 2012 Calculations

Documented Hearing Screening *(based on data from 54 States & Territories)*

Percent Screened
3,269,085 (# screened) / 3,380,784 (occurrent births *reported by EHDI programs*) x 100 = 96.7%

Percent Screened (*excluding infant deaths & parental refusals*)
3,269,085 (# screened) / 3,361,908 (occurrent births *excluding infant deaths & parental refusals*) x 100 = 97.2%

Percent Screened Before 1 Month of Age
3,105,606 (# Pass and # Not Pass before 1 Month of Age) / 3,269,085 (# Pass + # Not Pass*)* x 100 = *95.0*%

Percent Not Passing final / most recent hearing screening
58,088 (# not pass) / 3,269,085 (# screened) x 100 = 1.8%

Percent Not Passing Inpatient (IP) Screen and Not Receiving an Outpatient (OP) Screen
7,536 (# not passing IP screen and not receiving an OP screen) / 58,088 (# not pass) x 100 = 13.0%

Documented Diagnosis *(based on 51,601 infants not passing / data from 52 States & Territories)*

Percent Diagnosed
22,620 (# w. no hearing loss) + 4,673 (# with diagnosed permanent hearing loss) / 51,601 (# not pass) x 100 = 52.9%

Percent with No Hearing Loss (*i.e., no diagnosed hearing loss*)
22,620 (# w. no hearing loss) / 51,601 (# not pass) x 100 = 43.8%

Percent Hearing Loss
4,673 (# with diagnosed permanent hearing loss) / 51,601 *(*# not pass) x 100 = 9.1%

Percent Diagnosed before 3 Months of Age
19,080 (# diagnosed with no hearing loss + # with permanent hearing loss before 3 Months) / 27,293 (# diagnosed with no hearing loss + # with permanent hearing loss) x 100 = 69.9%

Prevalence of Hearing Loss
4,673 (# with diagnosed permanent hearing loss) / 3,066,268 (# screened) x 1,000 = 1.5 per 1,000 screened

No Documented Diagnosis *(based on 51,601 infants not passing / data from 52 States & Territories)*

Percent with No Documented Diagnosis *(of those Not Passing)*
24,308 (# with no documented diagnosis) / 51,601 (# not pass) x 100 = 47.1%

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Percent In Process
1,019 (# in process) / 51,601 (# not pass) x 100 = 2.0%

Percent Infant Died / Parents Declined Services
2,685 (# infant died / parents declined services) / 51,601 (# not pass) x 100 = 5.2%

Percent Non-resident or Moved Out of Jurisdiction
1,410 (# non-resident or moved out of jurisdiction) /51,601 (# not pass) x 100 = 2.7%

Percent LFU / LTD (*i.e., Unable to Contact / Unresponsive / Unknown*)
19,776 (# unable to contact / unresponsive / unknown*)* / 51,601 (# not pass) x 100 = 38.3%

Percent LFU/LTD for Diagnosis *excluding* Infants Not Passing an Inpatient Screen and not having a documented Outpatient Screen

19,776 (# unable to contact / unresponsive / unknown*)* - 7,482 (# not passing IP screen and not receiving an OP screen) = 12,294

12,294 (# unable to contact / unresponsive / unknown - # Infants Not Passing Inpatient Screen and Not Receiving an Outpatient Screen) / 51,601 (# not pass) x 100 = 23.8%

Documented Referral to EI *(based on 4,673 infants w. hearing loss / 51 States & Territories)*

Percent Referred to Part C EI *(of those with hearing loss)*
3,790 (# referred to Part C EI) / 4,673 (# w. permanent hearing loss) x 100 = 81.1%

Percent Eligible for Part C EI *(of those referred)*
3,104 (# eligible for Part C) / 3,790 (# referred to Part C) x 100 =81.9%

Percent Not Referred to Part C and Unknown *(of those with hearing loss)*
883 (# not referred to Part C and unknown) / 4,673 (# w. permanent hearing loss) x 100 = 18.9%

Documented Enrollment in EI *(based on 4,673 infants w. hearing loss / 51 States & Territories)*

Percent w. Hearing Loss Receiving EI *(Part C & Non-Part C)*
2,656 (# w. hearing loss receiving *Part C & non-Part C EI)* / 4,673 (# w. permanent hearing loss) x 100 = 56.8%

Percent Receiving EI before 6 Months of Age *(Part C & Non-Part C)*
1,734 (# receiving Part C EI before 6 months + # receiving Non-Part C EI before 6 Months) /
2,656 (# receiving Part C EI + # receiving Non-Part C EI) x 100 = 65.3%

No Documented Enrollment in EI *(based on 4,673 infants w. hearing loss / 51 States & Territories)*

Percent Receiving No EI Services *(of those with hearing loss)*
1,931 (# not receiving any EI services) / 4,673 (# w. permanent hearing loss) x 100 = 41.3%

Percent Infant Died / Parents Declined *(of those with hearing loss)*
267 (# infant died / parents declined services) / 4,673 (# w. permanent hearing loss) x 100 = 5.7%

Percent Non-Resident / Moved *(of those with hearing loss)*
79 (# non-resident or moved out of jurisdiction) / 4,673 (# w. permanent hearing loss) x 100 = 1.7%

Percent Not Eligible for Part C Intervention
163 (# not eligible for Part C Intervention) / 4,673 (# w. permanent hearing loss) x 100 = 3.5%

Percent LFU / LTD for Intervention
1,419 (# unable to contact / unresponsive / unknown*)* / 4,673 (# w. permanent hearing loss) x 100 = 30.4%