**Summary of 2008 National CDC EHDI Data**

**Version A**

**Data Source:** 2008 CDC EHDI Hearing Screening & Follow-up Survey (HSFS)

**Number of Respondents:** 50 (47 states, 2 territories, and 1 district)

AL, AK, AR, AZ, CNMI, CO, CT, DC, FL, 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, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WV, WY

**Note:** The number of respondents for the below data items varies because some jurisdictions were only able to report partial or incomplete data (e.g., only hearing screening data).

### 2008 Documented EHDI Data Items

<table>
<thead>
<tr>
<th>Total Occurrent Births (according to state &amp; territorial EHDI programs)^</th>
<th>3,492,621</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occurrent Births (according to Vital Records programs)^</td>
<td>3,516,094</td>
</tr>
</tbody>
</table>

### Documented Hearing Screening^*

<table>
<thead>
<tr>
<th>Percent Screened</th>
<th>96.9% (n = 3,384,007) (Range 70% - 99%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Screened (excluding infant deaths &amp; parental refusals)</td>
<td>97.4%</td>
</tr>
<tr>
<td>Percent Screened (based on the # of births reported by Vital Records)</td>
<td>96.2%</td>
</tr>
<tr>
<td>Percent Screened before 1 Month of Age</td>
<td>92.1% (n = 3,116,904)</td>
</tr>
</tbody>
</table>

### Percent Not Passing final / most recent screening | 2.1% (n = 69,490) |

### Documented Diagnosis^^ (based on 62,246 infants not passing)

| Percent Normal Hearing (i.e., no diagnosed hearing loss) | 40.4% (n = 25,155) |
| Percent Hearing Loss | 6.5% (n = 4,054) |
| Percent Diagnosed (normal hearing + hearing loss) before 3 Months of Age | 68.1% (n = 19,880) |
| Prevalence of Hearing Loss | 1.3 per 1,000 screened (Range 0.6 - 3.7 per 1,000) |

### No Documented Diagnosis^^

<table>
<thead>
<tr>
<th>Percent w. No Documented Diagnosis (of those Not Passing):</th>
<th>53.1% (n = 33,037)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Process</td>
<td>4.7% (n = 2,914)</td>
</tr>
<tr>
<td>Infant Died / Parents Declined</td>
<td>2.7% (n = 1,706)</td>
</tr>
<tr>
<td>Non-Resident / Moved</td>
<td>2.4% (n = 1,466)</td>
</tr>
<tr>
<td>Percent Loss to Follow-up (LFU) / Loss to Documentation (LTD) for Diagnosis</td>
<td>43.3% (n = 26,951) (Range 0% - 84%)</td>
</tr>
</tbody>
</table>

### Documented Referral to Early Intervention (EI)*

**Based on 4,026 infants w. hearing loss**

<table>
<thead>
<tr>
<th>Percent Referred to Part C EI (of those with hearing loss)</th>
<th>88.4% (n = 3,557)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Eligible for Part C EI (of those referred)</td>
<td>91.3% (n = 3,248)</td>
</tr>
<tr>
<td>Percent Not Eligible / Eligibility Unknown (of those referred)</td>
<td>8.7% (n = 309)</td>
</tr>
<tr>
<td>Percent Not Referred to Part C and Unknown (of those with hearing loss)</td>
<td>11.6% (n = 469)</td>
</tr>
</tbody>
</table>

### Documented Enrollment in EI

<table>
<thead>
<tr>
<th>Percent w. Hearing Loss Receiving EI (Part C &amp; Non-Part C)</th>
<th>66.0% (n = 2,657) (Range 0% - 100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Receiving EI before 6 Months of Age (Part C &amp; Non-Part C)</td>
<td>52.8% (n = 1,403)</td>
</tr>
<tr>
<td>Percent Enrolled in Part C EI (of those with hearing loss)</td>
<td>61.5% (n = 2,476)</td>
</tr>
<tr>
<td>Percent Receiving Only Non-Part C EI (of those with hearing loss)</td>
<td>4.5% (n = 181)</td>
</tr>
</tbody>
</table>

### No Documented Enrollment in EI

<table>
<thead>
<tr>
<th>Percent Receiving No EI Services (of those with hearing loss)</th>
<th>34.0% (n = 1,369)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant Died / Parents Declined (of those with hearing loss)</td>
<td>4.7% (n = 191)</td>
</tr>
<tr>
<td>Non-Resident / Moved (of those with hearing loss)</td>
<td>1.2% (n = 47)</td>
</tr>
<tr>
<td>Percent LFU / LTD for Intervention</td>
<td>28.1% (n = 1,131) (Range 0 - 100%)</td>
</tr>
</tbody>
</table>

*Based on data from: ^50 States & Territories; ^^48 States & Territories; *47 States & Territories*
Summary of 2008 National CDC EHDI Data
Version A

Percent Screened for Hearing Loss by Different Denominators, 2005 - 2008

Year | Screened (excluding Refusals / Infant Deaths) | Screened (based on EHDI reported Births) | Screened (based on Vital Records Births) |
--- | --- | --- | --- |
2008 (n = 50) | 97.4 | 96.9 | 96.2 |
2007 (n = 47) | 97.4 | 95.9 | 95.0 |
2006 (n = 49) | 95.6 | 95.2 | 93.9 |
2005 (n = 48) | 94.5 | 94.2 | 93.1 |

Percent Screened

Documented Status of Infants Not Passing Hearing Screening (U.S., 2008) Total Not Pass = 62,246

- Hearing Loss, 6.5%
- Normal Hearing, 40.4%
- LFU/LTD, 43.3%
- Moved, 2.4%
- Died / Refused, 2.7%
- In Process, 4.7%

Documented Intervention Status of Infants with Hearing Loss (U.S., 2008) Total w. Hearing Loss = 4,026

- Part C EI, 61.5%
- Only Non-Part C EI, 4.5%
- LFU/LTD, 28.1%
- Moved / Nonresident, 1.2%
- Died/Refused, 4.7%
**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 2007.
- **In Process**: Respondents were advised that infants reported as being “In Process” must have been seen for audiologic diagnostic testing at least one time to be reported in this category.
- **LFU (Loss to Follow-up) / LTD (Loss to Documentation)**: Sub group of “No Documented Diagnosis” and “Total No Services.” Includes infants where families were Unable to be contacted or Unresponsive and Unknown cases.

**Explanation of 2008 Calculations**

**Documented Hearing Screening** *(Based on data from 50 States & Territories)*

**Percent Screened**

\[
\frac{3,384,007 \text{ (# screened)}}{3,492,621 \text{ (occurrent births reported by EHDI programs)}} \times 100 = 96.9\%
\]

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

\[
\frac{3,384,007 \text{ (# screened)}}{3,475,863 \text{ (occurrent births excluding infant deaths & parental refusals)}} \times 100 = 97.4\%
\]

**Percent Screened (based on the # of births reported by Vital Records)**

\[
\frac{3,384,007 \text{ (# screened)}}{3,516,094 \text{ (occurrent births as reported by Vital Records)}} \times 100 = 96.2\%
\]

**Percent Screened Before 1 Month of Age**

\[
\frac{3,116,904 \text{ (# Pass and # Not Pass before 1 Month of Age)}}{3,384,007 \text{ (# Pass + # Not Pass)}} \times 100 = 92.1\%
\]

**Percent Not Passing final / most recent hearing screening**

\[
\frac{69,490 \text{ (# not pass)}}{3,384,007 \text{ (# screened)}} \times 100 = 2.1\%
\]

**Documented Diagnosis** *(based on 62,246 infants not passing / data from 48 States & Territories)*

**Percent Normal Hearing (i.e., no diagnosed hearing loss)**

\[
\frac{25,155 \text{ (# w. normal hearing)}}{62,246 \text{ (# not pass)}} \times 100 = 40.4\%
\]

**Percent Hearing Loss**

\[
\frac{4,054 \text{ (# with diagnosed permanent hearing loss)}}{62,246 \text{ (# not pass)}} \times 100 = 6.5\%
\]

**Percent Diagnosed before 3 Months of Age**

\[
\frac{19,880 \text{ (# diagnosed with normal hearing + # with permanent hearing loss before 3 Months)}}{29,209 \text{ (# diagnosed with normal hearing + # with permanent hearing loss)}} \times 100 = 68.1\%
\]

**Incidence of Hearing Loss**

\[
\frac{4,054 \text{ (# with diagnosed permanent hearing loss)}}{3,081,786 \text{ (# screened)}} \times 1,000 = 1.3 \text{ per 1,000 screened}
\]

**No Documented Diagnosis** *(based on 62,246 infants not passing / data from 48 States & Territories)*

**Percent with No Documented Diagnosis (of those Not Passing)**

\[
\frac{33,037 \text{ (# with no documented diagnosis)}}{62,246 \text{ (# not pass)}} \times 100 = 53.1\%
\]
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Percent In Process
2,914 (# in process) / 62,246 (# not pass) x 100 = 4.7%

Percent Infant Died / Parents Declined Services
1,706 (# infant died / parents declined services) / 62,246 (# not pass) x 100 = 2.7%

Percent Non-resident or Moved Out of Jurisdiction
1,466 (# non-resident or moved out of jurisdiction) / 62,246 (# not pass) x 100 = 2.4%

Percent LFU / LTD (i.e., Unable to Contact / Unresponsive / Unknown)
26,951 (# unable to contact / unresponsive / unknown) / 62,246 (# not pass) x 100 = 43.3%

Documented Referral to EI (based on 4,026 infants w. hearing loss / 47 States & Territories)

Percent Referred to Part C EI (of those with hearing loss)
3,557 (# referred to Part C EI) / 4,026 (# w. permanent hearing loss) x 100 = 88.4%

Percent Eligible for Part C EI (of those referred)
3,248 (# eligible for Part C) / 3,557 (# referred to Part C) x 100 = 91.3%

Percent Not Eligible / Eligibility Unknown (of those referred)
309 (# not eligible for Part C and with unknown eligibility) / 3,557 (# referred to Part C) x 100 = 8.7%

Percent Not Referred to Part C and Unknown (of those with hearing loss)
469 (# not referred to Part C and unknown) / 4,026 (# w. permanent hearing loss) x 100 = 11.6%

Documented Enrollment in EI (based on 4,026 infants w. hearing loss / 47 States & Territories)

Percent w. Hearing Loss Receiving EI (Part C & Non-Part C)
2,657 (#w. hearing loss receiving Part C & non-Part C EI) / 4,026 (# w. permanent hearing loss) x 100 = 66.0%

Percent Receiving EI before 6 Months of Age (Part C & Non-Part C)
1,403 (# receiving Part C EI before 6 months + # receiving Non-Part C EI before 6 Months) / 2,657 (# receiving Part C EI + # receiving Non-Part C EI) x 100 = 52.8%

Percent Enrolled in Part C EI (of those with hearing loss)
2,476 (# enrolled in Part C EI) / 4,026 (# w. permanent hearing loss) x 100 = 61.5%

Percent Receiving Only Non-Part C EI (of those with hearing loss)
181 (# receiving only non-Part C EI) / 4,026 (# w. permanent hearing loss) x 100 = 4.5%

No Documented Enrollment in EI (based on 4,026 infants w. hearing loss / 47 States & Territories)

Percent Receiving No EI Services (of those with hearing loss)
1,369 (# not receiving any EI services) / 4,026 (# w. permanent hearing loss) x 100 = 34.0%

Percent Infant Died / Parents Declined (of those with hearing loss)
191 (# infant died / parents declined services) / 4,026 (# w. permanent hearing loss) x 100 = 4.7%

Percent Non-Resident / Moved (of those with hearing loss)
47 (# non-resident or moved out of jurisdiction) / 4,026 (# w. permanent hearing loss) x 100 = 1.2%

Percent LFU / LTD for Intervention
1,131 (# unable to contact / unresponsive / unknown) / 4,026 (# w. permanent hearing loss) x 100 = 28.1%