

# CDC-EHDI Hearing Screening and Follow-up Survey: Explanations (Parts 1, 2, and 3)



This document provides an explanation for most of the data fields in the voluntary response 2005 CDC-EHDI Hearing Screening and Follow-up Survey. All data being requested refer to infants and children born in calendar year **2005** (i.e., January 1, 2005 – December 31, 2005).

If you have any questions, please contact Marcus Gaffney at (404) 498-3030 or [MGaffney@cdc.gov](mailto:MGaffney@cdc.gov)

## **Please Note**

- Do **not** use the “Enter” key (*it will take you back to the beginning of the survey*).
- All information reported for each part of this survey should be based on **live, occurrent births only**.
- Parts 1 and 2 are grouped together and are accessed using the same link. Part 3 is accessed using a separate link and can only be completed after Parts 1 and 2 have been submitted.
- “0” will sometimes appear in blank fields in the survey. You can delete this “0” before entering data or simply enter the data after the “0” without any spaces (e.g., 0100).
- If you would like a copy of the data you entered please either 1) print a copy of each section before submitting the survey or 2) contact Marcus Gaffney if you have already submitted the survey.

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## Part 1: 2005 Hearing Screening Data (Occurrent Births)

### Total Occurrent Births

- The number entered here should represent the total number of live, occurrent births (within the reporting state or territory) born in calendar year 2005.
- This should include any infants born in the reporting state or territory, even if they are legal residents of another state or territory.

### Total Occurrent Births Reported by Vital Records

- The number of live, occurrent births according to the state or territorial Vital Records program.
- This should be the same or very similar to the value reported for "Total Occurrent Births."
- Intended as a quality assurance indicator
- This number does not affect any of the automatically calculated values in the survey

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### Hearing Screening

- Please report only the results of the final hearing screen on record, which is defined as the last or most recent hearing screening an infant received.
  - For example, if an infant was screened before hospital discharge and then again at two weeks, please report only the results for the screen done at two weeks.
- Includes infants that were screened and not screened for hearing loss.
- Infants that can not be tested in both ears due to obvious conductive malformations should be reported in the appropriate "Not Pass" category instead of the "Missed" category.

### Total Screened

- This value will be automatically calculated based on the fields:
  - Total Pass + Total Not Pass

### Total Not Screened

- This value will be automatically calculated based on the fields:
  - Infants Died/Parents Declined Services + Missed

#### Infant Died / Parents Declined Services

- Infants that were not screened due to death or parental refusal of the screening.

#### Unknown / Missed

- Includes cases where either 1) an infant did not receive a hearing screening (i.e., missed) or 2) where it cannot be confirmed if an infant was screened for hearing loss (i.e., unknown)
  - Includes cases where results of hearing screenings are **not** reported to the state or territory.
  - Infants not screened due to either death or parental refusal should **not** be reported in this category.
- Infants that were only successfully screened in one ear, with no documentation of both ears being screened (at the same time) during a future visit should be included in this category.

- Infants that can not be tested in both ears due to obvious conductive malformations should be reported in the appropriate "Not Pass" category instead of the "Unknown/Missed" category.

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### Sample Scenarios (*Unknown/Missed*)

- Scenario 1: Infant does not have any hearing screening administered before being discharged from the hospital *and* does not have follow-up screens performed
  - Report data – "Unknown/Missed"
- Scenario 2: Infant is born in a hospital but no information about if a hearing screening was done before discharge is reported to the state or territory *and* no information about any screenings being administered after discharge is reported.
  - Report data – "Unknown/Missed"

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### Passed (*final screen*)

- A final screen is defined as the last or most recent hearing screening an infant received.
- Both ears must be screened in order to be reported in a "Passed" category.
- This should include all infants that passed a hearing screening, regardless of the age it was completed.

#### Total Pass

- This value will be automatically calculated based on the fields:
  - Pass Before 1 Month of Age + Pass After 1 Month of Age but Before Three Months of Age + Pass After 3 Months of Age + Pass: Age Unknown

#### Pass Before 1 Month of Age

- The total number of infants screened for hearing loss before one month of age that passed (the most recent screen).
- A month is equal to 30 days.
- Pass before one month of age = 0 - 30 days

#### Pass After 1 Month of Age but Before Three Months of Age

- The total number of infants screened for hearing loss after 1 month of age but before three months of age that passed (the most recent screen).
- Pass after one month, but before three months = 31 - 90 days

#### Pass After 3 Months of Age

- The total number of infants screened for hearing loss after 3 months of age that passed the most recent screen).
- Pass after three months = 91+ days

#### Pass: Age Unknown

- All infants that passed a hearing screening but where the age at the time of the (most recent) completed screen is unknown.

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### Not Passed (*final screen*)

- A final screen is defined as the last or most recent hearing screening an infant or child received.
- The total number of infants screened for hearing loss that did **not pass** the screening.
- This should include all infants that did **not** pass a hearing screening, regardless of the age it was completed.

- Infants that can not be tested in both ears due to obvious conductive malformations should be reported in the appropriate "Not Pass" category instead of the "Missed" category.
- This includes *(for those states and territories with an inpatient/outpatient protocol)* infants who did not pass their inpatient screen and then did not complete their outpatient screen (e.g., if the first screen was completed before one month please report this result in the "Not Pass Before 1 Month of Age" field).

### **Total Not Pass**

- This value will be automatically calculated based on the fields:
  - Not Pass Before 1 Month of Age + Not Pass After 1 Month of Age but Before Three Months of Age + Not Pass After 3 Months of Age + Not Pass: Age Unknown

#### Not Pass Before 1 Month of Age

- The total number of infants screened for hearing loss before one month of age that did not pass (the most recent screen).
- A month is equal to 30 days.
- Not pass before one month of age = 0 - 30 days

#### Not Pass After 1 Month of Age but Before Three Months of Age

- The total number of infants screened for hearing loss after 1 month of age but before three months of age that did not pass (the most recent screen).
- Not pass after one month, but before three months = 31 - 90 days

#### Not Pass After 3 Months of Age

- The total number of infants screened for hearing loss after 3 months of age that did not pass (the most recent screen).
- Not pass after three months = 91+ days

#### Not Pass: Age Unknown

- All infants that did not pass a hearing screening but where the age at the time of the completed screening is unknown

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### **Sample Scenarios** (*Pass/Not Pass*)

- Scenario 3: Infant does not pass any hearing screening administered before being discharged from the hospital *and* passes follow-up screen performed at 21 days post birth
  - Report data – "Pass Before 1 Month of Age"
- Scenario 4: Infant does not pass any hearing screening administered before being discharged from the hospital and passes follow-up screen performed at 45 days post birth
  - Report data – "Pass After 1 month but Before 3 Months of Age"
- Scenario 5: Infant does not pass any hearing screening administered before being discharged from the hospital, does not pass follow-up screen performed at 21 days post birth, and referred for audiology
  - Report data – "Not Pass Before 1 Month of Age"
- Scenario 6: Infant does not pass any hearing screening administered before being discharged from the hospital and no follow-up screening documented
  - Report data – "Not Pass Before 1 Month of Age"

- Scenario 7: Infant does not pass any hearing screening administered before being discharged from the hospital, does not pass follow-up screen performed at 45 days post birth, and referred for audiology
  - Report data – “Not Pass After 1 month but Before 3 Months of Age”

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**Total Occurent Births** (*automatically calculated*)

- This value is automatically calculated based on the sum of the values for “Total Pass,” “Total Not Pass,” “Infants Died/Parents Declined Services,” and “Missed.”
- The value calculated for “*Total Occurent Births* (automatically calculated)” should match the value that was entered for “*Total Occurent Births*” at the top of this section.
- If there is any difference between these values you will receive an error message and will not be able to continue with the survey until you correct the error
  - Error(s) can be corrected by going back to the Screening section, reviewing the data, and entering the correct value(s) in the appropriate field(s).

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## Part 1: 2005 Diagnostic Data (Occurrent Births)

- If there are records of more than one diagnostic evaluation available, information from only the **initial comprehensive** audiologic evaluation should be used to report data in the Diagnostic section.
  - “Comprehensive” is used because it is the term listed in the National EHCI Goals. It will be up to the individual EHCI program to determine what constitutes the initial diagnosis.

### Total Not Pass Screening

- This value is automatically entered into the Diagnostic section.
- It is the same as the “Total Not Pass” value that was calculated in the Hearing Screening section.

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### Normal Hearing

- Includes infants that did not pass a hearing screening but were found to have normal hearing following audiological diagnostic evaluation.
- Purely conductive transient losses should be reported under the appropriate “Normal Hearing” category.

### Total Normal Hearing

- This value will be automatically calculated based on the fields:
  - Normal Hearing Before 3 Months of Age + Normal Hearing After 3 Months but Before 6 Months of Age + Normal Hearing After 6 Months of Age + Normal Hearing: Age Unknown

#### Normal Hearing Before 3 Months of Age

- Infants that did not pass a hearing screening but were found to have normal hearing (following audiological diagnostic evaluation) before 3 months of age.
- A month is equal to 30 days.
- Normal hearing before 3 months of Age = up to 90 days

#### Normal Hearing After 3 Months but Before 6 Months of Age

- Infants that did not pass a hearing screening but were found to have normal hearing (following audiological diagnostic evaluation) after 3 months but before 6 months of age.
- Normal hearing after 3 months but before 6 months of age = 91 - 180 days

#### Normal Hearing After 6 Months of Age

- Infants that did not pass a hearing screening but were found to have normal hearing (following audiological diagnostic evaluation) after 6 months of age.
- Normal hearing after 6 months of age = 181 + days

#### Normal Hearing: Age Unknown

- Infants that did not pass a hearing screening but were found to have normal hearing (following audiological diagnostic evaluation) at an unknown age.

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### Cases of Permanent Identified (ID) Hearing Loss

- Infants that did not pass a hearing screening who were diagnosed with a permanent hearing loss following audiological diagnostic evaluation.
- Refers to the number of infants born in calendar year 2005 who were identified with a permanent hearing loss (i.e. the number of children born in a state or territory in 2005 that were identified with hearing loss).
- Permanent hearing loss includes unilateral and bilateral hearing loss and both sensorineural and non-transient conductive hearing loss (e.g., resulting from craniofacial anomalies, ossicular fixation, etc.).

- Hearing loss should be confirmed through appropriate audiometric test(s).

### **Total Hearing Loss**

- This value will be automatically calculated based on the fields:
  - [Hearing Loss ID\\* Before 3 Months of Age + Hearing Loss ID After 3 Months but Before 6 Months of Age + Hearing Loss ID After 6 Months of Age + Hearing Loss ID: Age Unknown](#)

#### Hearing Loss ID Before 3 Months of Age

- Infants that did not pass a hearing screening who were identified with a hearing loss (following audiological diagnostic evaluation) before 3 months of age.
- Hearing loss identified before 3 months of age = up to 90 days

#### Hearing Loss ID After 3 Months but Before 6 Months of Age

- Infants that did not pass a hearing screening who were identified with a hearing loss (following audiological diagnostic evaluation) after 3 months but before 6 months of age.
- Hearing loss identified after 3 months but before 6 months of age = 91 - 180 days

#### Hearing Loss ID After 6 Months of Age

- Infants that did not pass a hearing screening who were identified with a hearing loss (following audiological diagnostic evaluation) after 6 months of age.
- Hearing loss identified after 6 months of age = 181 + days

#### Hearing Loss ID: Age Unknown

- Infants that did not pass a hearing screening who were identified with a hearing loss (following audiological diagnostic evaluation) at an unknown age.

### **Sample Scenarios (*Identified*)**

- Scenario 8: Infant first seen by audiologist at 45 days, diagnostic ABR administered at 60 days (*2 months*) indicates permanent hearing loss
  - Report data – “Hearing Loss ID: Before 3 Months of Age”
- Scenario 9: Infant first seen by audiologist at 45 days, diagnostic ABR administered at 150 days (*5 months*) indicates permanent hearing loss
  - Report data – “Hearing Loss ID After 3 Months but Before 6 Months of Age”
- Scenario 10: Infant first seen by audiologist at 45 days, audiological assessment at 240 days (*8 months*) indicates permanent hearing loss.
  - Report data – “Hearing Loss ID After 6 Months of Age”

### **No Diagnosis / Undetermined**

- Refers to the total number of infants and children (not passing a hearing screening) that do not have a diagnosis (i.e., Normal Hearing or Hearing Loss) or whose status is undetermined (i.e., diagnosis is still in process).

### **Total with No Diagnosis**

- This value will be automatically calculated based on the fields:















