Birth Data Training
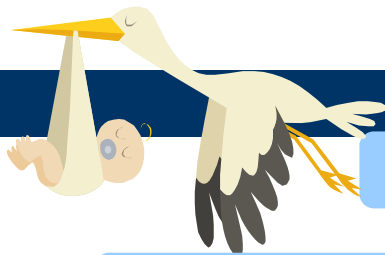
December 2012

The Bureau of Vital Statistics
and
The Bureau of Community Health Assessment

FLORIDA DEPARTMENT OF HEALTH

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The Birth Data Journey

A Birth Occurs in Florida

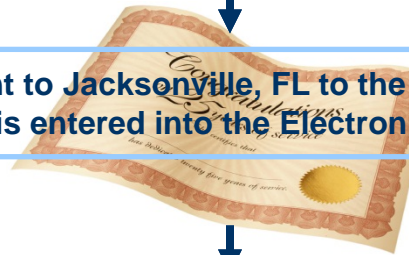Was the birth in a facility using the electronic birth record system?

Yes

No

Registered/Complete records
move to Birthmaster

Certificate is sent to the local County Health Department's Vital Statistics Registrar

Certificate is sent to Jacksonville, FL to the Bureau of Vital Statistics where the data is entered into the Electronic Vital Records System.

Complete or revised records
move to Birthmaster

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The Birth Data Journey

- Birth records can be altered or amended only through the Bureau of Vital Statistics.

- Out-of-state birth certificates are sent to Jacksonville from other states and added to the electronic birth record system as they are received.

Birth Certificate Revisions

- The most recent version of the Florida Birth Certificate was implemented in January 2011.

- The last major revision was implemented in March 2004.

Electronic Birth Record

- Implementation of the Florida electronic birth record system was completed in 2010.

- Complete or revised records are available for analysis one day after they are entered or revised.

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Birth Query System

- Provides standard reports with birth counts or birth rates

- User may create custom reports using a "drag-and-drop" feature

- Provides options for downloading, filtering, and sorting data

- Accessed through www.FloridaCHARTS.com

- Updated weekly

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Confidentiality

- Florida Statute Section 382.013(5) states that all information concerning parentage, marital status, and medical details shall be confidential, which includes ALL items on the birth certificate.

- Social Security Numbers are also confidential under federal law.

- Persons accessing Florida's death data must sign an approved Data Use Agreement and agree not to share the data with anyone and to only use the data for the purpose specified in the agreement.

- Persons who sign the Agreement should only release aggregate data.

- Any breaches of confidentiality can be treated as a 3rd degree felony.

Birth Codebooks

The birth codebooks provide details about each field in the BirthMaster, BirthStat, and CHD Repository files:

- **Field name**
- **Data type** (int, smallint, datetime, char, or varchar) **and length**
- **Item number** on the birth certificate
- The range of **years** data for the field was **collected**
- The **availability** of the field in the master, stat, or repository files
- A brief **definition** of what the field represents
- A **description** of what appears in the fields (names, numeric codes, dates, etc.)

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Resident vs. Recorded Births

- To query births that occurred to residents of Florida *(resident births)*:

  MOTHER_RES_STATE_CODE = '10'

  State of residence

- To query births that occurred in Florida to both in-state and out-of-state residents *(recorded births)*:

  BSTATE='FL'

  State of birth

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Race Fields

- Starting in 2004, the Florida Birth Certificate allowed for selection of multiple races.

15 Separate Race Fields: White, Black, American Indian/Alaskan Native, Chinese, Japanese, Hawaiian, Filipino, Korean, Other Races, Vietnamese, Asian Indian, Asian Other, Guamanian/Chamorro, Samoan, Pacific Islander

Calculated Fields

- There are some calculated fields in Florida's birth data:
  - MOTHER_CALCULATEDRACE
  - FATHER_CALCULATEDRACE
  - MOTHER_CALCULATEDHISP
  - FATHER_CALCULATEDHISP
  - BIRTH_INTERVAL
  - CALC_MONTHOFPRENATALBEGAN
  - PREPREGNANCY_BMI
  - HSINFANTSCORE
  - CALCULATEDGESTATIONALAGE
  - WEIGHTGAIN
  - KOTELCHUCK INDEX
  - CIG_1TRI
  - CIG_2TRI
  - CIG_3TRI
  - CIGS_PRIOR

Calculated Fields

CALCULATEDRACE: combine the 15 separate race fields into one coded field. Codes for Multi-Race and Unknown are also included:

01 = White

02 = Black

03 = American Indian/Alaskan Native

04 = Chinese

05 = Japanese

06 = Hawaiian

07 = Filipino

08 = Korean

09 = Other Races

10 = Vietnamese

11 = Asian Indian

12 = Asian Other

13 = Guam

14 = Samoan

15 = Pacific Islander

20 = More than One Race

99 = Unknown

KOTELCHUCK_INDEX

- Assesses the adequacy of prenatal care.
- See codebook for further details.

Calculated Fields

- CALCULATEDHISP: combine the 8 separate ethnicity fields into one coded field
  - 00=Not Hispanic and Not Haitian
  - 01=Mexican
  - 02=Puerto Rican
  - 03=Cuban
  - 05=Other or Unknown Hispanic
  - 06=Haitian
  - 09=Not classifiable

- Beginning with 2011 data, ethnicities previously classified as code '04-Central/South American' were aggregated into '05-Other or Unknown Hispanic'.

County Fields

- Most County Code fields use numeric codes 11 to 77 to represent Florida's 67 counties:
  - MOTHER_RES_COUNTY_CODE
  - BCOUNTY_CODE
  - DEATH_COUNTY_CODE

- One County Code field, MOTHER_CHDRESCOUNTY, uses numeric codes 01-67

Old Fields in the Birth data

- Records prior to the 36,000th birth record of 2004 should have information populated in the *old* fields and **NOT** the new fields.

- Conversely, record 36,000+ of 2004 should have information populated in the *new* fields and **NOT** the old fields.

- It was necessary to have both "old" and "new" fields so that historical data could be stored in the same data table as new data (e.g. fetal alcohol syndrome and when prenatal care began).

Old Fields No Longer in Use

- MOTHER_OLD_EDCODE is now MOTHER_EDCODE
- FATHER_OLD_EDCODE is now FATHER_EDCODE
- OLD_MONTHPRENATBEGIN is now CALC_MONTHOFPRENATALBEGIN
- OLD_MOTHERRACE is now MOTHER_CALCULATEDRACE
- OLD_MOTHERHISP is now MOTHER_CALCULATEDHISP
- OLD_ETHNICMOTHER
- OLD_FATHERRACE is now FATHER_CALCULATEDRACE
- OLD_FATHERHISP is now FATHER_CALCULATEDHISP
- OLD_ETHNICFATHER
- METHOD_OF_DELIVERY_LIT

Linking Births to Infant Death Records

- Create Birth Extract File
  - Select all Births from a particular calendar year (e.g. Event_Year = 2008).
- Create Infant Death Extract File
  - Select all Infant Deaths (age_code = 2, 4, 5, or 6) associated with a birth occurring in Florida (Birth_State_Code = 10) from the same calendar year [e.g. Link_Bir_DOB_Year in (2008, 2009); some infants born in one calendar year may die during the following calendar year].
- Match the Death_SFN field on the Birth record to the State_File_Number (or the Event_Year concatenated with Certnumber) on the Death record; *OR* match the Birth_SFN field on the Death record to the State_File_Number (or the Event_Year concatenated with Certnumber) on the Birth record.

Websites

- **FloridaCHARTS**

- **FloridaCHARTS Birth Query System**

- **FloridaCHARTS Infant Death Query System**

- **Florida Vital Statistics Annual Report Online**

- **Vital Statistics Code Manuals Online**