HCHS/SOL Visit 2 Pregnancy Complications (PCE_DERV)
Derived Variable Dictionary

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VARIABLE MODIFICATIONS

8
### Summary of updates to PCE and PCE_DERV data and documentation

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description of Updates</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>_INV1</td>
<td>12/19/2016</td>
<td>1st Data Release (interim data; n=9,329)</td>
<td>V1.0 (Dec 2016)</td>
</tr>
<tr>
<td>_INV2</td>
<td>3/23/2018</td>
<td>2nd Data Release (Final V2 data; n=11,623)</td>
<td>V2.0 (March 2018)</td>
</tr>
<tr>
<td>_INV3</td>
<td>3/4/2019</td>
<td>3rd Data Release (Updated final V2 data; n=11,623)</td>
<td>V3.0 (March 2019)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>PCE_V2</strong></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Removed 15 records due to the following:</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>- PCE form is completely missing.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Pregnancy length (PCE2 and PCE2a1) &lt; 24 weeks</td>
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<tr>
<td></td>
<td></td>
<td>and inconsistent with RME13b (number of pregnancies</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>after visit 1 that lasted 6 months or longer).</td>
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</tr>
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<td></td>
<td></td>
<td><strong>PCE_DERV_V2</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Included units (wks or mo) for pregnancy length</td>
<td></td>
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<td></td>
<td></td>
<td>(PCE2A1) when missing and PCE2A was not missing.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>- Changed conversion of pregnancy length from months to</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>weeks (i.e., calculation of PCE2A_WEEKS from PCE2A and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PCE2A1).</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Updated all variables that use PCE2A_WEEKS:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIRTHWT_GA_PCT, BIRTHWT_GA_Z, LGA, SGA, PRETERM</td>
<td></td>
</tr>
<tr>
<td>_INV3</td>
<td>4/1/2019</td>
<td>NONE</td>
<td>V3.1 (April 2019)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ALERT: PRETERM is incorrect (it should NOT include 37wks).</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>DO NOT USE.</strong></td>
<td></td>
</tr>
</tbody>
</table>
1. Derived Variables

1.1 PCE2A_WEEKS (Pregnancy length (weeks))
This numeric variable is the pregnancy length in weeks. If PCE2A1=2 (i.e., pregnancy length reported in weeks), then PCE2A_WEEKS=PCE2A. Otherwise, if PCE2A1=3 (i.e., pregnancy length reported in months), then pregnancy length is converted from months (PCE2A) to weeks (PCE2A_WEEKS) using the following conversion:

<table>
<thead>
<tr>
<th>Months</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>42</td>
</tr>
<tr>
<td>9</td>
<td>40</td>
</tr>
<tr>
<td>8</td>
<td>36</td>
</tr>
<tr>
<td>7</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>28</td>
</tr>
</tbody>
</table>

Source variable(s):
PCE2A. Pregnancy length
PCE2A1. Pregnancy length units

1.2 BABY1YN (First live birth after V1)
This is a 0/1 indicator variable to identify the first live birth after V1 for each woman. If a women has multiple pregnancies and two of these ended with live births (PCE3=1), only the 1st live birth (PCE1A=1) will have a value of 1, and all other pregnancies for this women will have a value of 0.

Response format: 1, Yes
0, No

Source variable(s):
PCE1A. Pregnancy number (ordered by birthdate)
PCE3. Pregnancy result

1.3 BIRTHWT_GA_PCT (Birth weight for gestational age percentile)
This is a numeric variable. Percentiles for birth weight by gestational age and by sex were calculated based on international population standards estimated by Villar et al (2014; 2016). Therefore, the value of this variable should correspond to the percentage of a healthy, low risk population (with the same gestational age and sex) with less than or equal birth weight. This variable was created using the INTERGROWTH-21st web application to calculate birth weight for gestational age percentiles and Z-scores, based on the work by Villar et al (2014; 2016).
Source variable(s):
PCE2A_WEEKS. Pregnancy length (weeks)
PCE3. Pregnancy result
PCE7B. Baby 1 gender
PCE7C_G. Baby 1 weight (g)

Reference(s):


INTERGROWTH-21st web application to calculate birth weight for GA percentiles and Z-scores: https://intergrowth21.tghn.org/intergrowth-21st-applications/

1.4 BIRTHWT_GA_Z (Birth weight for gestational age Z-score)
This is a numeric variable. Z-scores for birth weight by gestational age and by sex were calculated based on international population standards estimated by Villar et al (2014; 2016). See derived variable BIRTHWT_GA_PCT for further details.

1.5 DAYSVIS1BIRTH (Time between Visit 1 and baby’s birth (days))
This numeric variable is the amount of time in days between the Visit 1 clinic date and the baby’s birth.

If PCE3 = 1 then DAYSVIS1BIRTH = PCE1B – CLINDATE
Else if PCE3 ≠ 1 then DAYSVIS1BIRTH = .N

Source variable(s):
CLINDATE. Visit 1 clinic date
PCE1B. Date of birth
PCE3. Pregnancy result
1.6 YRSV1BIRTH (Time between Visit 1 and baby’s birth (years))

This numeric variable is the amount of time in years between the Visit 1 clinic date and the baby’s birth.

If PCE3 = 1 then YRSV1BIRTH = (PCE1B – CLINDATE)/365.25
Else if PCE3 ≠ 1 then YRSV1BIRTH = .N

Source variable(s):
CLINDATE. Visit 1 clinic date
PCE1B. Date of birth
PCE3. Pregnancy result

1.7 BIRTHWT_C3 (Birth weight baby 1 (< 2.5kg, 2.5-4.0kg, >4.0kg))

This is a categorical variable for the birth weight and it is based on the reported birth weight (PCE7C_G) if available, and is based on the approximate birth weight (PCE7D) if the exact birth weight is not recorded.

Response format: 
1, < 2500 g
2, 2500 – 4000 g
3, > 4000 g

Source variable(s):
PCE7C_G. Baby 1 Weight (g, calculated)
PCE7D. Baby 1 approx weight

1.8 LGA (Large for gestational age for baby 1)

This is a 0/1 indicator variable to identify babies that are large for gestational age (i.e., > 90th percentile).

Response format: 
1, Yes
0, No

Source variable(s):
BIRTHWT_GA_PCT. Birth weight for gestational age percentile

1.9 SGA (Small for gestational age for baby 1)

This is a 0/1 indicator variable to identify babies that are small for gestational age (i.e., < 10th percentile).

Response format: 
1, Yes
0, No

Source variable(s):
BIRTHWT_GA_PCT. Birth weight for gestational age percentile
1.10  PRETERM (Pregnancy lasted ≤ 37 weeks)

ALERT: This variable is incorrect. It should NOT include newborns born at 37 37wks. DO NOT USE. This variable must be calculated by investigators.

This is a 0/1 indicator variable to identify preterm pregnancies (i.e., pregnancies that lasted ≤ 37 weeks).

Response format:   1, Yes
                   0, No

Source variable(s):
PCE2A_WEEKS. Pregnancy Length (weeks)
### Variable Modifications

<table>
<thead>
<tr>
<th>Date</th>
<th>Variable</th>
<th># data records changed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2019</td>
<td>All variables</td>
<td>7</td>
<td><strong>PCE record dropped.</strong> All variables with missing values.</td>
</tr>
<tr>
<td>March 2019</td>
<td>All variables</td>
<td>6</td>
<td><strong>PCE record dropped.</strong> Pregnancy length &lt; 24 weeks or missing and RME13b equal to 0 or missing (i.e. number of pregnancies after Visit 1 lasting longer than 6 months). PCE form should not have been completed.</td>
</tr>
<tr>
<td>March 2019</td>
<td>All variables</td>
<td>2</td>
<td><strong>PCE record dropped.</strong> Pregnancy length &lt; 24 weeks or missing and the number of pregnancies after Visit 1 lasting longer than 6 months (RME13b) is less than the number of completed PCE forms.</td>
</tr>
<tr>
<td>March 2019</td>
<td>PCE2A_WEEKS</td>
<td>162</td>
<td>Corrected conversion of pregnancy length from months to weeks based on Women Health SIG Call on 10/1/2018</td>
</tr>
<tr>
<td>March 2019</td>
<td>PCE2A1</td>
<td>10</td>
<td>Corrected missing values for PCE2A1 (pregnancy length units) based on value of PCE2A (pregnancy length)</td>
</tr>
</tbody>
</table>