WITS Requirements Document

0002\_Tracking Pregnancy

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# General

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Author(s) | Brief Description of Change |
| 05/29/2018 | 1.0 | Kedra Baumgardner | Initial creation of document. |
| 01/23/2019 | 1.1 | Tammy Davis | Added Birthweight to Scope. Included existing fields for reference. |
| 3/17/2019 | 1.2 | Jesse Lindsey | Update after JAD |
| 3/19/2019 | 1.3 | Yiwen Ma | FEi Internal Review |
| 3/21/2019 | 1.4 | Jesse Lindsey | Final Estimate added |

## Stakeholders

|  |  |
| --- | --- |
| Role | Name |
| FEI Business Analyst | Jesse Lindsey |
| FEI Account Manager | Kory Schnoor |
| DCF SAMH Project Director | Nathan McPherson |
| DCF SAMH Project Sponsor | Sen-Yoni Musingo / Adam L. Wasserman |
| DCF Business Analyst | Tammy Davis |
| DCF SME | Christi Anderson, Heather Allman |

# Scope

## Initial Request & Assumptions

### Business Statement

The DCF business unit needs additional information related to pregnancy.

### Scope Definition

An enhancement is needed to allow for the tracking of additional fields related to pregnancy in the Treatment Episode Data Set.

At a minimum, these fields would be needed in the Health sub entity of Performance Outcome Measure:

* ExpectedDeliveryDate – expected date of delivery if known. Conditionally Optional. Must not be provided if PregnantCode is 0 or 6. Can only be provided if PregnantCode is 1. Must be a valid date.

At a minimum, the following fields would be needed in the Discharge entity.

* ActualDeliveryDate – actual date of delivery if it occurred during the individual’s admission. Conditionally Optional. ActualDeliveryDate must not be provided if BirthOutcomeCode is 3, 4, 5, 6, 7, or 8. Can only be provided if BirthOutcomeCode is 1 or 2. Must be a valid date. Must be greater than or equal to AdmissionDate.
* BirthWeight – Conditionally Optional. Should only be provided if BirthOutcomeCode is 1 or 2. Must be a valid integer greater than zero.

## Existing Functionality

Current related Pregnancy fields in the Health sub entity of Performance Outcome Measure.

|  |  |  |
| --- | --- | --- |
| PregnantCode | string | **The code indicating whether a female individual is pregnant.**   * Required for Initial Admission and Final Discharge and optional for Transfer Admission and Transfer Discharge. * Required if the related admission has a Substance Abuse program area. * Must be one of the following values:   + **0** for No   + **1** for Yes   + **6** for Not Applicable (Male) * Should be 6 if the individual’s gender is male. * This field is part of TEDS supplemental data set for reporting SuDS 6 – Pregnant at Admission. |
| PregnancyTrimesterCode | string | **The code indicating the trimester of a female individual’s pregnancy.**   * Required for Initial Admission and Final Discharge and optional for Transfer Admission and Transfer Discharge. * Required if the related admission has a Substance Abuse program area. * Must be one of the following values:   + **1** for 1st trimester   + **2** for 2nd trimester   + **3** for 3rd trimester   + **4** for Not pregnant or male   + **5** for Unknown * Should be 4 if the individual’s gender is male. |
| RecentlyBecomePostpartumCode | string | **The code indicating if a female individual has recently become post-partum by giving birth to a child within the last 91 days.**   * Required for Initial Admission and Final Discharge and optional for Transfer Admission and Transfer Discharge. * Required if the related admission has a Substance Abuse program area. * Must be one of the following values:   + **0** for No   + **1** for Yes   + **3** for Unknown   + **6** for Not Applicable * Should be 6 if the individual’s gender is male. |

Current BirthOutcomeCode field in the Discharge entity.

|  |  |  |
| --- | --- | --- |
| BirthOutcomeCode | string | **The code indicating the pregnancy’s birth outcome at discharge for a female individual that was pregnant within the admission and discharge dates.**   * Required for Final Discharge and optional for Transfer Discharge. * Required if the related admission has a Substance Abuse program area. * Must be one of the following values:   + **1** for Live birth (drug presence in newborn)   + **2** for Live birth (no drug presence in newborn)   + **3** for Still birth   + **4** for Miscarriage   + **5** for Pregnancy terminated   + **6** for Not yet delivered (transfers only)   + **7** for Unknown Birth Outcome (an option only if whereabouts of individual is unknown)   + **8** for Not Applicable * Should be 8 if the individual’s gender is male. |

## Proposed Functionality

The following new fields will be added to the Health sub entity of Performance Outcome Measure:

* ExpectedDeliveryDate
* ActualDeliveryDate

The following new fields will be added to the Discharge entity:

* + BirthWeight – Conditionally Optional. Should only be provided if BirthOutcomeCode is 1 or 2. Must be a valid integer greater than zero.
  + Birth weight in pounds and ounces

## Initial Estimate/ Quote History

|  |  |  |  |
| --- | --- | --- | --- |
| Phase/ Quote Date | Item(s) | Description | Estimate/ Quote |
| 3/4/2019 | 8348 | Initial Estimated Hours | Up to 90 |
| 3/21/2019 | 8348 | Final Estimated Hours | Analysis: 24  Development: 32  Testing: 32  Acct/Project Management: 8  **Total: 96** |

# Requirements

## Update Health entity

| Req. ID | Requirement | Dev | QA |
| --- | --- | --- | --- |
| 1.1 | Add New Field:   * Field Name: **ExpectedDeliveryDate** * Value Type: Date |  |  |
| 1.1.1 | Implement these rules on the new field above:   * Must not be provided if PregnantCode is 0 or 6   + Error Message: “ExpectedDeliveryDate must not be provided if PregnantCode is 0 or 6” * Must be provided and is required if PregnantCode is 1 * Must be a valid date   + Should use standard error message for valid date |  |  |

## Update Discharge Entity

| Req. ID | Requirement | Dev | QA |
| --- | --- | --- | --- |
| 2.1 | Add New Field:   * Field Name: **ActualDeliveryDate**   Value Type: Date |  |  |
| 2.1.1 | Implement these rules on the new field above:   * Must not be provided if BirthOutcomeCode is not 1 or 2   + Error Message: “ActualDeliveryDate must not be provided if BirthOutcomeCode is not 1 or 2.” * Must be provided and is required if BirthOutcomeCode is 1 or 2 * Must be a valid date   + Should use standard error message for valid date   Must be greater than or equal to the AdmissionDate in the related Admission (associated through Discharge) |  |  |
| 2.2 | Add New Field:   * Field Name: **BirthWeightPounds**   + Value Type: Integer |  |  |
| 2.2.1 | Implement these rules on the new field above:   * Should only be provided and is required if BirthOutcomeCode is 1 or 2   + Error Message: BirthweightPounds and BirthWeightOunce must both be provided if BirthOutcomeCode is equal to 1 or 2. |  |  |
| 2.3 | Add New Field:   * Field Name: **BirthWeightOunces**   Value Type: Integer |  |  |
| 2.3.1 | Implement these rules on the new field above:   * Should only be provided and is required if BirthOutcomeCode is 1 or 2   Error Message: BirthweightPounds and BirthWeightOunce must both be provided if BirthOutcomeCode is equal to 1 or 2. |  |  |
| 2.4 | New Business Rule:   * If BirthOutcomeCode is 1 or 2 then BirthWeight Pounds and BirthWeight Ounces cannot both be zero.   Error Message: BirthWeightPounds and BithWeightOunces cannot both be equal to zero if BirthOutcomeCode equals 1 or 2. |  |  |
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