ESP CASE DETECTION ALGORITHM
Gestational Diabetes

Document Version 2.2

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Modification History

Version	Date	Modification	By
2.2	10/11/2017	Added ESP Logo and MDPH branding	DPM
2.1	7/5/2017	Placed onto new algorithm template	DPM
2.0	11/16/2012		
1.0	6/22/2012	Initial draft	

1. Overview

The purpose of this document is to describe the criteria used to identify Gestational Diabetes in MDPHnet data.

2. Criteria used to identify cases using ESP data

I. CASE CRITERIA

Patient pregnant (see algorithm for pregnancy) AND one of the following
- OB Fasting glucose ≥126
- OGTT50 with single value ≥190
- OGTT75-intrapartum with ≥1 value above threshold
- OGTT100 with ≥2 values above threshold
- ICD-9 648.8x and (prescription containing the term "LANCETS" or "TEST STRIPS") within 14 days AND no ICD9 250.x prior to pregnancy start date

II. ICD-9/ICD-10 CODES FOR CASE CRITERIA

Abnormal glucose during pregnancy	ICD-9	648.8x	Abnormal glucose tolerance of mother complicating pregnancy childbirth or the puerperium

III. MEDICATIONS FOR CASE CRITERIA

Medications
- Prescription for one of the following medications during pregnancy (all pregnant women, not just those with GDM)
- Report results separately for each medication

Insulin
Metformin
Glyburide

IV. LAB TESTS

1. Fasting Glucose

Category	CPT-Comp	Component Name	Abstract Name[1]	Result

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[1] Different organizations may use different CPT-Comp identifiers for particular lab tests. To handle organization -specific differences, the GDM report is implemented using "abstract" test names and organization-specific tests are then associated

OGTT 50	82950—1378	OB GLUCOSE CHALLENGE, FASTING	ogtt50-fasting	≥126
OGTT 75	82951—2876	GLUCOSE FASTING PRE 75 GM	ogtt75-fasting	≥126
OGTT 75	82951-560	GLUCOSE, FASTING	ogtt75-fasting	≥126
OGTT 75	82951—2877	GLUCOSE FASTING	ogtt75-fasting	≥126
OGTT 100	82951—157	OB FASTING GLUCOSE	ogtt100-fasting	≥126
OGTT 100	DMA002—2877	GLUCOSE FASTING	ogtt100-fasting	≥126
OGTT 100	82951—2875	GLUCOSE FASTING PRE 100 GM	ogtt100-fasting	≥126

*confirm that the component has been accurately used by assessing the reference high. The correct reference high for these tests will be between 90 and 99. Use the stated threshold rather than reference high, however, to determine if test is positive.

2. OGTT50

One of the following tests positive

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 50	82950—161	OB GLUCOSE CHALLENGE, RANDOM	ogtt50-random	≥190
OGTT 50	82950--2848	GLUCOSE 1 HR POST CHAL.	ogtt50-1hr	≥190
OGTT 50	82950--2861	GLUCOSE 1 HR POST 50 GM	ogtt50-1hr	≥190
OGTT 50	82950--2896	GLUCOSE 1 HR POST 50 GM-N	ogtt50-1hr	≥190

Reference high vs stated threshold: stated threshold

3. OGTT75 - Intrapartum

Any one of the following values positive during pregnancy

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951—2876	GLUCOSE FASTING PRE 75 GM	ogtt75-fasting	≥92
OGTT 75	82951—2877	GLUCOSE FASTING	ogtt75-fasting	≥92
OGTT 75	82951—2867	GLUCOSE ½ HR POST 75 GM	ogtt75-30min	≥200
OGTT 75	82951—2862	GLUCOSE 1 HR POST 75 GM	ogtt75-1hr	≥180
OGTT 75	82951—2857	GLUCOSE 1 ½ HR POST 75 GM	ogtt75-90min	≥180
OGTT 75	82951—2865	GLUCOSE 2 HR POST 75 GM	ogtt75-2hr	≥153

Reference high vs stated threshold: stated threshold

Any one of the following values positive during pregnancy

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951-64	GLUCOSE FASTING, UR	ogtt75-fasting-urine	Positive
OGTT 75	82951-560	GLUCOSE, FASTING	ogtt75-fasting	≥92
OGTT 75	82951-563	GLUCOSE, 2 HR	ogtt75-2hr	≥153

Reference high vs stated threshold: stated threshold

4. OGTT75 – Postpartum – DM

Positive result on any one of the following

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951—2876	GLUCOSE FASTING PRE 75 GM	ogtt75-fasting	≥126
OGTT 75	82951—2877	GLUCOSE FASTING	ogtt75-fasting	≥126
OGTT 75	82951—2867	GLUCOSE 1/2 HR POST 75 GM	ogtt75-30min	≥200

(mapped) to the corresponding abstract test. It is often the case that several organization –specific tests map to the same abstract test.

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951—2862	GLUCOSE 1 HR POST 75 GM	ogtt75-1hr	≥200
OGTT 75	82951—2857	GLUCOSE 1 1/2 HR POST 75 GM	ogtt75-90min	≥200
OGTT 75	82951—2865	GLUCOSE 2 HR POST 75 GM	ogtt75-2hr	≥200

Reference high vs stated threshold: stated threshold

Positive result on any one of the following:

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951-560	GLUCOSE, FASTING	ogtt75-fasting	≥126
OGTT 75	82951-563	GLUCOSE, 2 HR	ogtt75-2hr	≥200

Reference high vs stated threshold: stated threshold

5. OGTT100

Two or more of the following values positive on the same encounter

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 100	82951--64	URINE GLUCOSE FASTING	ogtt100-fasting-urine	Positive
OGTT 100	82951--157	OB FASTING GLUCOSE	ogtt100-fasting	≥95
OGTT 100	82951--158	OB GLUCOSE 1 HR	ogtt100-1hr	≥180
OGTT 100	82951--159	OB GLUCOSE 2 HR	ogtt100-2hr	≥155
OGTT 100	82951--160	OB 3-HR GLUCOSE	ogtt100-3hr	≥140

Reference high vs stated threshold: reference high

Two or more of the following values positive on the same encounter

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 100	DMA002—2877	GLUCOSE FASTING	ogtt100-fasting	≥95
OGTT 100	DMA002—2866	GLUCOSE 1/2 HR POST 100 GM	ogtt100-30min	≥200
OGTT 100	DMA002—2859	GLUCOSE 1 HR POST 100 GM	ogtt100-1hr	≥180
OGTT 100	DMA002—2855	GLUCOSE 1 1/2 HR POST 100 GM	ogtt100-90min	≥180
OGTT 100	DMA002—2863	GLUCOSE 2 HR POST 100 GM	ogtt100-2hr	≥155

Reference high vs stated threshold: reference high

Two or more of the following values positive on the same encounter

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 100	82951—2875	GLUCOSE FASTING PRE 100 GM	ogtt100-fasting	≥95
OGTT 100	82951—2866	GLUCOSE 1/2 HR POST 100 GM	ogtt100-30min	≥200
OGTT 100	82951—2859	GLUCOSE 1 HR POST 100 GM	ogtt100-1hr	≥180
OGTT 100	82951—2855	GLUCOSE 1 1/2 HR POST 100 GM	ogtt100-90min	≥180
OGTT 100	82951—2863	GLUCOSE 2 HR POST 100 GM	ogtt100-2hr	≥155
OGTT 100	82951—2868	GLUCOSE 3 HR POST 100 GM	ogtt100-3hr	≥140
OGTT 100	82951—2870	GLUCOSE 4 HR POST 100 GM	ogtt100-4hr	≥140
OGTT 100	82951—2873	GLUCOSE 5 HR POST 100 GM	ogtt100-5hr	≥140

Reference high vs stated threshold: reference high

6. OGTT75 – Postpartum – IFG

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951—2876	GLUCOSE FASTING PRE 75 GM	ogtt75-fasting	100-125
OGTT 75	82951—2877	GLUCOSE FASTING	ogtt75-fasting	100-125
OGTT 75	82951-560	GLUCOSE, FASTING	ogtt75-fasting	100-125

Reference high vs stated threshold: stated threshold

7. OGTT75 – Postpartum – IGT

Positive result on any one of the following

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951—2867	GLUCOSE 1/2 HR POST 75 GM	ogtt75-30min	140-199
OGTT 75	82951—2862	GLUCOSE 1 HR POST 75 GM	ogtt75-1hr	140-199
OGTT 75	82951—2857	GLUCOSE 1 1/2 HR POST 75 GM	ogtt75-90min	140-199
OGTT 75	82951—2865	GLUCOSE 2 HR POST 75 GM	ogtt75-2hr	140-199

Reference high vs stated threshold: stated threshold

Positive result on any one of the following:

Category	CPT-Comp	Component Name	Abstract Name	Result
OGTT 75	82951-563	GLUCOSE, 2 HR	ogtt75-2hr	140-199

Reference high vs stated threshold: stated threshold

V. OTHER CRITERIA COMPONENTS

1. BMI (body mass index)
- Distinct data element in ESP[2]
- Calculate as weight (kg) / (height (m))^2
- Use the value closest to onset of pregnancy
  - Onset of pregnancy defined as EDD - 280 days
    - If EDD missing then pregnancy onset defined as (first occurrence of ICD9 V22.x or V23.x) – 30 days
  - If no value in the 1 year prior to pregnancy onset or within the first 4 months of pregnancy onset then mark as missing
  - If weight available within 1 year prior to pregnancy or within the first 4 months of pregnancy then calculate BMI using the available weight and ANY recorded height present in the patient's record
- Normal weight defined as BMI≤25
- Overweight defined as BMI >25 and <30
- Obese defined as BMI ≥30

2. Past history of gestational diabetes
- Defined as fulfillment of criteria 1 and 2 (above) prior to the current episode of pregnancy OR use of ICD9 648.8x prior to onset of current episode of pregnancy

3. Referral to medical nutrition therapy
- GDM patient with an encounter in department whose name contains NUTR (case-insensitive) while still pregnant
  - e.g. KENNUTR or BONUTR or Nutr etc.

  OR

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[2] In some of the ESP data feeds, even though the BMI value is available as a distinct data element, it is not updated reliably and the BMI value often does not correspond to the patient's height and weight.

- GDM patient with an encounter with provider whose credentials (following the end of the name) include RD
    - e.g. Klompas, Michael Rd

4. **Early postpartum hemoglobin A1C**
   - Hemoglobin A1C up to 12 weeks following pregnancy
   - Date and Value

5. **Late postpartum haemoglobin A1C**
    - Hemoglobin A1C 12 weeks to 1 year following pregnancy
    - Date and value (give maximum if multiple values)

VI.   REPORT OUTCOME SPECIFICATIONS

Linelist to include all episodes of pregnancy and all individuals with at least one instance of ICD9 648.8x (gestational diabetes). Include maximum **one line per pregnancy** and only one line for patients being included on the basis of an ICD9 648.8x alone (i.e. non-pregnant). A patient with multiple pregnancies should get separate rows for each pregnancy. The corresponding linelist column is provided in brackets.

- Patient_ID [patient_id]
- MRN [mrn]
- Date of birth [date_of_birth]
- Race / ethnicity [ethnicity]
- Zip code [zip_code]
- BMI (value) [bmi]
    - Date on which the weight which was used to calculate BMI was obtained [bmi_date]
- Frank diabetes ever? (yes or no, represent as 1 vs 0) [frank_diabetes_ever]
    - Date of frank diabetes criteria met [frank_diabetes_date]
    - Type 1 versus Type 2 [frank_diabetes_type]
- Pregnant (yes or no, represent as 1 vs 0) [pregnancy]
    - Pregnancy start date [preg_start]
    - Pregnancy end date [preg_end]
    - Estimated date of delivery (EDD) [edd]
    - Grava (from EPIC, whole number) [grava]
    - Para (from EPIC, whole number) [para]
    - Term (from EPIC, whole number) [term]
    - Preterm (from EPIC, whole number) [preterm]
    - Pregnancy outcome (from EPIC, text, e.g. term, preterm, stillbirth, etc.) [outcome]
    - Actual date of delivery (from EPIC, date) [actual_date]
    - Gestational age at delivery (from EPIC, give age in days) [ga_delivery]
    - Number of births resulting from pregnancy [num_births]
    - Birth weight (from EPIC, kilograms) [birth_weight]
    - Birth weight 2 (from EPIC, kilograms) [birth_weight2]
    - Birth weight 3 (from EPIC, kilograms) [birth_weight3]
    - Birth route (from EPIC, text, e.g. SVD, C/S, LTCS) [birth_route]
    - Pre-eclampsia or eclampsia [pre_eclampsia]

- - Define as 1 or more instance of ICD9 code 642.4 – 642.7 between pregnancy start date and (pregnancy end date + 30 days)
    - o Hypertension in pregnancy [hypertension]
      - - Define as 1 or more instance of ICD9 code 642.3 or 642.9 between pregnancy start date and (pregnancy end date + 30 days)
- GDM criteria met this pregnancy (yes or no, represent as 1 vs 0) [gdm_case]
  - o GDM case date for this pregnancy [gdm_case_date]
  - o Gestational age on first date GDM criteria met (days) [ga_gdm_met]
- History of GDM (as defined by ESP) during a prior pregnancy [prior_gdm_case]
  - o Date of first ESP-defined GDM in prior pregnancy [prior_gdm_case_date]
- ICD9 648.8 during the current pregnancy [gdm_icd9_this_preg]
- ICD9 648.8 at any time prior to pregnancy start date [prior_gdm_icd9]
  - o Earliest date of ICD9 648.8 [prior_gdm_icd9_date]
- History of polycystic ovarian syndrome [prior_polycystic]
  - o Define as ≥2 instances of ICD9 code 256.4 prior to pregnancy start date
- History of pre-eclampsia or eclampsia [prior_pre_eclampsia]
  - o Define as ≥2 instances of ICD9 codes 642.4-642.7 prior to pregnancy start date
- History of hypertension [prior_hypertension]
  - o Define as ≥2 instances of ICD9 code 401.x prior to pregnancy start date
- History of fatty liver disease [prior_liver_fatty]
  - o Define as ≥1 instance of ICD9 code 571.0 or 571.8 prior to pregnancy start date
- Lipid values in the two years prior to pregnancy start date. Provide minimum and maximum value for each along with the associated date
  - o LDL [prior2y_LDL_max_value, prior2y_LDL_date_max_value, prior2y_LDL_min_value, prior2y_LDL_date_min_value]
  - o HDL [prior2y_HDL_max_value, prior2y_HDL_date_max_value, prior2y_HDL_min_value, prior2y_HDL_date_min_value]
  - o Triglycerides [prior2y_trig_max_value, prior2y_trig_date_max_value, prior2y_trig_min_value, prior2y_trig_date_min_value]
  - o Total cholesterol [prior2y_TotCol_max_value, prior2y_TotCol_date_max_value, prior2y_TotCol_min_value, prior2y_TotCol_date_min_value]
- Liver function tests in the two years prior to pregnancy start date. Provide minimum and maximum value for each along with the associated date
  - o AST [prior2y_AST_max_value, prior2y_AST_date_max_value, prior2y_AST_min_value, prior2y_AST_date_min_value]
  - o ALT [prior2y_ALT_max_value, prior2y_ALT_date_max_value, prior2y_ALT_min_value, prior2y_ALT_date_min_value]
- OB fasting glucose positive (i.e. result ≥126) [obfastingglucose_positive]
- Intrapartum OGTT50
  - o One hour glucose absolute value (maximum if >1 test performed) [intrapartum_ogtt50_1hr_max_val]
  - o Intrapartum OGTT50 high (i.e. result ≥ ref high) [intrapartum_ogtt50_ref_high]
  - o Intrapartum OGTT50 gdm (i.e. result ≥190) [intrapartum_ogtt50_gdm_interp]
- Intrapartum OGTT75
  - o Intrapartum OGTT75 fasting value (maximum if ≥1 test performed) [intrapartum_ogtt75_fasting_max_val]

- o Intrapartum OGTT75 2-hour value (maximum if ≥1 test performed) [intrapartum_ogtt75_2hr_max_val]
  - o Intrapartum OGTT75 interpretation (positive or negative) [intrapartum_ogtt75_interp]
- Intrapartum OGTT100
  - o Intrapartum OGTT100 fasting value (maximum if ≥1 test performed) [intrapartum_ogtt100_fasting_max_val]
  - o Intrapartum OGTT100 1-hour value (maximum if ≥1 test performed) [intrapartum_ogtt100_1hr_max_val]
  - o Intrapartum OGTT100 2-hour value (maximum if ≥1 test performed) [intrapartum_ogtt100_2hr_max_val]
  - o Intrapartum OGTT100 3-hour value (maximum if ≥1 test performed) [intrapartum_ogtt100_3hr_max_val]
  - o Intrapartum OGTT100 interpretation (positive if ≥2 abnormal component tests from a single encounter) [intrapartum_ogtt100_interp]
- Intrapartum random glucose value (maximum if ≥1 result present) [intrapartum_glucose_random_max_val]
- Postpartum OGTT75 (0-256 days postpartum)
  - o Order present within 0-120 days postpartum (1 for yes, 0 for no) [postpartum120_ogtt75_order]
  - o Any result recorded within 0-120 days postpartum (1 for yes, 0 for no) [postpartum120_ogtt75_any_result]
  - o Order present 0-256 days postpartum (1 for yes, 0 for no) [postpartum_ogtt75_order]
  - o Any result recorded within 0-256 days postpartum (1 for yes, 0 for no) [postpartum_ogtt75_any_result]
  - o Date of first postpartum result [postpartum_ogtt75_any_result_date]
  - o Postpartum OGTT75 fasting value within 0-256 days postpartum (maximum if ≥1 test performed) [postpartum_ogtt75_fasting_max_val]
  - o Postpartum OGTT75 2-hour value within 0-256 days postpartum (maximum if ≥1 test performed) [postpartum_ogtt75_2hr_max_val]
  - o IFG criteria met within 0-256 days postpartum (1 for yes, 0 for no) [postpartum_ogtt75_ifg_range_met]
  - o IGT criteria met within 0-256 days postpartum (1 for yes, 0 for no) [postpartum_ogtt75_igt_range_met]
  - o DM criteria met within 0-256 days postpartum (1 for yes, 0 for no) [postpartum_ogtt75_dm_range_met]
- Postpartum fasting glucose
  - o Did the patient have a post-partum fasting plasma glucose checked (Y/N) at any time from date of delivery to the present (not including intercurrent pregnancies) [postpartum_fasting_any_result]
  - o Did the patient have a fasting plasma glucose 100-125 mgdl at any time from date of delivery to present (not including intercurrent pregnancies)? (1 for yes, 0 for no) [postpartum_fasting_gte100_lte125]
  - o Highest value of FPG 100-125 [postpartum_fasting_gte100_lte125_max_val]
  - o Date of the first postpartum fasting plasma glucose 100-125 [postpartum_fasting_gte100_lte125_date]

- o Did the patient have a fasting plasma glucose >=126 anytime postpartum (i.e. from date of delivery through present (not including intercurrent pregnancies) (1 for yes, 0 for no) [postpartum_fasting_gte126]
  - o Highest value of FPG >=126 [postpartum_fasting_gte126_max_val]
  - o Date of the first postpartum fasting plasma glucose >=126 [postpartum_fasting_gte126_date]
- Postpartum random glucose
  - o Did the patient have two random glucose >200 anytime postpartum (i.e. from date of delivery through present) (1 for yes, 0 for no) [postpartum_random_gte200_twice]
  - o Dates of the first two random glucoses >200 [postpartum_random_gte200_date1, postpartum_random_gte200_date2]
- Postpartum hemoglobin A1C
  - o Did the patient have a hemoglobin A1C checked (Y/N) at any time post-partum from the date of delivery to the present (not including intercurrent pregnancies) [postpartum_a1c_any_result]
  - o Did the patient have a hemoglobin A1C 5.7-6.4% anytime postpartum (i.e. from date of delivery through present) (1 for yes, 0 for no) [postpartum_a1c_gte5_7_lte6_4]
  - o Highest value of the A1C 5.7-6.4% [postpartum_a1c_gte5_7_lte6_4_max_val]
  - o Date of the first post-partum A1C 5.7-6.4% [postpartum_a1c_gte5_7_lte6_4_date]
  - o Did the patient have a hemoglobin A1C >=6.5 anytime postpartum (i.e. from date of delivery through present) (1 for yes, 0 for no) [postpartum_a1c_6_5]
  - o Highest value of the A1C >6.5% [postpartum_a1c_6_5_max_val]
  - o Date of the first postpartum hemoglobin A1C >=6.5 at anytime postpartum (i.e. from date of delivery through present) [postpartum_a1c_6_5_date]
  - o Early result (Highest value of the A1C ≤12 weeks following pregnancy end) [early_postpartum_a1c_max_val]
  - o Late result (Highest value of the A1C 13-52 weeks following pregnancy end) [late_postpartum_a1c_max_val]
  - o Year+ result (Highest value of the A1C 52+ weeks following pregnancy end) [yearplus_postpartum_a1c_max_val]
- Any elevated hemoglobin A1C
  - o Did the patient have a hemoglobin A1C5.7-6.4% anytime (before or after pregnancy through present) (1 for yes, 0 for no) [any_a1c_gte5_7_lte6_4]
  - o Highest value of A1C 5.7-6.4% [any_a1c_gte5_7_lte6_4_max_val]
  - o Date of the first hemoglobin A1C5.7-6.4% [any_a1c_gte5_7_lte6_4_date]
  - o Did the patient have a hemoglobin A1C >=6.5 anytime (before or after pregnancy through present) (1 for yes, 0 for no) [any_a1c_6_5]
  - o Highest value of the A1C >=6.5% [any_a1c_6_5_max_val]
  - o Date of the first hemoglobin A1C >=6.5 [any_a1c_6_5_date]
- Medical nutrition referral (1 for yes, 0 for no) [referral_to_nutrition]
- Rx for lancets and/or test strips this pregnancy (1 for yes, 0 for no) [lancet_test_strips_this_preg]
- Rx for lancets and/or test strips within 14 days of ICD9 648.8 this pregnancy [lancet_test_strips_14_days_gdm_icd9]
- Rx for insulin this pregnancy (1 for yes, 0 for no) [insulin_rx]
  - o Gestational age at date of first insulin prescription (minimum insulin prescription date subtract pregnancy start date, result in days) [ga_1st_insulin]
  - o Type of insulin regimen
    - ▪ Basal only (1 for yes, 0 for no) [insulin_basal]

- ▪ Bolus only (1 for yes, 0 for no) [insulin_bolus]
- ▪ Basal and bolus (1 for yes, 0 for no) [insulin_basal_bolus]

Definitions of Basal and Bolus

Basal only	Bolus only	Basal +Bolus
NPH (Humulin N); or	Novolog (Aspart); or	any basal regimen
Lantus (Glargine)	Humalog (Lispro); or	*and*
	Regular insulin (Humulin R)	any bolus regimen.

- • Rx for metformin this pregnancy [metformin_rx]

Rx for glyburide this pregnancy [glyburide_rx]

VII.   GDM REPORT IMPLEMENTATION NOTES

- • **bmi**: The BMI value supplied in the Atrius data feed is unreliable. Accordingly, BMI needs to be calculated as described in Section V.1.

- • **bmi_date:** Date on which the weight which was used to calculate BMI was obtained.

- • **edd:** If we have a non-null edd from a pregnancy_info record, we use that as the edd for the pregnancy episode. Otherwise, we use the maximum edd value for encounters that occurred during the pregnancy timespan.

- • **gdm_case, gdm_case_date:** Ignore any gdm cases detected by ESP if there is also a frank diabetes case for the same patient with an earlier detection date.

- • **intrapartum period when no explicit end date:** For pregnancy timespans without an explicit end date, the pregnancy is assumed to have begun on preg_start date and lasted 280 days.

- • **obfastingglucose_positive:** This result is based on lab results that are mapped to the "ogtt50-fasting" and "ogtt100-fasting" abstract labs and for which the lab result reference high is between 90 and 99.

- • **intrapartum_ogtt50_1hr_max_val:** This result is based on lab results that are mapped to the "ogtt50-1hr" abstract lab.

- • **intrapartum_ogtt50_ref_high:** This result is based on lab results that are mapped to the "ogtt50-random", "ogtt50-fasting" and "ogtt50-1hr" abstract labs.

- • **intrapartum_ogtt50_gdm_interp:** This result is based on lab results that are mapped to the "ogtt50-random" and "ogtt50-1hr" abstract labs.

- • **intrapartum_ogtt75_fasting_max_val:** This result is based on lab results that are mapped to the "ogtt75-fasting" abstract lab.

- **intrapartum_ogtt75_2hr_max_val:** This result is based on lab results that are mapped to the "ogtt75-2hr" abstract lab.

- **intrapartum_ogtt75_interp:** This result is based on lab results that are mapped to the "ogtt75-fasting", "ogtt75-30min", "ogtt75-1hr", "ogtt75-90min" and "ogtt75-2hr" abstract labs.

- **intrapartum_ogtt100_fasting_max_val:** This result is based on lab results that are mapped to the "ogtt100-fasting" abstract lab.

- **intrapartum_ogtt100_1hr_max_val:** This result is based on lab results that are mapped to the "ogtt100-1hr" abstract lab.

- **intrapartum_ogtt100_2hr_max_val:** This result is based on lab results that are mapped to the "ogtt100-2hr" abstract lab.

- **intrapartum_ogtt100_3hr_max_val:** This result is based on lab results that are mapped to the "ogtt100-3hr" abstract lab.

- **intrapartum_ogtt100_interp:** This result is based on lab results that are mapped to the "ogtt100-fasting", "ogtt100-30min", "ogtt100-1hr", "ogtt100-90min", "ogtt100-2hr", "ogtt100-3hr", "ogtt100-4hr" and "ogtt100-5hr" abstract labs.

- **intrapartum_glucose_random_max_val:** This result is based on lab results that are mapped to the "glucose-random" abstract lab.

- **postpartum_ogtt75_order:** This result is based on lab orders that are mapped to the "ogtt75-order" abstract lab.

- **postpartum_ogtt75_any_result, postpartum_ogtt75_any_result_date:** These results are based on lab results that are mapped to the "ogtt75-fasting", "ogtt75-30min", "ogtt75-1hr", "ogtt75-90min" and "ogtt75-2hr" abstract labs.

- **postpartum_ogtt75_fasting_max_val:** This result is based on lab results that are mapped to the "ogtt75-fasting" abstract lab.

- **postpartum_ogtt75_2hr_max_val:** This result is based on lab results that are mapped to the "ogtt75-2hr" abstract lab.

- **postpartum_ogtt75_ifg_range_met:** This result is based on lab results that are mapped to the "ogtt75-fasting" abstract lab.

- **postpartum_ogtt75_igt_range_met:** This result is based on lab results that are mapped to the "ogtt75-30min", "ogtt75-1hr", "ogtt75-90min" and "ogtt75-2hr" abstract labs.

- **postpartum_ogtt75_dm_range_met:** This result is based on lab results that are mapped to the "ogtt75-fasting", "ogtt75-30min", "ogtt75-1hr", "ogtt75-90min" and "ogtt75-2hr" abstract labs.

- **postpartum_fasting_any_result, postpartum_fasting_gte100_lte125, postpartum_fasting_gte100_lte125_max_val, postpartum_fasting_gte100_lte125_date, postpartum_fasting_gte126, postpartum_fasting_gte126_max_val, postpartum_fasting_gte126_date:** These results are based on lab results that are mapped to the "glucose-fasting" abstract lab.

- **postpartum_random_gte200_twice, postpartum_random_gte200_date1, postpartum_random_gte200_date2:** These results are based on lab results that are mapped to the "glucose-random" abstract labs.