WWEpi Project number:PRJ2465 eTrack: 200870

TITLE PAGE

Division: Worldwide Development

Information Type: Worldwide Epidemiology Study Protocol

Title:	Title: The Mepolizumab Pregnancy Exposure Study: a VAMPSS	
	marketing surveillance study of Mepolizumab safety in	
	pregnancy	
Compound Number:	SB240563	

Development Phase IV

Effective Date: 09-NOV-2017

Subject: Safety in pregnancy

Author(s):

PPD

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PASS information

Title	The Mepolizumab Pregnancy Exposure Study: a		
	VAMPSS post marketing surveillance study of		
	Mepolizumab safety in pregnancy		
Protocol version identifier	2.0		
Date of last version of protocol	12th May 2016		
EU PAS (ENCEPP) register number	EUPAS13772		
Active substance	Mepolizumab		
Medicinal product	NUCALA TM		
Product reference	Mepolizumab		
Procedure number	Not applicable		
Marketing authorisation holder(s)	GlaxoSmithKline		
Joint PASS	No		
Research question and objective	ves To monitor planned and unplanned pregnancies		
	exposed to mepolizumab and to evaluate the possible		
	teratogenic effect of this medication relative to the		
	pregnancy outcomes of major birth defects, preterm		
	delivery, small for gestational age infants and		
Countries of study	United States and Canada		
Authors	PPD		

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WWEpi Project number:PRJ2465 eTrack: 200870

SPONSOR INFORMATION PAGE

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Regulatory Agency Identifying Number(s): Not applicable

INVESTIGATOR PROTOCOL AGREEMENT PAGE

- I confirm agreement to conduct the study in compliance with the protocol.
- I acknowledge that I am responsible for overall study conduct. I agree to personally conduct or supervise the described clinical study.
- I agree to ensure that all associates, colleagues and employees assisting in the
 conduct of the study are informed about their obligations. Mechanisms are in
 place to ensure that site staff receives the appropriate information throughout the
 study.

Investigator Name:	
Investigator Signature	Date

STUDY ADVISORY COMMITTEE

The Vaccines and Medications in Pregnancy Surveillance System (VAMPSS) has an independent scientific committee that consists of representation from the U.S. Centers for Disease Control and Prevention Center for Birth Defects and Developmental Disabilities, the Eunice Kennedy Shriver National Institute of Child Health and Development, a biostatistician, a consumer representative, and disease-specific specialty representatives. This standing committee meets annually and reviews all interim data, interim and final study reports as well as manuscripts that are produced from the study results. The committee comments on the study progress and poses questions that arise which are addressed by the investigators.

LIST OF ABBREVIATIONS 1.

AE	Adverse Event	
GA	Gestational Age	
GSK	GlaxoSmithKline	
LMP	Last Menstrual Period	
MCM	Major Congential Malformation	
PPD	PPD	
PTB	Preterm Birth	
SAE	Serious Adverse Event	
SGA	Small for Gestational Age	
DAP	Data Analysis Plan	
VAMPSS	Vaccines and Medications in Pregnancy Surveillance	
	System	

Trademark Information

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NUCALA		

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SAS		
Xolair		

2. RESPONSIBLE PARTIES

Sponsor

The Marketing Authorisation Holder (MAH) will serve as the sponsor of this study. It is the responsibility of the MAH to ensure proper monitoring of the study and compliance with all applicable regulatory guidelines and laws.

Primary contact:

PPD

Global Regulatory Affairs Lead

Respiratory Therapeutic Group

Global Regulatory Affairs

GlaxoSmithKline Research & Development Ltd.

Study Coordination

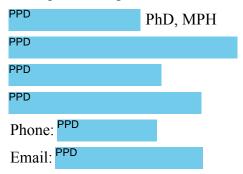
The MAH has contracted with the PPD for the to provide scientific leadership and to conduct the study. The PPD is the cohort arm of the Vaccines and Medications in Pregnancy Surveillance System (VAMPSS) in collaboration with the American Academy of Allergy, Asthma and Immunology (AAAAI). The PPD will conduct the study with review and input from the MAH.

The PPD will receive referrals from the North American PPD network of teratogen information counselling services. The North American PPD network is a network of university and health department based telephone information centers serving pregnant women and health care providers throughout the U.S. and Canada. The PPD network receives voluntary reports of pregnancy and exposures from women and health care providers.

The American Academy of Allergy, Asthma and Immunology (AAAAI) will assit the

PPD in raising awareness of the study among healthcare providers who
treat women with more severe asthma.

Principal Investigator:



WWEpi Project number:PRJ2465

eTrack: 200870

3. ABSTRACT

Rational and Background

Asthma in women of child bearing age and pregnant women is common. Although the majority of patients with asthma can be effectively treated with available controller medications, a subset of patients do not adequately respond to current standard therapy. Mepolizumab (NUCALATM) is an interleukin-5 antagonist monoclonal antibody (IgG1 kappa) indicated for add-on maintenance treatment of patients with severe asthma aged 12 years and older, and with an eosinophilic phenotype, and is given as 100mg by subcutaneous injection every four weeks. Package labelling in the US and Canada comments that the paucity of data concerning pregnancies is insufficient to inform on drug-associated risks to the fetus or mother. Nonetheless, mepolizmab will be knowigly utilized by pregnant women when they and their doctor believe the risk benefit favors its use. Also,given the the long half-life, inadvertent exposure in pregnancy is likely, even upon immediate cessation of treatment once pregnancy is suspected or confirmed. We therefore propose a pregnancy exposure cohort study to assess the safety of mepoluzimab in pregnancy. Information regarding the safety of mepolizumab in human pregnancy is essential from a public health perspective to help inform clinical practice.

Research Objectives and Study Design

The objectives of the study are to assess the risk or safety of mepolizumab exposure in pregnancy with respect to major birth defects, spontaneous abortion, stillbirth, preterm delivery, and small for gestational age infants. This is a prospective, observational, exposure cohort study of pregnancy outcomes in women exposed to mepolizumab during pregnancy compared to pregnancy outcomes in women with a diagnosis of asthma who have not used mepolizumab during pregnancy but have used other anti-asthmatic medications (treated disease comparison group), and pregnancy outcomes in women not diagnosed with asthma (non-disease comparison group).

Population

The study population consists of three cohorts: 1) a mepolizumab-exposed cohort with exposure to at least one dose of the drug from 8 weeks prior to the first day of the last menstrual period to the end of pregnancy; 2) a disease cohort with treated asthma who have not been exposed to mepolizumab within 8 weeks prior to the first day of the last menstrual period or throughout pregnancy; 3) a non-asthmatic cohort who have no current diagnosis of asthma and have not been exposed to any known human teratogen but may have potentially been exposed to non-teratogenic agents.

Variables

Exposure will be defined as mepolizumab treatment by maternal report and verified by medical record review. Outcome variables include major birth defects, spontaneous abortion, stillbirth, preterm delivery, and small for gestational age. These will be obtained by maternal report and verified by medical record review. Potential confounders or covariates to be collected include age, race/ethnicity, socioeconomic status, pregnancy and health history, lifestyle factors, comorbidities, medication, vaccine and vitamin/mineral exposures, prenatal tests, and measures of disease severity and symptom control.

Data Sources

Information will be obtained through standard maternal interviews conducted in each trimester and postpartum subsequent to study enrollment, and from medical records obtained from obstetric, hospital, pediatric and specialty providers.

Study Size and Timing

The target sample size for the study is 200 women in the mepolizumab-exposed cohort; 300 women in the treated disease cohort; and 300 women in the non-asthmatic cohort. Upon initiation of recruitment, the study is expected to continue for 6.5 years.

Data Analysis

Demographic and baseline characteristics will be compared between the cohorts. The primary analysis will be a comparison of the prevalence rate of major structural defects in live born infants between the mepolizumab-exposed cohort and the treated disease cohort. Where numbers permit, multivariable analyses will be conducted to determine the relationship of mepolizumab with the following primary outcomes: major birth defects, and secondary outcomes; small for gestational age, preterm delivery, spontaneous abortion and stillbirth as numbers permit.

4. AMENDMENTS AND UPDATES

GlaxoSmithKline	Date	Version
Document Number		
2016N282524_00	2016-MAY-12	Original
2016N282524_01	2017-NOV-09	Amendment No. 1

The purpose of the amendment is to include specific Adverse Event (AE) definition wording mandated by Health Canada, the Canadian regulatory authority. Text has been updated to state that the Final Report will include safety data related to any GSK product. Text to cover the referral of other ineligible mepolizumab-exposed pregnancies to the Sponsor has also been included. Data collection forms omitted in error from the original protocol have been included in Annex 2. Text has also been updated to reflect descriptive comparisons will be made to the Metropolitan Birth Defects Monitoting Program.

Amendment or update no	Date	Section of study protocol	Amendment or update	Reason
	09-NOV- 17	9	The following wording has been added: • 'An AE can therefore be any unfavourable and unintended sign (including an abnormal laboratory finding) symptom or disease (new or exacerbated) temporally associated with the use of a Medicinal Product. For a marketed Medicinal	The primary purpose of the amendment is to include specific Adverse Event (AE) definition wording mandated by Health Canada, the Canadian regulatory authority.

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Amendment or update no	Date	Section of study protocol	Amendment or update	Reason
		protect	Product, this can also include failure to produce expected benefits (i.e. lack of efficacy, with or without an adverse event), and adverse events associated with circumstance s of Overdose whether accidental or intentional, Medication Errors, Abuse or effects of drug withdrawal, or Misuse.'	
1	09-NOV- 17	9	The following wording has been added: • Other ineligible mepolizumab -exposed pregnancies will also be referred to the Sponsor.'	The text was updated to cover the referral of other ineligible mepolizumab-exposed pregnancies to the Sponsor.
1	09-NOV- 17	9	The following wording has been added: 'The final study report	The text was updated to state that the Final Report will include safety data related to

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Amendment		Section		
or update	Date	of study	Amendment or update	Reason
no		protocol	will additionally include all adverse events that have been explicitly attributed to any known GSK product reported to the Sponsor	any GSK product.
1	09-NOV- 17	7.7.1	The following wording has been added: A tertiary objective of the study is to descriptively compare the rate of major birth defects in the mepolizumab-exposed pregnancies, and control groups to external data from the Centers for Disease Control and Prevention (CDC) Metropolitan Atlanta Congenital Defects Program (MACDP), a population-based birth defects surveillance program (Centers for Disease Control and Prevention, 1998).	An additional analysis has been added to reflect standard practice of comparisons to CDC MACDP.
1	09-NOV- 17	Appendi x 2	The following questionnaires have been added: • MTB Pregnancy Studies: Intake- Demographic s & Medical Hx, Version 12, 27January 2015	Data collection forms omitted in error have been included in Annex 2.

Amendment or update no	Date	Section of study protocol	Amendment or update	Reason
			 MTB Pregnancy Studies: Exposure Interview Sheets, Version 12, 29January 2016 Outcome – Delivery & Birth Information, revised 9/12/2011 	

5. **MILESTONES**

Milestone	Planned date
Start of data collection	2016
End of data collection	2023
Interim Report 1	2017
Interim Report 2	2018
Interim Report 3	2019
Interim Report 4	2020
Interim Report 5	2021
Interim Report 6	2022
Registration in the EU PAS register	Jun-2016 – after Final Protocol is Approved
Final report of study results	2024

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6. RATIONAL AND BACKGROUND

6.1. Background

Asthma is a common, life-long inflammatory disease of the airways that affects children and adults of all ages. It is one of the most common long-term diseases worldwide, and can be life-threatening. The prevalence of asthma in adults in the United States is estimated at 7% (National Health Interview Survey 2001-2003). Prevalence is higher in females than males and has considerably increased in recent years (National Health Interview Survey 2001-2003). Symptoms come and go and include shortness of breath, wheezing, chest tightness and cough. The cause of asthma is unknown; however, a family history of asthma, eczema or allergy makes it more likely that an individual will develop asthma.

Although the majority of patients with asthma can be effectively treated with available controller medications, a subset of patients do not adequately respond to current standard therapy. This subset of severe asthma is a heterogenous disease that affects approximately 5-10% of asthmatic patients but is responsible for a disproportionate percentage of the health care costs associated with asthma (Moore 2008; Godard 2002; Antonicelli 2004). About two-thirds of severe asthma patients are reported to have severe eosinophilic asthma in which their symptoms are associated with too many eosinophils (a type of white blood cells) in the blood and in phlegm in the airways.

Mepolizumab is an interleukin-5 antagonist monoclonal antibody (IgG1 kappa) indicated for add-on maintenance treatment of patients with severe asthma aged 12 years and older, and with an eosinophilic phenotype. It is administered as a 100mg subcutaneous injection given every 4 weeks. In randomized controlled trials mepolizumab has demonstrated about a 50% reduction in asthma exacerbations during the treatment period (Haldar 2009).

The prevalence of asthma and severe asthma in women of child bearing age, coupled with the chronic nature of treatment and the preset periodicity with which mepolizumab is given, makes inadvertent exposure in pregnancy likely. The fact that it is given by injection makes the ascertainment of exposed pregnancies early in gestation and documentation of gestational timing of exposure more feasible than in circumstances

where a drug is taken only as needed and not administered by a health care provider. We therefore propose a pregnancy exposure cohort study to assess the safety of mepoluzimab in pregnancy.

6.2. Rationale

Information regarding the safety of mepolizumab in human pregnancy is essential from a public health perspective as inadvertent pregnancy exposure to mepolizumab may take place, and safety information for women who may need this medication is necessary to inform clinical practice.

7. RESEARCH QUESTION AND OBJECTIVE(S)

The purpose of the Mepolizumab Pregnancy Exposure Study is to monitor planned and unplanned pregnancies exposed to mepolizumab and to evaluate the possible teratogenic effect of this medication relative to the primary pregnancy outcome of major birth defects and the secondary pregnancy outcomes of preterm delivery, small for gestational age infants and spontaneous abortion or stillbirth.

8. RESEARCH METHODS

8.1. Study Design

This is a prospective, observational, exposure cohort study of pregnancy outcomes in women exposed to mepolizumab during pregnancy compared to pregnancy outcomes in women with a diagnosis of asthma who have not used mepolizumab but have used other asthma medications during pregnancy (treated disease comparison group), and pregnancy outcomes in women not diagnosed with asthma who have not been exposed to any known teratogens but have potentially been exposed to non-teratogenic agents (see list of known teratogens in Annex 2); (non-disease comparison group). The study is conducted by the PPD

located at the PPD The registry relies on voluntary reporting of pregnancy and exposures by women and health care providers

who contact the North American PPD network of teratogen information counselling services.

The study design is appropriate for the study objectives in that mothers are enrolled before the known outcome of the pregnancy, direct measures of relative and absolute risk can be computed, and a range of adverse pregnancy outcomes can be evaluated.

The study design includes the identification of women with mepolizumab exposure in pregnancy, and two appropriate comparison groups. The treated disease group assists with evaluation of the contribution of the underlying maternal disease to adverse pregnancy outcome, and also provides an appropriate comparison group for the mepolizumab-exposed cohort. This is essential, in that maternal asthma itself has been associated with a wide variety of adverse pregnancy outcomes (Rejnö et al, 2014; Namazy et al, 2013; Murphy et al, 2011). The non-asthmatic comparison group allows for comparison of asthmatic to non-asthmatic women, and if the distribution of underlying disease severity is similar in both the mepolizumab and the treated disease group as possible within the current clinical environment,, this could further illuminate the potential contribution of the disease (and disease-severity) to outcomes.

Women who agree to enroll will be consented orally over the telephone, and will then complete the initial telephone interview. Depending on the gestational timing of enrollment, a number of subsequent telephone interviews will be conducted during pregnancy and after birth. Medical records for both the women and infant will be obtained and abstracted for information to validate exposures and outcomes. Enrolled women will be followed until the completion of pregnancy and infants followed up to one year after birth to determine the outcome of pregnancy with respect to primary and secondary study outcomes (refer to Table 5, Section 8.7.1 for more information on the timing of study events)

8.2. Study Population and Setting

The study population consists of three cohorts of pregnant women (See Section 8.6 for sample size).

Participants will be recruited into the three cohorts on the basis of the following inclusion/exclusion criteria:

Cohort 1: Mepolizumab Exposed

Inclusion Criteria

- Eligible subjects will be currently pregnant women diagnosed with asthma who contact the PPD and who have been exposed to mepolizumab for any number of days, at any dose, and at anytime from 8 weeks before the first day of the last menstrual period up to and including the end of pregnancy.
- Eligible subjects will be currently pregnant women who agree to the conditions and requirements of the study including the interview schedule and release of medical records.

Exclusion Criteria

- Women will not be eligible for Cohort 1 if they first contact the PPD after prenatal diagnosis of a major birth defect, although data will be collected on these retrospective reports and descriptive information will be included in annual and final study reports.
- Women will not be eligible for Cohort 1 if they have enrolled in the study with a previous pregnancy.

Cohort 2: Treated Disease Comparison

Inclusion Criteria

• Eligible subjects will be currently pregnant women diagnosed with asthma and who are exposed to asthma medications for any number of days, at

any dose, and at anytime from the first day of the last menstrual period up to the date of enrolment, who contact the PPD but who were not exposed to mepolizumab during pregnancy or within 8 weeks prior to the first day of the last menstrual period.

 Eligible subjects will be currently pregnant women who agree to the conditions and requirements of the study including the interview schedule and release of medical records.

Exclusion Criteria

- Women who have received treatment with mepolizumab but who are not eligble for Cohort 1 will not be eligble for Cohort 2.
- Women will not be eligible for Cohort 2 if they first come in contact with the PPD after prenatal diagnosis of a major birth defect.
- Women will not be eligible for Cohort 2 who have enrolled in the study with a previous pregnancy.

Cohort 3: Non-Asthmatic Comparison

Inclusion Criteria

- Eligible subjects will be currently pregnant women who contact the PPD who were not exposed to any known teratogenic agents as determined by the PPD (list in Annex 2) for any number of days, at any dose, from the first day of the last menstrual period up to and including the end of pregnancy, and who do not have a current self-reported diagnosis of asthma. Eligible women may potentially have been exposed to non-teratogenic agents during this time period.
- Eligible subjects will be currently pregnant women who agree to the conditions and requirements of the study including the interview schedule and release of medical records.

Exclusion Criteria

• Women who have been exposed to any known teratogenic agents as determined by the PPD (list in Annex 2) for any number

- of days, at any dose, from the first day of the last menstrual period up to and including the end of pregnancy will not be eligible for Cohort 3.
- Women will not be eligible for Cohort 3 if they have a current self-reported diagnosis of asthma.
- Women will not be eligible for Cohort 3 if they come in contact with the
 PPD after prenatal diagnosis of a major birth defect.
- Women will not be eligible for Cohort 3 if they have enrolled in the study with a previous pregnancy.

Other exclusions:

Any pregnancy reported retrospectively, after the outcome is known, will
not be eligible for enrollment but those that are reported, including those
with adverse outcomes, will be referred to the Sponsor as indicated in
Section 10.

The cohort study will be conducted by investigators at the PPD for the PPD as the cohort arm of the Vaccines and Medications in Pregnancy Surveillance System (VAMPSS) in collaboration with the American Academy of Allergy, Asthma and Immunology (AAAAI). The PPD organization is a network of university and health department based telephone information centers serving pregnant women and health care providers throughout the U.S. and Canada (Leen-Mitchell et al., 2000). These services receive spontaneous telephone inquiries from women who are pregnant or considering pregnancy as well as from health care providers about the safety or risk associated with environmental exposures in pregnancy, including medications. Trained Teratogen Information Specialists at each site provide appropriate risk assessment and referral for all patient and health care provider callers free of charge. These services also provide a basis for collaborative research such as this study. Thus, individual Teratogen Information Services located throughout the U.S. and Canada will serve as a primary source of referrals not only for mepolizumab-exposed pregnancies but also for similarly-ascertained pregnant women with a diagnosis of asthma but not treated with mepolizumab, and similarly-ascertained pregnant women not diagnosed with asthma who have not used mepolizumab nor any known human teratogen.

Other methods of raising awareness about the study are meeting exhibits at professional practice meetings nationally, regionally and locally, direct mail to health care providers, media, social media, and website. Because treatment with mepolizumb will require expertise in treating severe asthma for administration, these health care providers will be a particular focus of awareness activities. With the assistance of the American Academy of Allergy, Asthma and Immunology, providers who treat women with more severe asthma will be a priority target for awareness.

Women who are interested in hearing more about the study will be referred to or will self-refer themselves to the PPD for more information. Referrals may be by the woman's HCP or by the PPD service that the woman contacts directly. Those women who are interested and meet the study criteria as described in Section 8.1 will be invited to enroll. Women who agree to enroll will complete the oral consent process over the telephone, and will then complete the initial telephone interview. Depending on the gestational timing of enrollment, subsequent telephone interviews will be conducted according to the Schedule shown in Table 5 Section 8.7.3. Follow up interviews will be conducted by telephone, and medical records for both the women and infant will be obtained and abstracted for information to validate exposures and outcomes.

The study population by definition consists of volunteers; however, they are expected to represent a wide variety of maternal age, race/ethnic background, and health status (Chambers et al, 2013; Chambers et al, 2010; Bakhireva et al, 2008; Chambers et al, 1996). The participants will reside anywhere in the U.S. or Canada. By definition, the study paricipants are all female, as this is a pregnancy study. The age of participants is expected to be between 18 and 45; however, women under the age of 18 may enroll with parent/guardian consent, and women over the age of 45 may also enroll.

Upon initiation of recruitment, the study is expected to continue recruitment for five years. Infant follow-up will continue for one year after the last live birth following recruitment of the last subject.

Table 1 **Recruitment Timetable**

	Year 1	Year 2	Year 3	Year 4	Year 5
Cohort 1 Mepolizumab exposed group	20	40	55	55	30
Cohort 2 Asthmatic comparison group	30	60	83	83	44
Cohort 3 Non-asthmatic comparison group	30	60	83	83	44

8.3. **Variables**

8.3.1. **Exposure definitions**

Mepolizumab-exposed cohort: Exposure is defined as any dose of mepolizumab for any length of time from 8 weeks prior to the first day of the last menstrual period (LMP) through the end of pregnancy, as reported by the mother and validated through medical record review. The 8 week cut-off prior to LMP is based upon the terminal half life of mepolizumab of approximately 20 days (clearance of mepolizumab is based on five halflives).

Exposure is defined as yes/no in the first trimester of pregnancy for major birth defects as the primary outcome. For this study, first trimester exposure is defined as any dose between eight weeks prior to 1st day of last menstrual period and 13 weeks after 1st day of last menstrual period. However, exposure to mepolizumab in the second (>13 weeks through 26 weeks after 1st day of last menstrual period) and third trimester (>26 weeks after 1st day of last menstrual period) will be considered for those selected major birth defects that are potentially biologically plausibly related to later pregnancy exposures, e.g., craniosynostosis. For spontaneous abortion, the exposure is defined as yes/no in the first 20 weeks' of gestation, and for the other secondary outcomes, exposure is defined as yes/no anytime in pregnancy.

Gestational age is determined by an algorithm using best available information. If the first day of last menstrual period and cycle length is known, and ultrasound measures of dating are not discrepant according to standard conventions depending on the timing of the ultrasound, the menstrual period dating will be used to calculate gestational age. If the menstrual period dating is uncertain or unknown, and an ultrasound is available, the earliest (and therefore more precise) available ultrasound dating will be used. In the event of absence of any information on dating, the delivery record best estimate of gestational age will be used.

In exploratory analyses, duration of mepolizumab use in pregnancy, specific gestational timing, and dose of mepolizumab will be explored. In the asthmatic comparison group, duration of other asthma medications duratio use in pregnancy, specific gestational timing, and doses will be explored.

8.3.2. Outcome definitions

Major Birth Defects: a major structural defect is defined and classified using the CDC coding manual

(http://www.cdc.gov/ncbddd/birthdefects/documents/MACDPcode0807.pdf), reported by the mother and validated through the medical record. The CDC coding manual is utilized to classify defects reported through the ongoing population-based Metropolitan Atlanta Congenital Defects Program (MACDP) and is based on agreed-upon criteria by CDC investigators for major structural defects regardless of etiology. Infant medical records are abstracted and reviewed by the study research team leaders. Final validation of the classification of all major birth defects reported in the study will be conducted by a VAMPSS Investigator with expertise in the diagnosis of birth defects.

Preterm Delivery: preterm delivery is defined as a spontaneous or induced delivery at <37 gestational weeks, reported by the mother and validated through the medical record. Please refer to Section 8.3.1 for further description of the method for defining gestational age and therefore preterm birth.

Small for Gestational Age (SGA) Infants: Live born infants who are $\leq 10^{th}$ centile on birth weight for infant sex and gestational age will be considered small for gestational age.

The U.S. Centers for Disease Control and Prevention (NCHS) growth charts will be used for full term infants, and the Britton growth charts will be used for preterm infants (Britton et al, 1993). The outcome of birthweight is reported by the mother and validated through the medical record.

Spontanous Abortion: Spontanous abortion is defined as spontaneous pregnancy loss prior to 20 weeks' gestation. In this study, since women enrol after recognition of pregnancy, spontaneous abortions are only identified after enrollment in clinically recognized pregnancies. This outcome is reported by the mother and validated through the medical record.

Stillbith: Stillbirth is defined as a fetal death that occurs >20 weeks' gestation. This outcome is reported by the mother and validated through the medical record.

8.3.3. Confounders and effect modifiers (Abstraction forms in Annex 2)

The potential confounders/effect modifiers listed below will be considered in multivariable analyses, as well as others that are relevant to each of the study outcomes:

- Maternal and paternal age
- Previous pregnancy history: gravidity and parity, previous spontaneous abortions and elective terminations
- Maternal and paternal race/ethnicity, education, occupation, socioeconomic status
- Pre-pregnancy body mass index
- Previous preterm delivery
- Previous child with a birth defects
- Maternal conditions: e.g., depression, diabetes (see abstraction forms in Annex 2)
- Maternal exposures: gestational timing and dose of all over-the-counter and prescription medications, including all asthma medications used during pregnancy; vitamin and mineral supplements, herbal products; illnesses; fever; vaccinations
- Prenatal testing: ultrasound and other prenatal tests; timing in gestation and results
- Pregnancy complications: e.g., pregnancy induced hypertension, gestational diabetes
- Maternal lifestyle habits: cigarette smoking, alcohol consumption and illicit drug use

Asthma related covariates: Asthma Control Test at each maternal interview, years
since diagnosis of asthma, hospitalizations or unscheduled asthma visits for asthma
exacerbations throughout pregnancy, use of systemic steroids for asthma
exacerbations, and classification of asthma severity at enrollment based on women
self-reported prescription classified by GINA (2016) guidelines.

Methods for identifying and controlling for these confounders and/or effect modifiers are described in Section 8.7.1. The Data Analysis Plan (DAP) will provide greater detail on the definitions of, the indentification of and the controlling for confounders and/or effect modifiers.

8.4. Data sources

Maternal Interviews: In all three study groups, data are collected by semi-structured maternal telephone interview on two to four occasions during and shortly after completion of pregnancy. The interviews include data on exposure timing, dose, and duration for all medications, including mepolizumab, taken anytime in pregnancy as well as data on a wide variety of confounders (See Section 8.3.3).

For women exposed to mepolizumab or other asthma medications, information on disease severity/symptom control from the Asthma Control Test is obtained directly from the mother at each maternal telephone interview. In addition, information on asthmarelated hospitalizations and physician visits is collected at the enrollment interview and each of the subsequent maternal interviews. At the conclusion of pregnancy, regardless of the outcome, participants are interviewed about the outcome including presence or absence of birth defects, pregnancy and infant complications and infant size. At this time point the Asthma Symptom Control test questions are asked again to reflect the last four weeks of pregnancy. In addition, asthma treatment regimen at enrollment according to GINA guidelines will be used to classify disease severity.

Medical Records: Mothers are asked to release medical records to the study investigators from their obstetrician or other obstetric provider, specialty care provider such as allergist/pulmonologist, hospital of delivery, pediatrician, and any other health care provider involved in the pregnancy. These records are abstracted and used to validate pregnancy outcomes and when necessary to provide details regarding timing or dose of

mepolizumab and other asthma medications in the absence of clear information from maternal report. Self-reported prescriptions used for GINA classification will be validated with medical record information where available. Pre-defined definitions for each of the study outcomes are used for classification.

Validation of classification of major birth defects, the primary outcome, is conducted periodically and before each annual and final study reports by VAMPSS Investigators, who have the relevant expertise to review the outcomes.

Table 2 Variables collected per cohort

Variable	Cohort 1	Cohort 2	Cohort 3
	Mepolizumab-	Asthmatic	Non-Asthmatic
	exposed	comparison	comparison
Maternal Interviews		T ,	,
Exposure timing ¹	V	1	V
Dose ¹			
Duration of		$\sqrt{}$	
medications ¹			
Confounders/effect		$\sqrt{}$	
modifiers			
Disease severity			X
(ACT & asthma			
treatment regimen)			
Asthma related			X
hospitalizations and			
physician visits			
Pregnancy outcome	$\sqrt{}$		$\sqrt{}$
Birth defects			
Pregnancy		$\sqrt{}$	
complications			
Infant			
complications			
Infant size			
Medical Record Abst	raction ²		
Pregnancy	$\sqrt{}$		
validation			
Pregnancy outcome	V		
validation			
Exposure timing		$\sqrt{}$	$\sqrt{}$
validation ¹			
Dose validation ¹		$\sqrt{}$	$\sqrt{}$
Self-reported	√	\ \ \	

Variable	Cohort 1	Cohort 2	Cohort 3
	Mepolizumab-	Asthmatic	Non-Asthmatic
	exposed	comparison	comparison
prescription			
validation ¹			
Major birth		$\sqrt{}$	$\sqrt{}$
defects ³			

¹For cohort 1& 2 primarily asthma medication will be assessed.

8.5. Study size

The proposed sample sizes in each of the three study groups are as follows:

- 200 women exposed to mepolizumab at any time 8 weeks prior to 1st day of last menstrual period and throughout pregnancy
- 300 women with asthma, unexposed to mepolizumab, aiming to represent the full spectrum of asthma severity with emphasis on severe patients
- 300 non-asthmatic controls

Table 3 Risk and safety estimates for mepolizumab-exposed pregnancies relative to the primary comparison group for selected outcomes available from the cohort arm PPD after 4 years of enrollment and collection of outcomes at birth; all estimates use an α-level of 0.05.*

Outcome	No. Exposed $N = 200$	No. Unexposed Asthmatic N = 300	Risk**	Safety***
All major birth defects	180	270	3.0	2.8
Preterm birth	180	270	2.2	2.0
SGA infant	180	270	1.9	1.8

² Information will be dependent on the completeness of the medical record

³Performed periodically and before each annual and final study reports

*Sample size for all outcomes shown in the table based on 90% of enrolled pregnancies ending in live birth with completed outcome; sample size for all birth defects based on prevalence of 3% in the asthmatic comparison group; sample size for preterm birth based on prevalence of 7% in the asthmatic comparison group (Bakhireva et al, 2008); sample size for small for gestational age infants (SGA) based on prevalence of 10% in the asthmatic comparison group. Power calculations performed in OpenEpi software.

** Minimum RR detectable with 80% power.

The sample size is considered plausible based on the experience of the PPD research group with previous studies of asthma in pregnancy, but plausibility for the current study is unknown. Although it is unknown to what extent mepolizumab will be used by pregnant women, experience with recruitment in the omalizumab (Xolair) registry provides some support for the proposed sample size. In six years of recruitment, the EXPECT (omalizumab) registry recruited 191 exposed pregnancies (Namazy et al, 2015).

It is expected, based on experience with the EXPECT registry for omalizumab that virtually all mepolizumab-exposed participants will have exposure sometime in the first trimester and will typically enroll in the study upon recognition of pregnancy making the entire cohort analysable for the primary outcome and all secondary outcomes. It is possible that some participants in all three cohorts will enroll after 20 weeks' gestation and therefore will not be included in the analysis of spontaneous abortion.

8.6. Data management

Maternal interviews are conducted at enrolment and in each trimester thereafter, depending on the gestational age at which the mother enrolls. An additional outcome interview is conducted by telephone after the end of pregnancy, typically this occurs within 6 weeks but could be up to one year after. These interviews are conducted by telephone and typically take between 30 minutes and 1 hour to complete. The interviews are semistructured and follow interview data collection forms to ensure that all study questions are addressed. Data from each interview form is entered into the study database at the end of the interview by the same person who conducted the interview. Medical records are requested from the hospital of delivery (maternal and neonatal information), obstetric provider (maternal information), paediatrician (neonatal/infant) and any specialty physician (maternal and neonatal/infant information). When records are

^{***}Upper 95 % confidence bound for RR=1.

received and catalogued, data is abstracted by trained personnel from each record using a standard abstraction form and entered into the study database. Hard copies of all study forms and medical records are retained in the PPD at the PPD at

8.6.1. Data handling conventions

Major birth defects are classified using the CDC coding manual (http://www.cdc.gov/ncbddd/birthdefects/documents/MACDPcode0807.pdf) by the Study Manager. All defect classifications are reviewed by co-Investigators. All prenatal exposures to medications and vaccines are coded using the Slone Drug Dictionary (http://sites.bu.edu/slone-drug-dictionary/).

Twins or higher order multiples are handled as one pregnancy outcome. For example, if the pregnancy ends in at least one live born infant, the outcome is considered a live born outcome. If either or both twins have a major birth defect, the outcome is considered one major birth defect outcome. Twins are excluded from analyses of preterm delivery and small for gestational age infants.

Lost-to-follow-up status is designated if a participant withdraws from the study, or if the study staff are unable to make contact with the study participant within 12 months of the estimated end of pregnancy in order to obtain outcome information.

Table 4 Denominators by Outcome

Outcome	Denominator
Major Birth Defects	Pregnancies ending in live birth; with exposure in 1 st trimester
,	
Among Live Births	for mepolizumab cohort, and other comparison groups at least
	one malformed infant in an individual pregnancy is considered
	one malformed outcome
Major Birth Defects	Pregnancies with any outcome excluding those lost-to-follow-
Among All Pregnancies	up; with exposure in 1st trimester for mepolizumab cohort, and
	other comparison groups; at least one malformed
	foetuses/infants in an individual pregnancy is considered one
	malformed outcome
Spontaneous Abortion	Pregnancies enrolled in the study prior to 20 weeks' gestation
	with at least 1 follow-up data collection point after enrollment
	date. Exposure can occur any time in pregnancy prior to event.
Preterm Delivery	Pregnancies enrolled prior to 37 weeks gestation and ending in
	at least one live born infant; excluding twins or higher order
	multiples due to inherent higher risk of preterm birth in
	multiples. Exposure can occur any time in pregnancy prior to
	event.
Small for Gestational	Pregnancies ending in at least one live born infant; excluding
Age Infants	twins or higher order multiples due to the inherent higher risk
	of reduced birth size in multiples. Exposure can occur any
	time in pregnancy prior to event.
Still Birth	All pregnancies, excluding lost-to-follow-up. Exposure can
	occur any time in pregnancy prior to event.

Coding of outcomes is performed by the study staff using the definitions provided in the protocol. The primary source of information on exposure and outcome is the participant. Validation of study outcomes is performed using medical records. In the case of discrepancies in the two sources of report, the participant is recontacted to determine if the discrepancy can be resolved, and an SOP for adjudicating these decisions has been developed.

Missing values for the critical data for PPD studies are typically very few and nearly always less than 10%. There is generally no need to include imputation strategies; however, depending on the prevalence of missingness, sensitivity analyses will be conducted. These will be documented in the DAP.

8.6.2. Resourcing needs

Not applicable.

8.6.3. Timings of Assessment during follow-up

Table 5 Timing of Cohort Enrollment, Interviews, Medical Records

				0-6 weeks	
	<20 weeks	16-20 weeks	32-34	after	0-12 months
	gestation	gestation*	weeks	delivery	after delivery
			gestation		
Contact / Referral	V	√	√		
Enrollment and Consent	V	V	V		
Intake Interview	V	V	V		
Interim Interview I		V			
Interim Interview II			V		
Outcome Interview				V	
Medical Record Release Forms Sent for Signature				V	
Medical Record Review					V

8.7. Data analysis

8.7.1. Essential analysis

A detailed Data Analysis Plan will be prepared and finalised prior to the conduct of any study analysis or reporting.

Primary Endpoint: The primary endpoint will be major structural defects among live born infants. The primary comparison will be between the first-trimester mepolizumab-exposed group and the treated disease cohort.

Secondary comparisons for major birth defects will be conducted with the denominator including all pregnancies ending in live birth, spontaneous abortion, stillbirth or elective termination, excluding lost-to-follow-up, comparing first-trimester mepolizumab-exposed to the treated disease cohort.

Additional secondary comparisons will be made between the first-trimester mepolizumab-exposed group and the treated asthma and non-asthmatic cohort. A tertiary objective of the study is to descriptively compare the rate of major birth defects in the mepolizumab-exposed pregnancies, and control groups to external data from the Centers for Disease Control and Prevention (CDC) Metropolitan Atlanta Congenital Defects Program (MACDP), a population-based birth defects surveillance program (Centers for Disease Control and Prevention, 1998).

Secondary Endpoints:

<u>Preterm Delivery</u>: After exclusion of twins or higher order multiples, the rate of pregnancies ending in live birth <37 weeks' gestation will be compared between the mepolizumab group enrolled and exposed anytime in pregnancy prior to 37 weeks' gestation and the treated disease and non-asthmatic cohorts enrolled prior to 37 weeks' gestation.

<u>Small for Gestational Age Infants</u>: After exclusion of twins or higher order multiples, the proportion of pregnancies ending in a live born infant $\leq 10^{th}$ centile of birth

weight for gestational age and sex will be compared between the mepolizumabexposed group and the treated disease and non-asthmatic cohorts.

<u>Spontaneous Abortion</u>: For those women in all three cohorts who enrolled in the study prior to 20 weeks' gestation, the rate of spontaneous abortion accounting for left truncation will be compared between those in the mepolizumab group enrolled and exposed any time in pregnancy prior to 20 weeks' gestation and the treated disease and non-asthmatic cohorts.

<u>Stillbirth</u>: The rate of pregnancies ending in stillbirth will be compared between those in the mepolizumab-exposed group and the treated disease and non-asthmatic cohorts.

Statistical methods: Descriptive tables will be prepared for characteristics of each of the cohorts in each interim and final report displaying means and standard deviations, or proportions and percentages.

For the primary endpoint of major structural defects and for the secondary endpoint of small for gestational age infants, crude comparisons will be made using exact methods to develop relative risk estimates and their 95% confidence intervals.

For the secondary endpoints of preterm delivery, spontaneous abortion, and stillbirth, survival methods will be used (Kaplan Meier) to estimate crude rates and confidence intervals accounting for gestational timing of enrollment in the study.

Adjusted analyses producing rates and 95% confidence intervals, where numbers permit, will be conducted for major birth defects and small for gestational age infants using logistic regression. Adjusted analyses producing rates and 95% confidence intervals, for preterm delivery, spontaneous abortion and stillbirth, where numbers permit, will be conducted using Cox Proportional Hazards. A minimum of 30 events in the overall analysis sample is required for adjusted analysis for those outcomes assessed with logistic

regression. A minimum of 20 events in the overall analysis sample is required for adjusted analysis for those outcomes assessed with Cox Proportional Hazards.

Confounders will be considered for each adjusted analysis separately, using the method of change in estimate of the effect of exposure to mepolizumab by 10% or more. If one confounder is identified, direct adjustment will be performed. However, given the expected low frequency of events in a study of this size, if two or more confounders are identified in any given analysis, a propensity score approach for adjustment will be considered.

Appropriateness of models will be assessed graphically and by standard statistical methods

8.7.2. Exploratory analysis

Exploratory analyses addressing potential effect modifiers such as Asthma Control Test measures of disease symptom control, and measures of asthma exacerbation will be addressed. In addition, subanalyses based on length and gestational timing as well as dose of exposure to mepolizumab will be performed. Additionally, stratified analyses based on prenatal diagnosis performed prior to enrollment in the study will be conducted for the primary endpoint. The purpose of this analysis is to address the inherent bias in excluding women at the time of enrollment in the cohort study who have already received prenatal diagnosis of a major birth defects, but including women who have already had a normal result or prenatal diagnosis for major birth defects prior to enrollment. Therefore, the planned stratified analysis will compare the birth prevalence of major birth defects among the subset of women enrolled in the cohorts prior to prenatal diagnostic testing for fetal structural anomalies, to the birth prevalence of major birth defects among the subset of women enrolled in the cohorts after prenatal diagnostic testing for fetal structural anomalies. Subanalyses excluding chromosomal or known genetic anomalies (based on specific defects categorized by expert based on know genetic etiology) will also be conducted.

8.7.3. General considerations for data analyses

The general approach to controlling for confounding is to evaluate each relevant confounder for the specific outcome to determine if inclusion of the confounder in a model containing exposure to mepolizumab changes the estimate of the effect of exposure by 10% or more. The confounders will be assessed univariately and those confounders that are identified are incorporated into multivariate analyses as described in the statistical analysis Section 8.7.1. Further details will be contained in the DAP. Control for confounding by indication is addressed by comparison to the treated disease group. However, as described in exploratory analyses in Section 8.7.2, attention to measures of disease symptom control and underlying severity will also be addressed by subgroup and stratified analysis.

8.8. Quality control and Quality Assurance

As noted in Section 8.7, quality control measures are in place throughout the entire period of data collection and data entry. Training and retraining of study staff is monitored per study SOP, and validation of data entry for critical study variables is conducted for 100% of study participant interactions. Data exported for interim and final analyses for this study are checked for logical errors, and range checks are performed. All major birth defect classifications are verified by the study investigators.

Data are reviewed on an interim basis by the VAMPSS external advisory committee. This committee consists of representation from the U.S. Centers for Disease Control and Prevention Center for Birth Defects and Developmental Disabilities, the Eunice Kennedy Shriver National Institute of Child Health and Development, a biostatistician, a consumer representative, and disease-specific specialty representatives. This standing committee meets annually and reviews all interim and final study reports as well as manuscripts that are produced from the study results. The committee comments on the study progress and poses questions that arise which are addressed by the investigators.

Final data sets are cleaned and utilized for preparation of the analyses and study reports. All analyses (coding and output) are reviewed by the lead study statistician and at least one other staff statistician. Study reports are reviewed by the Study Manager and the

Investigators. All data sets and analytic files are archived indefinitely at the and analyses can be replicated as necessary.

8.9. Limitations of the research methods

Potential limitations of the research methods are as follows:

The study relies on a volunteer sample which may or may not be entirely representative of all women who take mepolizumab during pregnancy. However, for a new product used for a relatively rare condition this is likely one of the only methods of obtaining safety information for pregnancy exposures because of the ability to target key patient and provider groups, particularly physicians who treat patients with more severe asthma, to increase awareness about the study.

It is unknown what the distribution of timing of exposure will be in the mepolizumab-exposed cohort. In the EXPECT registry for omalizumab, pregnancy exposures were predominately limited to the first trimester (Namazy et al, 2015). Therefore, it is possible that the study will only be able to address the risks or safety of exposures that occur in the first four to six weeks of pregnancy before women typically recognize that they are pregnant.

The sample size that is achievable for a new product used for a relatively rare condition limits the power to detect differences, especially for rare outcomes such as major birth defects. The study will also be limited in ability to address increased risks for spontaneous abortion as the highest risk for spontaneous abortion occurs in the gestational weeks prior to when women would typically enroll in the study. However, based on expected gestational timing of enrolment, spontaneous abortion rates in late first trimester and early second trimester will be analyzable.

Strengths of the study design are the ability to build on the referral network of member services across the U.S. and Canada to identify mepolizumab-exposed pregnancies as well as appropriate comparison group pregnancies, the property research groups' track record of excellent subject retention (<5% lost to follow-up). In addition,

the study design allows for appropriate comparison to a treated disease group, and for appropriate attention to confounding or effect modification.

8.9.1. Study closure/uninterpretability of results

In consultation with the Scientific Advisory Committee, discontinuation of the study will be considered at such time as:

- sufficient information has accumulated to meet the scientific objectives of the study
- other methods of gathering appropriate information become achievable or are deemed preferable
- the feasibility of collecting sufficient information diminishes to unacceptable levels because of low exposure rates, poor enrollment, or losses to follow up. Upon initiation of recruitment, the study is expected to continue to recruit for five years with recruitment ranging from 20-55 patients exposed to mepolizumab per year. Regular review of enrollment numbers will be performed and numbers compared to the sponsor's data and other external data on the uptake of mepolizumab to determine if uptake among women of reproductive age is consistent with enrollment rates in the cohort study. One of the sources of these data is the database arm of VAMPSS which represents a large population-based source of information on pregnancy exposures. Enrollment will also be reviewed with respect to key awareness activities.
- If the Sponsor discontinues manufacturing mepolizumab they may withdraw from the study upon written notification.

8.10. Other aspects

None

9. PROTECTION OF HUMAN SUBJECTS

9.1. Ethical approval and subject consent

The study is approved through the PPD

(Institutional Review Board or IRB). All study participants must agree to the IRB-approved oral consent form at the time of enrollment and before completing the intake interview. Each participant must subsequently sign the IRB-

approved informed consent document in order to continue to participate in the Registry. Each participant is also asked to sign for release of medical information to allow the Registry to obtain information on the pregnancy and the pregnancy outcome from the participant's obstetrician, the hospital of delivery, and any other health care specialist, and for the infant from the infant's pediatrician.

The original oral and signed informed consent documents, and copies of the medical records release forms will be maintained at the Research Center.

Pregnant women under the age of 18 who are eligible for the study and who wish to participate will require written consent of their parent or guardian prior to the initial intake interview and written assent from themselves. Consent/assent forms and study participation materials are available in English or Spanish.

9.2. Subject confidentiality

The Registry makes every effort to assure participant confidentiality within the Registry. Personally identifiable information is maintained in secure files with restricted access limited to only authorized personnel.

Registry Investigators, data collection and management staff reside at the

PPD located at the PPD

PPD These personnel, under the supervision of the Investigators, have

access to the physical files and electronic data, have documented completion of human subjects research training, and are listed individually as authorized to have access to the study data on the study IRB-approved research plan.

Sponsor representatives through the Registry Scientific Advisory Committee have access to de-identified summary data as part of the periodic annual review and the final study report. Final study data files for analysis are stripped of identifiers and archived without personal identifiers.

Care will be taken to ensure that no individual participant is identifiable in the data tables published in the Annual Reports, or other presentations or publications.

10. MANAGEMENT AND REPORTING OF ADVERSE EVENTS/ADVERSE REACTIONS

A Safety Management Plan (SMP) will be developed for the study and will provide detailed information on the study specific pharmacovigilance processes and procedures.

This study adopts the following ICH definitions:

Adverse event: Any untoward medical occurrence in a patient or clinical investigation subject administered a pharmaceutical product and which does not necessarily have to have a causal relationship with this treatment.

• An AE can therefore be any unfavourable and unintended sign (including an abnormal laboratory finding) symptom or disease (new or exacerbated) temporally associated with the use of a Medicinal Product. For a marketed Medicinal Product, this can also include failure to produce expected benefits (i.e. lack of efficacy, with or without an adverse event), and adverse events associated with circumstances of Overdose whether accidental or intentional, Medication Errors, Abuse or effects of drug withdrawal, or Misuse.

Serious adverse event: any untoward medical occurrence that at any dose that 1) results in death, 2) is life threatening, 3) requires inpatient hospitalization or prolongs existing hospitalization, 4) results in persistent or significant disability/incapacity or 5) is a congenital anomaly.

• Medical and scientific judgement should be exercised in deciding whether expedited reporting is appropriate in other situations, such as important medical events that may not be immediately life-threatening or result in death or hospitalisation but may jeopardise the patient or may require intervention to prevent one of the other outcomes listed in the definition above. These should also usually be considered serious. Examples of such events are intensive treatment in an emergency room or at

home for allergic bronchospasm; blood dyscrasias or convulsions that do not result in hospitalisation; or development of drug dependency or drug abuse.

The purpose of the Mepolizumab Pregnancy Exposure Study is to monitor planned and unplanned pregnancies exposed to mepolizumab and to evaluate the possible teratogenic effect of this medication. For mepolizumab exposed pregnancies predefined specific pregnancy outcomes that are classified as serious adverse events (SAE's) will be identified and reported. These selected SAEs include Major Congenital Malformation (MCM), spontaneous abortion, still birth and neonatal death. These events will be reported to the sponsor's safety department within 24 hours.

Additionally, for mepolizumab exposed pregnancies, all other adverse events, which are ascertained as part of the routine study data collection, will be abstracted from maternal interiews (and/or from available medical records) by dedicated and trained study staff. Each of the events will be assessed for causal relationship to mepolizumab exposure by a consulting physician with expertise in asthma and allergy treatment of women of reproductive age. This assessment of events will be performed on a monthly basis by the consulting physician. Only those adverse events attributed by the consulting physician to mepolizumab will be reported to the sponsor's safety department within 24 hours.

Any pregnancies in subjects exposed to mepolizumab reported to the PPD retrospectively, after the outcome is known, will not be enrolled and will be referred to the Sponsor. Other ineligible mepolizumab-exposed pregnancies will also be referred to the Sponsor.

If during the study, the PPD investigators become aware of an adverse event explicitly attributed to any known GSK product, this will also be reported to the sponsor's safety department within 24 hours.

The interim and final study reports will include the serious adverse events that are the study endpoints as part of the hypotheses being tested, and a summary of all mepolizumab attributed adverse events. The final study report will additionally include

all adverse events that have been explicitly attributed to any known GSK product reported to the Sponsor.

11. PLANS FOR DISSEMINATING AND COMMUNICATING STUDY RESULTS

11.1. Target Audience

Healthcare providers treating women with asthma and regulatory authorities.

11.2. Study reporting and publications

Key design elements of this study will be posted in publicly accessible databases. Furthermore, key results of this study will be posted in publicly accessible databases within the required time-frame from completion of the data collection where applicable.

Interim reports will be prepared on study progress annually. Upon closure of the study, a final report will be generated by the VAMPSS study investigators which will be submitted by GSK to the relevant regulatory authorities. The final report will also be available to HCPs.

The data may also be considered for reporting at scientific conferences or for publication in scientific journals. Preparation of such manuscripts will be prepared independently by VAMPSS investigators and in accordance with the current guidelines for STrengthening the Reporting of OBservational studies in Epidemiology (von Elm 2008). VAMPSS investigators will follow the international committee of medical journal editors (ICMJE) recommendations for authorship and acknowledgements. GlaxoSmithKline will be entitled to view the results and interpretations included in the manuscript prior to submission for publication.

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13. APPENDICES

ANNEX 1. LIST OF STAND-ALONE DOCUMENTS

Tables and Figures

Core table shells and figures will be included in the Data Analysis Plan

Stand-Alone Documents

None

ANNEX 2. Additional Information

Known Human Teratogens

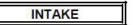
*For most agents, consider post-conception exposure only. Exceptions: acitretin and etretinate (see notes next to these exposures).

Exposure	Notes
ACE Inhibitors	
Acitretin	Any exposure within 2 years of LMP.
Alcohol, Heavy	>5 drinks per week or > 5 drinks in 1 day: Week = Sun-Sat
Aminopterin	5.
Antiseizure / Anticonvulsant Medications	
Antineoplastics, Other	
Cocaine	
Cytomegalovirus (CMV)	
Diabetes, Type I	Type II Diabetes is also a disqualifier
Etretinate	Any exposure within 10 years of LMP.
Fever, High	102 degrees or higher for 24 hours or longer
Fluconazole, Systemic	
Isotretinoin	
Lenalidomide	
Lithium	
Methimazole	
Methotrexate	
Propylthiouracil (PTU)	
Radiation, High Dose	≥ 5 rads to the uterus
Rubella	
Thalidomide	
Toxoplasmosis	
Varicella	Primary case of chicken pox
Warfarin (Coumadin, Jantoven) derivatives	

PERSON	AL INFORMATION	If Yes, previous	PREVIOUSLY ENROLLED? Y If Yes, previous PREG ID # (s): 1.) PREG#:				
PPD Case Number:		2.) PREG #:					
Primary Group:	Other Enrollments →	3.) PREG #:					
Budget Number:	Cole Diviness 7	1.) Budget Number:					
The Charles and an Advantage of the Charles and the Charles an		Group:					
Enrollment Date: (= consent date)		Enrollment Date:					
CTIS: Yes No		2.) Budget Number:					
		Group:					
LMP:		Enrollment Date:					
FD0		3.) Budget Number:					
EDC:		Group:		- 9			
		Enrollment Date:					
Name:		Mother's DOB:					
Address:		Subject's Initials:					
Best Home Phone:	Oka	y to leave message:	Yes	No			
Best Work Phone:	Oka	y to leave message:	Yes	No			
Best Cell Phone:	Oka	y to leave message:	Yes	No			
Best time to contact:	Ok	ay to talk to anyone in household?	Yes	No			
Time Zone: PST MST CST EST	PREFER	SAME INTERVIEWER:	YES	NO			
Email Address:	Other Co	ntact Name:					
	Other Co	ntact Relationship:					
	Other Co	ntact Phone:					
	(2000)	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		3.00			
FOB (or partner) Name:							
FOB (biological/donor sperm) DOB:		**					
Notes:							
Interviewer:							
DE Date:		Validated by:					

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DEMOGRAPHICS & MEDICAL HISTORY

986		Primary Group:	-87				
PPD Case Number:	49	Budget:					
Subject's Initials:		Intake Date:					
REFERRAL SOURCE:	TIS Physician/Health-Care V	Vorker Internet Pharma	aceutical Company Self-Referral Other				
Referral s	ource specifics:						
<u>DEMOGRAPHICS</u>		\$2	2				
MOB Ethnicity (biologic	al/egg donor):	MOB JOB TITLE: (Full-	-time <u>or</u> \square Part-time)				
Hispanic / Latina	 Non-Hispanic / Non-Latina 						
MOB Race (biological/e	egg donor):		; chef/cook- type of restaurant; business owners- # of				
Caucasian	Native American/AK Native	teachers- what grade and w	's without BA or Post Grad need to ask for tasks; what subject]:				
Black	Asian	(A-5)					
Pacific Islander	*Other: *MUST SPECIFY						
Primary language at ho • English		*					
 Spanish 	Other:						
Junior HS (9 th) Partial HS (10 th or 11 th Is the FOB (partner) pro Yes	and the second s	ialization (at least 1 year) Grad (Degree: *If "Yes", FOB (partner) JO	_) DB TITLE: (
		Description [*military-rank	chafloook type of rectaurant; business owners, # of				
FOB (biological/sperm o	13 V	people employed; engineers without BA or Post Grad need to ask for tasks;					
Hispanic / Latino	Non-Hispanic / Non-Latino	teachers- what grade and w	vhat subject]:				
FOB (biological/sperm of	donor) Race:						
Caucasian	 Native American/AK Native 						
Black	Asian						
Pacific Islander	*Other:*MUST SPECIFY						
*If "Yes", FOB (partner)	Education:						
• < 9 th grade	 HS Grad/ Trade with 	out HS Grad	Post Grad (Degree:)				
 Junior HS (9th) 	 Some College / Spec 	ialization (at least 1 year)					
 Partial HS (10th or 11th 	College / University (Grad (Degree:	_)				
social security, welfare,	not working (or only receiving student loans), will anyone els		If yes, Supporter's # 1 Occupation:				
the baby? YES NO			Job Title: (☐ Full-time <u>or</u> ☐ Part-time)				
*If "Yes", Supporter's #	1 Education:		8-				
• < 9 th grade	HS Grad/ Trade without HS		Description:				
Junior HS (9 th)	Some College / Specialization	(a) (a)	or energial and a state				
 Partial HS (10th or 11th 	O) • College / University Grad (D		Relationship:				
	Post Grad (Degree:)	. volution for fig.				

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WWEpi Project number:PRJ2465 eTrack: 200870

Case Number: If yes, Supporter's # 2 Occupation: Job Title: (☐ Full-time or ☐ Part-time) *If "Yes", Supporter's # 2 Education: < 9th grade HS Grad/ Trade without HS Grad Description: Junior HS (9th) Some College / Specialization (at least 1 year) Partial HS (10th or 11th)
 College / University Grad (Degree: _ Relationship: → Total (pre-tax) Household Income: <\$10,000 \$10,000 - \$49,000 >\$50,000 Unknown PREGNANCY HISTORY Current Pregnancy → Per Maternal Report: Per Database Calculations: LMP: Check if unsure LMP: _ DOC: DOC: ___ EDC: . EDC: -Check if unsure Cycle: ___ ART: MOB-Reported EDC Determined by: Database Calculation of EDC Determined by: □IVF ☐Fertility Drugs **LMP** □U/S: date: □LMP □U/S: date: □ICSI □Donor Egg / Sperm □IVF/ICSI □Artificial Insemination □IVF/ICSI ☐Artificial Insemination ☐ Artificial Insemination ☐Other: Other: □Other: 1. Have you ever been treated for infertility in this or any previous pregnancy? YES NO [IF YES, please select "Infertility" in "MOB history section" of database (PREG tab)] 2. Did you use any assistive reproductive methods in this pregnancy (i.e. fertility meds, IVF, etc.) NO YES 2a. If YES, what treatment: Was this pregnancy planned? (Actively trying to become pregnant?) Yes No Date you found out you were pregnant: _____ Pre-pregnancy Wt (lbs): ____ Ht (ft/in): _____

CONFIDENTIAL WWEpi Project number:PRJ2465 2016N282524_01 eTrack: 200870 Case Number: _ Pregnancy Information → TAB: Para: SAB*: #total pregnancies #livebirths + stillbirths Includes ectopic & mole **Previous Pregnancies:** Change in paternity Outcome Month/Year of Outcome Single GA from previous (Livebirth, Stillbirth, SAB, TAB, or Multiple Weeks at pregnancy (i.e. Was ectopic, mole) there a change in the father/sperm donor for this reported pregnancy?) completion of pregnancy ☐ Single ☐ Multiple 1st. N/A ☐ Single 2nd Y N ☐ Multiple ☐ Single ☐ Multiple 3rd Y N ☐ Single 4th Y N ☐ Multiple Single Multiple 5th Y N Single 6th. Y N Multiple ☐ Single 7th Y ☐ Multiple ☐ Single 8th Y N ☐ Multiple Single
Multiple 9th Y N Single 10th Y N ☐ Multiple ☐ Single ☐ Multiple **Current Pregnancy** N/A N/A Y N Unknown For Data Entry Purposes (Use information gathered above regarding previous pregnancies to answer). Change in paternity in THIS pregnancy? Y N Change in paternity ever? Y N Previous Pregnancies → Preg #: Notes:

•	Preterm delivery (< 37 wks gestation)	Yes	No		
•	Pregnancies w/ birth defect (includes SABs and TABs)	Yes	No	Preg #:	
•	Child w/ IUGR (Dx w/ being small)	Yes	No	Preg #:	
•	Preeclampsia / Toxemia	Yes	No	Preg #:	
•	Oligohydramnios (too little amniotic fluid)	Yes	No	Preg #:	
•	Hydramnios (too much amniotic fluid)	Yes	No	Preg #:	
•	Pregnancy Induced Hypertension	Yes	No	Preg #:	
•	Other	Yes	No	Preg #:	
Ad	ditional Notes:				1

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Family History →						Case Nun	ber:	
(MOB/FOB, mother, father,	Matern	al*	Pate	ernal*		Relation	Notes:	
brothers/sisters, aunts/uncles)	Yes	No	Yes	No				
 Down Syndrome 								
Neural Tube Defect								
Cystic Fibrosis								
Heart Defect	2.5							
Other Birth Defect								
Genetic Disease		**						
Mental Disability								
Multiple Sclerosis*		- 4		. ,			3	
*MS for MOB should be recorded under MOB history								
• Other								
*FOB/paternal (biological/sperm d	anarl: *MOR	/mantaum	al (biala	riaal/aan d				
	onor), IVIOD	rnaterna	ai (DiOiO	jicai/egg di	orior)			
Additional Notes:								
MOB (person pregnant) Me	dical Histo							
		Yes	No	Date Dx		Current	Notes:	
 Ankylosing Spondylitis 		13	8 8		E	Resolved	2	
 Antiphospholipid Syndror 	me					Current Resolved		
Celiac					E	Current Resolved		
 Connective Tissue Disea (mixed / undifferentiated) 					E	Current Resolved		
Crohn's Qualify for AI	study? Y N					Current Resolved		
• Lupus					E	Current Resolved		
Multiple Sclerosis Qualify for AI	study? Y N				E	Current Resolved		
Psoriasis Qualify for AI	111					Current		
Psoriatic Arthritis	otaayi i n	3				Current Resolved	5	
Raynaud's		8			1/2	Current Resolved	2	
Rheumatoid Arthritis Qualify for Al	etudy2 V N							
Juvenile Rheumatoid Arti	KI TOWNS					Current		
Sjogren's						Current		
Ulcerative Colitis						Current		
Other Al Disease		13	4 0			Current	16	
Qualify for Al	study? Y N							
Qualify for Al Al Primary Dx (if applicable)	study? Y N				į	Resolved		

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MOB (person pregnant) Medical Histor			
	Yes No Date Dx	Notes:	
Anxiety		☐ Current ☐ Resolved	
Depression		☐ Current ☐ Resolved	
Other Psychiatric Conditions		☐ Current ☐ Resolved	
Anemia		☐ Current ☐ Resolved	
Asthma Qualify for Asthma study? Y N		☐ Current ☐ Resolved	
☐ Type 1		☐ Current ☐ Resolved	
□Type 2			
Gestational			
Endometriosis/Other Uterine Pathology		☐ Current ☐ Resolved	
Epilepsy		☐ Current ☐ Resolved	
Fibromyalgia		☐ Current ☐ Resolved	
Genetic Disease		☐ Current ☐ Resolved	
Guillain Barre		☐ Current ☐ Resolved	
Heart Disease		☐ Current ☐ Resolved	
Hepatitis/Liver Disease		☐ Current ☐ Resolved	
High Blood Pressure		☐ Current ☐ Resolved	
History Blood Transfusions		☐ Current ☐ Resolved	
Infectious Disease		☐ Current ☐ Resolved	
Infertility		☐ Current ☐ Resolved	
Kidney Disease/Recurrent UTI		☐ Current ☐ Resolved	
Lung Disease		☐ Current ☐ Resolved	
Neurological Conditions		☐ Current ☐ Resolved	
Ovarian Cysts or Uterine Fibroids		☐ Current ☐ Resolved	
Polycystic Ovarian Syndrome (PCOS)		☐ Current ☐ Resolved	
Thyroid Dysfunction		☐ Current ☐ Resolved	
Other		Current	

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	eTrack: 200870	

Case Number	Si.
Primary Group Number	5
Subject's Initials	
Budget Number	
<u>If enrolled in asthma study</u> , remember asthma survey	y monkey
Asthma survey monkey: Completed	

INTAKE DATE:wks GA	20 WK DATE:	32 WK DATE:	OUTCOME DATE:	6 MO POST-PARTUM DATE:
Consented:	Due:	Due:	Due:	Due:
Completed:	Completed:	Completed:	Completed:	Completed:

Case Number										
Prenatal Vitamii	ns*	Yes No Not Asked								
*Record brand and	d actual start date; enter this i	nfo in notes field			ic-		ic.			
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)					8		84		25	1
2.)					6.		G		-	
3.)			75		Ar.		Acc.	i.		o.
Other Vitamins		Yes No Not Asked			**		20	_	-ten	
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	YN	Outcome	Y N
i i			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)								Ç.		c.
2.)			- 3						60	
3.)			3						J.S.	
4.)										
5.)										

Case	Number		

Other Supplem	ents	Yes No Not Ask	ed		ř		T.		ř .	
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	YN	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)			÷ .				15 3		9 5	
2.)										
3.)			ž į				4 2 - 2		X 2	

Birth Control Yes No Not Asked

	Oral Contraceptive	Yes	No
•	Injection	Yes	No
•	Condoms	Yes	No
•	Spermicide	Yes	No
	Diaphram	Yes	No
•	IUD	Yes	No
•	Other	Yes	No

Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
		·								
1.)				4						
2.)										

WWEpi	Dro	ioct	num	har.	DR I	2465
vvvv⊏þi	LIO,	JECL	Hull	inei.	L L/J	2400

Case Number	
-------------	--

Caffeine		Yes No	Not Asked								
Product:	Indication:	Dose:		Intake Y N		20 Week Y N		32 Week Y N		Outcome Y N	
			S	tart	Stop	Start	Stop	Start	Stop	Start	Stop
1.)											
2.)											
3.)											
4.)											
5.)										3	
6.)										2 53 53	

Cigarette Smokii	ng Y	es No	Not Asked	7		~		Ŷ.		Y-1	
Explanation	Indication:		Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
				Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)					8-615		232			3 7	
2.)				6.5		00 0				£2 5	
3.)						(e ÷				£3	

Case Number

Second Hand Si	moke	Yes No	Not Asked	200				9			
Product:	Indication:		Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
				Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)											
2.)				9							
3.)											

Were there any days, even before you knew that you were pregnant, that you had 5 or more drinks of beer, wine or any other kind of alcohol in one day? Yes No Not asked

Were there any weeks, even before you knew that you were pregnant, that you had 6 or more drinks of beer, wine or any other kind of alcohol in one week? Yes No Not asked

Alcohol	Yes	No Not Asked	Non-disease controls (INTAKE ONLY): *Stop interview & tell MOB <u>not</u> qualified if: >5 drinks per week or ≥ 5 drinks in 1 day									
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N		
			Start	Stop	Start	Stop	Start	Stop	Start	Stop		
1.)						K).		44				
2.)						* **		133	1			
3.)			- 3			¥6				5 min 5 min		
4.)								8				
5.)												

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Case Number	
The state of motivations and	-
_	

Street Drugs

Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	YN	Outcome	YN
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)										
2.)										
3.)										

Illness/ER Visits		Yes	No	Not Asked	(For flu-li	ke illness	es, see nex	t section)	25		40	
Explanation:	Indication:				Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
					Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)												
2.)												
3.)												
4.)												
5.)												
6.)												

Case Number Influenza Did you suspect that you had the flu or have you ha	nd a flu-like illness?	,		Yes	. No	Not As	ked		
Explanation:		Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
		Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)									
Did you have: Fever: Yes No Diarrhea: Yes No Headache: Yes No Sore throat: Yes No Cough: Yes No Chills: Yes No	Fatigue/tiredness: Vomiting: Yes 1 Body aches: Yes Stuffy/Runny nose	No No	Were you Did you	see a docto u hospitali have a lab hat was th	zed for th test to te	e flu? Yes st for the j	No		
Were you treated with an Anti-viral med the medication - Doctor, (Tamiflu, Relenza, or Other)? Yes No Other antiviral Name:	Were you given a j (antiviral)? Yes	prescription	Rapid flu PCR	n test st at HCP	Yes Yes Yes Yes Yes Yes	No U No U No U No U	Jnk Po Jnk Po Unk Po	sitive Nositive N	egative legative legative legative legative
F2.0		Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
2.)		Start	Stop	Start	Stop	Start	Stop	Start	Stop
Did you have: Fever: Yes No Diarrhea: Yes No Headache: Yes No Sore throat: Yes No Cough: Yes No Chills: Yes No	Fatigue/tiredness: Vomiting: Yes 1 Body aches: Yes Stuffy/Runny nose	No No	Were you Did you	see a docto u hospitali have a lab	zed for th test to te	e flu? Yes st for the	No		
Were you treated with an Anti-viral med the medication - Doctor, (Tamiflu, Relenza, or Other)? Yes No Other antiviral Name:	Were you given a j (antiviral)? Yes N	prescription	Rapid flu PCR	st at HCP	Yes Yes Yes Yes Yes Yes Yes Yes	No U No U No U No U	Jnk Po Jnk Po Unk Po	sitive N sitive N sitive N	egative legative legative legative legative
Have you had any close/personal contact with anyo	ne (home, work, et	c) diagnosed	with the f	lu? Yes	No	Not As	ked		*
Explanation: If yes, indication how many people and when		Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
9	S	Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)									

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Explanation: If yes, whom? And any diagnosis?	Intake	Y N	20 Week	Y N	32 Week	YN	Outcome	Y N
	Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)								
Any diagnosis? Y N If yes, diagnosis:	*	le s	27	F23	år 68			
2.)								
Any diagnosis? Y N If yes, diagnosis:								
3.)								
Any diagnosis? Y N If yes, diagnosis:	•							

Please probe for details: Did fever break or was it consistent? What was the highest temperature? How long did it stay at that peak temperature? Etc.

Explanation:	Degrees:	Hours/Days:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)										
2.)										
3.)										

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	eTrack: 200870

Case Number				
Autoimmune Medications of Special Interest Pre-Con	ception	oes not have an autoim	nune disease; questions	in this section not asked.
If exposed to MTX, Stelara, CellCept, Leflunomide, or Te	eriflunomide, record de	tails in Prescription M	edication section. Reco	rd actual start date.
Methotrexate (MTX) (within 3 months of LMP)? Yes	No Not Asked			
Stelara (within 3 months of LMP)? Yes No No	t Asked			
CellCept (generic: Mycophenolate Mofetil) (after DOC)?	Yes No Not	Asked		
Leflunomide / Teriflunomide (within 2 yrs of DOC)? Y If Yes, which manufacturer? Apotex Sanofi-Aventis If Yes, did she undergo a washout procedure (Cholest	Barr Par Sandoz	Γeva Other:	.sked	
Leflunomide / Teriflunomide Blood Test Result:	Intake Y N	20 Week Y N	32 Week Y N	Outcome Y N
1.)	Test date:	Test date:	Test date:	Test date:
2.)	Test date:	Test date:	Test date:	Test date:
3)	Test date:	Test date:	Test date:	Test date:

Washout Medications (Cholestyramine, Charcoal)

Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
Record actua	l start date (not LMP date).		Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)										
2.)										
3.)										

Case Number Any fertility drugs within 1 month of LMP? Yes No For fertility drugs, record actual start date (not LMP date)	AI C	ondition_					=	
Exposure within 5 half-lives of LMP to TNF(s) / biologic(s)? Yes No If Yes, record actual start date (not LMP date)	Not App	licable						
Exposed post-LMP to an AI study drug (e.g. biologics, TNFs, etc.) AND/OR ar If Yes, record actual start date (not LMP date)	nother drug	in the san	ne class?	Yes I	No Not	Applicab	le	
Prescription Medication Yes No Not Asked	INTAKE	ONLY: *I					would disqu B <u>not</u> quali	
Product: Indication: Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
	Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)								
Category/Class:					V			
2.)								
Category/Class:		:					in r	
3.)								
Category/Class:	-X3		38		in and a second	è.	82	ē.
4.)								
Category/Class:								

Case Number										
Prescription Me	edication Continued		INTAKE	ONLY: *I	f MOB repo her from the	erts exposur he study, st	re to a medi op interviev	cation that & tell MO	would disqu B <u>not</u> quali	nalify fied
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
5.)										
Category/Class										
6.)										
Category/Class			2.5	in the second	ů.	R63	tr c			
7.)										
Category/Class	ì		*	ia :	3:				()	
8.)										
Category/Class										
9.)										
Category/Class	:		÷l				2			

WWEpi Project number: PRJ2465 eTrack: 200870

Product:	in 3 mos. of LMP and ALL per Indication:	Dose:	Intake	Yes N Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1)						er.				
Determined Bran Source of Vaccine	d of Vaccine: Yes No Pendin e Information:	ng Vaccine Manufa	cturer/Brand			(4)		Lot #		
Vaccine Dose:	Single/Unit Dose Multi-dose	Vial □Unknown	Route of Ad	ministratio	n: 🗆 Intra	muscular	□Intrader	mal Uu	nknown	
Facility/Location/	Physician where administered:			Ph	one/Fax:				MR [HIPA.
12		No MOB unable	to obtain vacci	ne info <u>OR</u>	prefers M	RRF 🗆	Sent email	to MOB	[Date:]
				18		193	16 (6)	1	15 3	
2)										
Determined Bran	d of Vaccine: Yes No Pendin	ng Vaccine Manufa	octurer/Brand_	16	i.	÷		Lot#_		
Determined Bran Source of Vaccine			ncturer/Brand_ — Route of Ad	11 -	on: 🗆 Intra	muscular	□Intrader		nknown	
Determined Bran Source of Vaccine Vaccine Dose:	e Information: Single/Unit Dose	Vial Unknown		ministratio		muscular		mal 🗆 Ui		НГРАА
Determined Bran Source of Vaccine Vaccine Dose:	e Information: Single/Unit Dose	Vial □Unknown	Route of Ad	ministratio	one/Fax:_		□Intrader	mal Du	MR [НІРАА
Determined Bran Source of Vaccine Vaccine Dose: Facility/Location/ Received Vaccine	e Information: Single/Unit Dose	Vial □Unknown	Route of Ad	ministratio	one/Fax:_		□Intrader	mal Du	MR [HIPAA
Determined Bran Source of Vaccine Vaccine Dose: Facility/Location/ Received Vaccine 3) Determined Bran	e Information: Single/Unit Dose	Vial Unknown No MOB unable ng Vaccine Manufa	Route of Ad	ministratio Ph ine info <u>OR</u>	one/Fax:_ prefers M	RRF 🗆	□Intrader	mal Du	MR [НІРАА
Determined Bran Source of Vaccine Vaccine Dose: Facility/Location/ Received Vaccine 3) Determined Bran Source of Vaccine	e Information: Single/Unit Dose	Vial Unknown No MOB unable ng Vaccine Manufa	Route of Ad	ninistratio Ph ine info <u>OR</u>	one/Fax:_ 2 prefers M	RRF 🗆	□Intrader	mal Uu	MR [HIPAA

WWEpi Project number: PRJ2465 eTrack: 200870

Case Number		-		1025200								
Over-the-Counter Medi	ications Yes No	Not Asked	INTAKE ONLY: *If MOB reports exposure to a medication that would disqualify her from the study, stop interview & tell MOB not qualified									
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N		
			Start	Stop	Start	Stop	Start	Stop	Start	Stop		
1.)												
Category/Class:			085		12	74	7			Xr.		
2.)												
Category/Class:												
3.)			42									
Category/Class:									•			
4.)												
Category/Class:				62	20		16	96°2 ×		964		
5.)												
Category/Class:			99		-1							

Case Number		-1									
Over-the-Counter Medi		INTAKE ONLY: *If MOB reports exposure to a medication that would disqualify her from the study, stop interview & tell MOB <u>not</u> qualified									
Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N	
			Start	Stop	Start	Stop	Start	Stop	Start	Stop	
6.)											
Category/Class:					Sir				20		
7.)											
Category/Class:				Ce .	åv 	F63					
8.)											
Category/Class:				e:	3:		3		8	į.	
9.)											
Category/Class:											
10.)											
Category/Class:											

I6N282524_01			•	CONFIDENTIAL						WWEpi Project number: F eTrack			
Case Number			_										
Occupational Exp	osures	Yes	No	Not Asked	-04		4		4		22	<u> </u>	
Product:	Indication:			Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N	
					Start	Stop	Start	Stop	Start	Stop	Start	Stop	
1.)													
2.)													
Environmental		Yes	No	Not Asked	- 25	45	4	ea:	4	300	12	30 st)	
en vii oninentii													
	Indication:			Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N	
	Indication:			Dose:	Intake Start	Y N Stop	20 Week Start	Y N Stop	32 Week Start	Y N Stop	Outcome Start	Y N Stop	
1.)	Indication:			Dose:	48,000,000	A 25 N		1000	A STANDARD				
1.)	Indication:			Dose:	48,000,000	A 25 N		1000	A STANDARD				
	Indication:	Yes	No	Dose:	48,000,000	A 25 N		1000	A STANDARD				
1.)	Indication:	Yes	No		48,000,000	A 25 N		Stop	A STANDARD	Stop			

2.)

Case Number

X-Rays	Yes	No Not Asked	-		1:		T:		10	
	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
-			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)					10				12 :	,
2.)										
3.)										

Hospitalizations (admitted into hospital) Yes No Not Asked

Product:	Indication:	Dose:	Intake	Y N	20 Week	Y N	32 Week	Y N	Outcome	Y N
			Start	Stop	Start	Stop	Start	Stop	Start	Stop
1.)										
2.)										
3.)										

WWEpi Project number: PRJ2465

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	eTrack: 200870	

Case	Number		

INTAKE ONLY: *If MOB reports prenatal diagnosis of malformation (CVS, Amnio, U/S) AND

is NOT in a registry group, stop interview & tell MOB not qualified

Pregnancy Related Tests	(I	NTA	KE	20	WI	EEK	32	W	EEK	ot	TC	OME	Date	Result
CVS *done bin 10-12 wks	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
1 st trimester serum screen * done bov 10-13w6d	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
Nuchal Translucency * Bow 11w2d-14w2d *Data entry under U/S	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
AFP (Quad screen, 2nd trimester screening) *done bov 15-20 wks	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
Amnio	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
NIPT	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
Glucose Tolerance Test	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	#1:	#1: □1hr □2hr □3hr □N1 □Abn1 #2: □1hr □2hr □3hr □N1 □Abn1 otes:
Non-Stress Test	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		
Other	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked	Y	N	Not Asked		

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Case Number													
INTAKE ONLY:		prenatal diagno registry group, s					D						
INTAKE: Y	N Not Asked	20 Week:	Y	N	Not Asked	32 WEEK:	Y	N	Not Asked	OUTCOME:	Y	N	Not Asked

Ultrasound Date	Level	Indication	Results	I	20	32	0
1.	I II Unknown						
2.	I II Unknown						
3.	I II Unknown						
4.	I II Unknown						
5.	I II Unknown					22 33	
6.	I II Unknown					2 3	
7.	I II Unknown						
8.	I II Unknown						
9.	I II Unknown						
10.	I II Unknown					52 53	
11.	I II Unknown					(1) (2)	
12.	I II Unknown						

ONFIDENTIAL WWEpi Project number: PRJ2465 eTrack: 200870

Case Number		

Mom Reported Intake EDC	DB Calculated EDC	Mom Reported 20 Week EDC	Mom Reported 32 Week EDC
		J.	

Trimester ultrasound completed	Ultrasound Accuracy	Change EDC if difference is greater than:		
1	5 - 7 days	7 days from dates by LMP		
2	10 - 14 days	14 days from dates by LMP		
3	21 days	21 days from dates by LMP		

Intake								
Has EDC changed any time in pregnancy Yes No NA								
If yes, when did it change								
For data entry purposes If yes, according to U/S accuracy chart were dates changed in DB?	Yes No NA							

20 Week							
Has EDC changed any time in pregnancy Yes No NA							
If yes, when did it change							
For data entry purposes If yes, according to U/S accuracy chart were dates changed in DB?	Yes No NA						

32 Week			
Has EDC changed any time in pregnancy Yes No NA			
If yes, when did it change			
For data entry purposes			
If yes, according to U/S accuracy chart were dates changed in DB?	Yes	No	NA

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eTrack: 200870

Case Number	

	3	Inta	ke	8		20 Week		8		32 week		0	utcome
Fetal Movement	Yes No	Not Be	egun Not Asked	Yes 1	Vo.	Not Begun	Not Asked	Yes	No	Not Begun	Not Asked		NA
Onset of Fetal Movement	Date:			Date:				Date:				×	NA
Fetal Activity	Active	Not Activ	ve Very Active	Active	1	Not Active	Very Active	Active	N	ot Active	Very Active		NA
Phone / Address Changes		N/A	A		Yes	No	N/A		Yes	No	N/A	Yes	No N/A
CTIS	Ye	s No	N/A	1	Yes	No	N/A		Yes	No	N/A	Yes	No N/A
Depression Scale Survey	Ye	es No	N/A	,	Yes	No	N/A		Yes	No	N/A	Yes	No N/A
AI Enrolled	Ye	s No	N/A		Yes	No	N/A		Yes	No	N/A		N/A
Flu Enrolled	Ye	s No	N/A		Yes	No	N/A		Yes	No	N/A		N/A
Pertussis Enrolled	Ye	s No	N/A	-	Yes	No	N/A		Yes	No	N/A		N/A
Asthma Enrolled	Ye	s No	N/A			N/A				N/A			N/A
Written consent		Sent	N/A	Sea	ıt	Received	N/A	Se	ent	Received	N/A	Sent	Received
HIPAA consent		Sent	N/A	Ser	ıt	Received	N/A	Se	ent	Received	N/A	Sent	Received
Referred to breastfeeding study?	Ye	s No	N/A		Yes	No	N/A		Yes	No	N/A	Yes	No N/A
Interviewer													
DE Date													
DE Initials													
Validated By													
Date Validated													

WWEpi Project number:PRJ2465 eTrack: 200870

Date/Time Contact Attempts:						
Previous Call Date: Call Date: DEL	IVER		JTC(FORMATION	Exam Due Date: Exam Preferences:
OTIS Case Number:						Primary Group:
Subject's Initials:						Budget Number:
PREGNANCY & DELIVERY						
Pre-term Labor (before 37 weeks)	Yes	No	DK	NA		Date Dx
Preeclampsia / Toxemia (PIH, protein in the urine, swelling)						
PIH (Pregnancy Induced Hypertension)						
Group B Strep						
Maternal Fever (at delivery)						
Placenta Previa (placenta blocking the birth canal, at delivery)						
Placenta Abruptio (placenta detached before baby was born)						
Excessive Bleeding/Hemorrhage (Dx by Dr)						
→ Diabetes: Yes No		es": Gestatio	onal		(Date Dx:	
→ Other: Yes* No		Type II			(Date Dx:	
Explanation* / Notes:						
→ Maternal Weight Gain for Pregnancy:				(lbs)	Notes:	

Revised 9/21/2011

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				Cas	se Number:		
BIRTH INFORMATION	N → Single	е	→ Multiple (i	ŧ)		
Liveborn		_	SAB		(with	Mole	
Stillborn			Ectopic			TAB	
Galloon			Lotopio			17.0	
Baby's Name:				DOB		Male	Female
Apgars:	*	Birth) Weight:	Birth	Length:	OFC:	
1 min:	5 min:		lbso	z	in	13	cm or in
DELIVERY DETAILS	**	1				d	
Vaginal:	C-Section:	Presen	tation:	Force	eps:	Vacuum:	
Yes No	Yes* No	Vertex	Breech Transvers	e Y	'es No	Yes	No
→ *if C-Section"	10 (0.0	Reason for o	Elective		Had labor started performed?	when the c/s wa	s
	Repeat		Emergen Repeat	-у	Yes	No	
NEWBORN COMPLIC	PATIONS (seediment						
NEWBORN COMPLIC	ATIONS (continued	Yes No	DK NA		Dates Dx/	'Resolved	
Jaundice			110				
Meconium Aspirati (did the baby inhale m	ion neconium)						
 Transient Tachypr (temporary, rapid, sha 	nea illow breath)						
Bradycardia (pulse rate too slow)	÷						
Cyanosis (blue skin)	×						
	3						

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Case Number:

NEWBORN COMPLICATIONS (continued)	1				
	Yes	No	DK	NA Dates Dx/Res	olved
Respiratory Problems/Difficulty					
Cord Gases Taken					
Resuscitated					
Hypoglycemia (low blood sugar)	2 3				
Jitteriness	8 8				
Hypotonia (floppy muscles)					
Hypertonia (excessive muscle tone)					
Temperature Regulation Problems	84 46				
Other neonatal complications (i.e. abnormal lab test, tachycardia, etc.)					
Dx Abnormalities / Birth Defects Who diagnosed? What details were you given / what did they tell you? Was/is surgery required? If yes to 4, what type of hcp will be following? Let supervisor know & enter in "MALFS" tab (check "Follow up on Malf" box; write details in "Malf Notes") Malf Notes") Malf Notes") If yes to 4, what type of hcp will be following? Let supervisor know & enter in "MALFS" tab (check "Follow up on Malf" box; write details in "Malf Notes") Malf Notes") Malf SAE (i.e. malformation) has already been reported prenatally & the same SAE is pending an outcome update, please update the supervisor on diagnosis once outcome has been collected.					
Other.					
*** TO SEE THE PROPERTY OF THE	Yes Yes		lo lo	*if "Yes", Reason/# days: *if "Yes", Reason/# days:	
→ Breastfeeding: Yes N Length of time:	ю			*if "Yes", exclusively for 2 weeks?	Yes No
Completed pregnancy diary? Yes ! Revised 9/21/2011	No		W	hich is more accurate? Diary Interview	3

WWEpi Project number: PRJ2465 eTrack: 200870

MTB Pregnancy Studies | MOB Allergist (Asthma) Abstraction Form | Version 12 | 9Oct2015

WWEpi Project number: PRJ2465 eTrack: 200870

		Pregnancy ID	#		
Allergist	for MOB Medical Record Abstraction Form	Group	#		
		PPD	Provider?	Yes 🗆	No
		If yes, date HIPAA	signed by MOB:		
Asthma D	iagnosis	Secure Communication (Secure Communication)	I A TO A SECURE A PROPERTY OF		
Diagnosed	? □ Yes □ No Date of Diagnosis;	Agrees with MOB report?	☐ Yes ☐ No		
Notes:					
Unschedu	led Clinic Visits for increased asthma symptoms			726 10	-4
Date	Notes (including changes or additions to medications)				es with report?
				Y	2002
,				Y	N
i e				Y	N
ER Visits	for increased asthma symptoms				
	The state of the s				es with
Date	Notes (including changes or additions to medications)				report?
				Y	- 255
				Y	N
				Y	N
Hospitaliz	ations for increased asthma symptoms				
Date	Notes (including changes or additions to medications)				es with report?
3	AND WELL THOUSE SECTION TO A DECEMBER OF THE SECTION OF THE SECTIO			Y	N
				Y	N
2				Y	N
				Form Col	or: Purple

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WWEpi Project number: PRJ2465 eTrack: 200870

								Pregnancy II	D#	
Obstetrician	Medical Rec	ord Abstra	ction For	n					Group	#
OB History (GP_	s _	T_							
Mand No.	ar Outcome	CA	Birth	IUGR?	Pre-	01: 1 12	D 1.1. 12		cause; TAB-personal re	
1 st	ar Outcome	GA	Detect!	IUGK!	eclampsia!	Oligohyd?	Polyhyd?	medical; if GA not note	d, indicate whether pret	erin; etc.
2nd										
3rd										
4th										
5 th										
6 th *										
*If more th	an δ prior pre	gnancies, li	ist addition	al pregnanc	ies on a separ	ate sheet.				
Maternal Heigh	t and Weigh	t			_					
Height:			? Y	N						
Pre-Preg Wt:	on	date	Fina	l Preg Wt:	01	1date	Wt	Gain:	Consistent w/MOE	3? Y N
Assisted Repr	oductive Tec					acre				
Contract to the contract to th	IVF ICS		icial Insem	Fertili	ity Rx D	onor Egg/S	perm (Other	Consistent w/	MOB? Y N
Pregnancy De	ntes									
Final EDC per			Determined	d on	base	d on L	MP U	/S:date of U/S	Other:	
EDC MOD	(C] (1)				termined	OB			S(i-)	Diamont
		orm):	-	EDC in d	.b:	ОВ	oc do are:	0-3d diff (term)	Same (premie)	Discrepant
If discrepancy,	explain:									
General Note:	s:									40

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Medical Record Abstraction Form: Delivery/Birth Information

Date records received: Date records received: Date records received: Agree MOI	
Agree MOI Vaginal C/S 1° Rpt NN* NN CY Intation: Vtx Breech Other NN CY None Induced Spontaneous NN If spontaneous, augmented? Cyes No NN Or if labor was Induced or Augmented, reason(s): peat C/S CY Arrest of Descent Arrest of Dilation Arrest of Labor CY Ital Malpresentation CY Ital Malpresentation CY One Cyes Cy	
Vaginal C/S 1° Rpt NN* NN Y Intation: Vtx Breech Other NN Y Intation: Forceps Vacuum Neither NN Y Interest of Membranes: SROM AROM NN If spontaneous, augmented? Yes No NN If spontaneous, augmented? Yes No NN If or if labor was Induced or Augmented, reason(s): Interest of Descent Arrest of Dilation Arrest of Labor Y CPD NN Other: Interest of Labor Interest of Lab	
mtation: □Vtx □Breech □Other □ NN □Y □ vention: □ Forceps □ Vacuum □ Neither □ NN □Y □ vention: □ Forceps □ Vacuum □ Neither □ NN □Y □ vention: □ Forceps □ Vacuum □ Neither □ NN □Y □ vention: □ SROM □ AROM □ NN If spontaneous, augmented? □Yes □No □NN if spontaneous, augmented? □Yes □No □NN if or if labor was Induced or Augmented, reason(s): peat C/S □ □Y □ Arrest of Descent □ Arrest of Dilation □ Arrest of Labor □ □Y □ CPD □ NN □ Other: □ tal Malpresentation □ □Y □	
The of Membranes: □ SROM □ AROM □ NN SROM □ AROM □ NN SROM □ AROM □ NN SROM □ Spontaneous □ NN If spontaneous, augmented? □ Yes □ No □ NN If spontaneous, augmented? □ Yes □ No □ NN SROM □ Areas on(s): SROM □ AROM □ NN Or if labor was Induced or Augmented, reason(s): SROM □ NN Or if labor was Induced or Augmented, reason(s): SROM □ NN Or if labor was Induced or Augmented, reason(s): SROM □ NN Or if labor was Induced or Augmented, reason(s): SROM □ NN Or if labor was Induced □ Augmented, reason(s): SROM □ NN Or if labor was Induced □ Augmented, reason(s): Or if labor □ Augmented, reason(s): Or	
re of Membranes: □ SROM □ AROM □ NN T: □ None □ Induced □ Spontaneous □ NN If spontaneous, augmented? □ Yes □ No □ NN If or if labor was Induced or Augmented, reason(s): peat C/S Ulure to Progress → □ Y Arrest of Descent □ Arrest of Dilation □ Arrest of Labor □ Y TOPD □ NN □ Other: tal Malpresentation □ Y	
T: □ None □ Induced □ Spontaneous □ NN If spontaneous, augmented? □ Yes □ No □ NN If or if labor was Induced or Augmented, reason(s): peat C/S Peat C/S Parrest of Progress → □ Y □ Parrest of Descent □ Arrest of Dilation □ Arrest of Labor □ Y □ CPD □ NN □ Other: □ Y □ Tal Malpresentation □ Y □	□N
If spontaneous, augmented? □Yes □No □NN If or if labor was Induced or Augmented, reason(s): peat C/S ☐Y ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	□N
peat C/S □Y □ Arrest of Descent □Arrest of Dilation □Arrest of Labor CPD □NN □ Other: tal Malpresentation □Y □	□N
peat C/S □Y □ Clure to Progress → □Y □ Arrest of Descent □Arrest of Dilation □Arrest of Labor □Y □ CPD □NN □ Other: tal Malpresentation □Y □	□N
Libure to Progress → □Y (Arrest of Descent □Arrest of Dilation □Arrest of Labor □Y (CPD □NN □ Other: □ tal Malpresentation □Y (□N
Arrest of Descent	□N
CPD □NN □ Other:	
tal Malpresentation	922
	37.1
DESCRIPTION OF THE PROPERTY OF	□N
n-Reassuring Fetal Status:	□N
GR. □Y !	ΠN
egnancy-Related Condition:	ΠN
-Existing Maternal Condition: □Y	ΠN
altiples	ΠN
n-Medical Reason:	ΠN
emature Rupture of Membranes	□N
st-Term (GA ≥ 42 weeks)	ΠN
her: 🖂 🖂 Y 1	ΠN
1	
	- 1
	egnancy-Related Condition: □Y □-Existing Maternal Condition: □ □Y □ □ □ □ □ □ □ □ □ □

MTB Pregnancy Studies | Delivery Abstraction Form | Version 14 | 09Oct2015

Medical Record Abstraction Form: Pediatrician - 0-6 Months

PPD Provider? □ Ye	es 🗆 No Pregnancy ID
f yes, date Baby HIPAA signed by MOB:	Group Code:
	Date records received:
Leasurements	
Sirth	Interval Growth (preferably between 3 and 6 mos)
OOB: Apgars lmin: 5 min:	Visit Date:
Veight: □ gm □ lb/oz	Weight: □ gm. □ lb/oz
Jeight: □ cm □ in	Height: □ cm □ in
Birth DOB: Apgars lmin: 5 min: Weight: cm lb/oz Height: cm in DFC: cm in	OFC: □ cm □ in
Validation of Feeding Method	**
Breastfeeding □ Yes □ No □ Not Noted	
exclusive breastfeeding for the first two weeks?	□ No □ Not Noted
upplementation/Formula Feeding? Yes No 1	
사료로 1864년에 B. 2012년 전 1982년 전 - 1982년 전 1982	
eeding Notes, including when supplementation started, ho	w much now often.
Name and the second second	EN ALCOHOL
Potential Malformations	□ Not Noted
nclude physical details, date first noted, date diagnosed, te	est results, referrals, planned follow-up, etc.
30	100
Malignancy Include dates, biopsy information and other t	test results, specialist who made the dx.
MTB Pregnancy Studies Peds 0-6 months Abstraction Form Vo	ersion 14 9Oct2015 Form Color: Yellow Page 1 o

Medical Record Abstraction Form: Pediatrician - Yearly Records

PD		Provider? □ Yes □ No	Pregnancy ID _		
If yes, date Baby H	IIPAA signed b	y MOB:	Group Code:		
			Date records re	ceived:	
Baby's DOB:		MR through age: □1 yr	□2 уг □3 уг	□ 4 yr □	l 5 yr
Measurements Rec	cord annual med	asurements; <mark>if e</mark> arlier <mark>d</mark> ata were n	ot previously recor	ded, include th	nose also.
Date:	Wt:	□gm □lb/oz Ht:	□cm □in	OFC:	_ □cm □in
Date:	Wt:	□gm □lb/oz Ht:	□cm □in	OFC:	_ □cm □in
Validation of Feed	ing Method <i>If i</i>	not captured from earlier records	s. Previou	sly abstracted	□ Not Noted
Breastfeeding 🗆 🗅			first 2 weeks?	Yes □ No	☐ Not Noted
		S No Not Noted		111	
Feeding Notes, incli	uding when supp	plementation started, how much/h	low often:		
100					
Potential Malform	ations				☐ Not Note
THE RESERVE OF THE PERSON OF T	The state of the s	oted, date diagnosed, test results,	veferrals planned	follow un ate	
T SAPER				on with a	
Hospitalizations <i>I</i> 1	nclude date rang	ge of hospitalizations, reasons, an	d other relevant de	tails.	□ Not Note
Hospitalizations <i>I</i>	nclude date rang	e of hospitalizations, reasons, an	d other relevant de	tails.	□ Not Note
Hospitalizations <i>I</i> 1	nclude date rang	e of hospitalizations, reasons, an	d other relevant des	tails.	□ Not Note

Form Color: Gold

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