# NVPO Definitions Project DATA COLLECTION v0.9 (10FEB2018) LOW BIRTH WEIGHT (LBW)

		ADMINSTRATIVE INFORMATION					
In	itials of person po	erforming the review:					
Outcome code:		LBW					
Country code:		US, AU, UK:					
Si	te code:	BC, CC, EM, UW, MO, SG, SU:					
Oı	rigin code	CT=clinical trial MR= medical record:					
Su	ıbject ID number	LBW Country Site Origin Number (starting with 01)					
		10/MEDDRA code was used to identify the chart as a case of LBW:  tion log):					
_		COMMON VARIABLES					
1.	If clinical trial (ti	ck and list study drug/vaccine):					
	□ Vacci	ne					
	□ Drug	<del></del>					
	□ Epide	emiologic					
	☐ Other	r					
2.	Year of event:	(full year)					
3.	General pregnar	ncy variables					
	a. Mate	rnal Age (years)					
		_ (number)					
	b. Race	(tick one)					
	П	Black					

	Asian Other icity (tick one) Hispanic
Ethn	icity (tick one)
	Hispanic
	Not Hispanic
	Native Population
	Other
Infar	nt gender (tick one)
	Male
	Female
Mod	e of delivery (tick one)
	Vaginal
	C-section:
	Other:
Singl	eton pregnancy (tick one)
	Yes
	No
Parit	y (fill 1-4 each with full number)
1. P	rior Term Pregnancies (number)
2. F	rior Preterm Pregnancies (<37 wk) (number)
3. A	bortions/miscarriage (<20 wk) (number)
<b>4.</b> E	orn Alive (number)
	GESTATIONAL AGE ASSESSMENT
_	tional age (from chart) per: weeks/days)
	Infar

JS			
	-	•	•
Recorded	NOT	Incomplete/	Comments/Issues
	recorded	uncertain	
	П	П	
	neonatal recolly if available  Recorded	neonatal record (includingly if available in neonatal recorded  Recorded NOT recorded	Recorded NOT Incomplete/ recorded uncertain

	Reason		_		
	CASE DEFINITION SPECI	FIC VAR	RIABLE	2S	
<b>8.</b>	Recorded infant birth weight (earliest at birth)				
	(in grams)				
9. El	ements of the LBW case definition in clinical or st	tudy reco	ord (plea	se tick each lir	ne):
	Parameter	Eviden			r Study Manual
			of p	rocedures /Prot	tocol
		Yes	No	Uncertain	Comments
a.	Newborn 0 to 28 days				
b.	Birth weight recorded as < 2500 g				
C.	Weight recorded in the first 24 hr of birth				
d.	Weight measured in the first 48 hr of life (day 1 or 2)				
e.	Electronic scale used				
f.	Electronic scale graduated to 10 gr				
g.	Electronic scale calibrated at least once a year				
h.	Electronic scale placed on a level, hard surface				
i.	Scale tared to zero gr				
j.	BW assessed as per health care facilities SOP which fulfills: NB weight within 24 hrs of birth + use of electronic scale which is graduated to 10 g + scale is calibrated at least once a year + scale is placed on a level, hard surface + scale tared to 0 grams.				
k.	Used spring scale				
	Flactronic or enring scale graduated to at least 50			П	

b. If unable to assign GA LOC, describe the reason(s):

	Electronic or spring scale is calibrated at least once a year, or more often if moved	<b>:</b> 🗆			
	Electronic or spring scale is tared to zero gr or 0.00 Kg				
0.	BW assessed as per health care facilities SOP which fulfills: NB weight within 24 hrs of birth + use of electronic or spring scale graduated to at least 50 g + scale is calibrated at least once a year - scale tared to 0 gr or 0.00 Kg	<b>+</b>			
	ed dial or color coded scale				
Q. Pr	oxy measure of weight used				
r. Pr	oxy used was: Chest circumference				
s. Pro	oxy used was: Foot length				
t. Pro	oxy used was Mid upper arm circumference				
	oxy used was: Difference between adult weight and without newborn in arms				
10.	QUALITY ASSESSMENT C			nition Checklist in	
	Case abstractor's best assessment of LOC for Lopendix 1):		Case Defi		
	Case abstractor's best assessment of LOC for Lopendix 1):	<b>BW is (Use C</b> 1,2,3,4,5 or l	Case Defi		
	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (	<b>BW is (Use C</b> 1,2,3,4,5 or l	Case Defi		
	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (  b. If unable to assign LOC, describe the reason	<b>BW is (Use C</b> 1,2,3,4,5 or l on(s):	Case Defi	to assess)	
aţ	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (  b. If unable to assign LOC, describe the reason  Reason  PI's assessment of LOC for LBW (Use Case Describe)	<b>BW is (Use C</b> 1,2,3,4,5 or l on(s):	Case Defi	to assess)	
aţ	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (  b. If unable to assign LOC, describe the reason  Reason  PI's assessment of LOC for LBW (Use Case Describe)	BW is (Use Control on (s):	Case Defi	to assess)	
aţ	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (  b. If unable to assign LOC, describe the reason  Pl's assessment of LOC for LBW (Use Case Definition of LOC) are Level of certainty (	### 1,2,3,4,5 or lon(s):  ###################################	Case Defi	to assess)	
aţ	Case abstractor's best assessment of LOC for Lopendix 1):  a. Level of certainty (  b. If unable to assign LOC, describe the reason  PI's assessment of LOC for LBW (Use Case Definition of Loc for LBW)  a. Level of certainty (  b. If unable to assign LOC, describe the reason	### 1,2,3,4,5 or lon(s):  ###################################	Case Defi	to assess)	

# Appendix 1: Low Birth Weight (LBW) Case definition Guide for LOC assignment for LBW (check all that are present)

'Low birth weight' (LBW) has been defined as first weight recorded within hours of birth of <2500 g. Very low birth weight (VLBW) is accepted as <1500 g and extremely low birth weight (ELBW) is <1000 g.

The LBW working group decided to restrict 'birth weight' to a weight measured in the first 48 h of life. In the absence of a weight measured within the first 48 h of life, a weight measured during the first week of life, could be classified as an 'early neonatal weight' but not 'birth weight'.

#### Case definition of low birth weight

Level 1 of diagnostic certainty
$\hspace{0.1cm}\square$ $\hspace{0.1cm}1.$ Newborn infant weighed within 24 h of birth AND
$\Box$ 2. Use electronic scale which is graduated to 10 g AND
$\square$ 3. Scale is calibrated at least once a year AND
□ 4. Scale placed on level, hard surface AND
□ 5. Scale tared to zero grams AND
$\Box$ 6. Weight recorded as <2500 g
OR
$\Box$ $6$ . Birth weight recorded as <2500 g AND
$\qed$ Birth weight assessed as per health care facility's standard operating procedure, which fulfill
criteria 1 to 5 of LOC1
Level 2 of diagnostic certainty
□ 1. Newborn infant weighed within 24 h of birth AND
□ 2. Scale (electronic/spring) is graduated to at least 50 g AND
$\Box$ 3. Scale is calibrated at least once a year, or more often if moved AND
□ 4. Scale tared to zero grams or 0.00 kg AND
□ 5. Weight recorded as <2500 g
OR
□ 5. Birth weight recorded as <2500 g AND
$\square$ Birth weight assessed as per health care facility's standard operating procedure, which fulfill
criteria 1 to 4 of LOC2
*Scale used: could be electronic or spring scale, including color coded scale.
Level 3 of diagnostic certainty
□ 1. Newborn infant weighed on day 1 or 2 of life (first 48 h of life) AND
□ 2. Weight measured using dial/spring/color-coded scale AND
□ 3. Weight assessed as <2500 g

## Level 4 of diagnostic certainty

□ 1. Newborn infant 'weight' assessed on day 1 or 2 of life (first 48 h of life) AND
□ 2. Proxy measure of birth weight used AND
□ 3. Weight CATEGORY assessed as <2500 g
Proxy measures:
□ Newborn foot length
□ Chest circumference
□ Mid upper arm circumference
□ Difference between adult weight with and without newborn in arms

#### Appendix 2: Gestational Age Assessment Guide

#### **Definitions of terms used:**

**Intrauterine insemination (IUI)** – A procedure in which a fine catheter is inserted through the cervix into the uterus to deposit a sperm sample directly into the uterus, to achieve fertilization and pregnancy.

**Embryo transfer** – The procedure in which one or more embryos are placed in the uterus or fallopian tube.

#### Ultrasound (U/S):

- 1st trimester (< 13 6/7 weeks).
- 2nd trimester scan (14 0/7-27 6/7 weeks).
- 3rd trimester (280/7 + weeks).

**LMP** (last menstrual period) – GA is calculated from the first day of the mother's LMP. If LMP and U/S do not correlate, default to U/S GA assessment.

\*Certain LMP: (LMP date + 280 days): Use LMP if within 7 days at < 14 weeks; within 14 days at <26 weeks; within 21 days beyond 26 weeks.

\*Uncertain LMP – first trimester (<13 6/7 weeks by LMP): Use the approximate date of the last menstrual period (LMP) if corroborated by physical exam, or a first trimester ultrasound. If there is a discrepancy of >7 days between the LMP and the first trimester ultrasound, the ultrasound-established dates will take preference over LMP for gestational age dating.

\*Uncertain LMP – second trimester (14 0/7–27 6/7 weeks by LMP): Use the approximate date of the LMP if corroborated by physical exam including fundal height, or a second trimester ultrasound. If there is a discrepancy of >10 days between the LMP and the second trimester ultrasound, the ultrasound-established dates will take preference over LMP for GA dating.

\*Uncertain LMP - third trimester >28 weeks - third trimester ultrasound.

\*No LMP date: If menstrual dates are unknown, the ultrasound established dates will be used for gestational age dating or 2nd trimester fundal height and/or newborn physical examination.

**Pregnancy symptoms** – nausea, fatigue, tender swollen breasts, frequent urination.

**Antenatal Physical Examination**— pelvic bimanual examination confirming enlarged uterus.

**Newborn Physical Examination** – New Ballard Score – physical and neurological assessment.

Fundal Height (FH) in cm

Birth Weight (BW) in grams

### **GA Levels of Certainty (check all that are present)**

Level 1
$\Box$ 1. Certain LMP* or intrauterine insemination (IUI) date or embryo transfer (ET) date with confirmatory 1st trimester scan ( $\leq$ 13 6/7 weeks).
OR
□ 2. 1st trimester scan (<13 6/7 weeks).
Level 2A
$\hfill\Box$ 1. Certain LMP* with 2nd trimester scan (14 0/7 weeks to 27 6/7 weeks). If LMP and U/S do not correlate, default to U/S GA assessment.
OR
□ 2. Certain LMP* with 1st trimester physical examination.
Level 2B
$\ \square$ Uncertain LMP with 2nd trimester scan (14 0/7 weeks to 27 6/7 weeks).
Level 3A
□ 1. Certain LMP with 3rd trimester scan − 28 0/7 weeks +.
OR
□ 2. Certain LMP with confirmatory 2nd trimester FH.
OR
□ 3. Certain LMP with birth weight.
OR
□ 4. Uncertain LMP with 1st trimester physical examination.
Level 3B
□ 1. Uncertain LMP with FH.
OR
□ 2. Uncertain LMP with newborn physical assessment.
OR
□ 3. Uncertain LMP with Birth weight.