

MATERNAL ANTENATAL CARE - (MAC)



Neonate's Identification Code : _

Introduction

This standardized Case Report Form (CRF) is the result of an ongoing effort between the World Health Organization (WHO), The Pan-American Health Organization (PAHO), Institute Pasteur (IP), and the networks of ISARIC, CONSISE PREPARE and REACTing to generate standardized clinical and epidemiological research tools.

DESIGN OF THIS CASE REPORT FORM (CRF)

There are two sets of Case Report Form (CRF) to be used - Neonate and Maternal. The CRFs are to be used in combination for prospective cohort studies or case control studies.

These sets of CRFs are to be used at admission and at discharge/going home. For any patients admitted for more than 24 hours, the Baseline and Outcome CRF and the Laboratory Results CRF can be copied and used for daily data recording.

For all studies, we recommend completing a minimum of the Maternal Baseline and Outcome (MBO) and Neonate Baseline and Outcome (NBO) CRFs, follow by Maternal Laboratory Results (MLR) and Neonate Laboratory Results (NLR) CRFs for all neonates post-delivery. If the mother and/or neonate is admitted to an Intensive Care Unit or Pediatric Intensive Care Unit, complete Maternal Intensive Care (MIC), and/or Neonate Intensive Care (NIC) as well.

For pregnant women presenting with acute symptoms, complete Maternal Acute Symptoms (MAS), and for all studies complete Maternal Antenatal Care (MAC).

Complete the outcomes sections in CRFs MBO and NBO once all diagnostics laboratory results and final diagnosis are available.

HOW TO USE THIS CRF

When completing the CRF modules, please make sure that:

- The mother or consultee/guardian/representative has been given information about the study and the informed consent form has been completed and signed.
- The study ID codes have been assigned for both mother/pregnant woman and neonate as per hospital protocol and guidelines.
- The study ID codes should be filled in on all pages of paper CRF forms, all information should be kept confidential at all times, and no identifiable information is recorded on the CRFs.
- Patients' hospital ID and contact details are recorded on a separate contact list to allow later follow up. The contact forms must be kept separate from the CRFs at all times and kept in a secure location.

Each site may choose which data to collect based on available resources and the number of patients enrolled to date. Ideally, data on patients (neonate and mother) will be collected using all CRF modules as appropriate.

Sites with very low resources or very high patient numbers may select **Maternal and Neonatal Baseline and Outcome** CRF modules. The decision is up to the Site Investigators and may be changed throughout the data collection period. All high quality data is valuable for analysis.

GENERAL GUIDANCE

- The CRFs are designed to collect data obtained through patient examination, through parent/guardian/representative (for neonates) interview and review of hospital notes.
- Patient ID codes should be filled in on all pages of paper CRF forms (neonate and mother).
- Complete every line of every section, except for where the instructions say to skip a section based on certain responses.
- Selections with square boxes (\Box) are single selection answers (choose one answer only). Selections with circles (\circ) are multiple selection answers (choose as many answers as are applicable).

• It is important to indicate when the answer to a particular question is not known. Please mark the 'Unknown' box if this is the case.

• Some sections have open areas where you can write additional information. To permit standardized data entry, please avoid writing additional information outside of these areas.

- We recommend writing clearly in black or blue ink, using BLOCK-CAPITAL LETTERS.
- Place an (X) when you choose the corresponding answer. To make corrections, strike through (----) the data you wish to delete and write the correct data above it. Please initial and date all corrections.

ZIKV CRF Maternal Antenatal Care v6.1 05DEC2016





MATERNAL ANTENATAL CARE – (MAC)

Mother's Identification Code :

Neonate's Identification Code : _

- Please keep all of the sheets for each study subject together e.g. with a staple or in a folder that is unique to the patient.
 - Please contact us if we can help with any CRF completion questions, if you have comments and to let us know that you are using the forms. Please contact Dr Gail Carson by email: <u>gail.carson@ndm.ox.ac.uk</u>

Disclaimer: These CRFs are intended for use as a standardized document for the collection of clinical data in studies investigating the Zika virus. Responsibility for use of these CRFs rests with the study investigators. ISARIC and the authors of the CRF accept no responsibility for the use of the CRF in an amended format nor for the use of the standardized CRF outside its intended purpose. Formatting issues are in the process of being resolved. Word documents are available in order to adapt and translate the CRFs, however, there may be issues between Macs and PCs. The PDF format is also available, which should be well formatted on both systems.

1. Name of site/clinic/hospital		
2. Geoposition	Latitude:	_ Longitude
If geoposition not available:		
3. City/town/village		
4. Country:		

1) ANTENATAL /PRENATAL CARE

5. Mother's blood group and Rhesus status		□Rhesus positive □Rhesus negative □Unknown			
6. Mother's last					
menstrual period	//20	│ □Certain □Uncertain □L	Inknown		
(dd/mm/yyyy)	/ / 20		JIKHOWH		
	1 st Trimester Ultrasound (<14 weeks' gestation)				
-	e :				
7. 1 st Trimester	□Yes □Not done	8. Date of scan	//20		
Ultrasound	□Unknown	(dd/mm/yyyy)			
9. Gestational age at		10. Basis of gestational	□Last menstrual period		
time of ultrasound scan	weeks days	age estimation at time	□Ultrasound		
	🗆 Unknown	of ultrasound scan	□Assisted reproduction		
			□ Other(specify):		
11. Is the report and/or	Report □Yes □No				
images attached?	Images □Yes □No				
1 st Trimester Ultrasound	results				
12. Fetal cardiac activity	Detected	13. Crown-rump length	mm		
	□Not detected	(CRL)	🗆 Not Done		
	□Not investigated		□Unknown		
14. Biparietal diameter	mm	15. Nuchal translucency	mm		
(BPD)	🗆 Not Done		🗆 Not Done		
	□Unknown		□Unknown		
16. Down's syndrome	□Low-risk	17. If high-risk, please	Tests		
screening	□High-risk	specify:			
	□Not Done		Results		
	□Unknown				
18. Anomalies identified	□Yes □No □Unknown				

ISARIC	ZIKA VIRUS CASE REPORT FORMS – MATERNAL ANTENATAL CARE – (MAC)					
Mother's Identification Cod	le : Neonate's	Identification Code :				
If anomalies/ abnormalities were detected; please tick all that apply:	 Holoprosencephaly Anencephaly Encephalocele Spina bifida Exomphalos Gastroschisis Megacystis Cardiac abnormality 	Limb abnormality: ☐Yes ☐No (if yes, specify): Skeletal abnormality: ☐Yes ☐No (if yes, specify): Other: ☐Yes ☐No (if yes, specify):				
19. Any other significant findings	□Yes □No	If yes, please specify/describe:				

2 nd Trimester Ultrasound	(14-24 weeks' gestation)				
20. Fetal movements	□Normal □Reduced □Increased □Unknown				
21. 2 rd Trimester	YesNot done22. Date of scan				
Ultrasound	□Unknown	(d	ld/mm/yyyy)	//20	
23. Gestational age at		24. Basis	of gestational	□Last menstrual period	
time of ultrasound scan	weeks days	age estin	nation at time of	Ultrasound	
	□Unknown	ultrasou	nd scan	□Assisted reproduction	
				□Symphyseal-fundal height	
				□Other (specify):	
25. Is the report and/or	Report □Yes □No				
images attached?	Images □Yes □No				
2 nd Trimester Ultrasound	results				
26. Head circumference	mm	-	ietal diameter	mm	
(HC)	□ Not Done □Unknown	(BPD)		□ Not Done □Unknown	
28. How was BPD	Outer-to-outer	29. Abdo	-	mm	
measured:	Outer-to-inner	circumtei	rence (AC)	□ Not Done □Unknown	
	Unknown	24 -			
30. Trans cerebellar	mm	31. Femu	r length (FL)	mm	
diameter (TCD)	□ Not Done □Unknown			□ Not Done □Unknown	
32. Were any cerebral	□ Yes	If yes, sp	ecify/describe:		
anomalies detected	□ No				
(e.g. calcification or	Unknown				
ventriculomegaly)?		16			
33. Were any cerebellar anomalies detected	□ Yes	n yes, spo	ecify/describe:		
(e.g. reduced size or	□ No				
calcification)?	🛛 Unknown				
34. If other anomalies	Head 01	∕es ○No	Bladder	o Yes o No	
were detected, please		es o No		onormality o Yes o No	
tick all that apply:		es o No	(after amniocen	•	
		'es o No	Limbs	o Yes o No	
		′es ○No	Lungs/Pleura	o Yes o No	

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MATERNAL ANTENATAL CARE – (MAC)

Mother's Identification Code : _____ Neonate's Identification Code : _____

	Heart	∘Yes ∘No	Kidneys	oYes oNo
	Anterior abdominal wall	o Yes o No	Genitalia	oYes oNo
	Gastro-intestinal	o Yes ⊙ No	Two vessel cord	oYes oNo
			Other	□Yes □No
35. Amniotic volume	□Normal □Po	lyhydramnios		
	□Oligohydramnios □A	nhydramnios	□Unknown	

3 rd Trimester Ultrasound	3 rd Trimester Ultrasound (>24 weeks' gestation)				
36. Fetal movements	36. Fetal movements Ormal Reduced Increased Unknown				
37. 3 rd Trimester	□Yes □Not done		38. Dat	e of scan	
Ultrasound	□Unknown		(dd/mm	n/yyyy)	/ / 20
39. Gestational age at			40. Basi	is of gestational	□Last menstrual period
time of ultrasound scan	weeks days		age esti	mation at time	Ultrasound
	🛛 Unknown		of ultra	sound scan	□Assisted reproduction
					□Symphyseal-fundal height
					□Other
					(specify):
41. Is the report and/or	Report □Yes □No				
images attached?	Images □Yes □No				
3 rd Trimester Ultrasound	results				
42. Head circumference	mm		43. Bipa		mm
(HC)	🗆 Not Done 🗆 Unknown		diamete	er (BPD)	□ Not Done □Unknown
	_				
44. How was BPD	Outer-to-outer		45. Abd		mm
measured:	Outer-to-inner		circumf	erence (AC)	□ Not Done □Unknown
	🗆 Unknown				
46. Trans cerebellar			47. Fem	ur length (FL)	mm
diameter (TCD)	Not Done Unknown				□ Not Done □Unknown
48. Were any cerebral	□Yes		If yes, s	pecify/describe:	
anomalies detected	□No				
(e.g. calcification or	□Unknown				
ventriculomegaly)?					
49. Were any cerebellar	□Yes		If yes, s	pecify/describe:	
anomalies detected	□No				
(e.g. reduced size or calcification)?	□Unknown				
50. If other anomalies	Head	OVe	es oNo	Bladder	oYes oNo
were detected, please	Brain		es ono		abnormality OYes ONo
tick all that apply:	Face		es oNo	(after amniocer	
	Neck		s oNo	Limbs	OYes ONo
	Spine		s oNo	Lungs/Pleura	oYes ONo
	Heart		es oNo	Kidneys	oYes ONo
	Anterior abdominal wall		es oNo	Genitalia	oYes oNo
	Gastro-intestinal		es oNo	Two vessel cord	
		-		Other	□Yes □No



MATERNAL ANTENATAL CARE - (MAC)



Neonate's Identification Code :

wother's identification Co	de: Neo	nate s identification Code		
Detailed information				
about anomalies				
51. Amniotic volume	□Normal □Polyhydramr	nios		
	□Oligohydramnios □Anhy	/dramnios 🗆 Unknown		
52. Placenta previa	□Yes □No □Unknown			
53. Other placental	□Yes □No	If yes, please specify:		
abnormalities	□Unknown			
54. Umbilical artery	Positive end diastolic flow Resistance index (RI)			
Doppler	□ Absent end diastolic flow			
	□ Reverse end diastolic flow	Pulsatility index (PI)		

2) OTHER TESTS

55. Amniocentesis	□Normal □Abnormal	If abnormal,
Date of amniocentesis:	□Not Done □Unknown	specify
(dd/mm/yyyy)		significant
// 20		findings:
56. Other intrauterine	□Yes	If yes, specify
test/s:	□No	tests and
Date of test	□Unknown	significant
// 20		findings:
Other intrauterine	□Yes	If yes, specify
test/s:	□No	tests and
Date of test:	□Unknown	significant
//20		findings:
Other test/s:	□Yes	If yes, specify
Date of test:	□No	tests and
//20	□Unknown	significant
		findings:

3) MATERNAL COMPLICATIONS IN PREGNANCY (Record complications with onset during pregnancy)

CLINICAL CONDITIONS						
During the pregnancy was she diagnosed with, or treated for, any of the following conditions:						
57. Diabetes, thyroid disease or	□Yes	58. Any malignancy/cancer (including	□Yes			
other endocrine condition	□No	leukemia or lymphoma)	□No			
	□Unknown		□Unknown			
59. Cardiac disease	□Yes	60. Epilepsy	□Yes			
	□No		□No			
	□Unknown		□Unknown			
61. Mental illness, e.g. clinical	□Yes	62. Pyelonephritis or kidney disease	□Yes			
depression	□No		□No			
	□Unknown		□Unknown			
63. Lower urinary tract infection	□Yes	64. Respiratory tract infection	□Yes			
needing antibiotic treatment	□No	needing antibiotic/antiviral treatment	□No			
	□Unknown		□Unknown			





MATERNAL ANTENATAL CARE – (MAC)

Nother's Identification Code :	Neon	ate's Identification Code :	_
65. Group B streptococcus carrier	□Yes	66. HIV or AIDS	□Yes
	□No		□No
	□Unknown		□Unknown
67. Genital tract infection or STD	□Yes	68. Any other infection needing	□Yes
	□No	antibiotic/ antiviral treatment	□No
69. Cholestasis		70. Any accident or maternal trauma	
		needing hospital admission or referral	
		to a higher level of care	
71. Any other medical/surgical			
condition needing			
treatment/referral			
PREGNANCY-RELATED CONDITIONS			
	ad with or tra	ated for, any of the following conditions:	
72. Severe vomiting needing	\Box Yes	73. Gestational diabetes	□Yes
hospitalization			
74. Vaginal bleeding before 14	□Yes	75. Vaginal bleeding at 14-24 weeks	□Yes
weeks	□No		□No
	□Unknown		□Unknown
76. Vaginal bleeding after 24 weeks	□Yes	77. Pregnancy-induced hypertension	□Yes
	□No	(BP>140/90 mmHg, no proteinuria)	□No
	□Unknown		□Unknown
78. Pre-eclampsia	□Yes	79. Severe pre-eclampsia / Eclampsia	□Yes
(BP>140/90 mmHg <u>and</u> proteinuria)	□No	/HELLP	□No
	□Unknown		□Unknown
80. Rhesus disease or anti-Kell	□Yes	81. Preterm labor	□Yes
antibodies	□No		□No
	□Unknown		□Unknown
82. Fetal anemia	□Yes	83. Fetal distress (abnormal FHR or	□Yes
	□No	BPP)	□No
	Unknown		Unknown
84. Suspected impaired fetal growth	□Yes	85. Oligohydramnios	□Yes
	□No		□No
86. Polyhydramnios		87. Clinical chorioamnionitis	
88. Condition needing		89. Abruptio placentae	
amniocentesis or fetal blood			□No
sampling (FBS)			
If yes, specify:			
90. Other	□Yes	1	
(specify):			
(



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Mother's Identification Code : _____ Neonate's Identification Code : _____

	< 14 weeks	14-24 weeks	>24 weeks
91. Lowest hemoglobin	g/dl	g/dl	g/dl
level			
OR	%	%	%
92. Lowest hematocrit			
level			

4) CASE REPORT FORM COMPLETED BY

Name and role		
Signature	Date (dd/mm/yyyy)	// 20