

### ZIKA VIRUS CASE REPORT FORMS – MATERNAL LABORATORY RESULTS – (MLR)





Mother's Identification Code :	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 ( $\square$ ) 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.



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Mother 5 Identification Code.	Neonate 3 identification code.

- 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.
- 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: <a href="mailto:gail.carson@ndm.ox.ac.uk">gail.carson@ndm.ox.ac.uk</a>

**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) LABORATORY RESULTS

Record all values available ≤24 hours of presentation/admission. Use the most abnormal value per day. If not available, enter ND=not done, or UK=Unknown under value. For repeat testing, copy this page and ensure date of testing and patient IDs are indicated on each page.

esting and patient IDs ar	e indicated on each p	age.				
1. Date of sampling	//20					
(dd/mm/yyyy)						
Test			Value	Specify unit,	if other spec	ify unit used.
Inflammatory markers						
2. C-reactive protein	☐Yes ☐Not done	□Unknown		☐mg/L		□other:
3. Erythrocyte sedimentation rate	☐Yes ☐Not done	□Unknown		□mm/hr		□other:
4. Procalcitonin	☐Yes ☐Not done	□Unknown		□ng/mL		□other:
Hematology						
5. Hemoglobin	☐Yes ☐Not done	□Unknown		□g/L	□g/dL	□other:
6. Hematocrit	☐Yes ☐Not done	□Unknown		□%		□other:
7. RBC count	☐Yes ☐Not done	□Unknown		□x10 <sup>9</sup> /L	□x10³/μL	□other:
8. MCV	☐Yes ☐Not done	□Unknown		□μm³		□other:
9. White blood cell	☐Yes ☐Not done	□Unknown		□x10 <sup>9</sup> /L	□x10³/μL	□other:
count						
10. Neutrophils	☐Yes ☐Not done	□Unknown		□10³/mm³	□%	□other:
11. Lymphocytes	☐Yes ☐Not done	□Unknown		$\Box$ 10 <sup>3</sup> /mm <sup>3</sup>	□%	□other:
12. Monocytes	☐Yes ☐Not done	□Unknown		□10³/mm³	□%	□other:
13. Eosinophils	☐Yes ☐Not done	□Unknown		$\Box$ 10 <sup>3</sup> /mm <sup>3</sup>	□%	□other:
14. Basophils	☐Yes ☐Not done	□Unknown		□10³/mm³	□%	□other:
15. Platelets	☐Yes ☐Not done	□Unknown		□x10 <sup>9</sup> /L	□x10³/μL	□other:
16. APTT	☐Yes ☐Not done	□Unknown		□seconds		
17. PT (seconds)	☐Yes ☐Not done	□Unknown		□seconds		
18. Blood film	☐Yes ☐Not done	□Unknown		Describe resu	ults:	
Biochemistry						
19. Urea nitrogen	☐Yes ☐Not done	□Unknown		□mmol/L	□mg/dL	□other:
20. Creatinine	☐Yes ☐Not done	□Unknown		□μmol/L	□mg/dL	□other:
21. Sodium	☐Yes ☐Not done	□Unknown		□mmol/L		□other:
22. Potassium	☐Yes ☐Not done	□Unknown		□mmol/L		□other:



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Neonate's Identification Code:





23. Total protein	Y	'es □Not done	□Unkno	wn	□g/dL		□other:
24. Albumin	□Y	es □Not done	□Unkno	wn	□g/L		□other:
25. Bilirubin	□Y	es □Not done	□Unkno	wn	□μmol/L	□mg/dL	□other:
26. AST/SGOT	□Y	es □Not done	□Unkno	wn	□U/L		□other:
27. ALT/SGPT	□Y	es □Not done	□Unkno	wn	□U/L		□other:
28. GGT	□Y	es □Not done	□Unkno	wn	□U/L		□other:
29. ALP	□Y	es □Not done	□Unkno	wn	□U/L		□other:
30. Calcium	□Y	es □Not done	□Unkno	wn	□mmol/L		□other:
31. Phosphate	□Y	es □Not done	□Unkno	wn	□mg/dL		□other:
32. Magnesium	□Y	'es □Not done	□Unkno	wn	□mmol/L		□other:
33. Amylase	□Y	'es □Not done	□Unkno	wn	□U/L		□other:
34. Glucose	□Y	'es □Not done	□Unkno	wn	□mmol/L	□mg/dL	□other:
35. Creatine kinase	e 🗆 Y	'es □Not done	□Unkno	wn	□U/L		□other:
36. Other biochemistry resul (specify):		es □Not done	□Unkno	wn	□Unit:		
Other biochemistry result (specify):	y DY	es □Not done	□Unkno	wn	□Unit:		
results:							
2) CSF SAMPLE (if available as part of routine care)  37. Lumbar puncture performed?   Yes   No  Unknown  If yes, complete tables below. If no, CSF sample skip to section 3.  38. Date of lumbar puncture (dd/mm/yyyy):/ 20							
39. CSF		and colorless	•				
appearance	□Franl	k blood/traumati	c tap (only	if mother is und	der 18 years o	ld) 🗆 Unkr	nown
40. Gram stain	☐ No organisms seen ☐ Organisms seen ☐ Not done If organism seen, describe the gram morphology:						
	*Must be taken within 4 hours of the lumbar puncture, record capillary blood glucose if laboratory glucose not done						
Test Value			Specify unit				
41. Opening pressu	re			mmH2O			
42. CSF protein				□mg/dl	□other: _		
43. CSF glucose				□mmol/l	□other: _		
44. Plasma glucose a	at time			□mmol/l	□other: _		
of LP*					_	<del></del>	
45. CSF RBC count				□per mm³	□other: _		



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Mother's Identif	ication Code	:	Neon	ate's lo	entification			
46. CSF WBC co	unt			□perı	mm³	□othe	er:	
47. Lymphocyte	es			□%		□othe	er:	
48. Neutrophils				□%		□othe	er:	
49. Other (spec	ify):			□unit	:			
*Must be taken v	within 4 hours	s of the lumbar	puncture, re	ecord ca	pillary bloo	d gluce	ose if laboratory glu	ucose not done
3) PLACENTA	A PATHOLO	<b>DGY</b> (if post-de	eliverv)					
50. Placenta se				Unkno	wn			
If yes, specify re								
4) PATHOGE								
•				_			ts available from lo	
up sampling, cop		nai sample type	, add to othe	er, or co	py in additio	onal ro	ws as needed. For a	idditional follow
Sample type	Pathogen	Date of	Method		Results		Methods/Assays	Comments
Sample type	Pathogen	sampling	Wiethou		Results		used	Comments
		(dd/mm/yyyy	)			'	uscu	
51. Blood		, , , , , , ,	□PCR					
			Culture	e				
		//20	□Serolo	gy				
			□Micros	сору				
			□Other:					
Blood			 □PCR					
ыооа			Culture	0				
		//20	Serolo					
			Micros					
			Other:					
52. Urine			□PCR					
			Culture	e				
		//20	Serolo	gy				
			□Micros	сору				
			□Other:					
Urine			 □PCR					
			Culture	۵				
		//20	Serolo					
			Micros					
			Other:					
1								



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Mother's Identification Co	Identification Code: Neonate's Identification Code:					
53. □Saliva		□PCR				
swab		□Culture				
54. □Throat	/ /20	□Other:				
swab		ounci.				
55. □Nasal						
swab						
L		П				
56. CSF		□PCR				
	1 100	□Culture				
	//20	□Serology				
		☐Microscopy				
		□Other:				
CSF		□PCR				
		□Culture				
	/ /20	□Serology				
		☐Microscopy				
		Other:				
		□Other:				
57. Placenta						
57. Placenta		□PCR				
	/ /20	Culture				
	//20	□Serology				
		☐Microscopy				
		□Other:				
58. Amniotic		□PCR				
fluid		□Culture				
	//20	□Serology				
		□Microscopy				
		□Other:				
		Dotner.				
59. Other		□PCR				
(specify):		Culture				
(specify).	//20					
		□Serology				
		☐Microscopy				
		□Other:				
		<u> </u>				
Other		□PCR				
(specify):		□Culture				
	/ /20	□Serology				
	//20	□Microscopy				
		□Other:				
Other		□PCR				
(specify):		Culture				
(1)	/ /20	Serology				
	- ' - ' - ' - '					
		☐Microscopy				
	1	□Other:			1	



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Mother's Identificat	tion Code :	Neonate's Ident	tification Code:		
Other (specify):	//20	□PCR □Culture □Serology □Microscopy □Other:			
5) CASE REPORT Name and role	T FORM COMPLETED	ВУ			
Signature		D	Pate (dd/mm/yyyy)	//20	