





Neonate's Identification Code :	Mother'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.
- 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.







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- 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: gail.carson@ndm.ox.ac.uk

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 NEONATE (samples taken ≤ 24 hours after delivery/presentation)

Please record all values that are available as part of the clinical care for all neonates included in the study. Please use standard (SI) units if possible. Please specify the unit used for each result. For repeat sampling copy page use the most abnormal value per day and ensure date and patient ID is indicated on each form.

1. Date of sampling (dd/mm/yyyy)	_/_/20				
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			Ū.		
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 ⁹ /L	□x10³/μL	□other:
8. MCV	☐Yes ☐Not done ☐Unknown		□μm³		□other:
9. White blood cell	☐Yes ☐Not done ☐Unknown		□x10 ⁹ /L	□x10³/μL	□other:
count					
10. Neutrophils	☐Yes ☐Not done ☐Unknown		□10³/mm³	□%	□other:
11. Lymphocytes	☐Yes ☐Not done ☐Unknown		□10³/mm³	□%	□other:
12. Monocytes	☐Yes ☐Not done ☐Unknown		□10³/mm³	□%	□other:
13. Eosinophils	☐Yes ☐Not done ☐Unknown		□10³/mm³	□%	□other:
14. Basophils	☐Yes ☐Not done ☐Unknown		□10³/mm³	□%	□other:
15. Platelets	☐Yes ☐Not done ☐Unknown		□x10 ⁹ /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	ılts:	
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:
23. Total protein	☐Yes ☐Not done ☐Unknown		□g/dL		□other:
24. Albumin	☐Yes ☐Not done ☐Unknown		□g/L		□other:







	code	violitei 3 ideilliillai			
25. Bilirubin	☐Yes ☐Not done ☐Unki	nown	□μmol/L	□mg/dL	□other:
26. AST/SGOT	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
27. ALT/SGPT	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
28. GGT	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
29. ALP	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
30. Calcium	☐Yes ☐Not done ☐Unki	nown	□mmol/L		□other:
31. Phosphate	☐Yes ☐Not done ☐Unki	nown	□mg/dL		□other:
32. Magnesium	☐Yes ☐Not done ☐Unki	nown	□mmol/L		□other:
33. Amylase	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
34. Glucose	☐Yes ☐Not done ☐Unki	nown	□mmol/L	□mg/dL	□other:
35. Creatine kinase	☐Yes ☐Not done ☐Unki	nown	□U/L		□other:
36. Other	☐Yes ☐Not done ☐Unki	nown			
biochemistry result			□Unit:		
(specify):					
Other biochemistry	☐Yes ☐Not done ☐Unki	nown			
result (specify):			□Unit:		
If yes , describe					
results:					
2) CSF SAMPLE (if available as part of clinical 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 appearance □ Clear and colorless □ Cloudy □ Blood stained					
39. CSF appearance		☐Frank blood/traumatic tap ☐Unknown			
39. CSF appearance		ap 🗆 Unknown			
	☐Frank blood/traumatic ta	•	_	<u> </u>	
39. CSF appearance 40. Gram stain	☐ Frank blood/traumatic ta	Organisms seen	□Not done	e	
	☐Frank blood/traumatic ta	Organisms seen	□Not done	e	
40. Gram stain	☐ Frank blood/traumatic ta ☐ No organisms seen If organism seen, describe the lumbar puncture	Organisms seen the gram morpholo	□Not done		nt if laboratory
40. Gram stain *Must be taken within 4	☐ Frank blood/traumatic ta ☐ No organisms seen If organism seen, describe the lumbar puncture	Organisms seen the gram morpholo	□Not done		nt if laboratory
*Must be taken within 4 plasma glucose not reque	☐ Frank blood/traumatic to ☐ No organisms seen ☐ If organism seen, describe to ☐ hours of the lumbar puncture ested.	Organisms seen the gram morpholo e. Record capillary b	□Not done gy: plood glucose r	measuremer	,
*Must be taken within 4 plasma glucose not reque	☐ Frank blood/traumatic to ☐ No organisms seen ☐ If organism seen, describe to ☐ hours of the lumbar puncture ested.	Organisms seen the gram morpholo e. Record capillary be specify units	□Not done	measuremer _	,
*Must be taken within 4 plasma glucose not reque Test 41. CSF protein	□ Frank blood/traumatic ta □ No organisms seen □ If organism seen, describe to thours of the lumbar puncture ested. Value	Organisms seen the gram morpholo e. Record capillary b Specify units mg/dl mmol/l	□Not done gy: blood glucose r □other: □other:	measuremer 	,
*Must be taken within 4 plasma glucose not request Test 41. CSF protein 42. CSF glucose	□ Frank blood/traumatic ta □ No organisms seen □ If organism seen, describe to thours of the lumbar puncture ested. Value	Specify units mg/dl mmol/l	□Not done gy: plood glucose r	measuremer 	,
*Must be taken within 4 plasma glucose not reques Test 41. CSF protein 42. CSF glucose 43. Plasma glucose at til	□ Frank blood/traumatic ta □ No organisms seen □ If organism seen, describe to thours of the lumbar puncture ested. Value	Organisms seen the gram morpholo e. Record capillary b Specify units mg/dl mmol/l	□Not done gy: blood glucose r □other: □other:	measuremer - -	,
Must be taken within 4 plasma glucose not request the state of lumbar puncture	□ Frank blood/traumatic ta □ No organisms seen □ If organism seen, describe to thours of the lumbar puncture ested. Value	Specify units mg/dl mmol/l	□Not done gy: plood glucose r □other: □other: □other:	measuremer	,
Must be taken within 4 plasma glucose not reques Test 41. CSF protein 42. CSF glucose 43. Plasma glucose at time of lumbar puncture 44. CSF RBC count	□ Frank blood/traumatic ta □ No organisms seen □ If organism seen, describe to thours of the lumbar puncture ested. Value	Specify units mg/dl mmol/l per mm³	□Not done gy: blood glucose r □other: □other: □other: □other:	measuremer	,







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3) PATHOGEN TESTING	

Record all pathogen tests carried out for differential diagnosis. Please record all results available from local, and/or regional reference laboratories. For additional sample type, add to other, or copy in additional rows as needed.

Sample type	Pathogen	Date of	Method	Results	Methods/Assays	Comments
		sampling			used	
		(dd/mm/yyyy)				
48. Guthrie test (dried blood spot)		/_/20	□PCR □Serology □Other:			
Guthrie test (dried blood spot)		/_/20	□PCR □Serology □Other:			
49. Blood		/_/20	□PCR □Culture □Serology □Microscopy □Other:			
Blood		//20	□PCR □Culture □Serology □Microscopy □Other:			
50. Urine		//20	□PCR □Culture □Serology □Microscopy □Other:			
Urine		//20	□PCR □Culture □Serology □Microscopy □Other:			
51. □Saliva swab 52. □Throat swab 53. □Nasal swab		//20	□PCR □Culture □Other:			
54. CSF		//20	□PCR □Culture □Serology			



Neonate's Identification Code:

ZIKA VIRUS CASE REPORT FORMS – NEONATE LABORATORY RESULTS – (NLR)

□Microscopy

Mother's Identification Code: _





		□Other:		
CSF	//20	□PCR □Culture □Serology □Microscopy □Other:		
55. Placenta	//20	□PCR □Culture □Other:		
56. Amniotic fluid	//20	□PCR □Culture □Other:		
57. Other (specify):	//20	□PCR □Culture □Serology □Microscopy □Other:		
Other (specify):	//20	□PCR □Culture □Serology □Microscopy □Other:		
Other (specify):	//20	□PCR □Culture □Serology □Microscopy □Other:		
Other (specify):	//20	□PCR □Culture □Serology □Microscopy □Other:		
4) CASE REP	COMPLETED) BY		
Name and role				
Signature	 		Date (dd/mm/yyyy)	 /20







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