



ZIKA VIRUS CASE REPORT FORMS – MATERNAL BASELINE AND OUTCOME – (MBO)



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 () are single selection answers (choose one answer only). Selections with circles (o) 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.
- 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.



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- 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.*

INCLUSION CRITERIA

Define as appropriate for each study and as per latest national guidelines.

CONSENT

Ensure informed consent.

Date and time of consent (dd/mm/yyyy): ____ / ____ / 20____ Time: ____ : ____ (hours:min)
Name and role of the person taking consent : _____
Signature of person taking consent: _____

1. Name of site/clinic/hospital		
2. Geoposition	Latitude ____ . _____	Longitude ____ . _____
If geoposition not available, state location below		
Name of the site/clinic/hospital		
3. City/town /village:		
4. Country (& region/district):		
5. Acute symptoms in pregnant mother	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please also complete the Maternal Acute Symptoms CRF	

1) MATERNAL DEMOGRAPHICS

6. Date of birth (dd/mm/yyyy)	____ / ____ / _____		
7. Ethnicity (according to national guidelines):			
8. Home city/town /village during pregnancy, state all during this pregnancy			
City/town/village	Date from (mm/yyyy)	To (mm/yyyy)	
9. Occupation			
10. Height	<input type="checkbox"/> cm <input type="checkbox"/> feet/inches		
11. Weight (prior to pregnancy, specify or estimate):	<input type="checkbox"/> kg <input type="checkbox"/> pounds/ounces	12. Current weight	<input type="checkbox"/> kg <input type="checkbox"/> pounds/ounces
13. Familial genetic conditions on maternal or paternal side	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, specify:	



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14. Number of previous pregnancies (excluding present pregnancy):		15. Number of previous births after 22 weeks' gestation:	
16. Have any previous babies been (tick all that apply)	<input type="checkbox"/> Preterm (<37 weeks' gestation) <input type="checkbox"/> Stillborn or perinatal deaths <input type="checkbox"/> No <input type="checkbox"/> Unknown		
17. Have any previous babies weighed (tick all that apply):	<input type="checkbox"/> < 2.5 kg <input type="checkbox"/> >4.5kg <input type="checkbox"/> No <input type="checkbox"/> Unknown	18. Have any previous babies had microcephaly	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
19. Have any previous babies had other congenital abnormalities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, specify:	
20. Consanguinity	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
21. If not yet delivered, what is the current gestational age	Weeks _____	Days _____	22. If not yet delivered, what is the estimated date of delivery (dd/mm/yyyy) __ / __ / 20 __
23. Estimated date of conception (dd/mm/yyyy)	____ / ____ / 20 ____		
24. Birth number	<input type="checkbox"/> Singleton <input type="checkbox"/> Twin <input type="checkbox"/> Triplet <input type="checkbox"/> Other, please detail:		
25. National or international travel during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
If yes, specify all countries or regions visited below			
Country/region visited	Approximate first and last date (dd/mm/yyyy)	Duration of visit (days)	Includes overnight stay
	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No
	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No
	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No
	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No
	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: If further demographic or epidemiology information is required please use a complementary ZIKV CRF Demographics and Epidemiology

2) MATERNAL CHRONIC COMORBIDITIES / PAST MEDICAL HISTORY

26. Chronic cardiovascular disease¹	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
27. Chronic pulmonary disease²	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
28. Blood disorders	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

¹ Includes coronary heart disease, cerebrovascular disease (stroke), hypertension (Diastolic > 100), peripheral artery disease, rheumatic heart disease, congenital heart disease and heart failure. www.who.int/topics/cardiovascular_diseases/en/

² Chronic lung diseases that cause limitations in lung airflow (previously referred to as emphysema, chronic bronchitis), diagnosed by spirometry or clinical signs e.g. abnormal shortness of breath and increased forced expiratory time. www.who.int/respiratory/copd/diagnosis/en/

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If yes, specify:	
29. Chronic renal/kidney disease ³	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
30. Chronic liver disease – moderate or severe ⁴	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
31. Chronic neurological disease ⁵	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, specify:	
32. Paralysis (existing prior to this pregnancy)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, specify body parts affected:	
33. Type 1 Diabetes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
34. Type 2 Diabetes and treated with oral medicine or insulin dependent	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
35. Other endocrine disease ⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, specify:	
36. Rheumatologic disease ⁷	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
37. Immunosuppression	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
38. HIV ⁸	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, on antiretroviral therapy?	
39. CD4 cell count	<input type="checkbox"/> <200 cells/ μ L <input type="checkbox"/> 200-499 cells/ μ L <input type="checkbox"/> \geq 500 cells/ μ L <input type="checkbox"/> Unknown
40. Other immunosuppression?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, specify:	
41. Any other chronic comorbidity	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, specify:	

3) MEDICATIONS DURING THIS PREGNANCY (prior to onset of current illness episode)

42. Fever or pain treatment	Acetaminophen/paracetamol <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
	NSAID/s <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
	Other/s (specify):
43. Anticonvulsants	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify generic name:
44. Drug against nausea during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify generic name:
45. Prenatal vitamins	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, specify (e.g. folic acid):

4) OTHER MEDICATIONS USED DURING THIS PREGNANCY

³ Creatinine >3mg% (265 μ mol/l), dialysis, transplantation, uremic syndrome

⁴ Cirrhosis with PHT +/- variceal bleeding

⁵ Disorders of the nervous system e.g. epilepsy, MS, Parkinson, chronic pain syndromes, chronic brain injuries, ALS etc.

⁶ Hypopituitarism, adrenal insufficiency, recurrent acidosis

⁷ SLE, polymyositis, polymyalgia rheumatic, mixed connective tissue diseases

⁸ Laboratory-confirmed HIV-1 or HIV-2 infection (irrespective of the CD4 lymphocyte count/percentage or HIV viral load in blood), or a patient with an AIDS-defining condition.



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46. Medication history Please list <u>all</u> other medications taken by the patient during this pregnancy episode, including antibiotics, antivirals and other regular medications, including herbal, and non-licensed remedies. Please list generic names if possible.	
Medications or herbal remedies or others including non-licensed	Route of administration
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:
	<input type="checkbox"/> Oral <input type="checkbox"/> IV <input type="checkbox"/> Rectal <input type="checkbox"/> Topical <input type="checkbox"/> Other:

5) SMOKING, ALCOHOL, DRUGS AND BLOOD TRANSFUSION – RISK FACTORS

47. Smoking during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, specify average per day: <input type="checkbox"/> <10 cigarettes per day <input type="checkbox"/> ≥10 cigarettes per day	<input type="checkbox"/> Other forms of smoking/tobacco Specify:
48. Alcohol consumption during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, specify average alcohol consumption per day <input type="checkbox"/> Less than 1-2 alcoholic drinks ⁹ per day <input type="checkbox"/> 2-5 alcoholic drinks per day <input type="checkbox"/> >5 alcoholic drinks per day	Specify type:
49. Illicit and recreational drug use during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, specify frequency <input type="checkbox"/> 0-1 occasion per week <input type="checkbox"/> 2-5 occasions per week <input type="checkbox"/> >5 occasions per week	Specify all types of drugs used and route of administration: Type: Route:
50. Has the patient received a blood transfusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Specify/estimate date of last blood transfusion <input type="checkbox"/> < 30 days ago <input type="checkbox"/> >30 days ago	Reason for transfusion: _____ _____

Note: If further demographic or epidemiology information is required please use the complementary ZIKV CRF Demographics and Epidemiology

⁹ A drink is defined as any alcoholic drink for example a glass of wine, a glass of beer, a cocktail
 ZIKV CRF Maternal Baseline and Outcome v6.1 05DEC2016



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6) MATERNAL IMMUNISATION HISTORY

Vaccine	Immunized	Date of last dose (dd/mm/yyyy)
51. Rubella	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
52. Measles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
53. Mumps	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
54. Acellular pertussis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
55. Varicella	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
56. Tetanus	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
57. Diphtheria	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
58. Polio	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
59. Seasonal influenza	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
60. Yellow fever	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
61. Japanese encephalitis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
62. Tick-borne encephalitis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
63. Dengue virus	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
64. Hepatitis B	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
65. Any other vaccinations received during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, please specify immunization type:	
Any other vaccinations received during this pregnancy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, please specify immunization type:	

7) DIAGNOSTIC OUTCOME MOTHER Record final diagnostics outcomes based on laboratory results, clinical picture, and case definitions. Choose the appropriate case definition, e.g. WHO or national/local case definition and ensure the definition used is clear and shared with all involved in the study.

Pathogen	Diagnosis	Date of onset (dd/mm/yyyy)	Comment
66. No confirmed diagnosis	<input type="checkbox"/> Tick if no diagnosis made		
67. Zika virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
68. Dengue virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
69. Yellow fever virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection	__ / __ / ____	



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	<input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown		
70. West Nile virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
71. Chikungunya virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
72. Toxoplasmosis	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
73. Rubella	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
74. Cytomegalovirus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
75. Herpes Simplex Virus	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
76. Syphilis	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative <input type="checkbox"/> Not tested <input type="checkbox"/> Unknown	__ / __ / ____	
77. Other (specify):	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection		



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	<input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative	__ / __ / ____	
Other (specify):	<input type="checkbox"/> Confirmed acute infection <input type="checkbox"/> Probable acute infection <input type="checkbox"/> Confirmed past infection <input type="checkbox"/> Probable past infection <input type="checkbox"/> Negative	__ / __ / ____	

8) FINAL OUTCOME

Outcome	Details
78. Date of discharge/going home (dd/mm/yyyy)	__ / __ / 20 ____
79. Maternal outcome at discharge/going home	<input type="checkbox"/> Discharged/sent home without sequelae <input type="checkbox"/> Discharged with sequelae <input type="checkbox"/> Deceased <input type="checkbox"/> Unknown
If discharged/ sent home with sequelae, describe:	
80. If deceased, specify date of death (dd/mm/yyyy)	__ / ____ / 20 ____
81. Birth outcome	<input type="checkbox"/> Live birth <input type="checkbox"/> Antepartum death <input type="checkbox"/> Intrapartum death <input type="checkbox"/> Spontaneous abortion <input type="checkbox"/> Therapeutic abortion
82. Maternal Zika virus infection	<input type="checkbox"/> Positive <input type="checkbox"/> Probable <input type="checkbox"/> Negative <input type="checkbox"/> Unknown <input type="checkbox"/> Not tested
83. Diagnosis confirmed by	<input type="checkbox"/> Lab. confirmed local hospital laboratory <input type="checkbox"/> Lab. confirmed by national reference laboratory <input type="checkbox"/> Lab. confirmed by international reference laboratory <input type="checkbox"/> Other, please detail: _____
84. Other maternal outcomes, specify all:	

9) CASE REPORT COMPLETED BY

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