



ZIKA VIRUS CASE REPORT FORMS – CHILD 0-5 YEARS BASELINE AND OUTCOME – (CBO)



Patient'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, CONISE PREPARE and REACTing to generate standardized clinical and epidemiological research tools.

DESIGN OF THIS CASE REPORT FORM (CRF)

There are sets of Case Report Forms (CRFs) 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 **Child Baseline and Outcome (CBO)** CRF, follow by **Child Acute Symptoms (CAS)**. If the patient is admitted to a hospital or has further investigations, complete **Child Hospital Stay (CHS)** and **Child Laboratory Results (CLR)** CRFs. We recommend completing the Neonatal CRF and the Maternal Baseline and Outcome CRF to capture maternal and/or neonatal risk factors. If the patient is admitted to an Intensive Care Unit or Pediatric Intensive Care Unit, complete **Child Intensive Care (CIC)** as well. For follow up visit(s) complete **Child follow up visit(s) (CFU)**.

Complete the outcomes sections in the **CBO** CRF 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 patient 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 the patient 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.
- Patient's 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 will be collected using all CRF modules as appropriate.

Sites with very low resources or very high patient numbers may select **Child Baseline and Outcome (CBO)** CRF module only. The decision is up to the site Investigators and may be changed throughout the data collection period. All high quality data are valuable for analysis.

GENERAL GUIDANCE

- The CRFs are designed to collect data obtained through patient examination, for patient or parent/guardian/representative interview and review of hospital notes.
- Patient ID codes should be filled in on all pages of paper CRF forms.
- 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 (○) 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 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



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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.*

CONSENT

Ensure each participant (or their parent or guardian if a child) has given *informed* consent

Date and time of consent (dd/mm/yyyy): ____ / ____ / _20____ Time: ____: ____ hours
Name and role of the person taking consent : _____
Signature of person taking consent: _____

1. Geoposition	Latitude: ____ . ____	Longitude: ____ . ____
2. Name of site/clinic/hospital	_____	
If geoposition not available, state location below		
3. City/town/village:	_____	
4. Country:	_____	
5. Admitted to hospital	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <i>If yes: (also complete form CAS)</i>	

1) DEMOGRAPHICS

6. Date of Birth [dd/mm/yyyy]	__ / __ / ____
7. Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female
8. Weight	[__ __ __ __] <input type="checkbox"/> kg <input type="checkbox"/> pounds/ounces SD*
9. Gestational age at birth	[__ __ __] weeks
10. Birth weight	[__ __ __]kg [__ __ __]pound/ounces
11. Ethnicity (use local classifications)	_____

*SD Plot weight on appropriate growth curve according to national guidelines

MATERNAL DEMOGRAPHICS: please complete Maternal Baseline and Outcome CRF

BIRTH AND NEONATAL DETAILS: please complete Neonatal Baseline and Outcome CRF

2) TRAVEL HISTORY (any city, town, village or region visited in the last 4 weeks. Include maternal travel in case child < 2 weeks of age)

12. Any history of travel (local/national/international) <input type="checkbox"/> Yes <input type="checkbox"/> No	Approximate first and last date [dd/mm/yyyy]	Total number of days	Includes overnight stay
13. Main home address: _____	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No
14. If yes: Other places visited:	__/__/__ to __/__/__		<input type="checkbox"/> Yes <input type="checkbox"/> No



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	//_ 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 the complementary ZIKV CRF Demographics and Epidemiology

3) CHRONIC COMORBIDITIES/PAST MEDICAL HISTORY

15. Chronic cardiovascular disease ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
16. Chronic pulmonary disease ²	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
17. Blood disorders	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	
18. Chronic renal/kidney disease ³	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
19. Gastro-intestinal and/or liver disease ⁴	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
20. Chronic neurological disease ⁵	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	
21. Paralysis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify body parts affected:	
22. Metabolic diseases	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	
23. Endocrine disease	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
24. Rheumatological and/or auto-immune disease ⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	
25. HIV ⁷	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, on antiretroviral therapy?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
26. CD4 cell count	<input type="checkbox"/> <200 cells/μL <input type="checkbox"/> 200-499 cells/μL <input type="checkbox"/> ≥500 cells/μL <input type="checkbox"/> Unknown
27. Other immunosuppression?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, please specify:	
28. Any other chronic comorbidity (please specify):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

¹ Includes cerebrovascular disease (stroke), hypertension (Systolic > p 99), rheumatic heart disease, congenital heart disease and heart failure, cardiac arrhythmias.

² Chronic lung diseases that cause limitations in lung airflow (such as congenital lung abnormalities, broncho-pulmonary dysplasia, allergic rhinitis/sinusitis, recurrent or chronic airway infections or multiple induced or viral induced wheeze (“asthma”).
<http://www.who.int/respiratory/asthma/en/> and <http://www.who.int/respiratory/other/en/>

³ Reno-genito-urinary tract malformations, renal insufficiency including dialysis, transplantation, recurrent urinary tract infections or pyelonephritis

⁴ Includes (congenital) liver disorders or cirrhosis, hepatitis, (congenital) gastro-intestinal disease. Cirrhosis with PHT +/- variceal bleeding

⁵ Disorders of the nervous system e.g. epilepsy, congenital cerebral malformations, peri-natal asphyxia, cerebral palsy.

⁷ 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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4) MEDICATION HISTORY

29. Medication history Please list <u>all</u> other medications taken by the patient in the 4 weeks before this illness including non-prescription, herbal non-licensed remedies, or vitamins. Please list generic names if possible.						
Type of medication	Name of medication (generic name)	Dose (fluids indicate volume)	Frequency (per day)	Start date (dd/mm/yyyy)	Number of days	Route of administration
						<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> Rectal <input type="checkbox"/> Other:
						<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> Rectal <input type="checkbox"/> Other:
						<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> Rectal <input type="checkbox"/> Other:
						<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> Rectal <input type="checkbox"/> Other:
						<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> Rectal <input type="checkbox"/> Other:

5) OTHER RISK FACTORS

30. Parental tobacco use?	<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: _____
31. 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: _____ _____
32. Socio-economic status of parents (according to national guidelines)	<input type="checkbox"/> Low <input type="checkbox"/> Low Middle <input type="checkbox"/> Middle <input type="checkbox"/> Upper Middle <input type="checkbox"/> High		
33. Feeding	<input type="checkbox"/> Breast fed <input type="checkbox"/> Formula fed <input type="checkbox"/> Both		

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

6) IMMUNIZATION HISTORY

Vaccine	Immunized	Date of last dose (dd/mm/yyyy)
34. Rubella	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
35. Measles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	



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36. Mumps	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
37. Acellular pertussis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
38. Varicella	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
39. Tetanus	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
40. Diphtheria	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
41. Polio	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
42. Seasonal influenza	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
43. Yellow fever	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
44. Japanese encephalitis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
45. Tick-borne encephalitis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
46. Dengue virus	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
47. Hepatitis B	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
48. Haemophilus influenza type B	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
49. Meningococcus C	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
50. Any other vaccinations received	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (if yes, specify immunization type):	
Any other vaccinations received	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (if yes, specify immunization type):	

7) IMAGING (if available)

If abnormal, please describe abnormality and enclose images if possible.

Imaging	Results	If abnormal, please summarize key results:	Images attached	Report attached
51. Cranial ultrasound scan	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Done		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
52. MRI brain (record only if done as part of routine care)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
53. CT brain (record only if part of routine care)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
54. Other (specify type of test):	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other (specify type of test):	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No



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8) FINAL DIAGNOSIS

Pathogen	Diagnosis	Date of onset (dd/mm/yyyy)	Comment
55. No confirmed diagnosis	<input type="checkbox"/> Tick if no diagnosis made		
56. 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	__ / __ / __	
57. 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	__ / __ / __	
58. Yellow fever 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	__ / __ / __	
59. 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	__ / __ / __	
60. 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	__ / __ / __	
61. 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	__ / __ / __	



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62. 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	____ / ____ / ____	
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9) FINAL OUTCOME

Outcome	Details
63. Date of discharge/going home [dd/mm/yyyy]	____ / ____ / ____
64. Outcome at discharge/going home	<input type="checkbox"/> Discharged/sent home without sequelae <input type="checkbox"/> Discharged/ sent home with sequelae <input type="checkbox"/> Deceased <input type="checkbox"/> Unknown
65. If discharged/ sent home with sequelae, describe:	
66. If deceased, specify date of death [dd/mm/yyyy]	____ / ____ / ____
67. Zika virus infection	<input type="checkbox"/> Positive <input type="checkbox"/> Probable <input type="checkbox"/> Negative <input type="checkbox"/> Unknown <input type="checkbox"/> Not tested
68. 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: _____
69. Other outcomes, specify all:	
Infant abnormality	
Microcephaly	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Facial disproportion	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Hearing impairments	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Visual impairments	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Dysphagia	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Calcifications - CNS imaging	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Epilepsy and seizures	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Spasticity/contractures	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Neurological reflexes	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Cerebral palsy	<input type="checkbox"/> Present <input type="checkbox"/> Absent
Other, specify:	



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10) CASE REPORT FORM COMPLETED BY

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