

DENGUE CASE INVESTIGATION FORM

NCIMS ID:	Date of notification: ___/___/___	Date of interview: ___/___/___
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DEMOGRAPHIC DETAILS

First Name:	Surname:	DOB:
Address:	Suburb:	Postcode:
Phone (home):	Phone (mobile):	Email:
Indigenous status: <input type="checkbox"/> Aboriginal <input type="checkbox"/> Torres Strait Islander <input type="checkbox"/> Neither	Country of birth: <input type="checkbox"/> Australia <input type="checkbox"/> Other:	Language: <input type="checkbox"/> English <input type="checkbox"/> Other:
Interpreter required for case interview: <input type="checkbox"/> Yes <input type="checkbox"/> No Job Number:		

LABORATORY EVIDENCE

1. Isolation of dengue virus by culture <i>'Dengue virus culture'</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Specimen type: <input type="checkbox"/> Serum <input type="checkbox"/> Other:	Collection date: ___/___/___	
2. Detection of dengue virus by nucleic acid testing (PCR) <i>'Dengue virus PCR'</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Specimen type: <input type="checkbox"/> Serum <input type="checkbox"/> Other:	Collection date: ___/___/___	
3. Detection of dengue non-structural protein (NS1) <i>'Dengue virus antigen'</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Specimen type: <input type="checkbox"/> Serum <input type="checkbox"/> Other:	Collection date: ___/___/___	
4. Detection of dengue antibody in serum <i>'Dengue virus IgM/IgG antibody IA'</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample 1: Collection date: ___/___/___ <input type="checkbox"/> IgM detected Titre: _____ <input type="checkbox"/> IgG detected Titre: _____ <input type="checkbox"/> TAb* (total Ab) detected	Sample 2: Collection date: ___/___/___ <input type="checkbox"/> IgM detected Titre: _____ <input type="checkbox"/> IgG detected. Titre: _____ <input type="checkbox"/> TAb (total Ab) detected	Assessment: <input type="checkbox"/> No significant changes <input type="checkbox"/> IgG seroconversion <input type="checkbox"/> Significant rise in Ab <input type="checkbox"/> x4 or greater rise in IgG
5. Detection of dengue IgM antibody in cerebrospinal fluid <i>'Dengue virus IgM antibody IA'</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Results: <input type="checkbox"/> Dengue IgM detected.	Other results: <input type="checkbox"/> Zika IgM negative <input type="checkbox"/> MVE IgM negative <input type="checkbox"/> West Nile / Kunjin virus IgM negative <input type="checkbox"/> Japanese encephalitis (JE) virus IgM negative	
6. Dengue serotype (1-4): _____ (if known)	Detected by: <input type="checkbox"/> Culture <input type="checkbox"/> PCR <input type="checkbox"/> IgM IA <input type="checkbox"/> Other:			
7. Specimen(s) sent to arbovirus reference lab (ICPMR or QHFS) for parallel testing or confirmation? <input type="checkbox"/> Yes <input type="checkbox"/> No Date sent: ___/___/___				

Note: Confirmation of the result by an arbovirus reference laboratory is recommended if infection is believed to have been acquired in Australia. Laboratory evidence alone is not sufficient to meet either the Confirmed or Probable case definitions (see page 2)
 *Total Ab (Tab) is IgM plus IgG. If the report states that IgM was not detected but 'TAb' was detected this indicates that IgG was detected.

CLINICAL EVIDENCE

8. Did the person have symptoms?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Symptom onset date: ___/___/___ Duration of symptoms: _____ (days)
Symptoms:	Symptoms:	Comments:
Abnormal bruising / bleeding	<input type="checkbox"/> Yes <input type="checkbox"/> No	Headache <input type="checkbox"/> Yes <input type="checkbox"/> No
Abnormal taste	<input type="checkbox"/> Yes <input type="checkbox"/> No	Myalgia <input type="checkbox"/> Yes <input type="checkbox"/> No
Anorexia (loss of appetite)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Nausea <input type="checkbox"/> Yes <input type="checkbox"/> No
Arthralgia	<input type="checkbox"/> Yes <input type="checkbox"/> No	Rash <input type="checkbox"/> Yes <input type="checkbox"/> No
Diarrhoea	<input type="checkbox"/> Yes <input type="checkbox"/> No	Retro-orbital pain <input type="checkbox"/> Yes <input type="checkbox"/> No
Fever	<input type="checkbox"/> Yes <input type="checkbox"/> No	Vomiting <input type="checkbox"/> Yes <input type="checkbox"/> No
Other symptoms	<input type="checkbox"/> Yes <input type="checkbox"/> No	Details:

Note: Severe dengue includes circulatory shock (dengue shock syndrome) and/or severe bleeding (dengue haemorrhagic fever), and occurs in less than 5% of all cases of dengue. It is more common in cases where there is re-infection with a different dengue strain.

EVENT OUTCOME

9. Was the person hospitalized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Details:
10. Outcome:	<input type="checkbox"/> Alive <input type="checkbox"/> Dead <input type="checkbox"/> Unknown	Date of death: ___/___/___ (if applicable)
11. Place of disease acquisition	<input type="checkbox"/> Outside of Australia <input type="checkbox"/> In Australia, outside of NSW* <input type="checkbox"/> In NSW* <input type="checkbox"/> Unknown	
12. Country of disease acquisition	(Regions can also be selected, e.g. South-East Asia)	

* Note: If a case is believed to have been acquired in NSW or elsewhere in Australia, contact CD OnCall immediately.

TRAVEL AND RISK INFORMATION

13. During the exposure period (3-14 days prior to onset of symptoms) did the case travel *:		
Overseas travel	<input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, overseas travel details: Countries/cities/towns visited, arrival/departure dates Place _____ Dates: __/__/__ to __/__/__ Place _____ Dates: __/__/__ to __/__/__ Place _____ Dates: __/__/__ to __/__/__ Place _____ Dates: __/__/__ to __/__/__
To Queensland **	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interstate (other than QLD) **	<input type="checkbox"/> Yes <input type="checkbox"/> No	
In NSW, outside local area	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Note: * Use travel information to complete the most likely **Place of Acquisition** field in NCIMS (Clinical); enter travel details in Risk History.
** If Travel to Queensland or northern Australia, complete Q.20 under Additional Travel Information (Page 3) and notify NSW CD OnCall.

14. During the viraemic period (1 day prior to onset of symptoms to 12 days after onset) did the case travel to:		
North QLD (north of Bundaberg) or Central QLD (north of Toowoomba) [i.e. Dengue-receptive zone]	<input type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, complete Q.21 under Additional Travel Information (Page 3) and notify NSW CD OnCall.

Note: The usual viraemic period is approximately 5 days. This is extended to 12 days for public health purposes for outbreak risk.

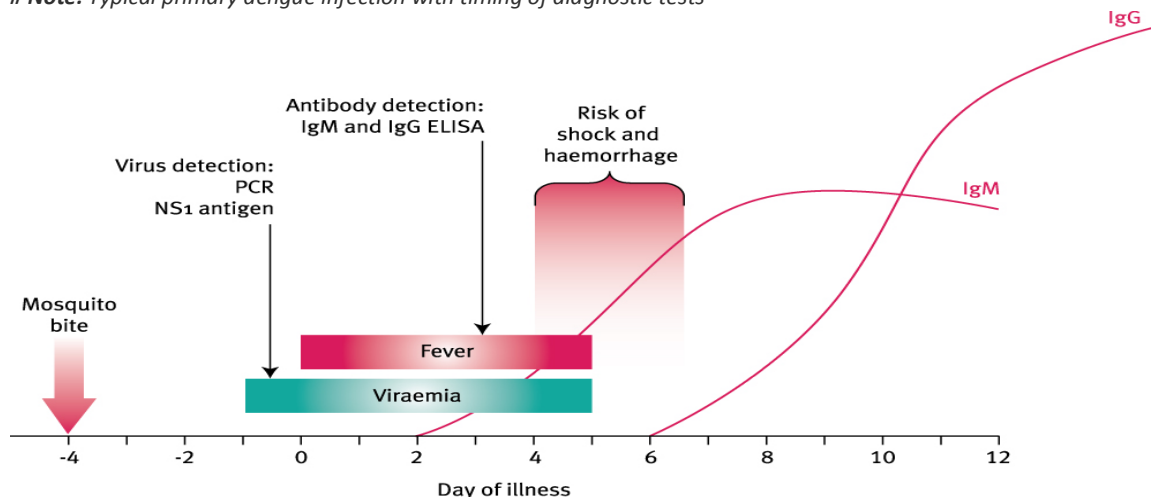
IMPORTANT RISK ADVICE FOR THE CASE

<ul style="list-style-type: none"> There are 4 strains of dengue virus. Infection with one strain does not provide protection against other strains. A new infection with another dengue strain increases the risk of severe dengue. To reduce the risk of infection, all travellers to dengue risk areas should stay in accommodation with screened windows and doors, wear loose fitting clothing that covers the arms and legs and apply insect repellent to exposed skin, especially during daylight hours and in the early evening. This is particularly important for people who have had a previous dengue infection. People with dengue should defer travel to North Queensland (north of Bundaberg) or Central Queensland (north of Toowoomba) until at least 12 days after their symptom onset to prevent infection of the type of mosquitoes able to cause local outbreaks. 	15. Information discussed	<input type="checkbox"/> Yes <input type="checkbox"/> No
	16. Advised not to donate blood until 4 weeks after full recovery	<input type="checkbox"/> Yes <input type="checkbox"/> No
	17. Advised not to travel to North or Central Queensland until 12 days after onset	<input type="checkbox"/> Yes <input type="checkbox"/> No
	18. Fact sheet sent via email	<input type="checkbox"/> Yes <input type="checkbox"/> No
	19. NCIMS updated	<input type="checkbox"/> Yes <input type="checkbox"/> No

DENGUE CASE DEFINITIONS

<p>A CONFIRMED dengue case requires:</p> <ul style="list-style-type: none"> Laboratory definitive evidence AND clinical evidence. 	<p>A PROBABLE dengue case requires:</p> <ul style="list-style-type: none"> Laboratory suggestive evidence AND clinical evidence AND epidemiological evidence.
<p>Laboratory definitive evidence (one or more) #</p> <ul style="list-style-type: none"> Isolation of dengue virus by culture Detection of dengue virus by nucleic acid testing (PCR) Detection of dengue non-structural protein 1 (NS1) antigen in blood IgG seroconversion or a significant increase in antibody level or a fourfold or greater rise in titre to dengue virus Detection of dengue virus-specific IgM in cerebrospinal fluid, in the absence of IgM to MVE, West Nile virus / Kunjin, or JE viruses <p>Clinical evidence</p> <ul style="list-style-type: none"> A clinically compatible illness (e.g. fever, headache, arthralgia, myalgia, rash, nausea, and vomiting) 	<p>Laboratory suggestive evidence</p> <ul style="list-style-type: none"> Detection of dengue virus-specific IgM in blood (serum)* <p>Clinical evidence</p> <ul style="list-style-type: none"> Same as for a confirmed case <p>Epidemiological evidence</p> <ul style="list-style-type: none"> A plausible explanation, e.g. travel to a country with known dengue activity OR exposure in Australia where local transmission has been documented within the previous month.

Note: Typical primary dengue infection with timing of diagnostic tests



ADDITIONAL TRAVEL INFORMATION (if required)

20. Queensland or Northern Australia travel information during the incubation period

	Fly Screens?	Air Con?	Mosquitoes?
Home Address: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Work Address: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other significant daytime address:			
1. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

21. Queensland Dengue-Receptive Zone travel during the viraemic period

	Fly Screens?	Air Con?	Mosquitoes?
Home Address: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Work Address: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other significant daytime address:			
1. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

ADDITIONAL NOTES: