NIPAH VIRUS (NIV) DISEASE LABORATORY GUIDANCE



Outbreak Response Unit, Division of Public Health Surveillance and Response and Centre for Emerging Zoonotic & Parasitic Diseases and Centre for Respiratory Diseases and Meningitis National Institute for Communicable Diseases (NICD)

24-hour hotline number 0800 212 552

COMPILED: 19 September 2023

GUIDANCE FOR THE LABORATORY INVESTIGATION OF INDIVIDUALS TO BE EXCLUDED OF NIPAH VIRUS (NiV) INFECTION IN SOUTH AFRICA

STEP 1: ASSESSMENT OF PERSON FOR CONSIDERATION OF NIV INFECTION

A suspected case of Nipah virus (NiV):

Any person presenting with

- an acute onset of fever (≥38°C) with new onset of altered mental status or seizure and/or
- fever with headache and/or
- cough or shortness of breath;

AND has an epidemiological link

- who visited or resided in Kerala, India, or a community affected by a NiV disease outbreak (<u>Pteropus Bats Presence and Nipah Virus Outbreaks | Nipah Virus (NiV) | CDC</u>), in the six weeks prior to onset of illness and;
- had direct contact with or cared for suspected/confirmed NiV cases (humans/pigs) in the six weeks prior to onset of illness;

NOTE: The differential diagnoses for travelers from South Asia or South-East Asia is broad and malaria, dengue, chikungunya, zika, leptospirosis, typhoid and common respiratory infections should be excluded in patient.

STEP 2: COMPLETE THE CASE INVESTIGATION FORM

- Complete this case investigation form fully (also available from www.nicd.ac.za)
- Include case investigation form with specimens submitted for testing

STEP 3: SUBMIT SPECIMENS FOR SPECIALIZED LABORATORY INVESTIGATION

• For testing, the following specimens are used:

SPECIMEN	CONSIDERATIONS
Blood / serum	SST or clotted blood tubes, 1 tube (approx. 10 ml)
	Required for all individuals if NIV infection is to be excluded
Nasopharyngeal swab	In viral transport medium
	Required for all individuals if NIV infection is to be excluded
Cerebrospinal fluid	Submit at least 1 ml
	Submit for patient presenting with encephalitis
Urine	Submit in urine specimen jar
	Additional specimen, not required for all investigations



Practice number: 5200296

NIPAH VIRUS (NIV) DISEASE LABORATORY GUIDANCE



Outbreak Response Unit, Division of Public Health Surveillance and Response and Centre for Emerging Zoonotic & Parasitic Diseases and Centre for Respiratory Diseases and Meningitis

National Institute for Communicable Diseases (NICD)

24-hour hotline number 0800 212 552

• The specimens should be packaged in compliance with the guidelines for the transport of dangerous biological goods (i.e. Category A shipments with triple packaging using absorbent material) (http://www.iata.org/publications/dgr/Pages/index.aspx) and couriered directly and urgently to:

Centre for Emerging Zoonotic and Parasitic Diseases
Special Viral Pathogens Laboratory
National Institute for Communicable Diseases (NICD), National Health Laboratory Service (NHLS)
1 Modderfontein Rd
Sandringham, 2131

Laboratory contact details:

Dr Jacqueline Weyer: jacquelinew@nicd.ac.za /0113866376 Dr Naazneen Moolla: naazneenm@nicd.ac.za/0113866338

Practice number: 5200296