

Supplementary Table I. Pathogens tested when an event is detected (Adapted from VRDL algorithm)

Severe acute respiratory illness (SARI)		
Sputum	Blood	Nasopharyngeal swab
<ul style="list-style-type: none"> ■ Culture and sensitivity for bacterial pathogens ■ (S. pneumoniae, H. influenzae, N. meningitidis etc.) ■ Microscopy for TB ■ Cartridge based nucleic acid amplification test (CBNAAT or TruNAAT for TB) 	<ul style="list-style-type: none"> ■ Blood culture and sensitivity 	<ul style="list-style-type: none"> ■ Real time polymerase chain reaction (RT- PCR) for <ul style="list-style-type: none"> ● SARSCoV2 ● Influenza A&B ● Human parainfluenza 1-4 ● Rhino virus ● Human corona virus 4 types ● Human metapneumo virus ● Human boca virus ● Adeno virus ● Respiratory syncytial virus A/B ● Mycoplasma pneumoniae ● Parecho virus ● Next generation sequencing (NGS) for above pathogens
Acute encephalitis syndrome (AES)		
<p>Blood</p> <ul style="list-style-type: none"> ■ IgM Elisa for Zika, Japanese encephalitis, West Nile fever 		<p>Cerebrospinal fluid</p> <ul style="list-style-type: none"> ■ IgM Elisa for Zika, Japanese encephalitis, West Nile fever ■ GeneXpert for tuberculosis ■ RT PCR for <ul style="list-style-type: none"> ● Japanese encephalitis ● Zika ● West Nile virus ● Chandipura virus ● Human enterovirus ● Nipah virus ● Human herpes virus 1 ● Varicella zoster virus ● Rabies virus ● Epstein barr virus ● Cytomegalo virus ■ Next generation sequencing (NGS) for above pathogens
Acute febrile illness with hemorrhage (AFIH)		
<ul style="list-style-type: none"> ■ IgM Elisa for dengue, Kyasanur forest disease, leptospira ■ Malaria smear test or rapid diagnostic kit test ■ Blood culture for Meningococcus ■ RT PCR for Kyasanur forest disease, hanta virus, Crimean Congo haemorrhagic fever, Alkhurma virus, yellow fever, Ebola, marburg, rift valley fever ■ NGS for above pathogens 		
Acute febrile illness with rash (AFIR)		
<p>Blood</p> <ul style="list-style-type: none"> ■ IgM Elisa for dengue, measles, Kyasanur forest disease, leptospira, scrub typhus ■ Blood culture for meningococcus ■ RT PCR for scrub typhus, Kyasanur forest disease, hanta virus, Crimean Congo haemorrhagic fever, Alkhurma virus, yellow fever, Ebola, marburg, rift valley fever ■ Next generation sequencing (NGS) for above pathogens 		<p>Nasopharyngeal swab</p> <ul style="list-style-type: none"> ■ RT PCR for measles