Supplementary Table 1. Definition of meningitis, ventriculitis and intracranial infection according to the guidelines of CDC [15]

| Meningitis/ventriculitis |
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| Presence of at least one of the following criteria: |
| (I) Organisms cultured from CSF |
| (II) Presence of at least one of the following signs or symptoms with no other recognized cause—fever (>38°C), headache, meningeal signs, cranial nerve signs, or irritability |
| and at least one of the following: |
| a. Increased white cells, elevated protein, and/or decreased glucose in CSF |
| b. Organisms seen on Gram stain of CSF |
| c. Organisms cultured from blood |
| d. Positive antigen test of CSF, blood, or urine |
| e. Diagnostic single antibody titer (IgM) or 4-fold increase in paired sera (IgG) for pathogen |
| and if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy. |

| Intracranial infection |
|------------------------|
| Presence of at least one of the following criteria was met: |
| (I) Patient has organisms cultured from brain tissue or dura. |
| (II) Patient has an abscess or evidence of intracranial infection seen during a surgical operation or histopathologic examination. |
| (III) Patient has at least two of the following signs or symptoms with no other recognized cause: headache, dizziness, fever (38°C), localizing neurologic signs, changing level of consciousness, or confusion. |
| and at least one of the following: |
| a. Organisms seen on microscopic examination of brain or abscess tissue obtained by needle aspiration or by biopsy |
| b. Positive antigen test on blood or urine |
| c. Radiographic evidence of infection (e.g., abnormal findings on ultrasound, CT scan, MRI, radionuclide brain scan, or arteriogram) |
| d. Diagnostic single antibody titer (IgM) or 4-fold increase in paired sera (IgG) for pathogen; |
| and if diagnosis is made antemortem, physician institutes appropriate antimicrobial therapy. |

CDC: Centers for Disease Control and Prevention; CSF: cerebrospinal fluid; IgM: immunoglobulin M; IgG: immunoglobulin G; CT: computed tomography; MRI: magnetic resonance imaging.