# Additional file 1.

## Pre-study defined consensus definitions:

### Meningitis:

* Symptoms and signs: (Headache, fever, neck stiffness, altered sensorium)
* Pleocytosis CSF (> 5 cells/microl)
* +/- relevant microbiology (incl. positive blood cultures), PCR - CSF

### Encephalitis:

* altered levels of consciousness
* pleocytosis In CSF (> 5 cells/microl)
* +/- relevant microbiology, PCR – CSF
* +/- radiology
* +/- EEG
* At least 1 of 3 diagnostic methods should be consistent with encephalitis

### Upper respiratory infections:

* Otitis:

Symptoms and signs

* + Objective otoscopic findings
  + +/- relevant microbiology from ear swab, puss, liquid from ear or from paracentesis
* Sinusitis:
  + Symptoms and signs
  + Radiology
  + +/- relevant microbiology from nasal swab
* Tonsillitis:
  + Symptoms and signs
  + +/- relevant microbiology from throat swab
* Laryngitis
  + relevant microbiology from throat swab

### Lower respiratory infections:

* Bronchitis:
  + Symptoms and signs
  + + relevant microbiology form secretions from respiratory system (sputum, tracheal aspirate, BAL)
  + +/- positive blood cultures
  + - infiltrate
* Pneumonia:
  + Symptoms and signs
  + Radiology
  + +/- relevant microbiology, PCR form secretions from respiratory system (sputum, tracheal aspirate, BAL)
  + +/- positive blood cultures

### Endocarditis:

* + echocardiography or Duke criteria
* +/- relevant microbiology (incl. positive blood cultures)

### Cholangitis:

* Blood biochemistry
* + radiology
* +/- relevant microbiology (incl. positive blood cultures)

### Cholecystitis:

* Blood biochemistry
* + radiology
* +/- relevant microbiology (incl. positive blood cultures)

### Gastroenteritis:

* Symptoms and signs
* + relevant microbiology form feces; (incl. positive blood cultures)

### Peritonitis:

* Symptoms and signs
* + radiology or purulent ascites fluid
* +/- relevant microbiology from peritoneal fluid
* +/- positive blood cultures

### Peritonitis (peritoneal dialysis patients)

* Abdominal pain
* + Combur test
* +/- relevant microbiology from peritoneal fluid
* +/- positive blood cultures

### Cystitis:

* Symptoms and signs: dysuria
* + dip test
* +/- relevant microbiology from urine
* +/- positive blood cultures

### Pyelonephritis:

* Symptoms and signs: dysuria + pain in the flank
* + dip test
* +/- relevant microbiology from urine
* +/- positive blood cultures

### Female genital tract infection:

* Symptoms and signs
* Gynecological findings
* +/- relevant microbiology from swabs taken from vagina or cervix
* +/- positive blood cultures

### Skin and soft tissue infections:

* Symptoms and signs (wound/infected wound, skin changes)
* +/- relevant microbiology from wound swabs
* +/- positive blood cultures

### Bone/joint infection:

* Symptoms and signs
* + image diagnotics
* +/- relevant microbiologiy from joint aspirate or bone biopsies

### Catheter infection:

* Symptoms and signs
* +/- radiology
* + relevant microbiology from the skin around catheter or from catheter tip swab
* +/- positive blood cultures

### Group I:

* Symptoms and signs
* + culture / PCR form usually sterile sites except urine

### Group II:

* Symptoms and signs
* + finding by imaging, histology, cytology or serology

### Uncertain group:

Infection signs are present without confirmed infection