

SUPPLEMENT S1

INCLUSION CRITERIA

1. Patient showed signs of systemic infection (meeting at least two criteria; one in each section):

- Temperature $\geq 38^{\circ}\text{C}$

and

- Heart Rate $> 90/\text{min}$
- Systolic Blood Pressure $< 100\text{mmHg}$
- Respiratory Rate $\geq 22/\text{min}$
- GCS <15

AND

2. Patients showed bacteria specific clinical signs/symptoms of infection with an ESKAPE pathogen (at least one criterion):

- positive urine test strip (Leukocyturia)
- acute bacterial skin and skin structure infections (ABSSSI)
- signs of abscesses in imaging procedure
- acute backpain without trauma and clinical suspected spondylodiscitis
- recent intravenous drug abuse
- endocarditis
- presence of intravascular devices
- presence of peritoneal dialysis
- previous evidence of colonization with ESKAPE organisms
- intraabdominal infection

EXCLUSION CRITERIA

- younger than 18 years
- presence of pneumonia (including clinical suspicion of pneumonia)
- presence of meningitis (including clinical suspicion of meningitis)
- presence ears, nose and throat (ENT) infection (including clinical suspicion of ENT infection)
- presence of or suspicion of colitis
- presence of Influenza or other viral disease explaining the symptoms
- persons who are incapable of giving consent

SUPPLEMENT S2

Defined targeted therapy depending on the found pathogen.

Pathogen	Targeted therapy	Targeted therapy if penicillin allergy exists
Enterococcus faecium	Linezolid, Vancomycin, Daptomycin	
Staphylococcus aureus	Isoxazolympenicillin, Cephalosporine 1 st Generation	
Klebsiella pneumoniae	Cephalosporine 3 rd Generation,	Ciprofloxacin/Levofloxacin
Acinetobacter baumannii	Meropenem	-
Pseudomonas aeruginosa	Piperacillin/Tazobactam, Ceftazidim, Cefepime	Aztreonam
Escherichia coli	Cephalosporine 2 nd or 3 rd Generation	-