**Supplementary Table 1. Microbiological findings of bile and blood cultures and the applied peri-interventional antibiotics in each patient**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Septi*Fast* mRT-PCRbile**  | **CMCbile** | **CMCblood** | **Pre-intervention antibiotic prophylaxis** | **≥24 h post-intervention empiric treatment** |
| 1. | *E. faecalis; C. albicans* | *E. faecalis; C. albicans* | - | Ceftriaxon | Ceftriaxon |
| 2. | *E. faecium; E. cloacae/aerogenes* | *Negative* | Negative | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |
| 3. | *E. coli, E. faecium; E. faecalis; C. albicans* | *E. faecium; C. albicans* | - | Ciprofloxacin and metronidazole | - |
| 4. | *K. pneumoniae/oxytoca* | *E. coli; K. oxytoca* | - | Cefixim | - |
| 5. | *E. faecium; C. albicans* | *Negative* | - | Ciprofloxacin and metronidazole | - |
| 6. | *Streptococcus spp.* | *Negative* | - | Ciprofloxacin and metronidazole | - |
| 7. | *Streptococcus spp; K.pneumoniae/oxytoca* | *Negative* | - | Ciprofloxacin and metronidazole | - |
| 8. | *P. aerugionsa; E. faecium; E. faecalis* | *P. aeruginosa* | - | Ceftriaxon | Ceftriaxon |
| 9. | *S. aureus; CoNS; C. albicans* | *C. albicans* | - | Ciprofloxacin and metronidazole. |  |
| 10. | *E. faecium; E. faecalis; E. cloacae/aerogenes* | *E. faecium (VRE)* | - | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |
| 11. | *E. faecium; E. faecalis; C. albicans; Streptococcus spp.; E. coli* | *E. coli; E. faecalis* | *K. pneumoniae* | Ciprofloxacin and metronidazole | Ciprofloxacin |
| 12. | *E. faecalis; E. coli* | *E. faecalis* | - | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |
| 13. | *E. faecalis* | *E. faecalis* | Negative | Ceftriaxon and metronidazole | - |
| 14. | *Streptococcus* spp | *Negative* | - | Ciprofloxacin and metronidazole | - |
| 15. | *Streptococcus spp.; K. pneumoniae/oxytoca* | *K. oxytoca* | - | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |
| 16.  | *E. faecium; K. pneumoniae/oxytoca* | *K. pneumoniae* | *K. pneumomiae* | Ciprofloxacin and metronidazole | Meropenem and vancomycin |
| 17. | *Streptococcus spp.; K. pneumoniae/oxytoca* | *Streptococcus anginosus* | Negative | Ciprofloxacin and metronidazole | - |
| 18. | *E. faecalis; C. albicans* | *E. faecalis; C. albicans* | - | Ciprofloxacin and metronidazole | - |
| 19. | *Negative* | *Negative* | - | Ceftriaxon | - |
| 20. | *Streptococcus* spp*.; C. albicans* | *C. albicans* | - | Ciprofloxacin and metronidazole | - |
| 21. | *E. faecium; E. faecalis; C. albicans* | *E. faecium; E. faecalis; C. albicans* | - | Ciprofloxacin and metronidazole | - |
| 22. | *E. faecium;* CoNS*; E. cloacae/aerogenes; E. coli; P. aeruginosa* | *E. faecium, CoNS* | - | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |
| 23.  | *E. cloacae/aerogenes; C. albicans* | *Hafnia spp.; C. albicans; E. faecalis* | *E. cloacae* | Piperacillin/Tazobactam | Piperacillin/tazobactam |
| 24. | *C. albicans; Stenotrophpmonas maltophilia; E. cloacae/aerogenes; K. pneumoniae/oxytoca; E. faecium* | *C. albicans; E. faecium (VRE)* | *E. faecium* (LVRE) | Linezolid, Piperacillin/Tazobactam | Daptomycin and meropenem |
| 25. | *K.pneumoniae/oxytoca; C. albicans* | *K. pneumoniae; C. albicans; E. casseliflavus* | *K. pneumoniae* | Piperacillin/Tazobactam | Piperacillin/tazobactam |
| 26. | *E. faecium; E. faecalis; K. pneumoniae/oxytoca* | *E. faecium* | - | Ciprofloxacin and metronidazole | Ciprofloxacin and metronidazole |

CoNS, *coagulase-negative staphylococci; P. aeruginosa, Pseudomonas aeruginosa; C. albicans, Candida albicans; E. coli, Escherichia coli; E. faecalis, Enterococcus faecalis; K. pneumoniae/oxytoca, Klebsiella pneumoniae, Klebsiella oxytoca; E. faecium, Enterococcus faecium; E. cloacae/aerogenes, Enterobacter cloacae, Enterobacter aerogenes; Staph. aureus, Stapylococcus aureus; S. maltophilia, Stenotrophomonas maltophilia;* P, patient; CMCblood, conventional microbial culture of blood samples; mRT-PCRbile, multiplex real-time PCR of bile samples, CMCbile, conventional microbial culture of bile sample.