**Supplemental Digital Content 2: Characteristic of Patients with Bacteremia**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case** | **Age** | **Organism** | **Penicillin****MIC** | **Initial Antibiotic** | **Blood Culture Directed Changes in Management** | **Final****Antibiotic** |
| 1 | 10 yrs | *S. pneumoniae*(serotype 19A) | 0.125 | AmpicillinErythromycin | Changed to vancomycin after initial positive blood culture; Changed to cefotaxime after final blood culture result | Amoxicillin |
| 2 | 5 yrs | *S. aureus*(methicillin-resistant) | N/A | Ampicillin | Added vancomycin after final blood culture result | Linezolid |
| 3 | 4 yrs | *S. pneumoniae*(serotype 9N) | 0.032 | Ampicillin-Sulbactam | Discontinued vancomycin after final blood culture result | Ampicillin |
| 4 | 10 mo | *S. pneumoniae*(serotype 3) | 0.064 | Amoxicillin | None | Amoxicillin |
| 5 | 1 yr | *S. pneumoniae*(serotype 19A) | 0.125 | Vancomycin Cefotaxime | Vancomycin discontinued after organism sensitivity information became available | Clindamycin |
| 6 | 11 mo | *H. influenzae**(non-typable)* | N/A | Vancomycin Ceftazidime | Changed to ampicillin after final blood culture result | Amoxicillin |
| 7 | 6 yrs | *Staphylococcus**hominusa**Staphylococcus**epidermidisa* | N/A | Ceftazidime | None | Clindamycin |
| 8 | 3 yrs | *Staphylococcus**epidermidisa* | N/A | Amoxicillin | None | Amoxicillin |
| 9 | 2yrs | Coagulase negative*Staphylococcus*\* | N/A | Ampicillin | Added Vancomycin after initial positive blood cultureDiscontinued Vancomycin after final blood culture result | Amoxicillin |
| Abbreviations: MIC, minimum inhibitory concentration; N/A, not applicableaDetermined to be contaminants |