**SDC 1: Comparison of Pathogen Identification by Culture and by PCR**

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| --- | --- | --- | --- |
| **Pathogen** | **Positive by Culture of****Blood or Pleural Fluid****(% specimens positive)** | **Positive by PCR of****Pleural Fluid** **(% specimens positive)** | **p-value****(detection by culture vs. by PCR)** |
| *Streptococcus pneumoniae*Serotype 19ASerotype 7FSerotype 3Serotype 1 | 15 (24%)5 (8%)8 (13%)1 (2%)1 (2%) | 45 (71%)6 (10%)21 (33%)6 (10%)2 (3%) | **<0.001\*\***1**0.010\***0.1151 |
|  |
| *Staphylococcus aureus*MRSAMSSA | 4 (6%)4 (6%)0 | 5 (8%)3 (5%)12 (3%) | 110.496 |
|  |
| *Streptococcus pyogenes* | 3 (5%) | 7 (11%) | 0.323 |
|  |
| *Haemophilus influenzae* | 0 | 1 (2%) | 1 |
|  |
| *Mycoplasma pneumoniae* | 0 | 1 (2%) | 1 |
|  |
| **Total Specimens Pathogen-Positive** | 22 (35%) | 53(84%)2 | **<0.001\*\*** |

\*

1One patient with a negative PF culture and a blood culture positive for MRSA was negative by PF PCR

2By PCR 59 pathogens were identified from 53 PF specimens; 6 PF specimens were positive for 2 bacteria each;

9 patients had no pathogen identified by culture or PF PCR

\*p < 0.05

\*\*p < 0.001