

## ELECTRONIC SUPPLEMENTARY MATERIAL

### **Moderate positive predictive value of a multiplex real-time PCR on whole blood for pathogen detection in critically ill patients with sepsis**

Kirsten van de Groep, Martine P. Bos, Meri R.J. Varkila, Paul H.M. Savelkoul, David S.Y. Ong, Lennie P.G. Derde, Nicole P. Juffermans, Tom van der Poll, Marc J.M. Bonten, Olaf L. Cremer, *on behalf of the MARS consortium.*

#### **Content:**

Appendix I. Template of case vignette used for expert panel

**APPENDIX I. Template of case vignette used for expert panel**

<b>CASE VIGNETTE CLINICAL VALIDATION BSI-PCR</b>			
<b>Initials reviewer:</b>			
<b>Patient_TK</b>		<b>Date sepsis</b>	
<b>Hospital admission date</b> <b>ICU admission date</b>		<b>Date PCR sample</b>	
<b>Clinical summary:</b>			
<p>X-year-old female. Hospital admission on DATE, because of an ischemic CVA. Recovery complicated by two times pneumosepsis with two consequent ICU-admissions. During first ICU admission <i>E. coli</i> in sputum culture and treatment with cefotaxime. DATE again fever, sputum, leucocytes 19, sputum culture positive with <i>S. aureus</i>. On DATE re-admission to the ICU with pneumosepsis and septic shock, antimicrobial treatment initiated. Differential diagnosis re-activation of Crohn disease, but ruled out on CT-abdomen (signs of stenosis, but no evident new pathology).</p> <p><u>Relevant medical history:</u> Crohn disease.</p> <p><u>Antimicrobial treatment:</u> DATE: empiric metronidazol/vancomycin/gentamycin DATE: de-escalation based on culture results to flucloxacillin</p>			
<b>Relevant culture results</b>			
SC 23/1	E. coli		
SC 28/3	S. aureus (+++)		
SC 2/3	S. aureus (++) ; C. krusei ; throatflora		
UC 2/3	C. krusei		
BC 2/3	S. epidermidis (1 out of 2 sets)		
BC 1/3 & 28/2	Negative		
<b>MARS classification</b>			
<u>Primary Site</u>	HAP (probable)	<u>Secondary Site</u>	Sec. peritonitis (none)
Pathogens:	S. aureus		-
<b>PCR-results</b>			<b>REVIEWER:</b>
<i>P. aeruginosa</i>	(Ct 40)	<b>Classification PCR-result (TP/FP/?)</b>	
<i>S. pneumoniae</i>	(Ct 40)	<b>Classification PCR-result (TP/FP/?)</b>	
<b>Short comment reviewer:</b>			