**SDC 2, Materials and Methods**

**Microbiological PCR diagnosis**

*P. jirovecii* DNA was detected in induced sputum and/or BAL specimens using an ‘in-house’ real-time PCR assay adapted from Brancart (31). The *P. jirovecii* β-tubulin gene was amplified using primers 1186F (5’-GATCCGAGACATGGTCGCTATT) and 1257R (5’-TTCAACCTCCTTCATGGAAACAG), and TaqMan 1212T probe (5’-6FAM-TGTTGCAGCGATTTTCCGCGGTA-BHQ1). DNA was extracted from samples using NucliSENS® easyMAG® (bioMérieux, Castle Hill, NSW, Australia) according to manufacturer’s instructions. Each 20μL - PCR reaction contained 1xLC FastStart reaction mix (containing FastStart *Taq* DNA polymerase, reaction buffer, dNTPs and 1mM MgCl2), 3.5mM MgCl2, 0.5μM 1186F and 1257R primers, 0.05μM 1212T probe and 10μl DNA. Cycling parameters were 95oC for 10 min, followed by 40 cycles 95oC for 5s, 58oC for 20s and 72oC for 20s. Samples with a crossing value <37.3 cycles were classified “positive” for *P. jirovecii*. (31)