

Molecular Detection and Characterization of *Rickettsia asembonensis* Human Blood, Zambia

Appendix

Appendix Table 1. Classification of clinical manifestation of sampled individuals obtained from hospitals in Lusaka and Chongwe, Zambia.

Clinical manifestation or disease name	Number of samples in the category
Febrile illness	10
Neurologic symptoms (meningitis)	12
Septicemia	22
Anemia	36
Sickle cell anemia	45
HIV	18
Malaria	24
Respiratory infection	49
Others	87
No clinical information provided	450
Total	753

Appendix Table 2. Primers for amplification of genes from *Rickettsia* spp. and *Plasmodium* spp

Target gene	Target pathogen	Annealing temperature (°C)	Amplicon size (bp)	Oligonucleotide sequence (5'-3')	Reference
Citrate synthase gene (<i>gltA</i>)	<i>Rickettsia</i> genus	54	581	Forward: <i>gltA_Fc</i> CGAACTTACCGCTATTAGAATG	(1)
				Reverse: <i>gltA_Rc</i> CTTTAAGAGCGATAGCTTCAAG	
Outer membrane A gene (<i>ompA</i>)*	Spotted fever group rickettsia	48	258	Forward: <i>ompA_Fm</i> TGCAGGGCTTAGATATTCGGC	(2)
				Reverse: <i>ompA_Rm</i> AAGCTGTTGGTAAAGGAGCA	
Outer membrane protein B gene (<i>ompB</i>)	Spotted fever group rickettsia	48	776	Forward: <i>ompB_Fm</i> GGACCTGAAGCTGGAGCAAT	(2)
				Reverse: <i>ompB_Rm</i> CTGTCAGGCTGGCTGATGAA	
17kDa common antigen gene (<i>htrA</i>)	<i>Rickettsia</i> genus	50	545	Forward: 17k_5 GCTTTACAAAATTCTAAAAACCATATA	(3)
				Reverse: 17k_3 TGTCTATCAATTCACAACCTTGCC	
Small subunit ribosomal RNA gene (SSU rRNA)	<i>Plasmodium</i> genus	60	620	Forward: rPLU 1 TCAAAGATTAAGCCATGCAAGTGA	(4)
				Reverse: rPLU 5 CCTGTTGTTGCCTTAAACTTC	
Small subunit ribosomal RNA genes (SSU rRNA)	<i>Plasmodium</i> genus (nested-PCR)	60	240	Forward rPLU 3: TTTTTATAAGGATAACTACGAAAAGCTGT	(4)
				Forward rPLU 4: TACCCGTCATAGCCATGTTAGGCCAATACC	

* *OmpA* primer set used for estimation of rickettsial load by quantitative real-time PCR using SYBR Green assay.

References

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