Supplementary files

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Table S1. Reference genomes and metadata used in the phylogenetic analysis.

	Organism	Strain	GenBank Assembly Accession	Isolation Source	ST	Country	Collection Year
1	*B. pseudomallei*	This study[a]	-	Host-associated (human/clinical)	51	China	2025
2	*B. pseudomallei*	K96243	GCF_000011545.1	Host-associated (human/clinical)	10	Thailand	1996
3	*B. pseudomallei*	1710b	GCF_000012785.1	Host-associated (human/clinical)	177	Thailand	1996
4	*B. pseudomallei*	1106a	GCF_000015925.1	Host-associated (human/clinical)	70	Thailand	1996
5	*B. pseudomallei*	BPC006	GCF_000294635.1	Host-associated (human/clinical)	70	China	2008
6	*B. pseudomallei*	MSHR305	GCF_000439695.1	Host-associated (human/clinical)	36	Australia	1994
7	*B. pseudomallei*	MSHR520	GCF_000583835.1	Host-associated (human/clinical)	36	Australia	1998
8	*B. pseudomallei*	vgh07	GCF_000954175.1	Host-associated (human/clinical)	58	China	1996
9	*B. pseudomallei*	1026b	GCF_000959125.1	Host-associated (human/clinical)	102	Thailand	1993
10	*B. pseudomallei*	406e	GCF_000959145.1	Host-associated (human/clinical)	211	Thailand	1988
11	*B. pseudomallei*	MSHR840	GCF_000959185.1	Host-associated (human/clinical)	257	Australia	1999
12	*B. pseudomallei*	MSHR491	GCF_000959205.1	Water	126	Australia	1997
13	*B. pseudomallei*	7894	GCF_000959265.1	Host-associated (human/clinical)	11	Ecuador	1962
14	*B. pseudomallei*	K96243	GCF_000959285.1	Host-associated (human/clinical)	10	Thailand	1993
15	*B. pseudomallei*	vgh16R	GCF_001277875.1	Host-associated (human/clinical)	1001	Taiwan	2001
16	*B. pseudomallei*	982	GCF_001277975.1	Host-associated (human/clinical)	1477	Malaysia	2015
17	*B. pseudomallei*	MS	GCF_001695735.1	Host-associated (human/clinical)	1034	Malaysia	2015
18	*B. pseudomallei*	VB976100	GCF_001885195.1	Host-associated (human/clinical)	436	Czech Republic	2014
19	*B. pseudomallei*	MSHR7929	GCF_001975065.1	Host-associated (human/clinical)	437	Australia	2013
20	*B. pseudomallei*	2011756189	GCF_002111165.1	Host-associated (human/clinical)	92	Switzerland	2010
21	*B. pseudomallei*	2013746811	GCF_002111225.1	Host-associated (human/clinical)	17	USA	2013

	Organism	Strain	GenBank Assembly Accession	Isolation Source	ST	Country	Collection Year
22	*B. pseudomallei*	3000047530	GCF_002111285.1	Host-associated (human/clinical)	92	USA	2014
23	*B. pseudomallei*	3000465972	GCF_002111305.1	Host-associated (human/clinical)	436	USA	2015
24	*B. pseudomallei*	2002721171	GCF_002111345.1	Host-associated (human/clinical)	12	Venezuela	1976
25	*B. pseudomallei*	MSHR1435	GCF_002843645.1	Host-associated (human/clinical)	131	Australia	2002
26	*B. pseudomallei*	14M0960418	GCF_002860065.1	Host-associated (human/clinical)	70	China	2014
27	*B. pseudomallei*	PMC2000	GCF_003547055.1	Host-associated (human/clinical)	84	Malaysia	2000
28	*B. pseudomallei*	BPs110	GCF_004323015.1	Host-associated (human/clinical)	1152	Sri Lanka	2015
29	*B. pseudomallei*	BPs111	GCF_004323035.1	Host-associated (human/clinical)	1364	Sri Lanka	2015
30	*B. pseudomallei*	BPs123	GCF_004367685.1	Host-associated (human/clinical)	13	Sri Lanka	2015
31	*B. pseudomallei*	BPs133	GCF_004367725.1	Host-associated (human/clinical)	594	Sri Lanka	2015
32	*B. pseudomallei*	WC19	GCF_018228345.1	Soil	51	Singapore	2019
33	*B. pseudomallei*	BD5	GCF_018228385.1	Water	51	Singapore	2019
34	*B. pseudomallei*	MSHR5087	GCF_028201395.1	Unknown	881	Malaysia	2011
35	*B. pseudomallei*	GTC3P0019	GCF_030297195.1	Monkey	51	Singapore	1935
36	*B. pseudomallei*	GTC3P0054	GCF_030297235.1	Rattus norvegicus	51	NA	missing
37	*B. pseudomallei*	GTC3P0254T	GCF_030297255.1	Host-associated (human/clinical)	51	USA	missing
38	*B. pseudomallei*	Kanagawa	GCF_030297275.1	Host-associated (human/clinical)	821	Japan	2010
39	*B. pseudomallei*	Tokushima	GCF_030297295.1	Host-associated (human/clinical)	46	Japan	2013
40	*B. pseudomallei*	SCBP007	GCF_038983115.1	Host-associated (human/clinical)	99	Thailand	2020
41	*B. pseudomallei*	TSV287_S	GCF_051560105.1	Host-associated (human/clinical)	35	Australia	2018
42	*B. pseudomallei*	Bp29	GCF_052854015.1	Soil	90	Viet Nam	2017
43	*B. pseudomallei*	Bp25	GCF_052854605.1	Soil	17	Viet Nam	2017
44	*B. pseudomallei*	Bp18	GCF_052855315.1	Soil	56	Viet Nam	2017
45	*B. pseudomallei*	Bp17	GCF_052855605.1	Soil	169	Viet Nam	2017
46	*B. pseudomallei*	Bp15	GCF_052855985.1	Soil	376	Viet Nam	2017
47	*B. pseudomallei*	CQ2024Bp-001	GCF_048159275.1	Host-associated (human/clinical)	46	China	2024

	Organism	Strain	GenBank Assembly Accession	Isolation Source	ST	Country	Collection Year
48	*B. pseudomallei*	CQ2024Bp-002	GCF_048159185.1	Host-associated (human/clinical)	2149	China	2024

[a]*B. pseudomallei* This study was isolated in this study. NA, not applicable; ST, Sequence Type.

Table S2. Search strategy.

Database (Search date)	Search strategy	References identified
PubMed/MEDLINE (5 November 2026)	Via PubMed: (melioidosis[MeSH Terms] OR melioidosis[Title/Abstract] OR "Burkholderia pseudomallei"[Title/Abstract]) AND (osteomyelitis[MeSH Terms] OR "Arthritis, Infectious"[MeSH Terms] OR osteomyelitis[Title/Abstract] OR "septic arthritis"[Title/Abstract] OR osteoarticular[Title/Abstract] OR musculoskeletal[Title/Abstract] OR "bone and joint"[Title/Abstract] OR spondylodiscitis[Title/Abstract] OR spondylitis[Title/Abstract] OR discitis[Title/Abstract]) Via MEDLINE (EBSCOhost): (MH "Melioidosis+" OR TI (melioidosis OR "Burkholderia pseudomallei") OR AB (melioidosis OR "Burkholderia pseudomallei")) AND (MH "Osteomyelitis+" OR MH "Arthritis, Infectious+" OR TI (osteomyelitis OR "septic arthritis" OR osteoarticular OR musculoskeletal OR "bone and joint" OR spondylodiscitis OR spondylitis OR discitis) OR AB (osteomyelitis OR "septic arthritis" OR osteoarticular OR musculoskeletal OR "bone and joint" OR spondylodiscitis OR spondylitis OR discitis))	214
Web of Science (5 November 2026)	TS=(melioidosis OR "Burkholderia pseudomallei") AND TS=(osteomyelitis OR "septic arthritis" OR osteoarticular OR musculoskeletal OR "bone and joint" OR spondylodiscitis OR spondylitis OR discitis)	108

Records retrieved via PubMed and via EBSCOhost were pooled and de-duplicated so that each record was counted once (1 record not retrieved by the PubMed search).

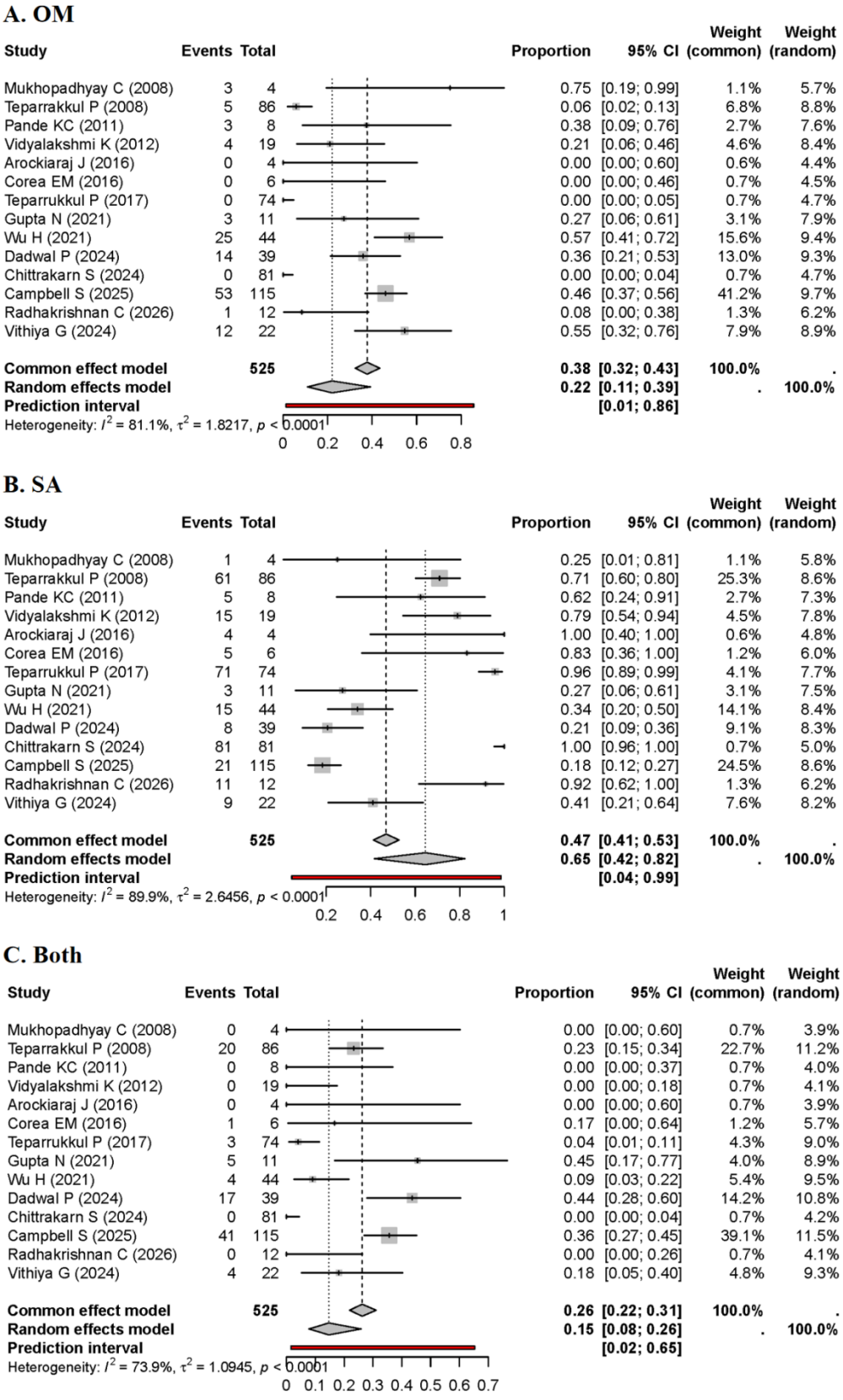

Figure S1. Forest plots of the pooled proportions of osteomyelitis (A), septic arthritis (B), and combined bone and joint involvement (C) among patients with osteoarticular melioidosis.

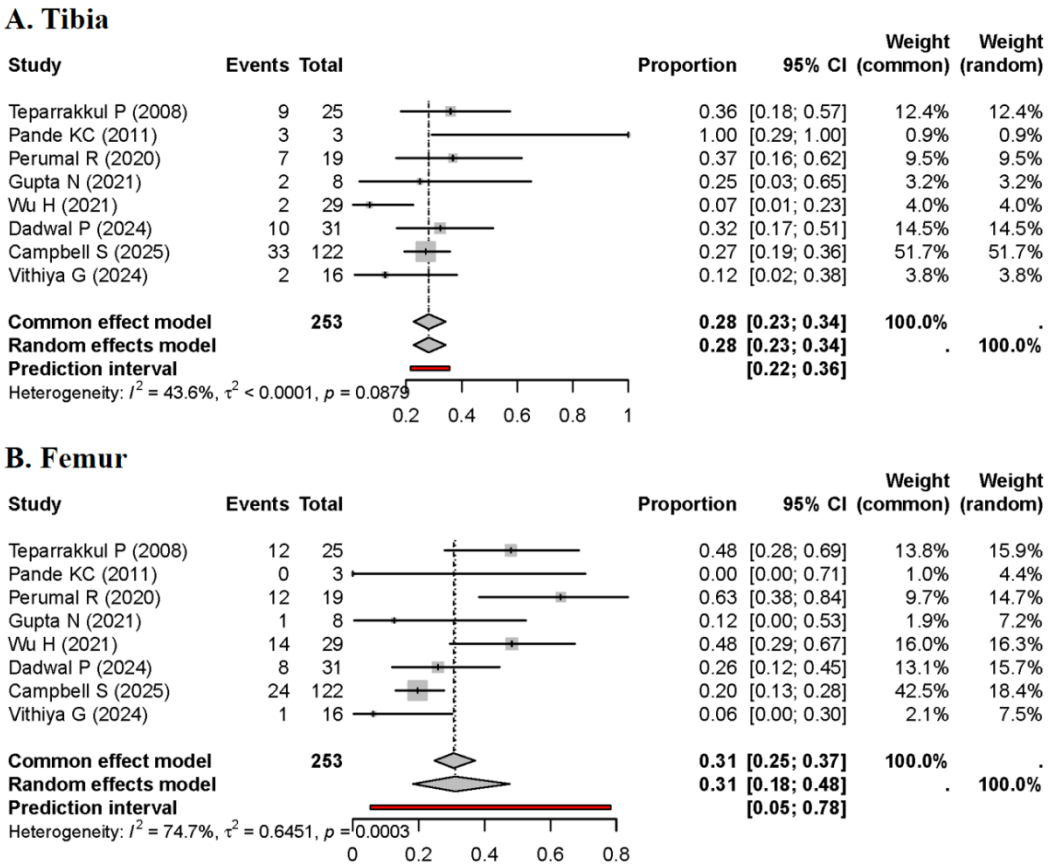

Figure S2. Forest plots of the pooled proportions of tibial (A) and femoral (B) involvement among patients with osteoarticular melioidosis complicated by osteomyelitis.

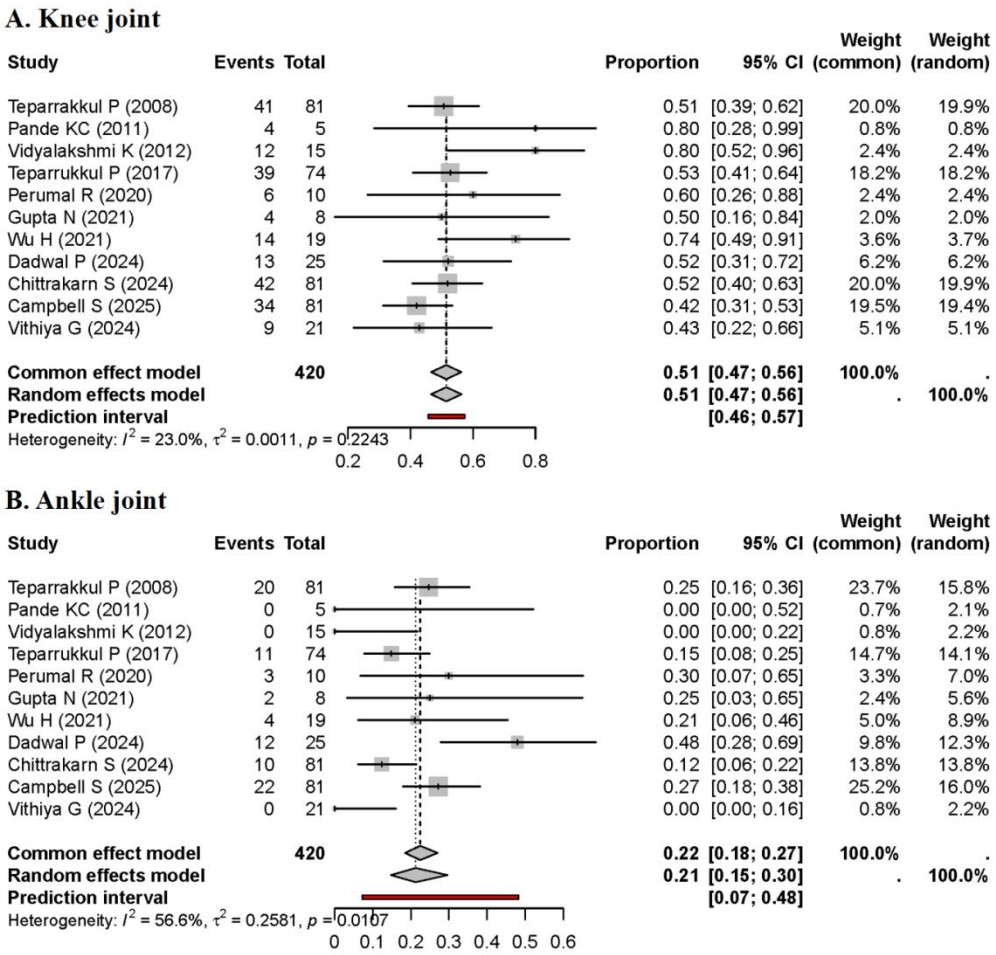

Figure S3. Forest plots of the pooled proportions of knee (A) and ankle (B) involvement among patients with osteoarticular melioidosis complicated by septic arthritis.

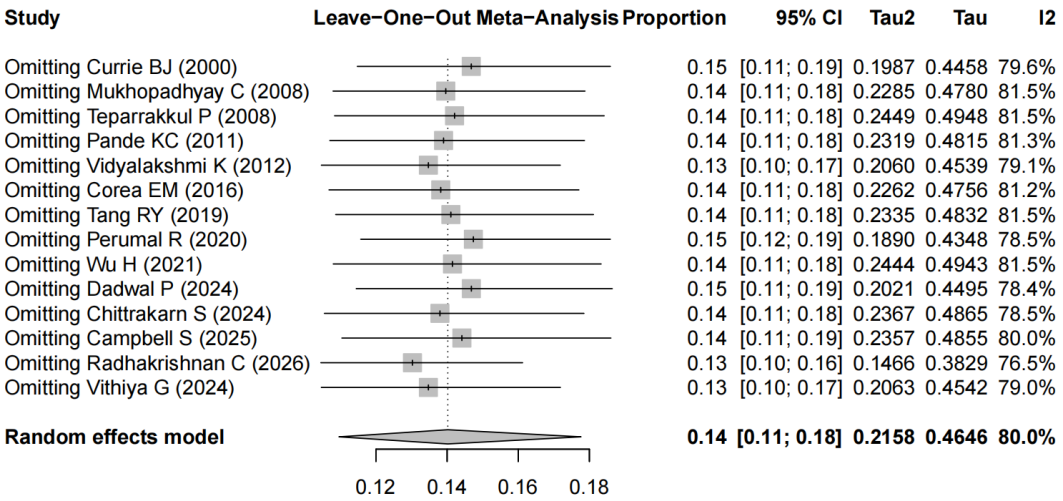

Figure S4. Leave-one-out sensitivity analysis of the pooled proportion of osteoarticular involvement among patients with melioidosis.

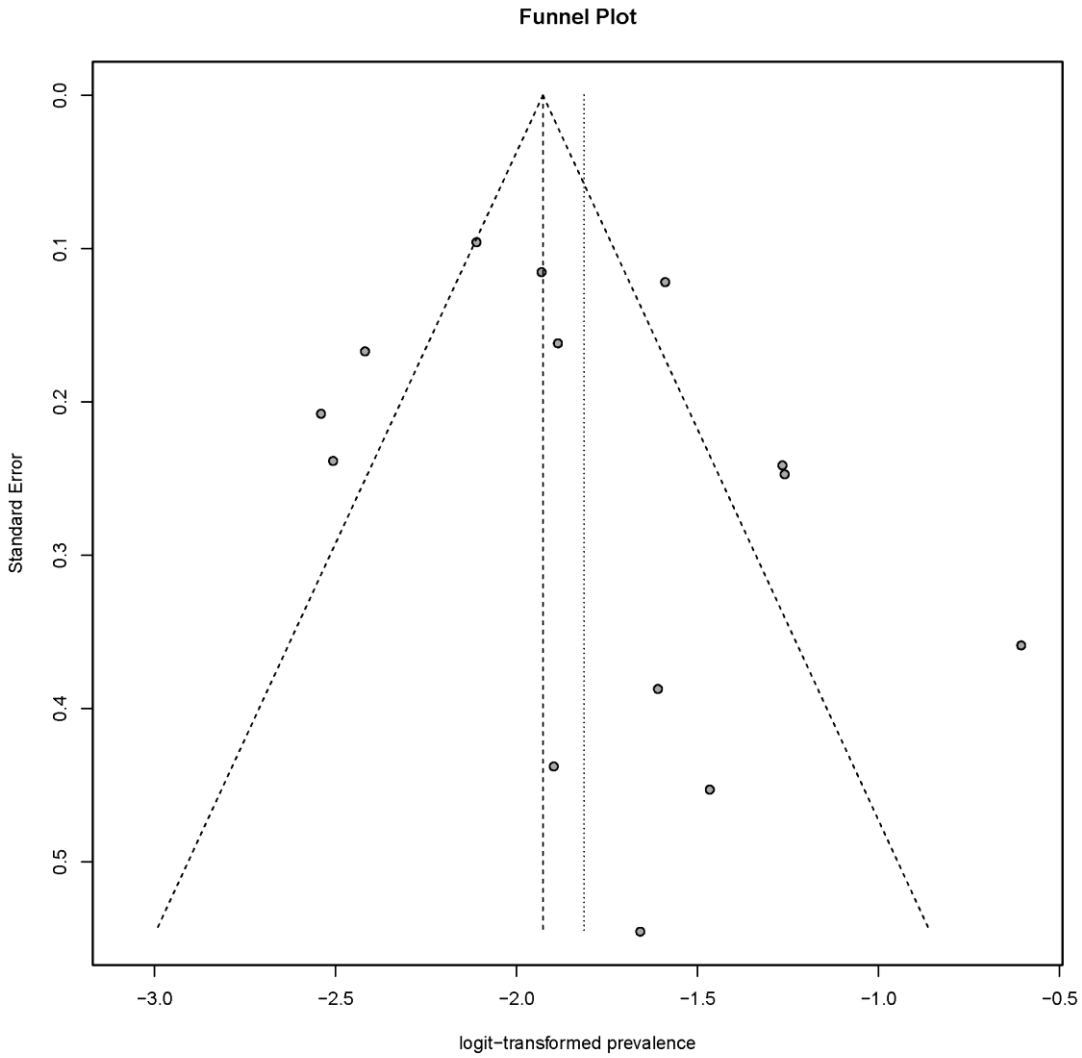

Figure S5. Funnel plot for the assessment of the pooled proportion of osteoarticular involvement among patients with melioidosis.