

Appendix Table. Epidemiologic and 23-locus VNTR data for 15 isolates of *Burkholderia mallei* from the Punjab province, Pakistan, and 9 *Burkholderia mallei* whole genome sequences*

| Isolate | District | Type of equid | Collection year (mo) | Collection source | Clinical form | VNTR loci† | | | | | | | | | | | | | | | | | | | | | | |
|--------------|----------|-----------------|----------------------|----------------------------------|---|------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | 20k | 389k | 397k | 857k | 933k | 1500k | 1690k | 1764k | 1788k | 1934k | 2050k | 2065k | 2170k | 2341k | 2356k | 2445k | 2666k | 2815k | 3091k | 3145k | 3152k | 3564k | 3652k |
| PRL1 | F | Donkey | 2002 | Skin nodule aspirate | Pneumonic and cutaneous | 9 | 7 | 13 | 10 | 6 | Null | 10 | 8 | 5 | Null | 17 | 12 | 18 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 23 | 23 | 6 |
| PRL2 | F | Horse (mare) | 1999 (Jun) | Nasal swab | Pneumonic | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 20 | 13 | 24 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 13 |
| PRL3 | S | Horse (gelding) | 2005 (Dec) | Skin nodule aspirate | Pneumonic and cutaneous | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 20 | 13 | 24 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 13 |
| PRL4 | S | Horse (gelding) | 2005 (Dec) | Skin nodule aspirate | Cutaneous and nasal | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 20 | 13 | 24 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 13 |
| PRL7§ | F | Horse | 2000 | Skin nodule aspirate | Cutaneous and nasal | 10 | 6 | 12 | 11 | 8 | Null | 10 | 8 | 6 | Null | 26 | 10 | 25 | 3 | 9 | 3 | 2 | 6 | 9 | 8 | 19 | 23 | 12 |
| PRL11 | F | Horse | 1999 (Jun) | Skin nodule aspirate | Cutaneous and nasal | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 19 | 13 | 21 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 12 |
| PRL13 | F | Horse | 1999 (Jun) | Skin nodule aspirate | Cutaneous and nasal | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 19 | 13 | 21 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 12 |
| PRL19 | L | Horse (gelding) | 2005 (Sep) | Skin nodule aspirate | Cutaneous | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | Null | 13 | 24 | 3 | Null | 3 | 2 | 6 | 10 | 5 | 24 | Null | 13 |
| PRL20§ | L | Horse (gelding) | 2005 (Sep) | Blood | Septic; pneumonic, cutaneous, and nasal | 9 | 7 | 13 | 10 | 6 | Null | 10 | Null | 5 | Null | 17 | 12 | 18 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 23 | 23 | 6 |
| PRL33 | F | Donkey | 2007 | Skin nodule aspirate | Pneumonic and cutaneous | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 19 | 13 | 21 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 12 |
| PRL34 | F | Donkey | 2007 | Nasal swab | Pneumonic | 9 | 9 | 13 | 10 | 10 | Null | 10 | 8 | 5 | Null | 20 | 13 | 24 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 24 | 23 | 13 |
| PRL41 | F | Mule | 2006 | Skin nodule aspirate | Neurologic and pneumonic | 9 | 7 | 13 | 10 | 6 | Null | 10 | 8 | 5 | Null | 20 | 12 | 19 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 23 | 23 | 6 |
| PRL42 | F | Mule | 2007 | Skin nodule aspirate | Cutaneous | 10 | 6 | 12 | 11 | 8 | Null | 10 | 8 | 5 | Null | 18 | 9 | 26 | 3 | 8 | 3 | 2 | 6 | 9 | 8 | 14 | 23 | 11 |
| PRL44 | S | Mule | 2007 (Feb) | Nasal swab | Nasal | 9 | 9 | 13 | 9 | 10 | Null | 10 | 8 | 5 | Null | 22 | 13 | 21 | 3 | 6 | 3 | 2 | 6 | 10 | 5 | 23 | 23 | 13 |
| PRL45 | F | Mule | 2007 | Skin nodule aspirate | Cutaneous and nasal | 10 | 6 | 13 | 11 | 8 | Null | 10 | 8 | 5 | Null | 18 | 9 | 26 | 3 | 8 | 3 | 2 | 6 | 9 | 8 | 14 | 23 | 11 |
| 200272 1280§ | NA | Unknown | Unknown | Unknown | NA | 11 | 7 | 13 | 10 | 14 | 4 | 7 | 15 | 5 | 19 | 17 | 7 | 22 | 3 | 7 | Null | 2 | 4 | Null | 9 | 19 | 16 | 15 |
| ATCC 23344§ | NA | NA (human) | 1944 | Knee fluid, skin pustules, blood | NA | 30 | 6 | 9 | 13 | 9 | 4 | 9 | 8 | 5 | 20 | 20 | 13 | Null | 3 | 9 | 3¶ | 2 | 4 | 9 | 7 | 24 | 21 | 4 |
| FMH§ | NA | NA (human) | Unknown | Unknown | NA | 30 | 6 | 9 | 13 | 9 | 4 | 9 | 8 | 5 | 20 | 20 | 13 | Null | 3 | 9 | 3 | 2 | 4 | 9 | 7 | 24 | 21 | 4 |

Publisher: CDC; Journal: Emerging Infectious Diseases
Article Type: Dispatch; Volume: 15; Issue: 12; Year: 2009; Article ID: 09-0738
DOI: 10.3201/eid1512.090738; TOC Head: Dispatch

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|-----------------|----|---------------|---------|---------|----|----|------|------|------|----|------|---|------|---|------|----|----|------|---|----|---|---|---|----|----|----|----|----|
| JHU§ | NA | NA (human) | Unknown | Unknown | NA | 30 | 6 | 9 | 13 | 9 | 4 | 9 | Null | 5 | 20 | 20 | 12 | Null | 3 | 9 | 3 | 2 | 4 | 9 | 7 | 24 | 21 | 4 |
| GB8 Horse 4§ | NA | Horse | Unknown | Unknown | NA | 34 | 6 | 9 | 13 | 9 | 4 | 9 | Null | 5 | 20 | 20 | 13 | Null | 3 | 9 | 3 | 2 | 4 | 9 | 7 | 24 | 21 | 4 |
| NCTC 10247§ | NA | Unknown | 1960 | Unknown | NA | 10 | 7 | 17 | 10 | 6 | 4 | 9 | Null | 5 | 17 | 16 | 13 | 23 | 3 | 8 | 3 | 2 | 4 | 10 | 9 | 23 | 23 | 12 |
| NCTC 10229§ | NA | Unknown | 1961 | Unknown | NA | 12 | 12 | 17 | 10 | 11 | 4 | 9 | 16 | 6 | 18 | 20 | 9 | 14 | 3 | 8 | 3 | 2 | 4 | 9 | 10 | 29 | 23 | 14 |
| SAVP1§ | NA | Unknown | Unknown | Unknown | NA | 10 | Null | Null | Null | 5 | Null | 9 | 8 | 5 | Null | 21 | 11 | 23 | 3 | 7 | 3 | 2 | 5 | 9 | 5 | 15 | 23 | 9 |
| ATCC 10399§ | NA | Horse | 1942 | Lung | NA | 19 | 5 | 9 | 11 | 11 | 4 | 9 | Null | 5 | 15 | 27 | 6 | 32 | 3 | 12 | 3 | 2 | 3 | 9 | 8 | 8 | 24 | 8 |

*VNTR, variable number tandem repeats; PRL, postgraduate research laboratory; F, Faisalabad; S, Sargodha; L, Lahore; NA, not applicable.

†For the 23 loci, data are given as repeat copy number following the methods from (7). For whole genome sequences, repeat copy number was determined by in silico genotyping using the defined repeat motifs as described in (7). Null indicates PCR or in silico failure, likely because of mutations in the priming sites or incomplete sequencing of VNTR regions and does not necessarily indicate absence of a VNTR region.

§Information on whole genome sequence available from (8).

¶This locus has also been used in (5) against this isolate. Using the methods and defined repeat motif for this locus from (7) our raw data and in silico data from the whole genome sequence suggest 3 copies of this repeat, whereas (5) reported 5 copies.