**Information to support data files**

Manuscript: Practical and effective diagnosis of animal anthrax in endemic low-resource settings

Epi\_data\_anthrax367\_Aug2020 contains data for suspected anthrax incidents investigated. Associated metadata includes: ID, species, estimated age category, time sample was collected after death of the animal, intactness of carcass at the time of sampling, body condition of animal before death, sex and year of collection.

PCR\_results\_anthrax\_Aug2020 contains details of quantitative polymerase chain reaction (qPCR) testing. It includes data on the sample materials tested for each carcass (sampleID) and cycle threshold (Ct) values for the two plasmid-associated targets *cap* (PXO2) and *lef* (PXO1) and chromosomal target (PF3). The Ct value in the final column represents the highest of the three Ct values across these targets, which was used in the Latent Class model.

Microscopy results\_anthrax\_Aug2020: This file contains data on microscopy results of blood smears from anthrax-suspect carcasses stained with Azure B, polychrome methylene blue (PMB), Rapi-Diff II and Giemsa stains, as well as qPCR results from smear scrapings. It includes data on the species, age category, sex, sampling time post mortem, and intactness of the carcass sampled. Zeros (0) represent a negative result, while ones (1) represent a positive result. NA = not applicable/available.

InterObserver\_agreement\_Aug2020: This file contains data on (1) results of observations carried out by multiple persons on blood smear samples stained with Azure B, polychrome methylene blue (PMB), Rapi-Diff II and Giemsa; (2) results of observations carried out by multiple persons preparing and reading stains with Azure B. The capsule scoring system is explained in S1\_Fig; (3) results of microscopy testing carried out at the Tanzania Veterinary Laboratory Agency. Zeros (0) represent a negative result, while ones (1) represent a positive result. NA = not applicable/available.

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