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Molecular Detection of Wesselsbron Virus in Dromedary Camels, Borana Zone, Ethiopia, 2024

Appendix

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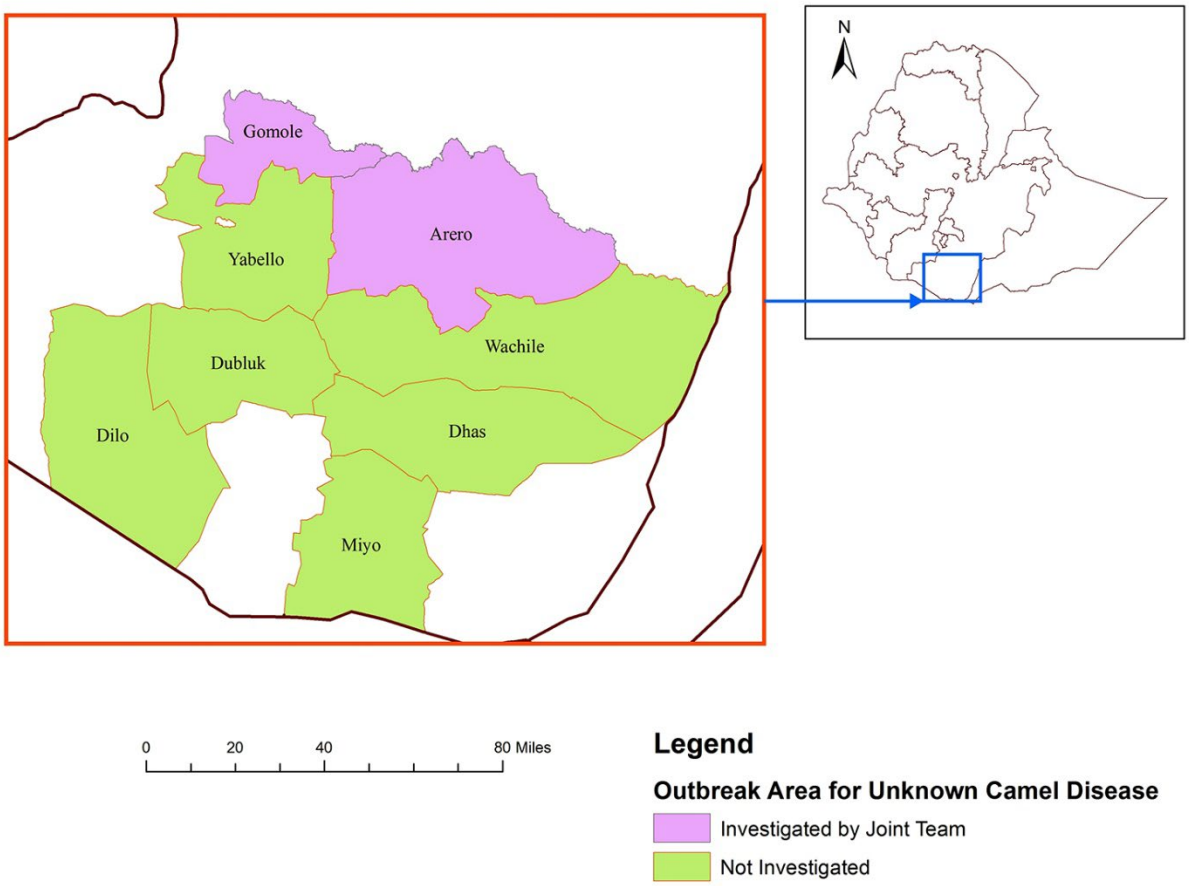
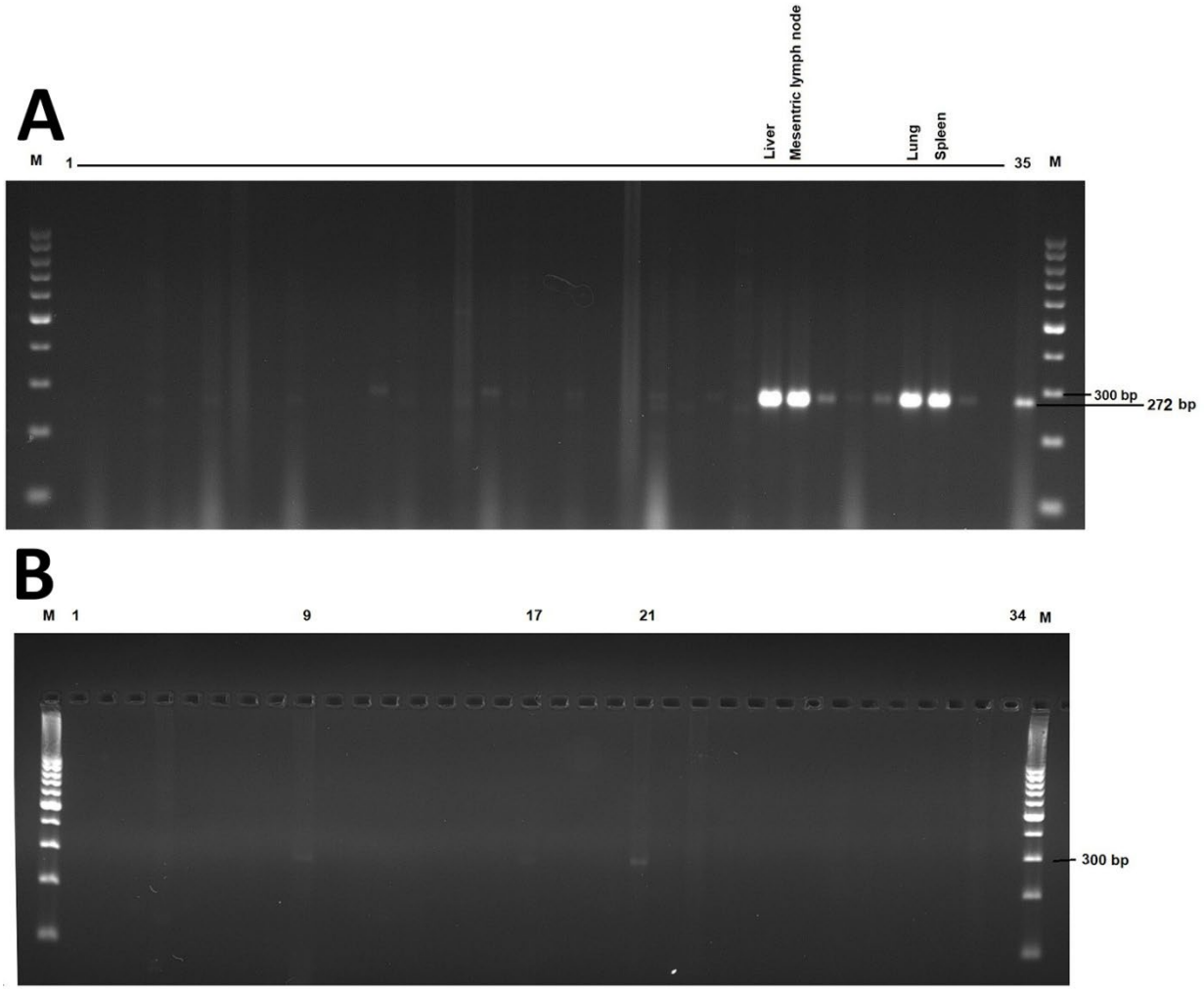
Appendix Table. List of primers and probe sequences along with the references for the real-time PCR assays applied during the investigation of the cause of camel death in Boran Zone, Ethiopia*

Test	Primer sequences (5′-3′)	Reference
Pan-bluetongue virus assay	BTV Seg-10_F: AARGCGGAGAARGCTGCAT BTV Seg-10_FR: ARYCTGACRTCATCACGAAACG BTV Seg-10_P: FAM-CGCATCGTACGCRGAA-MGB	(*1*)
Pan-bovine viral diarrhea virus assay	BVD 190-F: GRAGTCGTCARTGGTTCGAC V326: TCAACTCCATGTGCCATGTAC TQ-pesti: FAM-TGCYAYGTGGACGAGGGCATGC-TAMRA	(*2*)
Pan-coronaviruses assay	Round 1: CoV-RVS2: GGTTGGGAYTAYCCHAARTGTGA CoV-FWD3: CCATCATCASWYRAATCATCATA Round 2: CoV-FWD4/Other: GAYTAYCCHAARTGTGAUMGWGC Reverse: Same as round 1 (CoV-FWD3)	(*3*)
Pan-peste des petits ruminants assay	PPRFF: CATAGSACTGGCAGCTTGCA PPRFR: GAGCCCTGGGTTGATTTTRG PPRFProbe: FAM-CTTGTCACATTAATATGCTG-BHQ1	(*4*)
Pan-paramyxovirinae	Round 1: PAR-F1: GAAGGITATTGTCAIAARNTNTGGAC PAR-R: GCTGAAGTTACIGGITCICCDATRTTNC Round 2: PAR-F2: GTTGCTTCAATGGTTCARGGNGAYAA Reverse: Same as round-1 reverse primer (PAR-R)	(*5*)
Panflavivirus assay	Flavi-FWD: TGYRTBTAYAACATGATGGG Flavi-RVS: GTGTCCCAICCNGCNGTRTC	(*6*)
Rift valley fever	RVS: AAAGGAACAATGGACTCTGGTCA RVAs: CACTTCTTACTACCATGTCCTCCAAT RVP: FAM-AAAGCTTTGATATCTCTCAGTGCCCCAA-BHQ1	(*7*)
Foot-and-mouth disease	Callahan 3DF: ACTGGGTTTTACAAACCTGTGA Callahan 3DR: GCGAGTCCTGCCACGGA Callahan 3D: FAM-TCCTTTGCACGCCGTGGGAC-TAMRA	(*8*)
Enzootic bovine leukosis	MRBLVL: CCTCAATTCCCTTTAAACTA MRBLVR: GTACCGGGAAGACTGGATTA MRBLV probe: FAM-GAACGCCTCCAGGCCCTTCA BHQ1	(*9*)
Crimean-Congo hemorrhagic fever	CCHFV-F: CAAGGGGTACCAAGAAAATGAAGAAGGC CCHFV-R: GCCACAGGGATTGTTCCAAAGCAGAC CCHFV-Probe: FAM-ATCTACATGCACCCTGCTGTGTTGACA-BHQ1 SE03: FAM-ATTTACATGCACCCTGCCGTGCTTACA-BHQ1 SE0A: FAM-AGCTTCTTCCCCCACTTCATTGGAGT-BHQ1	(*10*)
Camelpox virus	CMLV-F: GATGCGGATCTTTATGATAC CMLV-R: GCTGTAATACCAAATACTTCA CMLV-Probe: FAM-ACCATCTACTGTATCACCAACAACTGT-BHQ-1	In-house
Pan-parapox viruses	Forward: CGCGGTCTGGTCCTTG Reverse: CAGCATCAACCTCTCCTACATCA Probe: Fam-CCACGAAGCTGCGCAGCAT-BHQ1	(*11*)

*CCHFV, Crimean-Congo hemorrhagic fever virus; F, forward; R, reverse.



Appendix Figure 1. Camel outbreak areas investigated by the ADAFSA and AHI Joint team.



Appendix Figure 2. Gel-based panflavivirus RT-PCR assay. Samples collected from necropsied animals (1–35) (A), and swabs from sick animals (1–34) (B) are shown, with the characteristic band size of the panflavivirus RT-PCR assay (272 bp) indicated. Samples with prominent bands are indicated.