

Table S1: Individual case clinical picture, detection, demographic, temporal and concurrent infection information for the 21 cases detected during the 2016 AHS outbreak in the controlled area of South Africa.

Holding ID	Horse ID	Case Date†	Case definition code	Surveillance method used	Approximate age – years unless specified	Sex	Breed	Colour	Death Date†	AHS Vaccination status at start of outbreak	Clinical signs noted by attending veterinarian	Concurrent infection/s
2	4	2 April	P1	Passive clinical surveillance (prior to outbreak)	2	Colt	Arabian	Bay	3 April	Unvaccinated	Pyrexia; congested mucous membranes (oral); swollen supraorbital fossae	Piroplasmosis
3	32	22 April	P1	Outbreak clinical surveillance	11	Gelding	Crossbreed	Chestnut		Vaccinated	Pyrexia	Equine encephalosis
2	5	26 April	P2	Outbreak response surveillance	2	Mare	Crossbreed	Bay		Unvaccinated		
2	9	26 April	P2	Outbreak response surveillance	12	Mare	Crossbreed	Grey		Vaccinated		
2	11	26 April	P2	Outbreak response surveillance	4	Stallion	Warmblood	Bay		Unvaccinated		
45	554	26 April	P2	Outbreak response surveillance	25	Gelding	Thoroughbred	Chestnut		Vaccinated		
48	566	26 April	P2	Outbreak response surveillance	10	Gelding	Crossbreed	Chestnut		Vaccinated		
66	725	27 April	P1	Outbreak clinical surveillance	7	Mare	Crossbreed	Bay	2 May	Vaccinated	Pyrexia; ataxia, respiratory compromise; subcutaneous oedema	
64	708	28 April	P1	Outbreak clinical surveillance	8 months	Filly	Thoroughbred	Bay	28 April	Unvaccinated	Colic; pulmonary oedema; rapid disease course with respiratory compromise	Severe intestinal roundworm infestation with associated colic
66	1464	28 April	P1	Outbreak clinical surveillance	5	Gelding	Crossbreed	Grey	2 May	Unvaccinated	Pyrexia; ataxia; severe respiratory compromise; subcutaneous oedema	
65	710	29 April	P1	Outbreak clinical surveillance	2	Colt	Thoroughbred	Bay		Vaccinated	Swollen supraorbital fossae; mild depression	
66	723	29 April	P2	Outbreak response surveillance and Sentinel surveillance	10	Mare	Crossbreed	Chestnut		Unknown		
28	450	2 May	P1	Outbreak clinical surveillance	8 months	Colt	American Saddlebred	Bay		Unvaccinated	Swollen supraorbital fossae	
64	1039	3 May	P2	Outbreak response surveillance	4 months	Filly	Thoroughbred	Bay		Unvaccinated		

66	1394	3 May	P2	Outbreak response surveillance	8	Gelding	Percheron	Grey	Vaccinated
66	1409	3 May	P2	Outbreak response surveillance	12	Mare	Boerperd	Bay	Unvaccinated
66	722	4 May	P2	Outbreak response surveillance and Sentinel surveillance	Unknown	Mare	Thoroughbred	Grey	Unknown
66	1411	4 May	P2	Outbreak response surveillance	6	Stallion	Crossbreed	Skewbald	Unknown
66	1415	4 May	P2	Outbreak response surveillance	16	Gelding	Crossbreed	Bay	Vaccinated
66	1417	4 May	P2	Outbreak response surveillance	17	Gelding	Crossbreed	Grey	Vaccinated
66	1431	4 May	P2	Outbreak response surveillance	Unknown	Gelding	Boerperd	Bay	Vaccinated

ID: Identification; AHS: African horse sickness

†All dates occurred in 2016