

Appendix S1. Animal cases or outbreaks due to *Chrysomya bezziana* myiasis.

Animal myiasis worldwide

Since 1909 [3], animal cases and outbreaks due to *C. bezziana* have been recorded in 24 countries worldwide, 16 of them from Asia, including China, Saudi Arabia, Iran, India, Iraq, Oman, Yemen, Pakistan, Kuwait, Singapore, Sri Lanka, Myanmar, Indonesia, United Arab Emirates (UAE), Bahrain and Malaysia (S8 Table; Fig 6A), 7 from Africa, including Zimbabwe, Cameroon, Chad, Kenya, South Africa, Ethiopia, and Democratic Republic of Congo (DRC) [1], and the last from PNG, Oceania, which was sourced from investigations by Spradbery et al (2019) [175]. At least 19 species of domestic and wild animals have been reported to be affected by *C. bezziana* including cattle, sheep, goats, dogs, cats, horses, camels, buffaloes, donkeys, pigs, Sambar and Rusa deer, water buffalo, birds, wallabies, cus cus, rabbits, tree kangaroos, elephants, and chickens (S8 Table). Exotic animals in zoos in *C. bezziana*-endemic areas are also susceptible such as honey and polar bears, gnu, hyaena, lion, puma, rhinocerus and tapir at a zoo in Malaysia [176]. These animals, especially the domesticated species, may represent a high risk in transmitting the disease to humans.

In China, outbreaks of the disease among animals have been recorded in 8 provinces/province-level regions including Hainan, Fujian, Guangxi, Yunnan, Guizhou, and Gansu, as well as Hong Kong and Taiwan (Fig 6B; S8 Table). From 1987 to 1991, 513 animal cases occurred in Guizhou. In Fujian, there were 20 and 85 cattle cases, and 3 pig cases reported in 2001, 2007 and 2011, respectively. Meanwhile, in current decade animal myiasis outbreaks due to *C. bezziana* have been reported in Indonesia in 2006-2009, 2009-2012 and 2014, Yemen in 2008-2009, Pakistan in 2012-2015, Iraq in 2013-2014, Sri Lanka in 2014, India in 2014 and 2018, Saudi Arabia in 2015-2016, Malaysia and Singapore in 2017 (S8 Table).

S8 Table. Characteristics of animal cases or outbreaks due to *Chrysomya bezziana* myiasis recorded worldwide

Author	Year	Country	Province/District	Study design	Animal	Number animals	Note
Yan R, et al ¹⁷⁷	1952, 1964, 1981	China	Fujian	Record	Goat	-	-
Yan R, et al ¹⁷⁷	1952, 1964, 1981	China	Fujian	Record	Cattle	-	-
Yan R, et al ¹⁷⁷	1952, 1964, 1981	China	Fujian	Record	Pig	-	-
Yan R, et al ¹⁷⁷	1983	China	Fujian	Animal experiments	Rabbit	-	-
Yan R, et al ¹⁷⁷	1983	China	Fujian	Animal experiments	Guinea pig	-	-
Zhang H ¹⁷⁸	2007	China	Fujian	Case-series	Cattle	85	-
Lan Y, et al ¹⁷⁹	2001	China	Fujian	Case-series	Cattle	20	-
Lan Y, et al ¹⁷⁹	2001	China	Fujian	Case-series	Water buffalo	1	-
Liao W ¹⁸⁰	2011	China	Fujian	Case-series	Pigs	3	-

Wang X, et al ¹⁸¹	1987-1991	China	Guizhou	Case-series	Cattle, goats and sheep	513	-
Wang X, et al ¹⁸¹	1988	China	Guizhou	Record	Goat	-	-
Wei C ¹⁸²	1992	China	Guizhou	Record	Goat	-	-
Wei C ¹⁸²	1992	China	Guizhou	Record	Cattle	-	-
Ye Y ¹⁴	1963	China	Guangxi	Case report	Cattle	-	-
Ye Y ¹⁴	1965	China	Guangxi	Case report	Cattle	-	-
Department of Veterinary Medicine, Guangxi Agricultural College ¹⁸³	1978	China	Guangxi	Field investigation	Cattle	-	-
Gan Y ¹⁸⁴	Before 1980	China	Hainan	Record	Cattle	-	-
Gan Y ¹⁸⁴	Before 1980	China	Hainan	Record	Pig	-	-
Gan Y ¹⁸⁴	Before 1980	China	Taiwan	Record	Sheep	-	-
Fan Z ²	1927,1943, and before 1997	China	Taiwan	Record	Cattle	-	-
Fan Z ²	1927,1943, and before 1997	China	Taiwan	Record	Water buffalo	-	-
Fan Z ²	1927,1943, and before 1997	China	Taiwan	Record	Pig	-	-
Fan Z ²	Before 1997	China	Yunnan	Record	Pig	-	-
Fan Z ²	Before 1997	China	Gansu	Record	Goat	-	-
Fan Z ²	Before 1997	China	Gansu	Record	Pig	-	-
Chemonges-Nielsen S ¹⁸⁵	2003	China	Hong Kong	Case-series	Pet dogs	12	-
McNae J ¹⁸⁶	2001	China	Hong Kong	Cross-sectional	Dogs	59	-
Ready PD, et al ¹⁶¹	2009	China	Hong Kong	Record	-	-	-
Alahmed AM ¹⁸⁷	2004	Saudi Arabia	Riyadh	Cross-sectional	Sheep	-	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Sheep	151	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Goats	154	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Cattle	57	-

Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Camels	12	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Horses	16	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Eastern Province	Cross-sectional	Donkeys	1	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Sheep	11	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Goats	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Cattle	4	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Camels	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Horses	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Riyadh	Cross-sectional	Donkeys	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Sheep	22	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Goats	10	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Cattle	2	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Camels	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Horses	0	-
Abo-Shehada MN ¹⁸⁸	1999-2000	Saudi Arabia	Qasseim	Cross-sectional	Donkeys	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Sheep	16	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Goats	10	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Cattle	2	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Buffalo	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Horse	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Camel	1	-
Hall MJ, et al ¹⁶⁷	2003-2006	Saudi Arabia	-	Cross-sectional	Dog	0	-
Salama O, et al ¹⁸⁹	2015-2016	Saudi Arabia	Qussim region	Cross-sectional	Sheep	129	-
Salama O, et al ¹⁸⁹	2015-2016	Saudi Arabia	Qussim region	Cross-sectional	Goats	18	-

Ready PD, et al ¹⁶¹	2009	Iran	-	Record	-	-	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Sheep	18	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Goats	20	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Cattle	4	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Buffalo	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Horse	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Camel	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iran	-	Cross-sectional	Dog	0	-
Navidpour S, et al ¹⁹⁰	1995	Iran	Khoozestan	Cross-sectional	Sheep	408	-
Navidpour S, et al ¹⁹⁰	1995	Iran	Khoozestan	Cross-sectional	Dogs	8	-
Soundararajan C, et al ¹⁹¹	2018	India	Tamil Nadu state	Case report	Elephant	-	-
Bora S, et al ¹⁹²	2018	India	Assam	Cross-sectional	Broilers	180	-
Ready PD, et al ¹⁶¹	2009	Iraq	-	Record	-	-	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Sheep	24	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Goats	4	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Cattle	11	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Buffalo	1	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Horse	1	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Camel	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Iraq	-	Cross-sectional	Dogs	4	-
Sigit SH, et al ¹⁹³	first recognised in 1938, 1981	Indonesia	widespread in Sulawesi	-	-	-	-
Sigit SH, et al ¹⁹³	first recognised in 1938, 1981	Indonesia	widespread in Java	-	-	-	-
Sigit SH, et al ¹⁹³	first recognised in 1938, 1981	Indonesia	widespread in Sumba	-	-	-	-
Sigit SH, et al ¹⁹⁴	1978	Indonesia	-	-	-	-	-

Basset CR, et al ¹⁹⁵	1982	Indonesia	-	-	Cattle	-	Despite intensive husbandry, losses of calves were frequent and on one property of 5,200 cattle, nearly 3,000 screw-worm cases were recorded during a single year
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Kediri	Cross-sectional	Cattle	-	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Kediri	Cross-sectional	Goat	-	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Cattle	167	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Sheep	15	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Goats	57	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Buffalo	1	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Horses	5	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Dogs	7	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	Pig	1	-
Wardhana AH, et al ¹⁹⁶	2006-2009	Indonesia	Nationwide	Survey	NR	2	-
Wardhana AH, et al ¹⁶⁶	2014	Indonesia	-	Review from the literature and other sources	Livestock	-	-
Ready PD, et al ¹⁶¹	2009-2012	Indonesia	Java, Sumatra	-	Goat	-	-
Ready PD, et al ¹⁶¹	2009-2012	Indonesia	Java, Sumatra	-	Cow	-	-
Ready PD, et al ¹⁶¹	2009-2012	Indonesia	Java, Sumatra	-	Calf	-	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Sheep	5	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Goats	35	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Cattle	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Buffalo	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Horse	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Camel	0	-
Hall MJ, et al ¹⁶⁷	2003-2006	Oman	-	Cross-sectional	Dog	0	-

Spradbery JP, et al ¹⁹⁷	1992	Oman	-	-	Goats and sheep	53(93%,57)	-
Ready PD, et al ¹⁶¹	2009	Papua New Guinea		Record	-	-	-
Spradbery JP*	1970	Papua New Guinea	-	-	Cattle	-	-
Spradbery JP*	1975-1982	Papua New Guinea	-	-	Sheep	751	-
Spradbery JP*	1967-1981	Papua New Guinea	-	-	Rusa Deer	7	-
Spradbery JP*	1970-1978	Papua New Guinea	-	-	Pigs	7	-
Spradbery JP*	1973-1977	Papua New Guinea	-	-	Horses	3	-
Spradbery JP*	1964	Papua New Guinea	-	-	Donkeys	1	-
Spradbery JP*	1975, 1980	Papua New Guinea	-	-	Goats	2	-
Spradbery JP*	1972-1980	Papua New Guinea	-	-	Dogs	6	-
Spradbery JP*	1976	Papua New Guinea	-	-	Cat	1	-
Spradbery JP*	1976	Papua New Guinea	-	-	Birds	2	-
Spradbery JP*	1977	Papua New Guinea	-	-	Wallaby	1	-
Spradbery JP*	1973, 1979	Papua New Guinea	-	-	Cus Cus	2	-
Norris K, et al ¹⁶²	1964	Papua New Guinea		-	Cattle?	53(95%,56)	-
Spradbery JP*	2008	Yemen	-	Record	Cattle	-	-
Spradbery JP*	2008	Yemen	-	Record	Sheep	-	-
Spradbery JP*	2008	Yemen	-	Record	Goats	-	-
Spradbery JP*	2008	Yemen	-	Record	Camels	-	-
Spradbery JP*	2008	Yemen	-	Record	Deer or gazelle	-	-
Spradbery JP*	2009	Yemen	-	Record	Cattle	-	-
Spradbery JP*	2009	Yemen	-	Record	Sheep	-	-
Spradbery JP*	2009	Yemen	-	Record	Goats	-	-
Spradbery JP*	2008	Yemen	-	Outbreak report	Oats	-	-

Spradbery JP*	2008	Yemen	-	Outbreak report	Sheep	-	-
Spradbery JP*	2008	Yemen	-	Outbreak report	Cattle	-	-
Spradbery JP*	2008	Yemen	-	Outbreak report	Camels	-	-
Spradbery JP*	2008	Yemen	-	Outbreak report	Donkeys	-	-
Spradbery JP*	2008	Yemen	Mahwit	Outbreak report	Cattle	180	-
Spradbery JP*	2008	Yemen	Mahwit	Outbreak report	Sheep	848	-
Spradbery JP*	2008	Yemen	Mahwit	Outbreak report	Goats	998	-
Spradbery JP*	2008	Yemen	Mahwit	Outbreak report	Camels	351	-
Spradbery JP*	2008	Yemen	Mahwit	Outbreak report	Donkeys	295	-
Spradbery JP*	2008	Yemen	-	Record	-	1500	-
Spradbery JP, et al ⁴⁰	1992	Kuwait	-	-	-	-	-
Ready PD, et al ¹⁶¹	2009	Kuwait	-	Record	-	-	-
Soundararajan C, et al ¹⁹⁸	2007	India	Tamil Nadu	Cross-sectional	Sheep	127	-
Katoch R, et al ¹⁹⁹	2014	India	Jammu	Case report	Buffalo	1	-
Kumar R, et al ²⁰⁰	1984	India	-	-	Cattle	-	Food rot and foot and mouth disease(FMD) lead to a significant increase in the incidence of <i>C. bezziana myiasis</i>
Ready PD, et al ¹⁶¹	2009	United Arab Emirates	-	Record	-	-	-
Spradbery JP, et al ⁴⁰	1992	United Arab Emirates	Fujairah	Cross-sectional	Cows, calves, and heifers	62	-
Spradbery JP, et al ⁴⁰	1992	United Arab Emirates	-	-	-	-	-
Rajapaksa N et al ⁵⁹	1977, 1985	Australia	-	-	Sheep	-	-
Zaidi F, et al ²⁰¹	2012-2015	Pakistan	North West	Cross-sectional	-	-	-
Han H, et al ²⁰²	2017	Malaysia	-	Case-series	Dogs	3	-
Basset CR, et al ¹⁹⁵	1984	Malaysia	-	-	Cattle	38(84%,45)	-
Basset CR, et al ¹⁹⁵	1982	Malaysia	-	-	Cattle	2957	-

Fadzil M, et al ²⁰³	1971	Malaysia	-	-	Cattle	-	-
Rajamanickam C, et al ²⁰⁴	1986	Malaysia	-	-	Cattle	124(95%,130)	-
Ready PD, et al ¹⁶¹	2009	Malaysia	-	Record	-	-	-
Norval RA ²⁰⁵	1978	Zimbabwe	-	-	Cattle	Cattle losses exceeding 250,000 in 1977/78	Wide spread of tick-borne diseases and associated screw-worm infestations
Cuthbertson A ¹⁷³	1933	Zimbabwe	-	-	Cattle	-	-
Cuthbertson A ¹⁷³	1933	Zimbabwe	-	-	Horses	-	-
Cuthbertson A ¹⁷³	1933	Zimbabwe	-	-	Dogs	-	-
Ready PD, et al ¹⁶¹	2009	Zimbabwe	-	Record	Cattle, horses, goats, sheep, pigs, dogs	-	Larvae collected from wounds of several host species in 2002
Spradbery JP*	2017	Singapore	Singapore Zoo	Outbreak report	Rusa unicolor or Cervus unicolor	-	-
Fain A, et al ²⁰⁶	1959	DRC	Uele	-	African elephants	-	-
Rovere A, et al ³	1910	DRC	-	-	-	-	-
Baker JA, et al ¹⁷²	1968	South Africa	The Eastern Cape Province	-	Cattle	A huge number	-
Ready PD, et al ¹⁶¹	2009	Bahrain	-	Record	-	-	-
Spradbery JP, et al ⁴⁰	1992	Bahrain	-	-	-	-	-
Ready PD, et al ¹⁶¹	2009	Cameroon	-	Record	-	-	-
Ready PD, et al ¹⁶¹	2009	Chad	-	Record	-	-	-
Ready PD, et al ¹⁶¹	2009	Myanmar	-	Record	-	-	-
Bandara W, et al ²⁰⁷	2014	Sri Lanka	Peradeniya	Cross-sectional	Dogs	294	-
Bandara W, et al ²⁰⁷	2014	Sri Lanka	Peradeniya	Cross-sectional	Cats	5	-
Obanda V, et al ²⁰⁸	2012	Kenya	Kigio Wildlife Conservancy, Nairobi	-	Elands (Taurotragus oryx)	-	-
Meemark N, et al ²⁰⁹	1988	Thailand	Villages in the north and east of Thailand	Cross-sectional	NR	-	-
Zumt F ²¹⁰	1965	Ethiopia	-	-	Cattle	-	-

* Spradbery et al. Pers.comm.

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