Table 1. Main characteristics of all eligible studies reporting prevalence of *Toxascaris leonina* infection in dogs.

WHO-region/reference	Reference	Type of dog (pet or stray)	Country	Income-level	Sample size	Number of test-positive samples for *Ta. leonina*	Risk of bias (quality assessment)
Africa							
Minnaar et al. (2002)	[1]	Stray (wild) dogs	South Africa	Upper middle	63	20	Moderate Risk
Davoust et al. (2008)	[2]	Stray (wild) dogs	Gabon	Upper middle	198	1	Low Risk
Sowemimo (2007)	[3]	Pet (Domestic) dogs	Nigeria	Lower middle	269	9	Low Risk
Sowemimo and Asaolu (2008)	[4]	Pet (Domestic) dogs	Nigeria	Lower middle	959	6	Low Risk
Mukaratirwa and Singh (2010)	[5]	Stray (wild) dogs	South Africa	Upper middle	240	1	Low Risk
Awoke et al. (2011)	[6]	Indeterminate (not specified) type	Ethiopia	Low	326	9	Low Risk
Bwalya et al. (2011)	[7]	Pet (Domestic) dogs	Zambia	Lower middle	292	20	Low Risk
Mahmuda et al. (2012)	[8]	Working (domestic) dogs	Nigeria	Lower middle	40	1	Moderate Risk
Edosomwan et al. (2012)	[9]	Pet (Domestic) dogs	Nigeria	Lower middle	150	1	Low Risk
Alvåsen et al. (2016)	[10]	Pet (Domestic) dogs	Malawi	Low	40	5	Moderate Risk
Eastern Mediterranean							
El-Shehabi et al. (1999)	[11]	Stray (wild) dogs	Jordan	Upper middle	340	9	Low Risk
Dalimi et al. (2006)	[12]	Stray (wild) dogs	Iran	Upper middle	83	27	Low Risk
Sabry and Hossein (2009)	[13]	Stray (wild) dogs	Egypt	Lower middle	27	9	Moderate Risk
Zare-Bidaki et al. (2010)	[14]	Working (domestic) dogs	Iran	Upper middle	59	9	Moderate Risk
Mirzaei and Fooladi (2012)	[15]	Pet (Domestic) dogs	Iran	Upper middle	70	1	Low Risk
Mirzaei and Fooladi (2013)	[16]	Pet (Domestic) dogs	Iran	Upper middle	100	1	Low Risk
Beiromvand et al. (2013)	[17]	Pet (Domestic) dogs	Iran	Upper middle	28	11	Moderate Risk
Beiromvand et al. (2013)	[17]	Stray (wild) dogs	Iran	Upper middle	49	11	Moderate Risk
Adinezadeh et al. (2013)	[18]	Stray (wild) dogs	Iran	Upper middle	100	53	Low Risk
Ahmed et al. (2014)	[19]	Working (domestic) dogs	Egypt	Lower middle	120	0	Moderate Risk
Ahmed et al. (2014)	[19]	Pet (Domestic) dogs	Egypt	Lower middle	60	1	Moderate Risk
Awadallah et al. (2015)	[20]	Working (domestic) dogs	Egypt	Lower middle	70	0	Low Risk
Awadallah et al. (2015)	[20]	Pet (Domestic) dogs	Egypt	Lower middle	60	1	Low Risk
Sardarian et al. (2015)	[21]	Pet (Domestic) dogs	Iran	Upper middle	243	7	Low Risk
Emamapour et al. (2015)	[22]	Stray (wild) dogs	Iran	Upper middle	100	7	Moderate Risk
Sardarian et al. (2015)	[21]	Stray (wild) dogs	Iran	Upper middle	1257	32	Low Risk
Sarvi et al. (2016)	[23]	Working (domestic) dogs	Iran	Upper middle	100	4	Low Risk
Kohansal et al. (2017)	[24]	Indeterminate (not specified) type	Iran	Upper middle	450	4	Moderate Risk
Al-Jassim et al. (2017)	[25]	Pet (Domestic) dogs	Iraq	Upper middle	93	1	Moderate Risk
Europe							
Vanparijs et al. (1991)	[26]	Stray (wild) dogs	Belgium	High	2324	236	Low Risk
Epe et al. (1993)	[27]	Working (domestic) dogs	Germany	High	3329	37	Low Risk
Svobodova et al. (1995)	[28]	Pet (Domestic) dogs	Czech Republic	High	458	3	Low Risk
Causape et al. (1996)	[29]	Pet (Domestic) dogs	Spain	High	81	2	Moderate Risk
Overgaauw and Boersema (1998)	[30]	Pet (Domestic) dogs	Netherlands	High	445	3	Low Risk
Masnik (2000)	[31]	Stray (wild) dogs	Poland	High	110	1	Low Risk
Fok et al. (2001)	[32]	Pet (Domestic) dogs	Hungary	High	427	3	Low Risk
Fok et al. (2001)	[32]	Pet (Domestic) dogs	Hungary	High	63	3	
Barutzki et al. (2003)	[33]	Pet (Domestic) dogs	Germany	High	8438	42	Low Risk
Benito et al. (2003)	[34]	Stray (wild) dogs	Spain	High	1040	81	Low Risk
Borecka et al. (2005)	[35]	Pet (Domestic) dogs	Poland	High	3774	284	Low Risk

Sager et al. (2006)	[36]	Pet (Domestic) dogs	Switzerland	High	505	7	Low Risk
Senlik et al. (2006)	[37]	Working (domestic) dogs	Turkey	Upper middle	352	77	Low Risk
Dubna et al. (2007)	[38]	Pet (Domestic) dogs	Czech Republic	High	540	9	Low Risk
Dubna et al. (2007)	[38]	Pet (Domestic) dogs	Czech Republic	High	3780	34	Low Risk
Szabova et al. (2007)	[39]	Pet (Domestic) dogs	Slovakia	High	222	9	Low Risk
Szabova et al. (2007)	[39]	Pet (Domestic) dogs	Slovakia	High	208	12	Low Risk
Szabova et al. (2007)	[39]	Stray (wild) dogs	Slovakia	High	297	24	Low Risk
Martinez-Moreno et al. (2007)	[40]	Indeterminate (not specified) type	Spain	High	1800	269	Low Risk
Claerebout et al. (2009)	[41]	Pet (Domestic) dogs	Belgium	High	451	1	Low Risk
Claerebout et al. (2009)	[41]	Pet (Domestic) dogs	Belgium	High	351	3	Low Risk
Claerebout et al. (2009)	[41]	Pet (Domestic) dogs	Belgium	High	357	9	Low Risk
Gracenea et al. (2009)	[42]	Pet (Domestic) dogs	Spain	High	505	18	Low Risk
Tylkowska et al. (2010)	[43]	Indeterminate (not specified) type	Poland	High	763	22	Low Risk
Xhaxhiu et al. (2011)	[44]	Stray (wild) dogs	Albania	Upper middle	111	1	Moderate Risk
Balkaya and Avcıoğlu, (2011)	[45]	Pet (Domestic) dogs	Germany	High	24677	137	Low Risk
Ferreira et al. (2011)	[46]	Pet (Domestic) dogs	Portugal	High	49	0	Moderate Risk
Ferreira et al. (2011)	[46]	Pet (Domestic) dogs	Portugal	High	77	1	Moderate Risk
Balkaya et al. (2011)	[47]	Stray (wild) dogs	Turkey	Upper middle	172	66	Low Risk
Becker et al. (2012)	[48]	Stray (wild) dogs	Germany	High	445	3	Low Risk
Al-Sabi et al. (2013)	[49]	Working (domestic) dogs	Denmark	High	178	1	Low Risk
Riggio et al. (2013)	[50]	Pet (Domestic) dogs	Italy	High	239	4	Low Risk
Zanzani et al. (2014)	[51]	Pet (Domestic) dogs	Italy	High	253	0	Low Risk
Zanzani et al. (2014)	[52]	Pet (Domestic) dogs	Italy	High	463	3	Low Risk
Neves et al. (2014)	[53]	Pet (Domestic) dogs	Portugal	High	368	2	Low Risk
Papajova et al. (2014)	[54]	Indeterminate (not specified) type	Slovakia	High	578	18	Low Risk
Ortuno et al. (2014)	[55]	Pet (Domestic) dogs	Spain	High	81	2	Moderate Risk
Ortuno et al. (2014)	[55]	Working (domestic) dogs	Spain	High	88	2	Moderate Risk
Shukullari et al. (2015)	[56]	Pet (Domestic) dogs	Albania	Upper middle	602	5	Low Risk
Radev et al. (2016)	[57]	Stray (wild) dogs	Bulgaria	Upper middle	80	1	Moderate Risk
Wright et al. (2016)	[58]	Pet (Domestic) dogs	England	High	171	0	Low Risk
Guardone et al. (2016)	[59]	Pet (Domestic) dogs	Italy	High	106	0	Moderate Risk
Guardone et al. (2016)	[59]	Working (domestic) dogs	Italy	High	344	8	Low Risk
Moskvina and Ermolenko (2016)	[60]	Pet (Domestic) dogs	Russia	Upper middle	8140	970	Low Risk
Kostopoulou et al. (2017)	[61]	Working (domestic) dogs	Greece	High	72	2	Low Risk
Kostopoulou et al. (2017)	[61]	Pet (Domestic) dogs	Greece	High	529	5	Low Risk
Kostopoulou et al. (2017)	[61]	Pet (Domestic) dogs	Greece	High	278	17	Low Risk
Symeonidou et al. (2017)	[62]	Indeterminate (not specified) type	Greece	High	1036	46	Low Risk
Tamponi et al. (2017)	[63]	Pet (Domestic) dogs	Italy	High	619	7	Low Risk
Szwabe and Blaszkowska (2017)	[64]	Stray (wild) dogs	Poland	High	95	1	Moderate Risk
Studzinska et al. (2017)	[65]	Pet (Domestic) dogs	Poland	High	100	3	Moderate Risk
Mircean et al. (2017)	[66]	Working (Domestic) dogs	Romania	Upper middle	602	3	Low Risk
Mircean et al. (2017)	[66]	Pet (Domestic) dogs	Romania	Upper middle	712	11	Low Risk
Sommer et al. (2017)	[67]	Pet (Domestic) dogs	Serbia	Upper middle	134	13	Low Risk
Scaramozzino et al. (2018)	[68]	Pet (Domestic) dogs	Italy	High	2775	11	Low Risk
North America							
Nolan and Smith (1995)	[69]	Pet (Domestic) dogs	USA	High	8077	47	Low Risk
Coggins et al. (1998)	[70]	Stray (wild) dogs	USA	High	309	13	Low Risk
Gates et al. (2009)	[71]	Pet (Domestic) dogs	USA	High	6555	13	Low Risk
Casey Gaunt et al. (2011)	[72]	Indeterminate (not specified) type	Canada	High	457	3	Low Risk
Joffe et al. (2011)	[73]	Pet (Domestic) dogs	Canada	High	477	5	Low Risk
Joffe et al. (2011)	[73]	Pet (Domestic) dogs	Canada	High	142	8	Low Risk
Canto et al. (2011)	[73]	Stray (wild) dogs	Mexico	Upper middle	378	9	Low Risk
Schurer et al. (2012)	[74]	Pet (Domestic) dogs	Canada	High	254	40	Low Risk

Schurer et al. (2014)	[75]	Indeterminate (not specified) type	Canada	High	231	5	Low Risk
Gates and Nolan, (2014)	[76]	Pet (Domestic) dogs	USA	High	12914	28	Low Risk
Villeneuve et al. (2015)	[77]	Working (domestic) dogs	Canada	High	1086	33	Low Risk
South America							
Campos et al. (2016)	[78]	Pet (Domestic) dogs	Brazil	Upper middle	345	2	Low Risk
South-East Asia							
Kachawha and Tanwar, (2007)	[79]	Stray (wild) dogs	India	Lower middle	642	14	Low Risk
Qadir et al. (2012)	[80]	Indeterminate (not specified) type	India	Lower middle	325	3	Low Risk
Perera et al. (2013)	[81]	Pet (Domestic) dogs	Sri Lanka	Lower middle	30	0	Moderate Risk
Perera et al. (2013)	[81]	Stray (wild) dogs	Sri Lanka	Lower middle	60	11	Moderate Risk
Traub et al. (2014)	[82]	Stray (wild) dogs	India	Lower middle	411	13	Low Risk
Sudan et al. (2015)	[83]	Stray (wild) dogs	India	Lower middle	108	28	Low Risk
Western Pacific							
Johnston and Gasser (1993)	[84]	Pet (Domestic) dogs	Australia	High	303	0	Low Risk
Johnston and Gasser (1993)	[84]	Stray (wild) dogs	Australia	High	190	1	Low Risk
Wang et al. (2006)	[85]	Working (domestic) dogs	China	Upper middle	178	2	Low Risk
Palmer et al. (2008)	[86]	Stray (wild) dogs	Australia	High	590	0	Low Risk
Palmer et al. (2008)	[86]	Pet (Domestic) dogs	Australia	High	810	1	Low Risk
Dai et al. (2009)	[87]	Working (domestic) dogs	China	Upper middle	438	141	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	109	0	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	363	0	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	185	0	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	1169	1	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	244	2	Low Risk
Itoh et al. (2011)	[88]	Pet (Domestic) dogs	Japan	High	295	2	Low Risk
Kimura et al. (2013)	[89]	Stray (wild) dogs	Japan	High	212	1	Low Risk
Ngui et al. (2014)	[90]	Working (domestic) dogs	Malaysia	Upper middle	77	4	Moderate Risk
Itoh et al. (2015)	[91]	Pet (Domestic) dogs	Japan	High	573	5	Low Risk

Table S2. Main characteristics of all eligible studies reporting prevalence of *Toxascaris leonina* infection in cats.

WHO-region/reference	Ref	Type of cats (pet or stray)	Country	Income level	Sample size	Number of test-positive samples for *Ta. leonina*	Risk of bias (quality assessment)
Africa							
Sowemimo et al. (2012)	[92]	Pet	Nigeria	Lower middle	200	47	Low risk
Okoye et al. (2014)	[93]	Pet	Nigeria	Lower middle	51	24	Moderate risk
Okoye et al. (2014)	[93]	Stray	Nigeria	Lower middle	68	33	Moderate risk
Eastern Mediterranean							
Zibaei et al. (2007)	[94]	Stray	Iran	Upper middle	114	4	Low risk
Al-khushali et al. (2007)	[95]	Stray	Iraq	Upper middle	126	41	Low risk
Schuster et al. (2009)	[96]	Stray	United Arab Emirates	High	240	2	Low risk
Abu-Madi et al. (2010)	[97]	Stray	Qatar	High	658	1	Low risk
Khalafalla et al. (2011)	[98]	Stray	Egypt	Lower middle	113	6	Low risk
Borji et al. (2011)	[99]	Stray	Iran	Upper middle	52	4	Moderate risk
Al-Rubaie et al. (2015)	[100]	Stray	Iraq	Upper middle	254	47	Low risk
Hajipour et al. (2016)	[101]	Stray	Iran	Upper middle	50	15	Moderate risk
El-Seify et al. (2017)	[102]	Stray	Egypt	Lower middle	170	14	Low risk
Hajipour (2019)	[103]	Stray	Iran	Upper middle	100	21	Moderate risk
Europe							
Vanparijs et al. (1991)	[26]	Stray	Belgium	High	30	0	Moderate risk
O'lorcain et al. (1994)	[104]	Pet	Czech Republic	High	135	1	Low risk
Yamaguchi et al. (1996)	[105]	Stray	England	High	11	9	Moderate risk
Overgaauw et al. (1997)	[106]	Pet	Netherlands	High	236	0	Low risk
Overgaauw et al. (1997)	[106]	Stray	Netherlands	High	56	3	Low risk
Overgaauw et al. (1997)	[106]	Pet	Netherlands	High	56	3	Low risk
Barutzki et al. (2003)	[33]	Pet	Germany	High	8560	8	Low risk
Miro et al. (2004)	[107]	Stray	Spain	High	220	1	Low risk
Miro et al. (2004)	[107]	Stray	Spain	High	365	4	Low risk
Michalczyk et al. (2008)	[108]	Pet	Poland	High	22	3	Moderate risk
Karatepe et al. (2008)	[109]	Stray	Turkey	Upper middle	72	15	Moderate risk
Näreaho et al. (2012)	[110]	Pet	Finland	High	411	1	Low risk
Capári et al. (2013)	[111]	Pet	Hungary	High	235	17	Low risk
Riggio et al. (2013)	[50]	Pet	Italy	High	81	0	Low risk
Lefkaditis et al. (2014)	[112]	Stray	Greece	High	215	2	Low risk
Zanzani et al. (2014)	[51]	Pet	Italy	High	156	12	Low risk
Öge et al. (2014)	[113]	Pet	Turkey	Upper middle	100	2	Low risk
Pallant et al. (2015)	[114]	Pet	Germany	High	60	0	Moderate risk
Moskvina et al. (2015)	[115]	Pet	Russia	Upper middle	51	4	Moderate risk
Wright et al. (2016)	[58]	Pet	England	High	131	1	Low risk
Nijsse et al. (2016)	[116]	Indeterminate (not specified) type	Netherlands	High	670	0	Low risk
Raue et al. (2017)	[117]	Pet	Germany	High	903	35	Low risk
Diakou et al. (2017)	[118]	Stray	Greece	High	150	12	Low risk
Kostopoulou et al. (2017)	[61]	Pet	Greece	High	59	0	Low risk
Kostopoulou et al. (2017)	[61]	Pet	Greece	High	205	0	Low risk
Szwabe et al. (2017)	[64]	Stray	Poland	High	68	0	Moderate risk
Symeonidou et al. (2018)	[119]	Indeterminate (not specified) type	Greece	High	1150	2	Low risk
Blasco et al. (2017)	[120]	Pet	Spain	High	423	10	Low risk
Shamaev et al. (2018)	[121]	Indeterminate (not specified) type	Russia	Upper middle	148	5	Low risk
Moskvina et al. (2018)	[122]	Pet	Russia	Upper middle	135	5	Low risk
South America							
Labarthe et al. (2004)	[123]	Pet	Brazil	Upper middle	36	4	Moderate risk
Labarthe et al. (2004)	[123]	Stray	Brazil	Upper middle	99	12	Moderate risk
Sommerfelt et al. (2006)	[124]	Stray	Argentina	High	465	41	Low risk
Lorenzini et al. (2007)	[125]	Pet	Brazil	Upper middle	288	1	Low risk
Campos et al. (2016)	[78]	Pet	Brazil	Upper middle	160	0	Low risk
North America							
Gates et al. (2009)	[71]	Pet	U.S.A	High	1566	2	Low risk
Joffe et al. (2011)	[73]	Pet	Canada	High	85	0	Low risk
Joffe et al. (2011)	[73]	Pet	Canada	High	68	0	Low risk
Lucio-Forster et al. (2011)	[126]	Pet	U.S.A	High	1322	0	Low risk
Hoopes et al. (2013)	[127]	Pet	Canada	High	635	1	Low risk
Canto et al. (2013)	[128]	Pet	Mexico	Upper middle	85	0	Moderate risk
Canto et al. (2013)	[128]	Stray	Mexico	Upper middle	273	1	Low risk
Hoopes et al. (2015)	[129]	Stray	Canada	High	161	1	Low risk
Hoopes et al. (2015)	[129]	Indeterminate (not specified) type	Canada	High	27	1	Low risk
Western Pacific							
Lin et al. (1990)	[130]	Pet	Taiwan	High	96	1	Low risk
McGlade et al. (2003)	[131]	Pet	Australia	High	418	9	Low risk
Palmer et al. (2008)	[86]	Sray	Australia	High	491	1	Low risk
Palmer et al. (2008)	[86]	Pet	Australia	High	572	10	Low risk
Bissett et al. (2009)	[132]	Pet	Australia	High	134	2	Low risk
Itoh et al. (2012)	[133]	Pet	Japan	High	942	2	Low risk
Beugnet et al. (2014)	[134]	Pet	Australia	High	92	5	Moderate risk
Fang et al. (2015)	[135]	Stray	China	Upper middle	39	3	Moderate risk

Table S3. Questions from the Joanna Briggs Institute Prevalence Critical Appraisal Tool.

No.	Criteria	Yes	No	Unclear	Not applicable
1	Was the sample representative of the target population?				
2	Were study participants recruited in an appropriate way?				
3	Was the sample adequate?				
4	Were the study subjects and the setting described in detail?				
5	Was the data analysis conducted with sufficient coverage of the identified sample?				
6	Were objective, standard criteria used for the measurement of the condition?				
7	Was the condition measured reliably?				
8	Was there appropriate statistical analysis?				
9	Are all important confounding factors/subgroups/differences identified and accounted for?				
10	Were subpopulations identified using objective criteria?				

Table adapted from Munn et al. (2014).

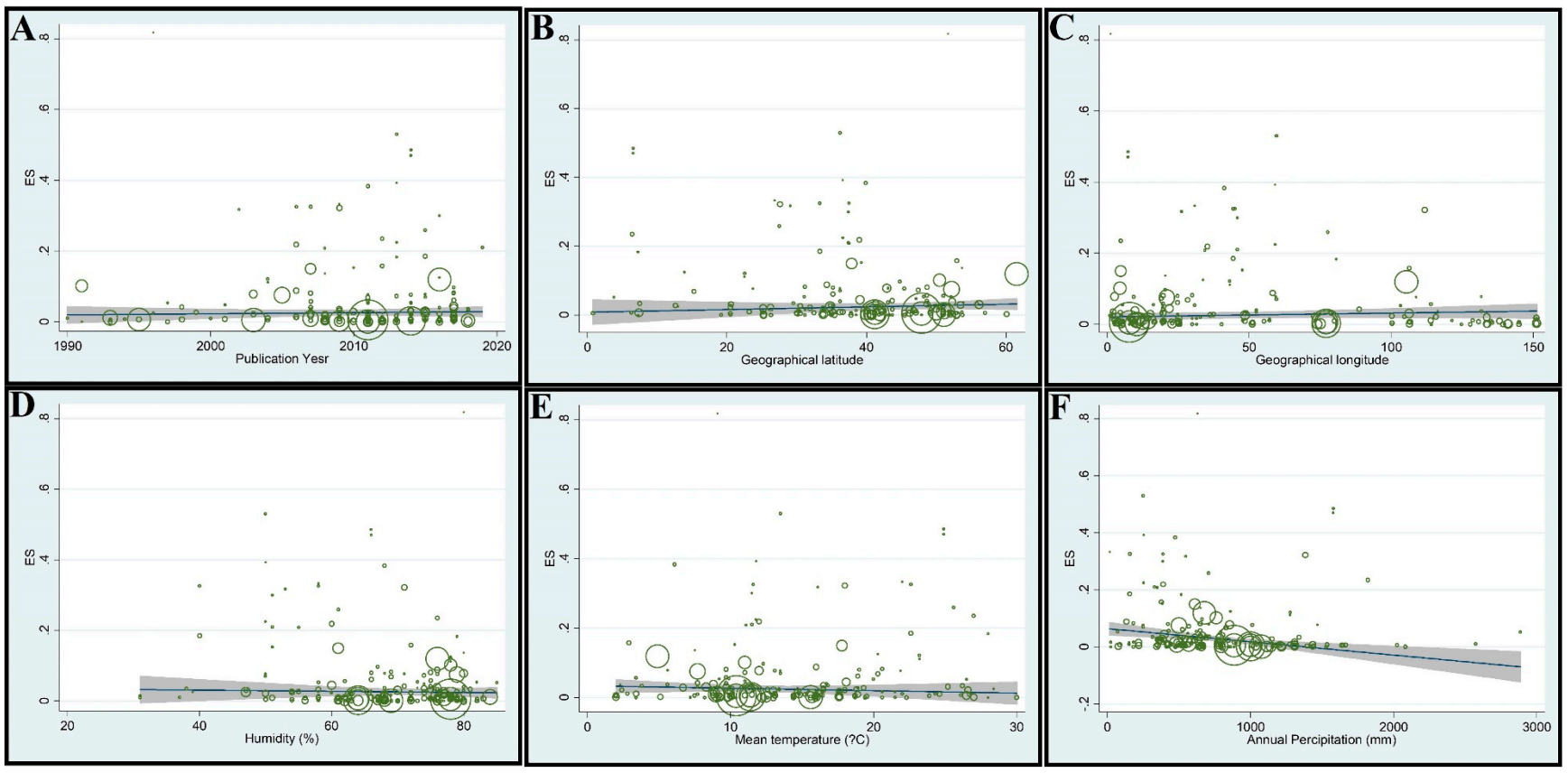

Figure 1. Results of meta-regression analyses of the prevalence of *Toxascaris leonina* infection in dogs and cats according to: (panel A) demonstrating a statistically non-significant decreasing trend in prevalence over time in more recent years; (panels B and C) geographical latitude and longitude, showing statistically non-significant downward trend in prevalence with increasing geographical latitude and longitude; (panel D) relative humidity, showing statistically significant downward trend in prevalence with increasing relative humidity; and (panels E and F) mean environmental temperature and annual precipitation, showing non-statistically significant upward and downward trend in prevalence in areas with a higher mean temperature and relative humidity, respectively.
"**ES**" refers to effect size (= prevalence rates).

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