

Appendix

Table 1. Established *Giardia* species and *Giardia duodenalis* assemblages (extracted from references number 4 and 22).

Species	Host
<i>G. agilis</i> Kunstler, 1882	Amphibians
<i>G. ardeae</i> Noller, 1920	Birds
<i>G. microti</i> Benson, 1908	Muskrats and voles
<i>G. muris</i> Benson, 1908	Rodents
<i>G. psittaci</i> Erlandsen and Bemrick, 1987	Birds
<i>G. varani</i> Lavier, 1923	Lizards
<i>G. duodenalis</i> Davaine, 1875	Mammals
Assemblage A (<i>G. duodenalis</i> sensu stricto)	Humans, nonhuman primates, domestic and wild ruminants, alpacas, pigs, horses, domestic and wild canines, cats, ferrets, rodents, marsupials, other mammals
Assemblage B (<i>G. enteric</i>)	Humans, nonhuman primates, cattle, dogs, horses, rabbits, beavers, muskrats
Assemblage C (<i>G. canis</i>)	Domestic and wild canines
Assemblage D (<i>G. canis</i>)	Domestic and wild canines
Assemblage E (<i>G. Bovis</i>)	Domestic ruminants, pigs
Assemblage F (<i>G. cati</i>)	cats
Assemblage G (<i>G. simondi</i>)	Mice, rats
Assemblage H	Seals

Table 2. The number of giardiasis infection reported cases in human and geographical distribution of *Giardia lamblia* genotypes and assemblages observed in various studies in Iran.

City	Year	No. of Positive	No. of Isolated	No. of Male	No. of Female	Age	Locus used for genotyping	Assemblage			Reference
								A	B	Mix	
Tehran	2008	125	38	–	–	–	GDH	33 AI	3 BIII	2	98
East Azerbaijan	2008	–	34	–	–	–	GDH	6 AII	8 BIII	–	99
Shiraz	2012	–	40	–	–	–	GDH	32 AII	3 BIII, 1 BIV, 4 BIII + BIV	0	105
Kerman	2010	352	30	–	–	1-78	GDH	5 AI, 18 AII	7 BIII	0	100
Tabriz	2011	–	34	–	–	–	TPI, GDH	17 A	13 B	1	101
Shiraz	2012	174	172	–	–	1-65	GDH	128 AII	30 BIII, 6 BIV	8	103
Mazandaran (Sari, Babol, Nowshahr)	2012	50	21	–	–	–	GDH	2 AI, 5 AII	6 BIII, 1 BIII + BIV	7	106
Ahvaz	2012	100	100	65	35	4-65	GDH	14 AII	27 BIII	59	25
Ahvaz	2012	50	50	42	8	16-65	GDH	8 AII	19 BIII	23	107

Isfahan	2012	175	67	–	–	1-70	GDH	40 AII	23 BIII, 2 BIV	2	108
Shahre kord	2012	90	31	19	12	2-50	TPI	11 A	16 B	4	104
Urmia	2012	34	30	19	15	3-14	GDH	0 A	28 BIII, 2 BIV	0	109
Isfahan	2014	9	–	5	4	–	–	–	–	–	49
Boyer-Ahmad	2014	179	–	96	83	1-89	–	–	–	–	52
Jiroft	2014	83	–	48	35	–	–	–	–	–	55
Ahvaz	2015	16	13	16	0	21-59	TPI, SSU rRNA	9 AII	1 BIII	–	110
Hamedan	2015	64	23	16	7	0-40	TPI, GDH	18 A	5 B	0	111
Karaj	2015	60	59	38	22	3-78	TPI	35 AII	14 BIII, 3 BIV	7	112
Kashan	2015	47	44	35	12	13-32	GDH	24 AII	7 BIII, 2 BIV	11	113
Tonekabon	2015	25	–	–	–	1-50	–	–	–	–	114
Qazvin	2016	20	17	20	0	18-63	GDH	11 AII	6 BIII	0	115
Tehran	2016	25	25	21	4	25-60	β -giardin	16 AII	9 BIII + BIV	0	116
Karaj	2016	15	4	–	–	2-10	TPI	1 AII	2 BIII, 1 BIV	0	117

Mazandaran	2016	222	–	122	100	1-77	–	–	–	–	118
Khorramabad	2016	70	69	–	–	–	TPI	47 AI	14 BIII, 8 BIV	0	119
Behbahan	2016	12	8	6	6	1-7	TPI, SSU rRNA	5 AII	–	–	120
Rasht	2017	206	41	115	91	1-60	GDH	38 AII	3 BIV	0	121
Sanandaj	2017	23	23	13	10	6-50	TPI	4 AI, 8 AII	5 BIII, 4 BIV	0	122
Borujen	2017	75	–	–	–	0-100	–	–	–	–	123
Shushtar	2018	90	24	54	36	2-75	β -giardin, GDH, TPI, SSU rRNA	10 AII	6 BIII, 1 BIV	–	124
Andimeshk	2019	84	40	63	21	7-44	β -giardin, GDH, SSU rRNA	23 AII	17 B	0	125