

Supplementary Table 1. Total number and death confirmation of Japanese Olympians eligible for the analysis according to the last participated Olympic game.

year	city	summer/ winter	male			female			total		
			all	death confirmation		all	death confirmation		all	death confirmation	
				n	%		n	%		n	%
1952	Oslo	winter	9	2	22.22	0	0	9	2	22.22	
1952	Helsinki	summer	49	19	38.78	9	0	58	19	32.76	
1956	Cortina d'Ampezzo	winter	6	1	16.67	0	0	6	1	16.67	
1956	Melbourne	summer	60	21	35	9	1	69	22	31.88	
1960	Squaw Valley	winter	22	1	4.55	2	0	24	1	4.17	
1960	Rome	summer	94	14	14.89	11	0	105	14	13.33	
1964	Innsbruck	winter	29	3	10.34	5	0	34	3	8.82	
1964	Tokyo	summer	216	23	10.65	54	4	270	27	10	
1968	Grenoble	winter	31	3	9.68	6	0	37	3	8.11	
1968	Mexico City	summer	115	19	16.52	16	1	131	20	15.27	
1972	Sapporo	winter	41	3	7.32	20	1	61	4	6.56	
1972	Munich	summer	105	9	8.57	29	0	134	9	6.72	
1976	Innsbruck	winter	31	3	9.68	5	0	36	3	8.33	
1976	Montreal	summer	120	5	4.17	53	1	173	6	3.47	
1980	Lake Placid	winter	38	2	5.26	4	0	42	2	4.76	
1980	Moscow	summer	21	0	0	5	0	26	0	0	
1984	Sarajevo	winter	25	0	0	4	0	29	0	0	
1984	Los Angeles	summer	125	3	2.4	37	0	162	3	1.85	
1988	Calgary	winter	29	0	0	7	0	36	0	0	
1988	Seoul	summer	145	1	0.69	55	0	200	1	0.5	
1992	Albertville	winter	11	0	0	12	0	23	0	0	
1992	Barcelona	summer	142	5	3.52	50	0	192	5	2.6	
1994	Lillehammer	winter	17	2	11.76	6	0	23	2	8.7	
1996	Atlanta	summer	102	1	0.98	107	0	209	1	0.48	
1998	Nagano	winter	60	0	0	42	0	102	0	0	
2000	Sydney	summer	119	3	2.52	69	0	188	3	1.6	
2002	Salt Lake City	winter	35	0	0	21	0	56	0	0	
2004	Athens	summer	99	1	1.01	101	1	200	2	1	
2006	Turin	winter	34	0	0	28	0	62	0	0	
2008	Beijing	summer	125	0	0	106	0	231	0	0	
2010	Vancouver	winter	27	0	0	25	0	52	0	0	
2012	London	summer	98	0	0	109	0	207	0	0	
2014	Sochi	winter	46	0	0	65	0	111	0	0	
2016	Rio de Janeiro	summer	37	0	0	46	0	83	0	0	
total			2263	144	6.36	1118	9	3381	153	4.53	

Supplementary Table 2. Standardized mortality ratio (SMR) with 95% confidence interval (CI) categorized by number of participation.

number of participation	total person years	number of deaths	expected number of deaths	SMR (95% CI)
1	69441.00	100	391.95	0.26 (0.21-0.31)
2	18984.15	38	96.81	0.39 (0.28-0.53)
3 or more	5651.67	15	33.11	0.45 (0.26-0.73)

Supplementary Table 3. Standardized mortality ratio (SMR) with 95% confidence interval (CI) in the sensitivity analysis according to the observation period.

observation period	total person years	number of deaths	expected number of deaths	SMR (95% CI)
1948-1997	19139.78	34	56.91	0.60 (0.42-0.83)
1998-2007	12215.80	58	61.06	0.95 (0.73-1.22)
2008-2017	15262.11	61	89.13	0.68 (0.53-0.87)
total	46617.69	153	207.10	0.74 (0.63-0.86)