

Supplementary Material

Mortality of Japanese Olympic athletes in 1964 Tokyo Olympic Games

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Supplementary Table 1. The distribution of year of latest confirmation on survival

Year of latest confirmation on survival	Number of athletes		Total
	From JSPO	From online databases	
1996	1	0	1
1997	1	0	1
2000	1	0	1
2004	13	0	13
2005	3	1	4
2008	6	0	6
2010	0	1	1
2012	33	0	33
2015	0	1	1
2016	164	4	168
2017	2	41	43
Total	224	48	272

Supplementary Table 2. Standardized mortality ratio (SMR) for the study population according to sex and attained age group**(A) male athletes**

Attained age group	Person years	Number of deaths	Crude mortality rate	Expected number of deaths	SMR (95%CI)
0-<30	1437.3	3	208.7	2.1	1.43 (0.36-3.90)
30-<40	2699.1	6	222.3	4.5	1.35 (0.55-2.80)
40-<50	2707.5	3	110.8	8.0	0.37 (0.09-1.02)
50-<60	2641.5	14	530.0	17.0	0.83 (0.47-1.35)
60-<70	2341.0	18	768.9	30.7	0.59 (0.36-0.91)
70-<80	1209.8	16	1322.5	32.3	0.50 (0.29-0.79)
≥80	80.5	4	4968.9	5.7	0.71 (0.22-1.71)
total	13116.6	64	487.9	100.3	0.64 (0.50-0.81)

(B) female athletes

Attained age group	Person years	Number of deaths	Crude mortality rate	Expected number of deaths	SMR (95%CI)
0-<30	422.6	0	0.0	0.3	
30-<40	575.1	0	0.0	0.5	
40-<50	568.3	2	351.9	0.8	2.36 (0.40-7.80)
50-<60	545.0	2	367.0	1.6	1.28 (0.22-4.24)
60-<70	512.9	0	0.0	2.7	
70-<80	227.9	1	438.8	2.7	0.37 (0.02-1.82)
≥80	6.4	1	15625.0	0.2	4.74 (0.24-23.39)
total	2858.3	6	209.9	8.9	0.68 (0.27-1.40)

Supplementary Table 3. Correlation coefficients between variables in the Cox proportional hazards model

	BMI	Grip strength	History of smoking	History of drinking	Age group	Blood pressure
BMI	1.00					
Grip strength	0.32	1.00				
History of smoking	-0.15	0.02	1.00			
History of drinking	0.03	0.09	0.18	1.00		
Age group	0.02	-0.18	0.02	0.08	1.00	
Blood pressure	0.15	0.20	0.05	0.21	0.10	1.00