

**Appendix 2. Factors associated with hip OA in Olympians and general population control**

	Olympians		Controls	
	Prevalence n (%)	aOR (95% CI) adjusted a, s, b, i	Prevalence n (%)	aOR (95% CI) adjusted a, s, b, i
<b>Age</b>				
20-39	19/1194 (1.59)	1.00 (reference)	3/776 (0.39)	1.00 (reference)
40-59	42/1359 (3.09)	<b>2.41 (1.35 to 4.32)</b>	11/646 (1.70)	<b>6.91 (1.51 to 31.61)</b>
>60	42/580 (7.24)	<b>6.75 (3.64 to 12.53)</b>	19/212 (8.96)	<b>41.23 (9.36 to 181.6)</b>
<b>Sex</b>				
male	62/1840 (3.37)	1.00 (reference)	15/723 (2.07)	1.00 (reference)
female	49/1488 (3.29)	0.78 (0.50 to 1.24)	20/998 (2.00)	1.42 (0.66 to 3.05)
<b>BMI</b>				
normal	51/1774 (2.87)	1.00 (reference)	11/981 (1.12)	1.00 (reference)
overweight	41/1063 (3.86)	1.33 (0.83 to 2.13)	14/457 (3.06)	<b>3.24 (1.29 to 8.13)</b>
obese	14/342 (4.09)	1.34 (0.69 to 2.60)	9/190 (4.74)	<b>4.45 (1.54 to 12.87)</b>
<b>Hip injury</b>				
no	86/3221 (2.67)	1.00 (reference)	29/1674 (1.73)	1.00 (reference)
yes	26/136 (19.12)	<b>14.30 (8.25 to 24.79)</b>	7/61 (11.48)	<b>4.84 (1.33 to 17.65)</b>
<b>Comorbidities</b>				
none	43/2379 (1.81)	1.00 (reference)	13/1263 (1.02)	1.00 (reference)
1	39/696 (5.60)	<b>2.87 (1.75 to 4.70)</b>	13/336 (3.87)	2.14 (0.89 to 5.15)
2 or more	30/282 (10.64)	<b>5.18 (2.96 to 9.09)</b>	10/136 (7.35)	<b>2.91 (1.08 to 7.84)</b>

(Values are presented as count (n) and prevalence (%). aOR adjusted a, s, b, I = odds ratio adjusted for confounders age, sex, BMI and injury. BMI = body mass index. Bold denotes statistical significance.)