

Appendix 3. Factors associated with shoulder 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
Age				
20-39	15/1194 (1.26)	1.00	5/776 (0.64)	1.00
40-59	35/1359 (2.58)	1.31 (0.75 to 2.31)	9/646 (1.39)	2.15 (0.71 to 6.48)
>60	24/580 (4.14)	1.63 (0.85 to 3.13)	7/212 (3.30)	5.55 (1.74 to 17.77)
Sex				
male	44/1840 (2.39)	1.00	11/723 (1.52)	1.00
female	35/1488 (2.35)	1.30 (0.79 to 2.16)	11/998 (1.10)	0.782 (0.33 to 1.88)
BMI				
normal	33/1774 (1.86)	1.00	11/981 (1.12)	
overweight	30/1063 (2.82)	1.34 (0.77 to 2.31)	7/457 (1.53)	
obese	14/342 (4.09)	1.80 (0.89 to 3.65)	4/190 (2.11)	
Injury				
no	44/2827 (1.56)	1.00	17/1513 (1.12)	1.00
yes	35/530 (6.60)	4.91 (3.03 to 7.96)	5/222 (2.25)	2.04 (0.73 to 5.71)
Shoulder recurrent injury	32/259 (12.36)	5.63 (2.27 to 13.98)	9/98 (9.18)	8.67 (1.32 to 45.14)
Comorbidities				
none	27/2379 (1.13)	1.00	8/1263 (0.63)	1.00
1	29/696 (4.17)	2.92 (1.64 to 5.18)	10/336 (2.98)	3.95 (1.51 to 10.31)
2 or more	23/282 (8.16)	5.53 (2.95 to 10.40)	4/136 (2.94)	2.60 (0.64 to 10.52)

(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.)