

**Appendix 4. Factors associated with lumbar spine pain 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	234/1194 (19.6)	1.00 (reference)	83/776 (10.7)	1.00 (reference)
40-59	293/1359 (21.56)	1.09 (0.88 to 1.34)	86/646 (13.31)	1.24 (0.88 to 1.73)
>60	83/580 (14.31)	<b>0.56 (0.41 to 0.77)</b>	32/212 (15.09)	<b>1.70 (1.07 to 2.70)</b>
<b>Sex</b>				
male	358/1840 (19.46)	1.00 (reference)	99/723 (13.69)	1.00 (reference)
female	285/1488 (19.15)	0.94 (0.77 to 1.15)	114/998 (11.42)	0.79 (0.59 to 1.08)
<b>BMI</b>				
normal	315/1774 (17.76)	1.00 (reference)	107/981 (10.91)	1.00 (reference)
overweight	214/1063 (20.13)	1.24 (1.00 to 1.55)	73/457 (15.97)	<b>1.46 (1.04 to 2.06)</b>
obese	76/342 (22.22)	<b>1.40 (1.02 to 1.92)</b>	21/190 (11.05)	1.06 (0.63 to 1.77)
<b>Lspine injury</b>				
no	400/2815 (14.21)	1.00 (reference)	157/1576 (9.96)	1.00 (reference)
yes	248/542 (45.76)	<b>4.90 (3.97 to 6.05)</b>	57/159 (35.85)	<b>5.07 (3.48 to 7.39)</b>
Lspine recurrent injury	196/355 (55.21)	<b>3.31 (2.21 to 4.96)</b>	45/99 (45.45)	<b>3.12 (1.44 to 6.75)</b>
<b>Comorbidities</b>				
none	377/2379 (15.85)	1.00 (reference)	124/1263 (9.82)	1.00 (reference)
1	185/696 (26.58)	2.09 (1.67 to 2.62)	56/336 (16.67)	1.96 (1.36 to 2.83)
2 or more	86/282 (30.5)	<b>2.23 (1.61 to 3.10)</b>	34/136 (25)	<b>3.40 (2.11 to 5.50)</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. Lspine = Lumbar spine. Bold denotes statistical significance.)