**Table 2 Bivariate associations between sociodemographic, behavioural, constitutional and psychosocial risk factors and shoulder soft tissue rheumatism in a population based case–control study, Lebanon, 2009**

| Variable | Cases (n = 52) No. (%) | Controls (n = 208) No. (%) | Total No. (%) | Unadjusted OR (95% CI) | P-value |
|---|---|---|---|---|---|
| **Age (years)** | | | | | |
| 17–39 | 25 (48.1) | 100 (48.1) | 125 (48.1) | 1.00 | 1.000 |
| ≥ 40 | 27 (51.9) | 108 (51.9) | 135 (51.9) | 1 (0.54–1.84) | |
| **Gender** | | | | | |
| Male | 17 (32.7) | 68 (32.7) | 85 (32.7) | 1.00 | 1.000 |
| Female | 35 (67.3) | 140 (67.3) | 175 (67.3) | 1 (0.52–1.91) | |
| **Residence** | | | | | |
| (Beirut/Mount Lebanon) | 10 (19.2) | 147 (70.7) | 157 (60.4) | 1.00 | |
| North | 20 (38.5) | 29 (13.9) | 49 (18.9) | 10.14 (4.3–23.89) | < 0.001* |
| Bekaa | 10 (19.2) | 12 (5.8) | 22 (8.5) | 12.25 (4.26–35.21) | < 0.001* |
| South | 12 (23.1) | 20 (9.6) | 32 (12.3) | 8.82 (3.38–23.05) | < 0.001* |
| **Education level** | | | | | |
| Low (elementary or below) | | | | 1.00 | |
| Medium (intermediate and high school) | 25 (48.1) | 119 (57.2) | 144 (55.4) | 0.88 (0.39–1.99) | 0.763 |
| High (university and technical college) | 17 (32.7) | 47 (22.6) | 64 (24.6) | 1.5 (0.62–3.68) | 0.354 |
| **Income (LL/month)** | | | | | |
| Low (< 500 000) | | | | 1.00 | |
| Medium (≥ 500 000–< 1 million) | 24 (46.2) | 99 (46.8) | 123 (47.5) | 0.28 (0.09–0.84) | 0.023* |
| High (≥ 1 million) | 21 (40.4) | 100 (48.3) | 121 (46.7) | 0.24 (0.08–0.73) | 0.012* |
| **Job** | | | | | |
| Administrative | | | | 1.00 | 0.539 |
| Manual (tailor, hair dresser, etc) | 4 (21.1) | 19 (20.0) | 23 (20.2) | 1.18 (0.35–4.04) | 0.170 |
| Agriculture/military | 2 (10.5) | 3 (3.2) | 5 (4.4) | 3.74 (0.57–24.63) | |
| **Physical activity** | | | | | |
| Yes | | | | 1.00 | |
| No | 36 (81.8) | 110 (56.4) | 146 (61.1) | 3.48 (1.54–7.87) | 0.003* |
| **Cigarette smoking** | | | | | |
| No | | | | 1.00 | |
| Yes | 16 (40.0) | 54 (28.7) | 70 (30.7) | 1.65 (0.82–3.36) | 0.163 |
| **Waterpipe smoking** | | | | | |
| No | | | | 1.00 | |
| Yes | 11 (27.5) | 46 (24.5) | 57 (25.) | 1.17 (0.54–2.53) | 0.688 |
| **Alcohol** | | | | | |
| No | | | | 1.00 | |
| Yes | 8 (20.0) | 44 (23.4) | 52 (22.8) | 0.82 (0.35–1. 9) | 0.642 |
| **Body mass index** | | | | | |
| Normal (≤ 24.9 kg/m2) | | | | 1.00 | |
| Overweight (25.0–29.9 kg/m2) | 18 (34.6) | 76 (36.7) | 94 (36.3) | 0.97 (0.53–1.99) | 0.968 |
| Obese (≥ 30 kg/m2) | 9 (17.3) | 24 (11.6) | 33 (12.7) | 1.05 (0.66–3.87) | 0.293 |
| **Family history** | | | | | |
| No | | | | 1.00 | |
| Yes | 20 (50.0) | 26 (13.8) | 46 (20.2) | 6.23 (2.95–13.13) | < 0.001* |
| **Stress-induced sleep difficulty** | | | | | |
| No | | | | 1.00 | |
| Yes | 24 (60.0) | 16 (8.5) | 40 (17.5) | 16.13 (7.14–36.4) | < 0.001* |
| **Self-evaluation for current health status compared to others** | | | | | |
| Better | | | | 1.00 | |
| Same | 10 (25.0) | 144 (76.6) | 154 (67.5) | 0.24 (0.1–0.95) | 0.002* |
| Worse | 18 (45.0) | 3 (1.6) | 21 (9.2) | 20.5 (5.15–81.58) | < 0.001* |

*Statistically significant (P ≤ 0.05).

OR = odds ratio.

CI = confidence interval.

LL = Lebanese lira.