



Risk factors for upper-extremity musculoskeletal disorders in the working population.

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Résumé en anglais	<p>OBJECTIVE: To assess the relative importance of personal and occupational risk factors for upper-extremity musculoskeletal disorders in the working population.</p> <p>METHODS: A total of 3,710 workers (58% men) participating in a surveillance program of musculoskeletal disorders in a French region in 2002-2005 were included. Upper-extremity musculoskeletal disorders were diagnosed by 83 trained occupational physicians performing a standardized physical examination. Personal factors and work exposure were assessed by a self-administered questionnaire. Statistical associations between musculoskeletal disorders, personal, and occupational factors were analyzed using logistic regression modeling.</p> <p>RESULTS: A total of 472 workers experienced at least 1 upper-extremity musculoskeletal disorder. The risk of upper-extremity musculoskeletal disorders increased with age for both sexes ($P < 0.001$, odds ratio [OR] < or =4.9 in men and < or =5.0 in women), and in cases of prior history of upper-extremity musculoskeletal disorders (OR 3.1 and 5.0, respectively, $P < 0.001$). In men, upper-extremity musculoskeletal disorders were associated with obesity (OR 2.2, $P = 0.014$), high level of physical demand (OR 2.0, $P < 0.001$), high repetitiveness of the task (OR 1.5, $P = 0.027$), postures with the arms at or above shoulder level (OR 1.7, $P = 0.009$) or with full elbow flexion (OR 1.6, $P = 0.006$), and high psychological demand (OR 1.5, $P = 0.005$). In women, upper-extremity musculoskeletal disorders were associated with diabetes mellitus (OR 4.9, $P = 0.001$), postures with extreme wrist bending (OR 2.0, $P < 0.001$), use of vibrating hand tools (OR 2.2, $P = 0.025$), and low level of decision authority (OR 1.4, $P = 0.042$).</p> <p>CONCLUSION: Personal and work-related physical and psychosocial factors were strongly associated with clinically diagnosed upper-extremity musculoskeletal disorders.</p>
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- [1] <http://okina.univ-angers.fr/yves.roquelaure/publications>
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