Occupational ergonomic risk factors for neck pain: Review

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Workers such as office workers, ultra-sonographers, dental hygienists, and professional drivers are documented in the literature as suffering especially from neck pain. Forward head posture, weekly computer utilization of 6-9 or more hours, sustained sitting associated with computer use, dissatisfaction with the computer work station, inappropriate placement of laptop devices such as monitor, keyboard and mouse and close keyboard position to the physique have been linked to the incidence and incidence of neck pain in office workers. An uncomfortable guidance wheel, seat, and again aid had been related with a higher occurrence of neck pain in professional city bus drivers. Driving with trunk bent or twisted was once associated with neck pain. Sonographers with the screen on their left had extra neck pain significantly. In the commonplace population, a mixture of sustained/repeated arm abduction with excessive bodily perceived exertion was once the strongest hazard aspect for neck ache in women, and prolonged ahead head flexion was once associated with a greater incidence of neck ache in men. Few explanations of the ergonomic reasons of neck ache have been discovered in the literature. When working with fingers and fingers, the muscular tissues in the proximal areas as neck and shoulders need to act as stabilizers. This static contraction of the muscular tissues is expressed greater strongly when neck rotation or ahead head bending occurs as a result. For example, a pc display is placed to the side of the employee and continuous rotation of the neck in the course of the working day might cause neck pain. Drivers also preserve static awkward body postures for prolonged intervals of time, inflicting mechanical stress upon the spine and surrounding soft structures, which eventually cause neck pain. Neck pain risk elements consist of the entire physique in its environment. Ergonomic adjustment of the surrounding fixtures and gear to the anthropometry of the employee is warranted. Work-related neck-shoulder ache (WRNSP) is a common problem amongst different occupational groups. These include workplace workers, healthcare people such as nurses and therapists, engineers, and manual people (e.g., development site workers). WRNSP affect thousands and thousands of working populations all around the world. Because of the development of technology and the evolving nature of work, greater people are uncovered to prolonged static posture and repetitive higher limb actions. These two factors are widely diagnosed as the most frequent occupational hazard elements contributing to WRNSP. In the United States, the occurrence of WRNSP has been suggested at a excessive charge with round 56–65% of all occupational injuries, and its related direct and indirect annual prices have been over $2 billion. In different developed European nations including the Netherlands and Denmark, the occurrence of WRNSP has been stated to be 20–40%. In Hong Kong, there is little epidemiological statistics handy on WRNSP and the Department of Labor has a very stringent definition of compensable “occupational diseases” so the suggested statistics were very low with less than 400 cases per year. Recent studies in Hong Kong show that the occurrence of WRNSP is high amongst fitness care workers, the construction industry, and the catering industry. Research from the occupational viewpoint often entails physical ergonomic interventions, organizational interventions, place of job modifications, and engineering controls. From the clinical perspective, these employees with continual neck-shoulder pain may also are looking for clinical advice and therapy from physiotherapists. Conventional therapy regularly entails therapeutic workout routines and guide therapy to relieve joint stiffness or muscle tension. A few systematic reviews have been published to evaluate the effectiveness of extraordinary interventions for WRNSP or associated disorders, and the results are inconclusive. There have been a few recent reviews helping the results of workplace-based exercise education applications on decreasing work-related neck pain. However, these research have generally pronounced the trade in self-reported pain rankings and there are no measures to indicate how the interventions affect their work habits or occupational exposure factors. It is commonplace that each physical and psychosocial factors are at play in contributing to work-related musculoskeletal disorders. There are some validated gadgets that can measure these elements and it will be beneficial to evaluate whether or not place of business interventions can successfully alternate the bodily and psychosocial exposure in the workers.

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