### BEYOND BIOMECHANICS

# Psychosocial Aspects of Musculoskeletal Disorders in Office Work

EDITED BY S. D. MOON AND S. L. SAUTER



Waldemar Karwowski, William S. Marras

**Beyond Biomechanics** Steve Sauter, S D Moon, 1996-02-08 There is now widespread recognition that psychosocial factors play a key role in the aetiology perpetuation management and prevention of cumulative trauma disorders CTDs This text addresses the strength direction and importance of links between psychosocial factors and CTDs The book s contributors examine critically current research data identify potential link mechanisms and recommend measures for control and prevention Topics covered include socio organizational psychology medical anthropology occupational medicine rehabilitation orthopaedics job stress and ergonomic interventions. The book aims to demystify the concept of the psychosocial so as to promote and assure effective prevention in the workplace **Beyond Biomechanics; Psychosocial** Aspects of Musculoskeletal Disorders in Office Work Moon SD.,1996 **Beyond Biomechanics** Steve Sauter, S D Moon, 2005-08-12 There is now widespread recognition that psychosocial factors play a key role in the aetiology perpetuation management and prevention of cumulative trauma disorders CTDs This text addresses the strength direction and importance of links between psychosocial factors and CTDs The book s contributors examine critically current research data identify potential link mechanisms and recommend measures for control and prevention Topics covered include socio organizational psychology medical anthropology occupational medicine rehabilitation orthopaedics job stress and ergonomic interventions The book aims to demystify the concept of the psychosocial so as to promote and assure effective prevention in the workplace

Work-Related Musculoskeletal Disorders National Research Council Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Steering Committee for the Workshop on Work-Related Musculoskeletal Injuries: The Research Base, 1999-03-11 Estimated costs associated with lost days and compensation claims related to musculoskeletal disorders including back pains and repetitive motion injuries range from 13 billion to 20 billion annually This is a serious national problem that has spurred considerable debate about the causal links between such disorders and risk factors in the workplace This book presents a preliminary assessment of what is known about the relationship between musculoskeletal disorders and what may cause them It includes papers and a workshop summary of findings from orthopedic surgery public health occupational medicine epidemiology risk analysis ergonomics and human factors Topics covered include the biological responses of tissues to stress the biomechanics of work stressors the epidemiology of physical work factors and the contributions of individual recreational and social factors to such disorders. The book also considers the relative success of various workplace interventions for prevention and rehabilitation Psychosocial Factors at Work in the Asia Pacific Akihito Shimazu, Rusli Bin Nordin, Maureen Dollard, Jodi Oakman, 2016-09-24 This book presents research and best practice examples from the Asia Pacific region to address the gap in global expertise on psychosocial factors at work It explores practices in the region that promote healthy workplaces and workers by presenting research from around the globe on issues such as telework small and medium sized enterprises disaster struck areas suicide prevention and workplace client

violence It discusses practical multidisciplinary efforts to address worker occupational health Further it explores psychosocial risk and prevention as well as the significant role of cultural variations and practices in the diverse range of countries covered Advances in Human Factors and Ergonomics in Healthcare Vincent G. Duffy, 2010-06-11 Based on recent research this book discusses how to improve quality safety efficiency and effectiveness in patient care through the application of human factors and ergonomics principles It provides guidance for those involved with the design and application of systems and devices for effective and safe healthcare delivery from both a patient Work-Related Musculoskeletal Disorders: A comprehensive guide to tackle Work-Related Musculoskeletal Issues for professionals Dr. Pinky Dutta, 2024-08-28 The publication Understanding Work Related Musculoskeletal Disorders WRMSD by Dr Pinky Dutta provides an in depth analysis of musculoskeletal disorders MSDs caused by work related activities With over 13 years of expertise Dr Dutta introduces MSDs detailing their impact on muscles bones tendons and ligaments and emphasizes their effects on daily functioning and occupational productivity She highlights that repetitive workplace pressure accounts for around 50% of non fatal work related injuries The book covers prevalent MSDs like carpal tunnel syndrome and thoracic outlet syndrome especially in occupations involving extensive computer use and physical labor Dr Dutta also explores inflammation s role in MSD development proposing a revised categorization system based on tissue changes and pathophysiology This comprehensive resource reflects Dr Dutta's dedication to sharing knowledge gained through extensive research clinical experience and active participation in the field The Occupational Ergonomics Handbook Waldemar Karwowski, William S. Marras, 1998-12-18 Occupational ergonomics and safety studies the application of human behavior abilities limitations and other characteristics to the design testing and evaluation of tools machines systems tasks jobs and environments for productive safe comfortable and effective use Occupational Ergonomics Handbook provides current comprehensive knowledge in this broad field providing essential state of the art information from nearly 150 international leaders of this discipline The text assesses the knowledge and expertise applied to industrial environments Providing engineering guidelines for redesigning tools machines and work layouts Evaluating the demands placed on workers by current jobs Simulating alternative work methods Determining the potential for reducing physical job demands based on the implementation of new methods Topics also include Fundamental ergonomic design principles at work Work related musculoskeletal injuries such as cumulative trauma to the upper extremity CTDs and low back disorders LBDs which affect several million workers each year with total costs exceeding 100 billion annually Current knowledge used for minimizing human suffering potential for occupational disability and related worker's compensation costs Working conditions under which musculoskeletal injuries might occur Engineering design measures for eliminating or reducing known job risk factors Optimal manufacturing processes regarding human perceptual and cognitive abilities as well as task reliability Identifying the worker population affected by adverse conditions Early medical and work intervention efforts Economics of an

ergonomics maintenance program Ergonomics as an essential cost to doing business Ergonomics intervention includes design for manufacturability total quality management and work organization Occupational Ergonomics Handbook demonstrates how ergonomics serves as a vital component for the activities of the company and enables an advantageous cooperation between management and labor This new handbook serves a broad segment of industrial practitioners including industrial and manufacturing engineers managers plant supervisors and ergonomics professionals researchers and students from academia business and government human factors and safety specialists physical therapists cognitive and work psychologists sociologists and human computer communications specialists Human Factors and Ergonomics in Consumer Product Design Waldemar Karwowski, Marcelo M. Soares, Neville A. Stanton, 2011-06-22 Every day we interact with thousands of consumer products We not only expect them to perform their functions safely reliably and efficiently but also to do it so seamlessly that we don't even think about it However with the many factors involved in consumer product design from the application of human factors and ergonomics principles to reducing risks of malfunction and the total life cycle cost well the process just seems to get more complex Edited by well known and well respected experts the two volumes of Handbook of Human Factors and Ergonomics in Consumer Product Design simplify this process The second volume Human Factors and Ergonomics in Consumer Product Design Uses and Applications discusses challenges and opportunities in the design for product safety and focuses on the critical aspects of human centered design for usability The book contains 14 carefully selected case studies that demonstrate application of a variety of innovative approaches that incorporate Human Factor and Ergonomics HF E principles standards and best practices of user centered design cognitive psychology participatory macro ergonomics and mathematical modeling These case studies also identify many unique aspects of new product development projects which have adopted a user centered design paradigm as a way to attend to user requirements The case studies illustrate how incorporating HF E principles and knowledge in the design of consumer products can improve levels of user satisfaction efficiency of use increase comfort and assure safety under normal use as well as foreseeable misuse of the product The book provides a comprehensive source of information regarding new methods techniques and software applications for consumer product design Systems, Social, and Internationalization Design Aspects of **Human-computer Interaction** Michael J. Smith, Gavriel Salvendy, 2001-08-01 Please see Volume I for a full description

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