Atlas Of Muscle Innervation Zones Understanding Surface Electromyography And Its Applications

Pocket Atlas of Acupuncture and Trigger Points

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Sobotta Clinical Atlas of Human Anatomy, one volume, English

Atlas of Functional Shoulder Anatomy

Management, Rehabilitation and Prevention

Atlas of Artifacts in Clinical Neurophysiology

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Diagnosis and Management

Understanding Surface Electromyography and Its Applications

Atlas of Skeletal Muscle Pathology

Physiology, Engineering, and Applications

Experimental Methods in Biomechanics

Neuro-motor control and feed-forward models of locomotion in humans

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Proceedings of the AHFE 2016 International Conference on Social and Occupational Ergonomics, July 27-31, 2016, Walt Disney World®, Florida, USA

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FRENCH PHILLIPS

Pocket Atlas of Acupuncture and Trigger Points Elsevier Health Sciences With the advent of enzyme histochemistry, which this field and simplistic theories will be expanded or revealed hitherto unseen pathological differences discarded. between muscle disorders, muscle biopsy assumed Diseased muscle cells, as any other cell type, show an important diagnostic role. The investigation is easily only limited morphological changes. However bizarre, performed and is being undertaken with increasing very few of these changes, if any, are pathognomonic of frequency. Nevertheless there is still a tendency to a single disease. The exact significance of microscopic regard its interpretation as highly specialized and out findings is to a large extent determined by their clinical side the province of the general histopathologist. In

this context. Thus, although this is an atlas, it is definitely atlas I have tried to lift the veil of neuropathological not designed to promote 'spot' histological diagnoses. I mystique and to describe and illustrate the basic have aimed to provide a guide to pathological reactions reactions of muscle cells, of muscle which will be useful to the practising histo Interpretation of the biopsy depends not only upon pathologist and all students of neuro-muscular disease. recognition of morphological abnormalities, but upon I hope that recognition of the lack of specificity of understanding why they occur. Throughout the atlas I individual morphological features will encourage the have attempted to correlate morphological changes . close clinico-pathological correlation which is essential with pathogenetic mechanisms.

Advances in Human Aspects of Transportation Springer

Encyclopedia of Biomedical Engineering is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering. Biomaterials, biomedical devices and techniques play a significant role in

improving the quality of health care in the developed world. The book covers an extensive range of topics related to biomedical engineering, including biomaterials, sensors, medical devices, imaging modalities and imaging processing. In addition, applications of biomedical engineering, advances in cardiology, drug delivery, gene therapy, orthopedics, ophthalmology, sensing and tissue engineering are explored. This important reference work serves many groups working at the interface of the biological sciences and engineering, including engineering students, biological science students, clinicians, and industrial researchers. Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering, also incorporating perspectives from experts working within the domains of biomedicine, medical engineering, biology, chemistry, physics, electrical engineering, and more Contains reputable, multidisciplinary content from domain experts Presents a 'one-stop' resource for access to information written by world-leading scholars in the field

Sobotta Clinical Atlas of Human Anatomy, one volume, English Elsevier Health Sciences

Invasive electromyography is a wellestablished diagnostic tool that has been used for decades by neurologists. Recently, new and alternative devices have increasingly become available that permit diagnosis without the use of needles. This developing area of science and the new tools have not, however. been sufficiently investigated in academic training. Consequently a gap exists between what science is making possible and the competence acquired during graduate studies. This handy volume has the aim of filling this gap by providing the information required by medical practitioners in rehabilitation, sports, and occupational health as well as by rehabilitation therapists, ergonomists, and sport coaches. The techniques that are presented and explained will help in monitoring and recording changes, evaluating the effectiveness of treatments and training, evaluating work stations, and preventing and documenting the evolution of occupational disorders of the neuromuscular system.

Atlas of Functional Shoulder Anatomy

Atlas of Muscle Innervation ZonesUnderstanding Surface Electromyography and Its Applications Written by an experienced and wellrespected physician and professor, this new volume combines the entire previous four books, Ultrasonic Topographical and Pathotopographical Anatomy, and its three sequels, also available from Wiley-Scrivener, presenings the ultrasonic topographical and pathotopographical anatomy of the entire body, offering further detail into these important areas for use by medical professionals. This comprehensive and exhaustive medical atlas of topographic and pathotopographic human anatomy is a fundamental and practically important book designed for doctors of all specializations and students of medical schools. Here you can find almost everything that is connected with the topographic and pathotopographic human anatomy, including original graphs of logical structures of topographic anatomy and development of congenital abnormalities, topography of different areas in layers, pathotopography, computer and magnetic resonance

imaging (MRI) of topographic and pathotopographic anatomy. You can also find here new theoretical and practical sections of topographic anatomy developed by the author himself which are published for the first time. They are practically important for mastering the technique of operative interventions and denying possibility of iatrogenic complications during operations. This important new volume will be valuable to physicians, junior physicians, medical residents, lecturers in medicine, and medical students alike, either as a textbook or as a reference. It is a musthave for any physician's library. Management, Rehabilitation and Prevention John Wiley & Sons Medical and Service Robotics integrate the most recent achievements in mechanics. mechatronics, computer science, haptic and teleoperation devices together with adaptive control algorithms. The book includes topics such as surgery robotics, assist devices, rehabilitation technology, surgical instrumentation and Brain-Machine Interface (BMI) as examples for medical robotics. Autonomous cleaning, tending, logistics, surveying and rescue

robots, and elderly and healthcare robots are typical examples of topics from service robotics. This is the Proceedings of the Third International Workshop on Medical and Service Robots, held in Lausanne, Switzerland in 2014. It presents an overview of current research directions and fields of interest. It is divided into three sections, namely 1) assistive and rehabilitation devices; 2) surgical robotics; and 3) educational and service robotics. Most contributions are strongly anchored on collaborations between technical and medical actors, engineers, surgeons and clinicians. Biomedical robotics and the rapidly growing service automation fields have clearly overtaken the "classical" industrial robotics and automatic control centered activity familiar to the older generation of roboticists.

Atlas of Artifacts in Clinical Neurophysiology Elsevier Health Sciences

This concise pocket-sized acupuncture guide is what professionals have been asking for! It is the first pocket atlas to cover all the major body and ear acupuncture points, including extensive coverage of the trigger points. Detailed

descriptions of the localization, needling depth, indications, and functions of each point are provided. The different schools of ear acupuncture (e.g., Chinese vs. Nogier), often a source of confusion for practitioners, are presented side by side, usually in full-page illustrations, enhancing this book's usefulness as a daily reference guide. The presentation of three acupuncture therapy systems follows a clear didactic concept: All points are shown in text and image, and the localization of the points is aided by means of anatomic drawings and photographs. Coming from diverse specialties, the authors provide you with the most complete, useful, and accurate information available. Acupuncture points are described using the "visual-didactic processing system," which is rapidly gaining praise and recognition for its easyto-use format. The clearly written text is augmented by high-quality color images. Hecker's Pocket Atlas of Acupuncture and Trigger Points is ideal as a quick reference in your daily practice or as an exam preparation guide. This wealth of information makes it invaluable to experienced practitioners and to novices

alike.

Demos Medical Publishing This book discusses the latest advances in research and development, design, operation and analysis of transportation systems and their complementary infrastructures. It reports on both theories and case studies on road and rail, aviation and maritime transportation. Further, it covers a wealth of topics, from accident analysis, vehicle intelligent control, and human-error and safety issues to nextgeneration transportation systems, modelbased design methods, simulation and training techniques, and many more. A special emphasis is placed on smart technologies and automation in transport, and on the user-centered, ergonomic and sustainable design of transport systems. The book, which is based on the AHFE 2018 International Conference on Human Factors in Transportation, held in Orlando, Florida, USA on July 21–25, 2018, mainly addresses the needs of transportation system designers, industrial designers, human-computer interaction researchers, civil and control engineers, as well as vehicle system engineers. Moreover, it represents a timely source of information

for transportation policy-makers and social scientists whose work involves traffic safety, management, and sustainability issues in transport.

Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018), October 16-20, 2018, Pisa, Italy Springer Publishing Company This book reports on cutting-edge findings and developments in physical, social and occupational ergonomics. It covers a broad spectrum of studies and evaluation procedures concerning physical and mental workload, work posture and ergonomic risk. Further, it reports on significant advances in the design of services and systems, including those addressing special populations, for purposes such as health, safety and education, and discusses solutions for a better and safer integration of humans, automated systems and digital technologies. The book also analyzes the impact of culture on people's cognition and behavior, providing readers with timely insights into theories on crosscultural decision-making, and their diverse applications for a number of purposes in businesses and societies. Based on the

AHFE 2021 conferences on Physical Ergonomics and Human Factors, Social & Occupational Ergonomics, and Cross-Cultural Decision Making, held virtually on 25-29 July, 2021, from USA, it provides readers with a comprehensive overview of the current challenges in physical, social and occupational ergonomics, including those imposed by technological developments, highlights key connections between them, and puts forward optimization strategies for sociotechnical systems, including their organizational structures, policies and processes. Atlas of Topographical and Pathotopographical Anatomy of the Head and Neck Springer This book presents the proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018), held on August 26-30, 2018, in Florence, Italy. By highlighting the latest theories and models, as well as cutting-edge technologies and applications, and by combining findings from a range of disciplines including engineering, design, robotics, healthcare, management, computer science, human biology and behavioral science, it provides researchers

and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance, while at the same time promoting the health, safety and wellbeing of individuals. The proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies, domains and productive sectors. This volume includes papers addressing the following topics: Safety and Health, and Slips, Trips and Falls. Aesthetic Plastic Surgery Video Atlas E **Book Springer Nature** Aesthetic Plastic Surgery Video Atlas edited by Dr. Bahman Guyuron et al. brings you the detailed visual guidance and unmatched expertise you need to master the most popular cosmetic surgery procedures and achieve breathtaking results. Full-color photographs and

narrated procedural videos lead you stepby-step through techniques such as breast augmentation, non-surgical facial rejuvenation with fillers, periorbital rejuvenation, primary rhinoplasty, and more. Tips and tricks from a veritable "who's who" in plastic surgery equip you to successfully deliver the results your patients expect. At www.expertconsult.com you can reference the complete text, download the images, and watch the videos anytime, anywhere from any computer. Visualize how to proceed through a highly visual format that employs full-color art and video clips to demonstrate breast augmentation, nonsurgical facial rejuvenation with fillers, periorbital rejuvenation, primary rhinoplasty, and more. Avoid pitfalls and achieve the best outcomes thanks to a step-by-step approach to each procedure, complete with tips and tricks of the trade from leading experts in aesthetic plastic surgery. See how the masters do it! Watch video clips of 16 key procedures (two hours running time) being performed by experts, complete with narration explaining each step. Stay current with the latest techniques and findings about

cohesive gel breast implants, the use of minimally invasive techniques, and other hot topics. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more at www.expertconsult.com.

Netter Atlas of Human Anatomy: Classic Regional Approach - Ebook John Wiley & Sons

The detailed illustrations in Hinman's Atlas of UroSurgical Anatomy, supplemented by radiologic and pathologic images, help you clearly visualize the complexities of the genitourinary tract and its surrounding anatomy so you can avoid complications and provide optimal patient outcomes. This medical reference book is an indispensable clinical tool for Residents and experienced urologic surgeons alike. See structures the way they appear during surgery though illustrations, as well as a number of newly added intra-operative photographs. Operate with greater confidence with the assistance of this extensively enhanced complement to Hinman's Atlas of Urologic Surgery, 3rd Edition. View the anatomy of genitourinary and other organs and their surrounding structures through detailed illustrations,

most of which are newly colored since the 1st Edition, conveniently organized by body region. Understand normal anatomy and selected alterations in normal anatomy more completely through a large collection of newly added clinical, radiologic and pathologic images. Advances in Human Factors in Wearable <u>Technologies and Game Design</u> Springer Science & Business Media Named a Doodyis Core Title in 2012 and 2013! Widely acknowledged as the cornerstone reference in the field, Pediatric Rehabilitation brings together renowned specialists from all sectors of the pediatric rehabilitation community to provide the most current and comprehensive information available. The fifth edition has been substantially updated and expanded with evidencebased discussions of new theories, therapies, interventions, research findings, and controversies. Five completely new chapters focus on such emerging areas as the use of ultrasound to guide motor point and nerve injections, rehabilitation of chronic pain and conversion disorders, management of concussions, sports injuries, and neurodegenerative and

demyelinating diseases in children. This edition also addresses important new directions in genetic markers and tests, cognitive, developmental, and neuropsychological assessment, and rehabilitation for common genetic conditions. Additionally, several new contributors provide fresh perspectives to the voices of established leaders in the field. The text covers all aspects of pediatric rehabilitation medicine from basic examination and testing to electrodiagnosis, therapeutic exercise, orthotics and assistive devices, gait labs, aging with pediatric onset disability, and in-depth clinical management of the full range of childhood disabilities and injuries. iPearls and Perilsi featured throughout the book underscore crucial information, and illustrations, summary tables, information boxes, and lists contribute to the textis abundant clinical utility. New to the Fifth Edition: Every chapter has been thoroughly revised and expanded to reflect current thinking and practice Evidence-based discussions of new theories, therapies, interventions, research findings, and areas of controversy Five entirely new chapters

illuminating emerging areas: rehabilitation of chronic pain and conversion disorders, ultrasound-guided injections, concussion management, sports injuries, and neurodegenerative and demyelinating diseases in children Diagnosis and Management Springer Atlas of Clinical Gross Anatomy uses over 500 incredibly well-executed and superb dissection photos and illustrations to guide you through all the key structures you'll need to learn in your gross anatomy course. This medical textbook helps you master essential surface, gross, and radiologic anatomy concepts through highquality photos, digital enhancements, and concise text introductions throughout. Get a clear understanding of surface, gross, and radiologic anatomy with a resource that's great for use before, during, and after lab work, in preparation for examinations, and later on as a primer for clinical work. Learn as intuitively as possible with large, full-page photos for effortless comprehension. No more

confusion and peering at small, closely

background in each dissection with the aid

cropped pictures! Easily distinguish

highlighted structures from the

of digitally color-enhanced images. See structures the way they present in the anatomy lab with specially commissioned dissections, all done using freshly dissected cadavers prepared using low-alcohol fixative. Bridge the gap between gross anatomy and clinical practice with clinical correlations throughout. Master anatomy efficiently with one text covering all you need to know, from surface to radiologic anatomy, that's ideal for shortened anatomy courses. Review key structures quickly thanks to detailed dissection headings and unique icon navigation.

Understanding Surface Electromyography and Its Applications Springer Science & Bus

Applications Springer Science & Business Media

Arranged by anatomic region, Atlas of Interventional Pain Management provides pain medicine specialists in practice and in training with the most up-to-date and practical guide to over 160 interventional pain management techniques. High-quality photographs, procedural videos, and 19 brand-new chapters combine to offer the detailed guidance you need to implement safe, effective treatments and

achieve the best possible outcomes in Pain Medicine. Maximize your success rate and reduce complications with CPT codes for each procedure, as well as indications, relevant anatomy, technique, side effects and complications, and clinical pearls. Integrate interventional techniques into your practice with lavish, detailed illustrations that highlight the key steps in each procedure. View line drawings paired with CT, MR and/or radiographic images to illustrate relevant points in the text. Stay current on the latest injection techniques with 19 brand-new chapters including: Brachial Plexus Block - Infraclavicular Approach: Transverse Abdominis Plane Block; Anterior Cutaneous Nerve Block; Lumbar Grey Ramus Communicans Block; Lumbar Grey Ramus Communicans Block -Radiofrequency Lesioning; and more. Expand the breadth of procedures you perform by focusing on the "how" rather than the "why" of various pain-relieving techniques. Increase needle-placement precision and find the exact location to deliver the nerve block with significantly expanded fluoroscopy- and ultrasoundguided content. Visualize proper needle placement with help from an increased

number of high-quality photographs. Understand how techniques are performed by watching procedural videos that cover Cervical Translaminar Epidural Block; Cervical Paravertebral Medical Branch Block: Percutaneous Facet Fusion: Lumbar Transforaminal Epidural Clock; and more. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Atlas of Skeletal Muscle Pathology John Wiley & Sons Written by an experienced and wellrespected physician and professor, this new volume, building on the previous volume, Ultrasonic Topographical and Pathotopographical Anatomy, and its sequels, also available from Wiley-Scrivener, presents the ultrasonic topographical and pathotopographical anatomy of the pelvis, spine, and limbs, offering further detail into these important areas for use by medical professionals. This series of atlases of topographic and pathotopographic human anatomy is a fundamental and practically important book designed for doctors of all specializations and students of medical schools. Here you can find almost

everything that is connected with the topographic and pathotopographic human anatomy, including original graphs of logical structures of topographic anatomy and development of congenital abnormalities, topography of different areas in layers, pathotopography, computer and magnetic resonance imaging (MRI) of topographic and pathotopographic anatomy. Also you can find here new theoretical and practical sections of topographic anatomy developed by the author himself which are published for the first time. They are practically important for mastering the technique of operative interventions and denying possibility of iatrogenic complications during operations. This important new volume will be valuable to physicians, junior physicians, medical residents, lecturers in medicine, and medical students alike, either as a textbook or as a reference. It is a musthave for any physician's library Physiology, Engineering, and Applications Springer Nature For students and clinical professionals who are learning anatomy, participating in a

knowledge with patients, or refreshing their anatomy knowledge, the Netter Atlas of Human Anatomy illustrates the body, region by region, in clear, brilliant detail from a clinician's perspective. Unique among anatomy atlases, it contains illustrations that emphasize anatomic relationships that are most important to the clinician in training and practice. Illustrated by clinicians, for clinicians, it contains more than 550 exquisite plates plus dozens of carefully selected radiologic images for common views. Presents worldrenowned, superbly clear views of the human body from a clinical perspective, with paintings by Dr. Frank Netter as well as Dr. Carlos A. G. Machado, one of today's foremost medical illustrators. Content guided by expert anatomists and educators: R. Shane Tubbs, Paul E. Neumann, Jennifer K. Brueckner-Collins, Martha Johnson Gdowski, Virginia T. Lyons, Peter J. Ward, Todd M. Hoagland, Brion Benninger, and an international Advisory Board. Offers region-by-region coverage, including muscle table appendices at the end of each section and quick reference notes on structures with high clinical significance in common clinical scenarios.

dissection lab, sharing anatomy

Contains new illustrations by Dr. Machado including clinically important areas such as the pelvic cavity, temporal and infratemporal fossae, nasal turbinates, and more. Features new nerve tables devoted to the cranial nerves and the nerves of the cervical, brachial, and lumbosacral plexuses. Uses updated terminology based on the second edition of the international anatomic standard, Terminologia Anatomica, and includes common clinically used eponyms. Provides access to extensive digital content: every plate in the Atlas? and over 100 bonus plates including illustrations from previous editions?is enhanced with an interactive label guiz option and supplemented with "Plate Pearls" that provide quick key points and supplemental tools for learning, reviewing, and assessing your knowledge of the major themes of each plate. Tools include over 300 multiple choice questions, videos, 3D models, and links to related plates. Own your own personal copy of the world-famous Netter Atlas of Human Anatomy! This well-loved title, now in 8th edition, is available in multiple options. Choose the one best for you: • Netter Atlas of Human Anatomy: Classic

Regional Approach—described above • Netter Atlas of Human Anatomy: A Systems Approach—Same content as the classic regional approach, but organized by organ systems. • Netter Atlas of Human Anatomy: Classic Regional Approach with Latin terminology All options contain the same table information and same 550+ illustrated plates painted by clinician artists, Frank H. Netter, MD, and Carlos Machado, MD.

Experimental Methods in Biomechanics
Elsevier Health Sciences

The book reports on advanced topics in the areas of neurorehabilitation research and practice. It focuses on new methods for interfacing the human nervous system with electronic and mechatronic systems to restore or compensate impaired neural functions. Importantly, the book merges different perspectives, such as the clinical, neurophysiological, and bioengineering ones, to promote, feed and encourage collaborations between clinicians. neuroscientists and engineers. Based on the 2018 International Conference on Neurorehabilitation (ICNR 2018) held on October 16-20, 2018, in Pisa, Italy,, this book covers various aspects of

neurorehabilitation research and practice, including new insights into biomechanics, brain physiology, neuroplasticity, and brain damages and diseases, as well as innovative methods and technologies for studying and/or recovering brain function, from data mining to interface technologies and neuroprosthetics. In this way, it offers a concise, yet comprehensive reference guide to neurosurgeons, rehabilitation physicians, neurologists, and bioengineers. Moreover, by highlighting current challenges in understanding brain diseases as well as in the available technologies and their implementation, the book is also expected to foster new collaborations between the different groups, thus stimulating new ideas and research directions.

Neuro-motor control and feed-forward models of locomotion in humans Elsevier Health Sciences

Beautifully and lavishly illustrated, Atlas of Nerve Conduction Studies and Electromyography demystifies the major conditions affecting peripheral nerves and provides electrodiagnostic strategies for confirming suspected lesions of the peripheral nervous system. Building on the success of the landmark Atlas of Electromyography, this new text is divided into sections based on the major peripheral nerves. It contains detailed illustrations of each nerve along with a discussion of its anatomy, followed by a thorough outline of the clinical conditions and entrapment syndromes that affect the nerve, including a list of the etiologies, clinical features, and electrodiagnostic strategies used for each syndrome. Routine and special motor and sensory nerve conduction studies are shown in an anatomical illustration. In addition, each muscle supplied by the peripheral nerve is illustrated showing the root, plexus, and peripheral nerve supply to the muscle and is accompanied by a corresponding human photograph. Written text provides information about the nerve conduction studies, muscle origin, tendon insertion, voluntary activation maneuver, and the site of optimum needle insertion, which is identified in the figures by a black dot or a needle electrode. Atlas of Nerve Conduction Studies and Electromyography is the perfect anatomical guide for neurologists, specialists in physical medicine and rehabilitation, and

electrodiagnostic medicine consultants, while also providing support for individuals in residency training programs, critical care medicine, neurological surgery, and family practice.

Atlas of Human Anatomy, Professional Edition E-Book Elsevier Health Sciences This atlas serves as a comprehensive working reference for a wide range of clinicians practicing in the field of clinical neurophysiology, including adult and pediatric neurologists, epileptologists, neurocritical care specialists, and electroneurodiagnostic technologists. Covering EEG, EMG, MEG, evoked potentials, sleep and autonomic studies, and ICU, critical care, and intraoperative monitoring, expert authors share examples of common and novel artifacts and highlight signature features to help practitioners recognize patterns and make accurate distinctions. This visual compendium of information in atlas format addresses the artifact in all areas of clinical neurophysiology and highlights the traps and pitfalls that can taint studies and lead to misdiagnosis if not properly identified. Atlas of Artifacts in Clinical Neurophysiology provides full-page

examples of waveforms and recordings to enhance appreciation of the nuances involved in distinguishing artifacts from neurological findings that require intervention. With the most up-to-date information available on artifacts present during procedures in both adult and pediatric patients, this book provides readers with an in-depth understanding of artifact interpretation that is essential to any clinician working in the field of clinical neurophysiology given the ubiquitous nature of artifact during electrophysiological recording. Key Features: The only dedicated reference on artifacts in all areas of clinical neurophysiologic testing Large-format examples of both common and unusual artifacts encountered in each procedure category Up-to-date text in each chapter provides greater depth of explanation Draws on the expertise and clinical wisdom of leading practitioners to develop mastery in recognizing artifacts and avoiding diagnostic pitfalls Includes access to the digital ebook and 19 videos Volume II: Safety and Health, Slips, Trips and Falls John Wiley & Sons This multidisciplinary approach to the

shoulder covers introductory topics,

surgical solutions, rehabilitation and prevention, and electromyography of the

surface.

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