

Musculoskeletal Imaging Handbook A Guide For Primary Practitioners

Examination table

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An examination table (or exam table) is a piece of medical furniture used to support patients during physical assessments, minor procedures or imaging-guided interventions. During these exams, doctors in offices (UK: surgeries), clinics and hospitals use an adjusting mechanism to manipulate and position the table to allow patient support, closer examination of a portion or the entire patient, and the ability to move the patient on and off the table safely. Examination tables often have rolls of paper which the patient sits or lies on, to protect the table. The paper is normally discarded after each patient uses the table.

Although purpose-built couches for bloodletting existed in eighteenth-century Europe, the modern examination table emerged in the late nineteenth century after industrial...

Physical therapy

a tool to guide respiratory physiotherapy". Journal of Clinical Ultrasound. 48 (7): 431-434. doi:10.1002/jcu.22860. PMID 32497252. "Musculoskeletal Ultrasound

Physical therapy (PT), also known as physiotherapy, is a healthcare profession, as well as the care provided by physical therapists who promote, maintain, or restore health through patient education, physical intervention, disease prevention, and health promotion. Physical therapist is the term used for such professionals in the United States, and physiotherapist is the term used in many other countries.

The career has many specialties including musculoskeletal, orthopedics, cardiopulmonary, neurology, endocrinology, sports medicine, geriatrics, pediatrics, women's health, wound care and electromyography. PTs practice in many settings, both public and private.

In addition to clinical practice, other aspects of physical therapy practice include research, education, consultation, and health administration...

Ergonomics

and Musculoskeletal Disorders Office Ergonomics Information from European Agency for Safety and Health at Work Human Factors Standards & Handbooks from

Ergonomics, also known as human factors or human factors engineering (HFE), is the application of psychological and physiological principles to the engineering and design of products, processes, and systems. Primary goals of human factors engineering are to reduce human error, increase productivity and system availability, and enhance safety, health and comfort with a specific focus on the interaction between the human and equipment.

The field is a combination of numerous disciplines, such as psychology, sociology, engineering, biomechanics, industrial design, physiology, anthropometry, interaction design, visual design, user experience, and user interface design. Human factors research employs methods and approaches from these and other knowledge disciplines to study human behavior and generate...

Outline of medicine

Orthopaedics - branch of medicine that deals with conditions involving the musculoskeletal

system. *Otorhinolaryngology – branch of medicine that deals with the*

The following outline is provided as an overview of and topical guide to medicine:

Medicine – science of healing. It encompasses a variety of health care practices evolved to maintain health by the prevention and treatment of illness.

Spondylolisthesis

detail is needed, a physician may request advanced imaging. Magnetic resonance imaging is the preferred advanced imaging technique for evaluation of spondylolisthesis

Spondylolisthesis refers to a condition in which one spinal vertebra slips out of place compared to another. While some medical dictionaries define spondylolisthesis specifically as the forward or anterior displacement of a vertebra over the vertebra inferior to it (or the sacrum), it is often defined in medical textbooks as displacement in any direction.

Spondylolisthesis is graded based upon the degree of slippage of one vertebral body relative to the subsequent adjacent vertebral body. Spondylolisthesis is classified as one of the six major etiologies: degenerative, traumatic, dysplastic, isthmic, pathologic, or post-surgical. Spondylolisthesis most commonly occurs in the lumbar spine, primarily at the L5-S1 level, with the L5 vertebral body anteriorly translating over the S1 vertebral body...

Kinesiology

intervention for many movement disorders and musculoskeletal conditions due to the neuroplasticity of the brain and the adaptability of the musculoskeletal system

Kinesiology (from Ancient Greek κίνησις (kínēsis) 'movement' and -λογία -logía 'study of') is the scientific study of human body movement. Kinesiology addresses physiological, anatomical, biomechanical, pathological, neuropsychological principles and mechanisms of movement. Applications of kinesiology to human health include biomechanics and orthopedics; strength and conditioning; sport psychology; motor control; skill acquisition and motor learning; methods of rehabilitation, such as physical and occupational therapy; and sport and exercise physiology. Studies of human and animal motion include measures from motion tracking systems, electrophysiology of muscle and brain activity, various methods for monitoring physiological function, and other behavioral and cognitive research techniques...

Osteoarthritis

osteoarthritis. In the procedure for genicular RFA, a guide cannula is first directed under local anesthesia and imaging (ultrasound or fluoroscopy) to

Osteoarthritis is a type of degenerative joint disease that results from breakdown of joint cartilage and underlying bone. A form of arthritis, it is believed to be the fourth leading cause of disability in the world, affecting 1 in 7 adults in the United States alone. The most common symptoms are joint pain and stiffness. Usually the symptoms progress slowly over years. Other symptoms may include joint swelling, decreased range of motion, and, when the back is affected, weakness or numbness of the arms and legs. The most commonly involved joints are the two near the ends of the fingers and the joint at the base of the thumbs, the knee and hip joints, and the joints of the neck and lower back. The symptoms can interfere with work and normal daily activities. Unlike some other types of arthritis...

Traditional Chinese medicine

standards for TCM practitioners. All TCM practitioners in Hong Kong are required to register with the council. The eligibility for registration includes a recognised

Traditional Chinese medicine (TCM) is an alternative medical practice drawn from traditional medicine in China. A large share of its claims are pseudoscientific, with the majority of treatments having no robust evidence of effectiveness or logical mechanism of action. Some

TCM ingredients are known to be toxic and cause disease, including cancer.

Medicine in traditional China encompassed a range of sometimes competing health and healing practices, folk beliefs, literati theory and Confucian philosophy, herbal remedies, food, diet, exercise, medical specializations, and schools of thought. TCM as it exists today has been described as a largely 20th century invention. In the early twentieth century, Chinese cultural and political modernizers worked to eliminate traditional practices as backward...

Psychology

intended to train practitioners who could also conduct scientific research. The PsyD degree is more exclusively designed to train practitioners. Some clinical

Psychology is the scientific study of mind and behavior. Its subject matter includes the behavior of humans and nonhumans, both conscious and unconscious phenomena, and mental processes such as thoughts, feelings, and motives. Psychology is an academic discipline of immense scope, crossing the boundaries between the natural and social sciences. Biological psychologists seek an understanding of the emergent properties of brains, linking the discipline to neuroscience. As social scientists, psychologists aim to understand the behavior of individuals and groups.

A professional practitioner or researcher involved in the discipline is called a psychologist. Some psychologists can also be classified as behavioral or cognitive scientists. Some psychologists attempt to understand the role of mental...

Alternative medicine

western practitioners that were not part of the increasingly science-based medical establishment were referred to "irregular practitioners", and were

Alternative medicine refers to practices that aim to achieve the healing effects of conventional medicine, but that typically lack biological plausibility, testability, repeatability, or supporting evidence of effectiveness. Such practices are generally not part of evidence-based medicine. Unlike modern medicine, which employs the scientific method to test plausible therapies by way of responsible and ethical clinical trials, producing repeatable evidence of either effect or of no effect, alternative therapies reside outside of mainstream medicine and do not originate from using the scientific method, but instead rely on testimonials, anecdotes, religion, tradition, superstition, belief in supernatural "energies", pseudoscience, errors in reasoning, propaganda, fraud, or other unscientific...

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