

ASSESSING MUSCULOSKELETAL SYSTEM

MUSCULOSKELETAL ASSESSMENT

- a vital component of a comprehensive total body assessment
- The body's bones, muscles, and joints compose the musculoskeletal system
- the musculoskeletal system's overall purpose is to provide structure and movement for body parts

BONES

- provide structure, give protection, serve as levers, store calcium, and produce blood cells
- 206 bones – axial skeleton and appendicular skeleton
- Two types:
 - compact bone* - hard and dense and makes up the shaft and outer layers
 - spongy bone* - which contains numerous spaces and makes up the ends and centers of the bones
- formed by active cells called osteoblasts and broken down by cells referred to as osteoclasts
- contain red marrow that produces blood cells and yellow marrow composed mostly of fat

SKELETAL MUSCLES

- types of muscles: skeletal, smooth, and cardiac
- 650 skeletal (voluntary) muscles - under conscious control
- made up of long muscle fibers (fasciculi) that are arranged together in bundles and joined by connective tissue, skeletal muscles attach to bones by way of strong, fibrous cords called tendons.
- assist with posture, produce body heat, and allow the body to move.

JOINTS

- where two or more bones meet
- provide a variety of ranges of motion (ROM) for the body parts and may be classified as fibrous, cartilaginous, or synovial

SKELETAL MOVEMENTS



- abduction: moving away from midline of the body
- adduction: moving toward the midline of the body

PHYSICAL EXAMINATION

- circumduction: circular motion
- inversion: moving inward
- eversion: moving outward
- extension: straightening the extremity at the joint and increasing the angle of the joint
- hyperextension: joint bends greater than 180 degrees
- flexion: bending the extremity at the joint and decreasing the angle of the joint
- dorsiflexion: toes draw upward to ankle
- plantar flexion: toes point away from ankle
- pronation: turning or facing downward
- supination: turning or facing upward
- protraction: moving forward
- retraction: moving backward
- rotation: turning of a bone on its own long axis
- internal rotation: turning of a bone toward the center of the body
- external rotation: turning of a bone away from the center of the body

Collecting Subjective Data: The Nursing Health History

- helps to evaluate the client's level of functioning with activities of daily living
- information regarding the client's nutrition, activities, and exercise is a significant part of the musculoskeletal assessment
- the nurse needs to remember to investigate signs and symptoms reported by the client
- the nurse can learn the client's daily activity and exercise patterns that promote either healthy or unhealthy functioning of the musculoskeletal system

Collecting Objective Data: Physical Examination

- provides data regarding the client's posture, gait, bone structure, muscle strength, and joint mobility, as well as the client's ability to perform activities of daily living
- includes inspecting and palpating the joints, muscles, and bones, testing ROM, and assessing muscle strength

Saunders Visual Guide To Musculoskeletal Assessment Comprehensive Video Presentations

Rose Arny



Saunders Visual Guide To Musculoskeletal Assessment Comprehensive Video Presentations:

Saunders's Visual Guide to Musculoskeletal Assessment Richard E. Baxter, 2004-01 This new CD ROM presents 75 minutes of video clips of every special test found in *Pocket Guide to Musculoskeletal Assessment* 2nd Edition including clear voice over descriptions of each test and why it should be performed It also includes hot links and other searching functions that correlate the video presentations to the book content *National Library of Medicine Audiovisuals Catalog* National Library of Medicine (U.S.), 1989 *The Software Encyclopedia*, 1988 *Subject Guide to Books in Print*, 1991 *Forthcoming Books* Rose Army, 1998 **Medical and Health Care Books and Serials in Print**, 1997 *Books in Print Supplement*, 2002 *Orthopedic Physical Assessment* David J. Magee, BPT, PhD, CM, 2013-12-04 Newly updated this full color text offers a rich array of features to help you develop your musculoskeletal assessment skills *Orthopedic Physical Assessment* 6th Edition provides rationales for various aspects of assessment and covers every joint of the body as well as specific topics including principles of assessment gait posture the head and face the amputee primary care and emergency sports assessment Artwork and photos with detailed descriptions of assessments clearly demonstrate assessment methods tests and causes of pathology The text also comes with an array of online learning tools including video clips demonstrating assessment tests assessment forms and more Thorough evidence based review of orthopedic physical assessment covers everything from basic science through clinical applications and special tests 2 400 illustrations include full color clinical photographs and drawings as well as radiographs depicting key concepts along with assessment techniques and special tests The use of icons to show the clinical utility of special tests supplemented by evidence based reliability validity tables for tests techniques on the Evolve site The latest research and most current practices keep you up to date on accepted practices Evidence based reliability and validity tables for tests and techniques on the EVOLVE site provide information on the diagnostic strength of each test and help you in selecting proven assessment tests A Summary Pr cis of Assessment at the end of each chapter serves as a quick review of assessment steps for the structure or joint being assessed Quick reference data includes hundreds of at a glance summary boxes red flag and yellow flag boxes differential diagnosis tables muscle and nerve tables and classification normal values and grading tables Case studies use real world scenarios to help you develop assessment and diagnostic skills Combined with other books in the *Musculoskeletal Rehabilitation* series *Pathology and Intervention* *Scientific Foundations* and *Principles of Practice* and *Athletic and Sport Issues* this book provides the clinician with the knowledge and background necessary to assess and treat musculoskeletal conditions NEW Online resources include video clips assessment forms text references with links to MEDLINE abstracts and more NEW Video clips demonstrate selected movements and the performance of tests used in musculoskeletal assessment NEW Text references linked to MEDLINE abstracts provide easy access to abstracts of journal articles for further review NEW Forms from the text with printable patient assessment forms can be downloaded for ease of use NEW Updated information in all chapters includes

new photos line drawings boxes and tables NEW The use of icons to show the clinical utility of special tests supplemented by evidence based reliability validity tables for tests techniques on the Evolve site *Pocket Guide to Musculoskeletal Assessment* Richard E. Baxter,2003 Providing a handy framework for conducting efficient and organized patient assessments the second edition of this practical guide includes even more special tests treatment options and resources to help readers perform thorough and efficient musculoskeletal assessments of patients Its small size and lay flat spiral binding make it easy to refer to during actual patient treatment and graduated tabs marking the location of each chapter and appendix make it convenient to find information quickly Organized in an outline format each of the 15 chapters includes an overview of subjective and objective examination topics for a specific body region or system followed by a quick reference table of special tests and treatment options A mini CD offers 35 video clips of common tests A web launcher provides easy access to every special test discussed in the book **The Netter Collection of Medical Illustrations- Musculoskeletal System**

Package Joseph P. Iannotti,Richard Parker,2013-04-15 The Netter Collection of Medical Illustrations Musculoskeletal System 2nd Editionprovides a highly visual guide to this body system from basic science and anatomy to orthopaedics and rheumatology These three spectacularly illustrated volumes in the masterwork known as the CIBA Green Books have been expanded and revised by Dr Joseph Iannotti Dr Richard Parker and other experts from the Cleveland Clinic to mirror the many exciting advances in musculoskeletal medicine and imaging offeringrich insights into musculoskeletal anatomy physiology and clinical conditions Get complete integrated visual guidance on the entire musculoskeletal system with thorough richly illustrated volumes onThe Upper Limb The Lower Limb and Spine and Basic Science and Systemic Disease Quickly understand complex topics thanks to a concise text atlas format that provides a context bridge between primary and specialized medicine Clearly visualize how core concepts of anatomy physiology and other basic sciences correlate across disciplines Benefit from matchless Netter illustrations that offer precision clarity detail and realism as they provide a visual approach to the clinical presentation and care of the patient Gain a rich clinical view of all aspects of the musculoskeletal system in three comprehensive volumes conveyed through beautiful illustrations as well as up to date radiologic and laparoscopic images Benefit from the expertise of Drs Joseph Iannotti Richard Parker and esteemed colleagues from the Cleveland Clinic who clarify and expand on the illustrated concepts Clearly see the connection between basic science and clinical practice with an integrated overview of normal structure and function as it relates to pathologic conditions See current clinical concepts in orthopaedics and rheumatology captured in classic Netter illustrations as well as new illustrations created specifically for these volumes by artist physician Carlos Machado MD and others working in the Netter style **Musculoskeletal Examination** Jeffrey M. Gross,Joseph Fetto,Elaine Rosen,2015-04-02 Musculoskeletal Examination is a user friendly textbook on the techniques of physical examination Written by a physiatrist orthopedic surgeon and physical therapist it has a uniquely multidisciplinary approach Musculoskeletal Examination covers the complete

basic examination and basic principles of normal and abnormal musculoskeletal function are fully explained leading you to the correct differential diagnosis The new fourth edition is now in full colour throughout and includes over 750 detailed illustrations X rays and MRIs and more than 100 photographs showing examination techniques It also includes a companion website at www.wiley.com/go/musculoskeletalexam featuring 107 MCQs and links to videos demonstrating key examination methods Musculoskeletal Examination is perfect as a quick reference guide while the detailed descriptions and clinically relevant examples of frequently encountered conditions will help even the most novice practitioner gain the understanding necessary to make a correct diagnosis and determine a successful treatment plan It is ideal for physical therapists physiatrists orthopedists medical students practitioners and all those involved in sports medicine and clinical massage

Quantitative assessment of musculoskeletal conditions in standard clinical care Theodore Pincus,2009

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Special tests in musculoskeletal examination : an evidence-based guide for clinicians Paul M. Hattam,2010 *The Netter Collection of Medical Illustrations: Musculoskeletal System, Volume 6, Part II - Spine and Lower Limb E-Book* Joseph P Iannotti,Richard Parker,2012-10-11 The Lower Limb and Spine Part 2 of The Netter Collection of Medical Illustrations Musculoskeletal System 2nd Edition provides a highly visual guide to the spine and lower extremity from basic science and anatomy to orthopaedics and rheumatology This spectacularly illustrated volume in the masterwork known as the CIBA Green Books has been expanded and revised by Dr Joseph Iannotti Dr Richard Parker and other experts from the Cleveland Clinic to mirror the many exciting advances in musculoskeletal medicine and imaging offering rich insights into the anatomy physiology and clinical conditions of the spine pelvis hip and thigh knee lower leg and ankle and foot Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Get complete integrated visual guidance on the lower extremity and spine with thorough richly illustrated coverage Quickly understand complex topics thanks to a concise text atlas format that provides a context bridge between primary and specialized medicine Clearly visualize how core concepts of anatomy physiology and other basic sciences correlate across disciplines Benefit from matchless Netter illustrations that offer precision clarity detail and realism as they provide a visual approach to the clinical

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