

hawkins kennedy test ankle

hawkins kennedy test ankle is a clinical diagnostic maneuver primarily used to assess impingement or injury around the ankle joint, especially involving the tendons and ligaments. Although the Hawkins-Kennedy test is traditionally associated with shoulder impingement, adaptations and similar principles are applied in ankle examinations to detect conditions such as anterior ankle impingement syndrome or soft tissue entrapment. Understanding the test's purpose, technique, interpretation, and clinical relevance is crucial for healthcare professionals involved in musculoskeletal diagnosis and sports medicine. This article explores the hawkins kennedy test ankle in detail, describing its methodology, diagnostic value, indications, and limitations. A comprehensive overview also includes related clinical tests, anatomical considerations, and potential treatment implications based on the test outcomes.

- Understanding the Hawkins Kennedy Test Ankle
- Technique and Procedure of the Hawkins Kennedy Test Ankle
- Clinical Indications and Diagnostic Value
- Interpretation and Positive Test Findings
- Limitations and Considerations
- Related Ankle Diagnostic Tests
- Clinical Relevance and Treatment Implications

Understanding the Hawkins Kennedy Test Ankle

The hawkins kennedy test ankle is an adapted clinical test used to evaluate impingement syndromes or soft tissue irritation around the ankle. While originally designed for the shoulder to assess rotator cuff impingement, clinicians have modified the test principles to assess similar mechanical compressions in the ankle joint. This test targets structures such as the anterior talofibular ligament, tibialis anterior tendon, and other soft tissues that may be compressed during specific ankle movements.

Its purpose is to reproduce pain or symptoms by positioning the ankle in a way that compresses these tissues, indicating possible inflammation, tendinopathy, or impingement. The test is particularly useful for patients presenting with chronic anterior ankle pain, instability, or a history of repetitive ankle injuries.

Anatomical Basis of the Test

The ankle joint complex consists of bones, ligaments, tendons, and synovial structures vulnerable to impingement. The anterior ankle region contains critical structures including the anterior talofibular

ligament and extensor tendons. When these tissues are compressed between the tibia and talus during forced dorsiflexion and internal rotation, it can provoke pain. The hawkins kennedy test ankle leverages this biomechanical principle to identify pathological conditions.

Historical Context and Adaptation

The original Hawkins-Kennedy test was described for shoulder assessment in 1980. Its adaptation to the ankle allows clinicians to apply a similar provocative maneuver to detect soft tissue impingement. This evolution reflects the growing understanding of ankle biomechanics and the need for precise clinical diagnostic tools in ankle injury management.

Technique and Procedure of the Hawkins Kennedy Test Ankle

Performing the hawkins kennedy test ankle requires a systematic approach to accurately reproduce symptoms and assess ankle impingement. The procedure involves positioning the patient and manipulating the ankle joint to compress the target structures.

Patient Positioning

The patient should be seated or lying supine with the knee flexed at 90 degrees to allow free movement of the ankle. This position stabilizes the lower leg while permitting controlled ankle motions necessary for the test.

Test Maneuver

The examiner stabilizes the lower leg with one hand while the other hand grasps the foot. The ankle is placed in forced dorsiflexion combined with internal rotation. This maneuver compresses the anterior ankle structures beneath the tibia and talus.

Observations During the Test

The examiner notes any reproduction of pain, discomfort, or restricted range of motion during the maneuver. A positive test typically elicits anterior ankle pain similar to the patient's presenting symptoms, indicating possible impingement or soft tissue irritation.

Clinical Indications and Diagnostic Value

The hawkins kennedy test ankle is primarily indicated in patients with anterior ankle pain, chronic ankle instability, or suspected anterior impingement syndromes. It is an important tool in the clinical examination to help differentiate among various ankle pathologies.

Conditions Commonly Evaluated

- Anterior ankle impingement syndrome
- Tendinopathies of the anterior ankle tendons
- Ligamentous injuries, particularly of the anterior talofibular ligament
- Osteochondral lesions or bone spurs causing mechanical block

Complementary Diagnostic Tools

The hawkins kennedy test ankle is often used alongside imaging modalities such as MRI or ultrasound to confirm soft tissue involvement. Its clinical value lies in initial screening and guiding further diagnostic evaluation.

Interpretation and Positive Test Findings

Correct interpretation of the hawkins kennedy test ankle requires correlating test results with patient history and other examination findings. A positive test suggests mechanical compression or irritation of anterior ankle structures.

Signs of a Positive Test

- Reproduction of anterior ankle pain during forced dorsiflexion and internal rotation
- Limited ankle range of motion due to discomfort
- Possible clicking or mechanical symptoms reported by the patient

Diagnostic Implications

A positive hawkins kennedy test ankle indicates that impingement or soft tissue pathology is likely contributing to the patient's symptoms. This finding supports further targeted interventions such as physical therapy, anti-inflammatory treatment, or imaging studies.

Limitations and Considerations

While the hawkins kennedy test ankle is a valuable clinical tool, it has inherent limitations. It should

be interpreted within the broader clinical context and in combination with other diagnostic methods.

Potential False Positives and Negatives

Factors such as patient pain tolerance, joint stiffness, or unrelated ankle pathology may influence test results. False positives can occur in cases of generalized ankle inflammation, while false negatives may arise if the impingement is mild or the maneuver is not performed correctly.

Technique Sensitivity

Accurate execution requires clinician expertise to apply the correct degree of dorsiflexion and internal rotation. Improper technique may lead to inconclusive or misleading results.

Related Ankle Diagnostic Tests

Several other clinical tests complement the hawkins kennedy test ankle in evaluating ankle pathology. These tests help create a comprehensive assessment of ankle function and injury.

Anterior Drawer Test

This test assesses the integrity of the anterior talofibular ligament by evaluating anterior translation of the talus relative to the tibia. It is useful in diagnosing ankle instability.

Talar Tilt Test

The talar tilt test evaluates the lateral ankle ligaments by applying inversion stress. It helps detect ligamentous laxity contributing to ankle instability.

Forced Dorsiflexion Test

This maneuver involves forcefully dorsiflexing the ankle to reproduce pain associated with anterior impingement. It is similar in objective to the hawkins kennedy test ankle but differs slightly in technique.

Clinical Relevance and Treatment Implications

The hawkins kennedy test ankle provides valuable information that guides clinical decision-making and treatment planning for patients with anterior ankle complaints. Its results influence both conservative and surgical management strategies.

Conservative Management

- Physical therapy focusing on ankle mobility and strengthening
- Anti-inflammatory medications and activity modification
- Use of orthotic devices to reduce mechanical stress

Surgical Considerations

When conservative treatments fail and a positive hawkins kennedy test ankle persists alongside imaging-confirmed impingement, surgical intervention may be warranted. Procedures typically aim to remove bone spurs or release entrapped soft tissue.

Monitoring and Follow-Up

Repeat clinical assessments including the hawkins kennedy test ankle help monitor patient progress and treatment efficacy. Adjustments to rehabilitation protocols are guided by ongoing symptom evaluation.

Frequently Asked Questions

What is the Hawkins-Kennedy test used for?

The Hawkins-Kennedy test is used to identify shoulder impingement, particularly involving the supraspinatus tendon.

Is the Hawkins-Kennedy test applicable for ankle assessments?

No, the Hawkins-Kennedy test is specifically designed for shoulder impingement and is not used for ankle assessments.

What does a positive Hawkins-Kennedy test indicate?

A positive Hawkins-Kennedy test indicates possible impingement of the rotator cuff tendons, especially the supraspinatus tendon, in the shoulder.

How is the Hawkins-Kennedy test performed?

The test is performed by flexing the patient's shoulder and elbow to 90 degrees, then forcibly internally rotating the shoulder to elicit pain.

Can the Hawkins-Kennedy test cause ankle pain?

No, since the Hawkins-Kennedy test targets the shoulder joint, it does not cause or diagnose ankle pain.

Are there any similar tests for ankle impingement?

Yes, tests like the anterior impingement test or the impingement sign are used to assess ankle impingement.

What are common symptoms that the Hawkins-Kennedy test helps diagnose?

The test helps diagnose symptoms like shoulder pain during overhead activities and pain localized to the front or side of the shoulder.

Why might someone confuse the Hawkins-Kennedy test with an ankle test?

The confusion may arise from miscommunication or misunderstanding of orthopedic tests, but the Hawkins-Kennedy test is strictly for the shoulder.

Can the Hawkins-Kennedy test be self-administered for diagnosis?

No, it should be performed by a trained healthcare professional to ensure accurate diagnosis and avoid injury.

What should I do if I experience ankle pain after a Hawkins-Kennedy test?

Ankle pain after the test is likely unrelated; consult a healthcare professional to evaluate your ankle separately.

Additional Resources

1. Understanding the Hawkins-Kennedy Test: Diagnosing Shoulder Impingement

This book offers a detailed exploration of the Hawkins-Kennedy test, focusing on its role in diagnosing shoulder impingement syndrome. It covers the anatomical basis of the test, step-by-step procedures, and interpretation of results. Clinicians will find practical tips to improve diagnostic accuracy and patient outcomes.

2. Clinical Orthopedic Assessment: Hawkins-Kennedy and Beyond

A comprehensive guide to orthopedic physical examination techniques, this book highlights the Hawkins-Kennedy test among other essential assessments. It provides insights into when and how to use the test effectively, supported by clinical cases and illustrations. The text is ideal for medical

students, physical therapists, and orthopedic practitioners.

3. Sports Injuries and the Hawkins-Kennedy Test

Focusing on sports medicine, this book discusses the application of the Hawkins-Kennedy test in evaluating athletes with shoulder pain. It explains common sports-related shoulder injuries and how the test helps differentiate impingement from other conditions. Rehabilitation protocols following diagnosis are also included.

4. Physical Therapy Techniques for Shoulder Impingement

This practical manual addresses assessment and treatment strategies for shoulder impingement, emphasizing the Hawkins-Kennedy test as a diagnostic tool. It guides therapists through evaluation, manual therapy, and exercise programming to restore function and reduce pain. Case studies illustrate real-world application.

5. Musculoskeletal Examination: A Focus on the Hawkins-Kennedy Test

Designed for healthcare professionals, this book provides an in-depth review of musculoskeletal exams with a spotlight on the Hawkins-Kennedy test. It explains the biomechanics involved and how to differentiate positive test findings from other shoulder pathologies. The book includes videos and photos to enhance learning.

6. Diagnostic Accuracy of the Hawkins-Kennedy Test in Ankle and Shoulder Assessments

While primarily known for shoulder evaluation, this text explores the controversial and emerging use of the Hawkins-Kennedy test in ankle assessments. It reviews recent research studies, compares diagnostic methods, and discusses clinical implications for practitioners assessing both joints.

7. Orthopedic Special Tests: Hawkins-Kennedy and Related Techniques

This reference book catalogs various orthopedic special tests with detailed descriptions, including the Hawkins-Kennedy test. It covers indications, contraindications, and test performance tips. The book is an essential resource for students and clinicians seeking to master physical examination skills.

8. Rehabilitation Protocols Following Positive Hawkins-Kennedy Test Results

Targeting rehabilitation specialists, this book outlines treatment pathways after a positive Hawkins-Kennedy test indicating shoulder impingement. It reviews evidence-based exercise regimens, manual therapies, and patient education strategies. Emphasis is placed on individualized care plans to optimize recovery.

9. Innovations in Shoulder Diagnostics: The Role of the Hawkins-Kennedy Test

This forward-looking book examines technological advancements and novel approaches in shoulder diagnostics, highlighting how the Hawkins-Kennedy test remains relevant. It discusses integration with imaging modalities and digital assessment tools, offering a future perspective for clinicians and researchers.

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hawkins kennedy test ankle: Examination of Musculoskeletal Injuries Sandra J. Shultz, Peggy A. Houglum, David H. Perrin, 2015-11-10 *Examination of Musculoskeletal Injuries*, Fourth Edition With Web Resource, guides current and future athletic trainers and rehabilitation professionals through the examination and evaluation of musculoskeletal injuries both on and off the field. The text presents injury examination strategies in on-site, acute, and clinical settings and provides the information on mastering the skills needed for the Board of Certification examination for athletic trainers as determined by the sixth edition of Athletic Training Role Delineation Study/Practice Analysis for entry-level athletic trainers. This updated fourth edition contains foundational information on a wide spectrum of injuries and the appropriate tests for examining and diagnosing them. Readers will learn to obtain an accurate injury history from the patient, inspect the injury and related areas, test motion control, palpate both bone and soft tissues, and examine function in order to gauge the player's readiness to return to play. The fourth edition also includes the following enhancements: • A new online video library contains more than 51 short video clips that correspond to and demonstrate evaluation techniques for various musculoskeletal disorders found throughout the text. • Full-color photos and medical artwork have been added throughout the text to clarify testing techniques and enhance knowledge of relevant body structures. • Substantial updates provide the most recent evidence-based clinical information. • An expanded selection of special tests and injury-specific examinations are now presented in a more accessible format and include a photo or video, description of the purpose, patient and clinician positions for the test, procedures performed, and possible outcomes. The content of *Examination of Musculoskeletal Injuries*, Fourth Edition With Web Resource, has been restructured and focused to provide applicable information in a straightforward manner. Part I is aimed at entry-level students and presents general and introductory skills for each component of injury examination, including basic terminology and a breakdown of the examination procedure. Each component is then explored in depth along with general purposes and techniques. Part I ends by incorporating the various components into a systematic strategy for examination based on severity of injury and environment. Part II then applies the principles learned in the previous chapters to the recognition and examination of injuries organized by specific regions of the body. Each chapter includes strategies for examination immediately after an injury as well as examinations seen later in a clinical setting. To assist student comprehension and knowledge retention, key terms are in boldface throughout the text and are defined in the glossary. Symbols throughout the text alert students to essential procedures and highlight important information. The web resource houses printable tables of special tests, examination checklists and forms that students can use in laboratory work and review sessions, and a robust video library. To aid instructors, the text includes a suite of ancillary materials featuring a test package, instructor guide, and presentation package plus image bank. *Examination of Musculoskeletal Injuries*, Fourth Edition With Web Resource, is an essential resource for students of athletic training and therapy as well as current practitioners in the field who wish to use evidence-based procedures in their clinical practice to ensure safe and accurate diagnoses of injuries.

hawkins kennedy test ankle: The Muscle and Bone Palpation Manual with Trigger Points, Referral Patterns and Stretching - E-Book Joseph E. Muscolino, 2022-03-25 Build the clinical

reasoning and clinical judgment skills you need for effective muscle palpation! The Muscle and Bone Palpation Manual with Trigger Points, Referral Patterns, and Stretching, 3rd Edition provides an in-depth guide to the art and science of palpation, along with clear instructions for massage assessment and treatment techniques. It describes how to palpate, how to stretch, and how to utilize trigger points, preparing you for practice with coverage of ligaments, all major massage strokes and draping methods, and a thorough chapter on body mechanics. Written by noted lecturer and educator Joseph Muscolino, this text includes access to an Evolve website with more than four hours of video demonstrating muscle palpations. - Step-by-step muscle palpation coverage makes it easy to understand and remember each step of palpation techniques. - UNIQUE! Coverage of stretching describes the role of stretching as part of effective treatment, with drawings of self-care stretches presented alongside therapist-assisted stretches. - General muscle information includes attachments, actions, and a drawing of the individual muscle. - Full-color photos and illustrations show palpation of muscles, exactly how the muscles look, and where the muscle is located underneath the skin as it is being palpated. - Illustrations of trigger points and referral patterns make it easier to identify locations, showing where trigger points lie on the muscle and where pain radiates when an injury is felt. - Coverage of bone palpation teaches you to identify and palpate bones and bony landmarks. - Assessment and massage treatment strokes are shown in illustrations and in the Palpation Notes, moving you from theory and assessment to practical application. - Case studies in each chapter emphasize critical thinking and clinical reasoning, allowing you to apply your knowledge to the practice setting. - Deeper Thoughts questions challenge your reasoning skills. - Measurable objectives at the start of each chapter identify key goals and are accompanied by a chapter overview, outline, and key terms. - NEW and UNIQUE! Chapter on orthopedic assessment is added to this edition. - NEW video lessons on the Evolve website feature Dr. Joe demonstrating bone and muscle palpation protocols.

hawkins kennedy test ankle: *Handbook of Special Tests in Musculoskeletal Examination* E-Book Paul Hattam, Alison Smeatham, 2020-05-13 Despite growing reliance on imaging, clinical examination remains the bedrock of diagnosis of the musculoskeletal patient. Special tests have widespread utility particularly in sport and can often help to elucidate a patient's presentation where the lesion is subtle and otherwise difficult to detect and, in turn, guide management and treatment. *Special Tests in Musculoskeletal Examination* 2nd Edition is a pocketbook guide to over 100 peripheral tests. It includes: - a fully illustrated step-by-step guide to each test giving clinicians all the information they need at their fingertips. - a focussed review of the latest evidence and how this applies to practice. - use of clinical tips and expert opinion to allow clinicians to select the most appropriate test and interpret the results meaningfully. - Full review of the evidence integrated into the entire text. - New clinical context section at the start of each section making it easy to find and providing advanced background knowledge to extend the readers knowledge. - Brand new colour photography to show each test clearly throughout. - Additional tests included allowing readers to extend their knowledge and understanding.

hawkins kennedy test ankle: Special Tests for Orthopedic Examination Jeff G. Konin, Denise Lebsack, Alison Valier, Jerome A. Isear, Jr., 2024-06-01 First published more than 20 years ago, *Special Tests for Orthopedic Examination*, now in its Fourth Edition, continues to follow the authors' initial goals of providing a simple, pocket-sized manual for practical learning purposes. The Fourth Edition provides critical and invaluable information on the most current and practical special tests used during an orthopedic examination. The efficient user-friendly, spiral-bound format allows for easy access to individualized special tests. *Special Tests for Orthopedic Examination*, Fourth Edition includes 160 special tests, 6 of which are new: Ballottement Test Gerber's Test (Lift-Off Test) Painful Arc Sign Thessaly Test Quad Active Test Lelli Test for Anterior Cruciate Ligament (ACL) Injuries Inside *Special Tests for Orthopedic Examination* Fourth Edition, Jeff G. Konin, Denise Lebsack, Alison R. Snyder Valier, and Jerome A. Isear, Jr. have included a new section on evidence, where the authors have highlighted systematic reviews, meta-analyses, or single articles to address reliability, sensitivity, and specificity of the special tests, where available. What is new and updated

in the Fourth Edition: Includes a video website that provides visually enhanced dimensional and motion analysis of each special test performed Includes 160 special tests, 6 of which are new to this edition Includes information on reliability, sensitivity, and specificity presented in a table format New evidence section highlight systematic reviews, meta-analyses, or single articles for special tests, where available New color images for each test Updated references for all tests Bonus Material! Special Tests for Orthopedic Examination, Fourth Edition includes a video website with each new book purchase. This video website offers a unique approach that provides a visually enhanced dimensional and motion analysis of each special test performed. The video segments will help students and clinicians better understand the test motion in order to perform the test accurately during an orthopedic examination. The simple yet succinct information provided throughout the manual and on the video website will help clinicians make informed decisions during an orthopedic examination, from understanding to performing and evaluating the special tests. Special Tests for Orthopedic Examination, Fourth Edition will carry on the tradition of past editions as being the premier resource for thousands of students, clinicians, and rehabilitation professionals.

hawkins kennedy test ankle: Clinical Prediction Rules Paul Glynn, Cody Weisbach, 2011 Clinical Prediction Rules: A Physical Therapy Reference Manual, is intended to be used for multiple musculoskeletal courses. It includes musculoskeletal clinical prediction rules organized by region, thus allowing for its repeated use during the upper and lower quarter as well as in the students spine coursework. Additionally this manual includes multiple medical screening prediction rules, making it appropriate for differential diagnosis and diagnostic imaging coursework. Perfect for entry-level physical therapy programs, this text is also suitable for post-professional physical therapy programs, especially those that include an orthopaedic residency or manual therapy fellowship program, and as a reference manual for students going out on their clinical rotations.

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videos Includes abundant instructor resources

hawkins kennedy test ankle: Maitland's Peripheral Manipulation Elly Hengeveld, Kevin Banks, 2013-08-27 The legacy of Geoff Maitland and his seminal work, *Peripheral Manipulation*, continues in this fifth edition, with Elly Hengeveld and Kevin Banks leading an international team of experts who demonstrate how to manage peripheral neuromusculoskeletal disorders using the principles and practice of the Maitland Concept. Together, they ensure the heart of the Concept beats on by promoting collaborative decision-making with the patient at centre and emphasizing the art and science of observation, listening, palpation and movement skills. A key feature of the new edition focuses on a more evidence-based and analytical view of the role of mobilization and manipulation in clinical practice. The authors have written in a way that reflects their application of the Maitland Concept and how they have integrated techniques in the light of advancement in professional knowledge. Each chapter stands alone as a 'master class'. The text is systematically arranged focusing on detailed assessment, clinical reasoning and re-assessment to determine the physical dysfunction and efficacy of manipulative physiotherapy techniques, while also advocating continuous communication and interaction. Techniques of passive mobilization are also described, specifically designed around the individual patient's condition. All the chapters are written from a clinical perspective and review the evidence which informs how to deal with and manage peripheral joint pain as they present to the practitioner. Furthermore, each peripheral region (craniomandibular, upper limbs and lower limbs) is considered from the point of view of best practice in analysing and hypothesising subjective data, examination, treatment and management of peripheral pain conditions. Brand new to the fifth edition is the addition of a companion website - Maitland's Manipulation eResources (www.maitlandsresources.com) - providing access to a range of valuable learning materials which include videos, MCQs, interactive case studies, research links, and bonus chapters. - World-leading experts provide evidence relating the Maitland Concept to clinical practice - Evidence supporting practice - Covers both subjective and physical examination - Best practice management using mobilization and manipulation - Case studies - how and when to integrate the Maitland Concept into clinical practice - Chapter-based learning outcomes, keywords and glossaries - Companion website - Maitland's Manipulation eResources (www.maitlandsresources.com) - Expert perspectives and supporting evidence - Case studies - Companion website - www.maitlandsresources.com - containing: - Video Bank of over 480 video clips showing examination and treatment techniques - Image Bank of over 1,000 illustrations - Interactive case studies - Over 200 MCQs - Bonus chapters on additional principles and techniques of examination / treatment - Weblink references to abstracts

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hawkins kennedy test ankle: Orthopedic Clinical Examination Michael P. Reiman, 2016-01-28 *Orthopedic Clinical Examination With Web Resource* provides readers with fundamental knowledge for developing proficiency at performing systematic orthopedic evaluations. Michael P. Reiman, who is internationally respected for his teaching, clinical practice, and research focused on orthopedic assessment and treatment methods, presents an evidence-based guide on the examination process for various parts of the body. The text takes a structured approach, moving from broad to focused, that guides clinicians in examining each client and condition. The text presents specific components of the examination in the same sequence, ensuring repetition and improved consistency in learning.

Screenings are used early in the examination sequence not only to determine the appropriateness of performing an orthopedic examination but also to rule out other potential pain generators and thereby narrow the focus of the examination. Orthopedic Clinical Examination emphasizes evidence-based practice and therefore focuses on tests that are clinically relevant, providing students and clinicians with the most appropriate testing options rather than listing tests with no regard for their clinical value. Both treatment-based and pathological-based diagnostic styles are covered in detail so that readers will gain a thorough understanding of both approaches and be able to implement them separately or in tandem. In addition to musculoskeletal testing, the text provides information on including subjective history, observation, diagnostic imaging, systems and neurological screening, and performance-based measures in each examination. The text is organized into five parts and is structured such that readers will first acquire requisite knowledge about anatomy and the examination process before advancing to acquiring specific examination skills. Part I presents information about the musculoskeletal and nervous systems as well as tissue behavior and healing. Part II introduces the principles of the examination sequence. Parts III and IV present the region-specific examination sequence for evaluating clients, including specifics on analyzing the head, spine, and extremities. Each chapter in these two parts covers the anatomy of the region, various types of injuries that occur, specific tests and measures that can be used, and cross-references to specific case studies for further review. Part V highlights additional considerations that may be necessary for special populations during the examination process. Orthopedic Clinical Examination includes learning tools that enhance comprehension and engagement:

- Full-color photographs and illustrations demonstrate anatomy, patient conditions, and clinician positioning to serve as a visual reference and ensure proper testing techniques.
- A library of 50 videos, found in the web resource, provides students with visual demonstrations of assessments and treatments.
- Color-coding graphics throughout chapters help readers quickly discern whether evidence supporting the reported finding is ideal, good, or less than good.
- Overviews of common orthopedic conditions for each body region are in the 12 applied chapters.
- Twenty-four case studies guide users in the proper questions to ask and steps to take in conducting examinations.
- Links to abstracts of articles provide additional clinical learning scenarios. For instructors, an image bank, test package, and instructor guide with activities aid in teaching and testing students. The web resource and ancillaries are available at www.HumanKinetics.com/OrthopedicClinicalExamination. With Orthopedic Clinical Examination, current and future clinicians will gain the knowledge and confidence they need in performing examinations and making diagnoses in clinical settings.

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