

CRITICALLY APPRAISED TOPIC ATHLETIC TRAINING

CRITICALLY APPRAISED TOPIC ATHLETIC TRAINING IS AN ESSENTIAL PROCESS IN SPORTS HEALTHCARE, PROVIDING ATHLETIC TRAINERS WITH EVIDENCE-BASED ANSWERS TO CLINICAL QUESTIONS. THIS ARTICLE EXPLORES THE CONCEPT OF CRITICALLY APPRAISED TOPICS (CATs) WITHIN ATHLETIC TRAINING, DETAILING THEIR PURPOSE, METHODOLOGY, AND IMPACT ON CLINICAL DECISION-MAKING. READERS WILL DISCOVER THE STEP-BY-STEP PROCESS OF DEVELOPING A CAT, ITS ROLE IN IMPROVING PATIENT OUTCOMES, AND PRACTICAL EXAMPLES RELEVANT TO ATHLETIC TRAINING. WE WILL DISCUSS THE ADVANTAGES OF INTEGRATING CRITICALLY APPRAISED TOPICS INTO PRACTICE, ADDRESS CHALLENGES, AND OFFER STRATEGIES FOR EFFECTIVE IMPLEMENTATION. THIS COMPREHENSIVE GUIDE OFFERS VALUABLE INSIGHTS FOR ATHLETIC TRAINERS, CLINICIANS, AND STUDENTS SEEKING TO ENHANCE THEIR KNOWLEDGE AND PROVIDE OPTIMAL CARE THROUGH EVIDENCE-BASED APPROACHES.

- UNDERSTANDING CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING
- SIGNIFICANCE OF CATs FOR ATHLETIC TRAINERS
- STEPS TO CREATE A CRITICALLY APPRAISED TOPIC
- EXAMPLES OF CATs IN ATHLETIC TRAINING PRACTICE
- BENEFITS OF USING CRITICALLY APPRAISED TOPICS
- CHALLENGES AND SOLUTIONS FOR CAT IMPLEMENTATION
- BEST PRACTICES FOR INTEGRATING CATs IN CLINICAL SETTINGS
- CONCLUSION

UNDERSTANDING CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING

A CRITICALLY APPRAISED TOPIC (CAT) IS A CONCISE SUMMARY OF THE BEST AVAILABLE EVIDENCE PREPARED TO ANSWER A SPECIFIC CLINICAL QUESTION. IN THE CONTEXT OF ATHLETIC TRAINING, CATs SERVE AS A BRIDGE BETWEEN RESEARCH AND PRACTICAL DECISION-MAKING. THEY HELP ATHLETIC TRAINERS EVALUATE CURRENT LITERATURE, SYNTHESIZE FINDINGS, AND APPLY EVIDENCE-BASED SOLUTIONS TO REAL-WORLD PROBLEMS IN SPORTS MEDICINE. THE PROCESS INVOLVES FORMULATING A FOCUSED QUESTION, SEARCHING FOR RELEVANT STUDIES, APPRAISING THE QUALITY OF EVIDENCE, AND SUMMARIZING KEY OUTCOMES. BY LEVERAGING CATs, ATHLETIC TRAINERS CAN STREAMLINE THE PROCESS OF STAYING UP-TO-DATE WITH CURRENT RESEARCH WHILE PROVIDING HIGH-QUALITY CARE TO ATHLETES AND PATIENTS.

SIGNIFICANCE OF CATs FOR ATHLETIC TRAINERS

CRITICALLY APPRAISED TOPICS ARE VITAL TOOLS FOR ATHLETIC TRAINERS SEEKING TO IMPLEMENT EVIDENCE-BASED PRACTICE. THEY FACILITATE INFORMED CLINICAL DECISIONS, IMPROVE PATIENT CARE, AND FOSTER A CULTURE OF CONTINUOUS LEARNING. WITH THE GROWING EMPHASIS ON EVIDENCE-BASED MEDICINE, ATHLETIC TRAINERS ARE INCREASINGLY EXPECTED TO JUSTIFY INTERVENTIONS AND DEMONSTRATE EFFECTIVENESS. CATs PROVIDE A STRUCTURED APPROACH TO EVALUATING INTERVENTIONS, REHABILITATION PROTOCOLS, INJURY PREVENTION STRATEGIES, AND OTHER CLINICAL QUERIES. BY USING CATs, ATHLETIC TRAINERS CAN:

- ENHANCE THE QUALITY AND CONSISTENCY OF CARE FOR ATHLETES
- REDUCE VARIABILITY IN CLINICAL PRACTICE
- INCREASE CONFIDENCE IN DECISION-MAKING

- SUPPORT PROFESSIONAL DEVELOPMENT AND LIFELONG LEARNING
- FACILITATE COLLABORATION AMONG SPORTS MEDICINE PROFESSIONALS

STEPS TO CREATE A CRITICALLY APPRAISED TOPIC

DEVELOPING A CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING IS A SYSTEMATIC PROCESS. EACH STEP ENSURES THE CAT IS ACCURATE, RELEVANT, AND PRACTICAL FOR CLINICAL APPLICATION.

STEP 1: FORMULATE A FOCUSED CLINICAL QUESTION

THE FIRST STEP IS TO IDENTIFY A SPECIFIC CLINICAL QUESTION THAT ARISES IN ATHLETIC TRAINING PRACTICE. QUESTIONS ARE OFTEN STRUCTURED USING THE PICO FORMAT, WHICH STANDS FOR PATIENT/PROBLEM, INTERVENTION, COMPARISON, AND OUTCOME. FOR EXAMPLE, AN ATHLETIC TRAINER MAY ASK, "IN COLLEGIATE ATHLETES WITH ANKLE SPRAINS, DOES EARLY MOBILIZATION COMPARED TO IMMOBILIZATION IMPROVE RETURN-TO-PLAY RATES?"

STEP 2: SEARCH FOR THE BEST AVAILABLE EVIDENCE

ONCE THE QUESTION IS DEFINED, THE NEXT STEP INVOLVES CONDUCTING A THOROUGH SEARCH OF PEER-REVIEWED LITERATURE. ATHLETIC TRAINERS TYPICALLY ACCESS MEDICAL DATABASES SUCH AS PUBMED, CINAHL, AND SPORTDISCUS TO LOCATE RELEVANT STUDIES, SYSTEMATIC REVIEWS, AND CLINICAL TRIALS.

STEP 3: APPRAISE THE QUALITY OF EVIDENCE

CRITICAL APPRAISAL IS ESSENTIAL TO ASSESS THE VALIDITY, RELIABILITY, AND APPLICABILITY OF THE IDENTIFIED STUDIES. ATHLETIC TRAINERS EVALUATE STUDY DESIGN, SAMPLE SIZE, BIAS, STATISTICAL SIGNIFICANCE, AND RELEVANCE TO THE CLINICAL QUESTION. HIGHER-QUALITY EVIDENCE, SUCH AS RANDOMIZED CONTROLLED TRIALS AND SYSTEMATIC REVIEWS, IS GIVEN GREATER WEIGHT IN THE CAT.

STEP 4: SUMMARIZE FINDINGS

THE FINDINGS FROM THE SELECTED STUDIES ARE SYNTHESIZED INTO A CONCISE SUMMARY. ATHLETIC TRAINERS HIGHLIGHT KEY OUTCOMES, STRENGTHS, LIMITATIONS, AND CLINICAL IMPLICATIONS. THE SUMMARY SHOULD ANSWER THE ORIGINAL QUESTION AND PROVIDE ACTIONABLE RECOMMENDATIONS.

STEP 5: APPLY EVIDENCE TO PRACTICE

FINALLY, THE CAT IS INTEGRATED INTO CLINICAL PRACTICE. ATHLETIC TRAINERS USE THE EVIDENCE TO GUIDE INTERVENTIONS, EDUCATE PATIENTS, AND INFORM TEAM DECISIONS. THE CAT MAY BE UPDATED AS NEW RESEARCH EMERGES, ENSURING ONGOING RELEVANCE.

EXAMPLES OF CATs IN ATHLETIC TRAINING PRACTICE

CRITICALLY APPRAISED TOPICS ARE WIDELY USED TO ADDRESS COMMON CLINICAL SCENARIOS IN ATHLETIC TRAINING. BELOW ARE EXAMPLES ILLUSTRATING HOW CATs INFORM EVIDENCE-BASED DECISIONS:

- RETURN-TO-PLAY PROTOCOLS FOR CONCUSSION MANAGEMENT IN HIGH SCHOOL ATHLETES
- EFFECTIVENESS OF KINESIOLOGY TAPE FOR CHRONIC ANKLE INSTABILITY
- OPTIMAL REHABILITATION STRATEGIES FOR HAMSTRING STRAINS IN SOCCER PLAYERS
- COMPARISON OF COLD THERAPY VERSUS HEAT THERAPY IN ACUTE MUSCULOSKELETAL INJURIES
- PREVENTATIVE INTERVENTIONS FOR ANTERIOR CRUCIATE LIGAMENT (ACL) INJURIES IN FEMALE ATHLETES

BY REVIEWING AND APPLYING CRITICALLY APPRAISED TOPICS, ATHLETIC TRAINERS CAN CONFIDENTLY SELECT INTERVENTIONS THAT HAVE DEMONSTRATED EFFECTIVENESS IN SIMILAR POPULATIONS.

BENEFITS OF USING CRITICALLY APPRAISED TOPICS

INTEGRATING CATs INTO ATHLETIC TRAINING OFFERS A RANGE OF ADVANTAGES THAT ENHANCE CLINICAL EFFECTIVENESS AND PATIENT OUTCOMES. BENEFITS INCLUDE:

- TIME-EFFICIENT ACCESS TO HIGH-QUALITY EVIDENCE
- IMPROVED DECISION-MAKING BASED ON CURRENT RESEARCH
- INCREASED TRANSPARENCY AND ACCOUNTABILITY IN CLINICAL PRACTICE
- PROMOTION OF EVIDENCE-BASED CULTURE AMONG SPORTS MEDICINE TEAMS
- SUPPORT FOR ONGOING EDUCATION AND PROFESSIONAL GROWTH

CATs STREAMLINE THE PROCESS OF TRANSLATING RESEARCH INTO PRACTICE, MAKING IT EASIER FOR ATHLETIC TRAINERS TO KEEP PACE WITH RAPIDLY EVOLVING SCIENTIFIC KNOWLEDGE.

CHALLENGES AND SOLUTIONS FOR CAT IMPLEMENTATION

WHILE CRITICALLY APPRAISED TOPICS OFFER SIGNIFICANT BENEFITS, ATHLETIC TRAINERS MAY ENCOUNTER CHALLENGES WHEN INTEGRATING CATs INTO PRACTICE. COMMON BARRIERS INCLUDE LIMITED TIME, LACK OF ACCESS TO RESOURCES, AND INSUFFICIENT TRAINING IN EVIDENCE APPRAISAL. OVERCOMING THESE CHALLENGES IS CRUCIAL FOR SUCCESSFUL ADOPTION.

TIME CONSTRAINTS

ATHLETIC TRAINERS OFTEN BALANCE MULTIPLE RESPONSIBILITIES, MAKING IT DIFFICULT TO DEDICATE TIME TO CAT DEVELOPMENT. STREAMLINING THE CAT PROCESS, DELEGATING TASKS AMONG TEAM MEMBERS, AND UTILIZING TEMPLATES CAN HELP SAVE TIME.

RESOURCE AVAILABILITY

ACCESS TO MEDICAL LITERATURE, DATABASES, AND APPRAISAL TOOLS IS ESSENTIAL. ATHLETIC TRAINING PROGRAMS AND EMPLOYERS CAN SUPPORT CAT IMPLEMENTATION BY PROVIDING SUBSCRIPTIONS, TRAINING, AND ACCESS TO DIGITAL RESOURCES.

TRAINING AND EDUCATION

NOT ALL ATHLETIC TRAINERS ARE FAMILIAR WITH EVIDENCE APPRAISAL METHODOLOGIES. CONTINUING EDUCATION, WORKSHOPS, AND MENTORSHIP PROGRAMS CAN BUILD COMPETENCY AND CONFIDENCE IN USING CATs.

BEST PRACTICES FOR INTEGRATING CATs IN CLINICAL SETTINGS

EFFECTIVE INTEGRATION OF CRITICALLY APPRAISED TOPICS IN ATHLETIC TRAINING REQUIRES STRATEGIC PLANNING AND COLLABORATION. THE FOLLOWING PRACTICES CAN MAXIMIZE THE IMPACT OF CATs:

1. ESTABLISH A ROUTINE FOR REGULAR CAT CREATION AND REVIEW
2. ENCOURAGE INTERDISCIPLINARY COLLABORATION BETWEEN ATHLETIC TRAINERS, PHYSICIANS, AND PHYSICAL THERAPISTS
3. USE STANDARDIZED TEMPLATES TO STREAMLINE CAT DOCUMENTATION
4. SHARE CAT FINDINGS DURING TEAM MEETINGS AND CASE DISCUSSIONS
5. CONTINUOUSLY UPDATE CATs AS NEW EVIDENCE EMERGES

BY ADHERING TO THESE PRACTICES, ATHLETIC TRAINERS CAN FOSTER AN ENVIRONMENT OF EVIDENCE-BASED CARE AND ENSURE THEIR CLINICAL DECISIONS ARE INFORMED BY THE LATEST RESEARCH.

CONCLUSION

CRITICALLY APPRAISED TOPIC ATHLETIC TRAINING IS A POWERFUL APPROACH TO EVIDENCE-BASED PRACTICE. BY SYSTEMATICALLY EVALUATING AND SUMMARIZING RESEARCH, ATHLETIC TRAINERS CAN MAKE INFORMED CLINICAL DECISIONS, IMPROVE PATIENT OUTCOMES, AND ADVANCE THE PROFESSION. CATs OFFER PRACTICAL SOLUTIONS TO EVERYDAY CHALLENGES IN SPORTS MEDICINE, SUPPORTING CONTINUOUS LEARNING AND COLLABORATION AMONG HEALTHCARE PROVIDERS. AS THE FIELD OF ATHLETIC TRAINING CONTINUES TO EVOLVE, THE USE OF CRITICALLY APPRAISED TOPICS WILL REMAIN ESSENTIAL FOR DELIVERING EFFECTIVE, RESEARCH-DRIVEN CARE TO ATHLETES AND ACTIVE POPULATIONS.

Q: WHAT IS A CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING?

A: A CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING IS A CONCISE SUMMARY OF CURRENT RESEARCH EVIDENCE DESIGNED TO ANSWER A SPECIFIC CLINICAL QUESTION RELEVANT TO ATHLETIC TRAINERS. IT INVOLVES REVIEWING, ANALYZING, AND SYNTHESIZING THE BEST AVAILABLE STUDIES TO GUIDE CLINICAL DECISION-MAKING.

Q: WHY ARE CATs IMPORTANT FOR ATHLETIC TRAINERS?

A: CATs ARE IMPORTANT BECAUSE THEY HELP ATHLETIC TRAINERS MAKE INFORMED, EVIDENCE-BASED DECISIONS THAT IMPROVE PATIENT CARE, ENHANCE CLINICAL OUTCOMES, AND ENSURE INTERVENTIONS ARE BACKED BY RESEARCH.

Q: HOW DO YOU CREATE A CRITICALLY APPRAISED TOPIC IN ATHLETIC TRAINING?

A: CREATING A CAT INVOLVES FORMULATING A FOCUSED CLINICAL QUESTION, SEARCHING FOR RELEVANT EVIDENCE, APPRAISING THE QUALITY OF STUDIES, SUMMARIZING THE FINDINGS, AND APPLYING THE RESULTS TO CLINICAL PRACTICE.

Q: WHAT ARE COMMON EXAMPLES OF CATs IN ATHLETIC TRAINING?

A: COMMON EXAMPLES INCLUDE EVALUATING THE EFFECTIVENESS OF REHABILITATION PROTOCOLS FOR ANKLE SPRAINS, CONCUSSION MANAGEMENT STRATEGIES, INJURY PREVENTION TECHNIQUES, AND COMPARING MODALITIES SUCH AS COLD VERSUS HEAT THERAPY FOR MUSCULOSKELETAL INJURIES.

Q: WHAT CHALLENGES DO ATHLETIC TRAINERS FACE WHEN USING CATs?

A: ATHLETIC TRAINERS MAY FACE CHALLENGES SUCH AS TIME CONSTRAINTS, LIMITED ACCESS TO RESEARCH DATABASES, AND LACK OF TRAINING IN EVIDENCE APPRAISAL. SOLUTIONS INCLUDE STREAMLINING PROCESSES, PROVIDING RESOURCES, AND PROMOTING ONGOING EDUCATION.

Q: HOW CAN CATs IMPROVE PATIENT OUTCOMES IN SPORTS MEDICINE?

A: CATs IMPROVE PATIENT OUTCOMES BY ENSURING THAT CLINICAL DECISIONS ARE BASED ON THE LATEST RESEARCH, LEADING TO MORE EFFECTIVE INTERVENTIONS, REDUCED RECOVERY TIMES, AND BETTER OVERALL HEALTH FOR ATHLETES.

Q: WHAT RESOURCES ARE RECOMMENDED FOR FINDING EVIDENCE FOR CATs?

A: RECOMMENDED RESOURCES INCLUDE MEDICAL LITERATURE DATABASES SUCH AS PubMed, CINAHL, SPORTDiscus, SYSTEMATIC REVIEWS, AND CLINICAL GUIDELINES RELEVANT TO ATHLETIC TRAINING.

Q: ARE CATs ONLY USEFUL FOR ATHLETIC TRAINERS?

A: WHILE CATs ARE ESPECIALLY BENEFICIAL FOR ATHLETIC TRAINERS, THEY ARE ALSO VALUABLE FOR OTHER SPORTS MEDICINE PROFESSIONALS INCLUDING PHYSICAL THERAPISTS, PHYSICIANS, AND EDUCATORS INVOLVED IN ATHLETE CARE.

Q: HOW OFTEN SHOULD CATs BE UPDATED?

A: CATs SHOULD BE REGULARLY UPDATED TO REFLECT NEW RESEARCH FINDINGS AND CHANGES IN CLINICAL GUIDELINES, ENSURING THAT ATHLETIC TRAINING PRACTICES REMAIN CURRENT AND EFFECTIVE.

Q: WHAT IS THE PICO FORMAT AND WHY IS IT USED IN CATs?

A: THE PICO FORMAT STANDS FOR PATIENT/PROBLEM, INTERVENTION, COMPARISON, AND OUTCOME. IT IS USED TO STRUCTURE CLINICAL QUESTIONS CLEARLY, MAKING IT EASIER TO SEARCH FOR AND APPRAISE RELEVANT EVIDENCE WHEN CREATING A CAT.

Critically Appraised Topic Athletic Training

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Critically Appraised Topic: Athletic Training - A Deep Dive into Evidence-Based Practice

Introduction:

The field of athletic training is constantly evolving, fueled by advancements in sports science, medicine, and technology. To ensure optimal patient care and performance enhancement, athletic trainers must rely on evidence-based practice. This means critically appraising research to identify effective and safe interventions. This blog post delves into the crucial aspects of critically appraising topics within athletic training, examining the process, its importance, and providing practical examples. We'll equip you with the tools and knowledge to navigate the complexities of research and confidently apply evidence-based practices in your athletic training profession.

H2: Understanding the Importance of Critical Appraisal in Athletic Training

Athletic trainers face a constant barrage of new information – innovative treatment modalities, cutting-edge equipment, and emerging research findings. Simply accepting information at face value is insufficient. Critical appraisal allows athletic trainers to:

Enhance Patient Care: By rigorously evaluating the quality and relevance of research, athletic trainers can confidently select the most effective interventions for their patients, minimizing risks and maximizing outcomes.

Improve Treatment Outcomes: Applying evidence-based practices leads to more predictable and successful treatment plans, leading to faster recovery times and improved athletic performance.

Stay Current with Best Practices: The landscape of athletic training is dynamic. Critical appraisal ensures professionals remain updated with the latest, most reliable research, fostering continuous professional development.

Make Informed Decisions: Facing complex clinical scenarios requires well-informed decisions. Critical appraisal equips athletic trainers with the skills to assess the validity and reliability of various treatment options, enabling evidence-based decision-making.

Promote Professional Credibility: Demonstrating a commitment to evidence-based practice enhances the credibility and professionalism of athletic trainers, building trust with athletes, coaches, and medical professionals.

H2: The Critical Appraisal Process: A Step-by-Step Guide

Critically appraising research isn't a daunting task; it's a structured process. The key is to systematically evaluate several aspects of a study:

H3: 1. Assessing the Research Question and Study Design:

Relevance: Does the research directly address a question relevant to your practice?

Study Design Appropriateness: Is the study design (e.g., randomized controlled trial, cohort study, case-control study) appropriate for the research question? Does the design minimize bias?

H3: 2. Evaluating the Methods and Participants:

Sampling Methods: Was the sample appropriately selected and representative of the population of interest?

Data Collection Methods: Were the data collection methods reliable and valid? Were potential biases addressed?

Inclusion/Exclusion Criteria: Were the criteria clearly defined and justified?

H3: 3. Analyzing the Results:

Statistical Significance: Were the statistical analyses appropriate and correctly interpreted? Are the results statistically significant?

Clinical Significance: Even if statistically significant, are the results clinically meaningful and applicable in a real-world setting?

Effect Size: How large is the effect of the intervention? Is the effect substantial enough to warrant its use?

H3: 4. Considering Bias and Limitations:

Selection Bias: Were participants assigned to groups randomly? Were there any systematic differences between groups?

Measurement Bias: Were the measurements objective and reliable?

Publication Bias: Was the study published in a reputable journal with peer review?

H2: Examples of Critically Appraised Topics in Athletic Training

The critical appraisal process is applied to diverse areas in athletic training. Consider these examples:

Effectiveness of different rehabilitation techniques for ACL injuries: Comparing surgical versus non-surgical approaches, examining the efficacy of various exercise protocols, and assessing long-term outcomes.

Prevention of concussion in youth athletes: Evaluating the effectiveness of rule changes, protective equipment, and educational programs.

Management of muscle strains: Assessing the efficacy of different treatment modalities (e.g., rest, ice, compression, elevation, medication) and comparing recovery times.

The use of technology in athletic training: Evaluating the validity and reliability of wearable technology for monitoring athlete performance and injury risk.

H2: Resources for Critical Appraisal

Numerous resources can assist athletic trainers in the critical appraisal process. These include:

CASP (Critical Appraisal Skills Programme): Offers free checklists and tools for assessing different types of research.

PubMed and other research databases: Provide access to a vast range of peer-reviewed studies.

Professional journals: Offer high-quality research articles in the field of athletic training.

Continuing education courses: Many courses focus on evidence-based practice and critical appraisal skills.

Conclusion:

Critically appraising research is an essential skill for all athletic trainers. By mastering the critical appraisal process and utilizing available resources, athletic trainers can confidently incorporate evidence-based practices into their work, enhancing patient care and optimizing athletic performance. The commitment to rigorous evaluation ensures that athletic training remains a dynamic and evidence-driven profession.

FAQs:

1. What is the difference between statistical significance and clinical significance? Statistical significance indicates a result is unlikely due to chance, while clinical significance refers to the practical importance of the finding in real-world application.
2. How can I improve my critical appraisal skills? Practice is key! Start by critically appraising a few articles, utilize available resources like CASP checklists, and consider attending continuing education courses focused on evidence-based practice.
3. Are there specific critical appraisal tools for different study designs? Yes, different study designs require different appraisal tools. CASP provides checklists tailored to various study types, such as randomized controlled trials, cohort studies, and qualitative research.
4. Where can I find reliable research articles on athletic training topics? PubMed, SPORTDiscus, and other research databases are excellent resources. Look for articles published in peer-reviewed journals.
5. How can I incorporate evidence-based practice into my daily work as an athletic trainer? Regularly search for relevant research, critically appraise the findings, and integrate the most robust evidence into your treatment plans and decision-making. Document your rationale for your choices.

critically appraised topic athletic training: *Evidence-Based Practice in Athletic Training* Scot Raab, Debbie Craig, 2015-11-17 As one of the first texts of its kind, *Evidence-Based Practice in Athletic Training* contains essential information on the fundamentals of evidence-based practice (EBP) for students who are working toward certification in athletic training and athletic trainers who wish to stay up to date on best practices in the field. With EBP, all clinical decisions are based on available research studies, and these studies are selected and assessed according to specific criteria that yield evidence of benefit. EBP is a continuing education requirement for athletic trainers who are certified with the Board of Certification (BOC). Grounded in solid science, *Evidence-Based Practice in Athletic Training* explains the basics of EBP and the research design methods that are so vital to its implementation. Starting in part I, the text introduces the various levels of evidence, well-built question development using the PICO technique (patient problem or population, intervention, comparison, and outcomes), the five steps of searching for evidence, and search techniques. Part II guides readers through researching specific questions and evaluating research studies, including how to incorporate the evidence they find into their clinical practice. Part III reviews the various research types, their uses and benefits, and research ethics as a critical part of the process of EBP. Through these step-by-step chapters, readers will be able to formulate clinical questions, perform research on current studies, analyze the available data, and apply the principles in their practice in order to provide the best and most accurate care possible. In addition to in-depth

information on the principles and application of EBP, Evidence-Based Practice in Athletic Training presents clinically based scenarios that allow students to apply their recently acquired knowledge to real-life situations, thus encouraging a deeper understanding of the topics presented throughout the text. These scenarios allow those who are learning EBP concepts for the first time to understand how EBP is incorporated clinically. The most efficient, systematic, and thorough resource of its kind, Evidence-Based Practice in Athletic Training encourages students and current certified athletic trainers to ask meaningful questions, gain the knowledge they need for excelling in future practice, and rise to the top of their profession. For students who want a thorough skill base in EBP and for credentialed health care professionals who seek further knowledge in the area, Evidence-Based Practice in Athletic Training will help all current and future athletic trainers provide the best care for their athletes and clients.

critically appraised topic athletic training: Pfeiffer and Mangus's Concepts of Athletic Training Cynthia Trowbridge, Cheryl M. Ferris, 2022-06-15 Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook, student practice activities and assessments, a full suite of instructor resources, and learning analytics reporting tools. Written for the introductory course, the Eighth Edition of Concepts of Athletic Training focuses on the care and management of sport and activity related injuries while presenting key concepts in a comprehensive, logically sequential manner that will assist future professionals in making the correct decisions when confronted with an activity-related injury or illness in their scope of practice. Key Features Include: - Time Out boxes provide additional information related to the text, such as NATA Athletic Helmet Removal Guidelines, how to recognize the signs of concussion, and first aid for epilepsy - Athletic Trainers Speak Out boxes feature a different athletic trainer in every chapter who discusses an element of athlete care and injury prevention - Anatomy Reviews introduce body parts to students unfamiliar with human anatomy and acts as a refresher for those students with some anatomy background

critically appraised topic athletic training: Fundamentals of Athletic Training and Sports Medicine Lorin A. Cartwright, Kimberly S. Peer, 2024-10-18 This textbook offers a well-rounded introduction to the fields of sports medicine and athletic training. In an engaging full-color layout, it addresses common injuries and illnesses often encountered in the field, and it explains the professional and administrative aspects of being an athletic trainer or sports medicine specialist. Fundamentals of Athletic Training and Sports Medicine, Fifth Edition With Web Resource, provides students with foundational knowledge and skills as well as the opportunity to explore the possibility of sports medicine as a career. Topics covered in this text correspond to the National Athletic Trainers' Association's secondary-level sports medicine course description. While each unit in the text can stand alone, the topics are progressive in nature. Students will first obtain a knowledge of human anatomy and the physiology of injury and tissue healing before learning about various types of injuries, conditions, and illnesses. The text then addresses the fundamentals of rehabilitation, injury prevention, and return-to-play criteria, including psychological aspects. The fifth edition covers the latest developments in athletic training regarding treatment, care, and prevention of injuries; administration; and certification. Updated and expanded content includes information on head injury diagnosis and management, new treatment modalities, new taping techniques, and the effects of therapeutic, recreational, and performance-enhancing drug use. Other learning-friendly features in this edition include the following: Red Flags, which warn of potentially hazardous situations What Would You Do If . . . features, which present students with complex scenarios to test their decision making in life-threatening situations The Real World features, which share actual experiences from practicing sports medicine professionals A robust teacher guide with activities, assignments, and tests to support classroom instruction A student web resource with 28 step-by-step worksheets for performing specific tasks, activities that provide hands-on experience, and a semester-long project for building practical skills Authors Cartwright and Peer provide comprehensive coverage of topics in 35 chapters, organized into nine units; a glossary; an index; and an exhaustive list of updated references that attests to the authoritativeness of the information

provided. Fundamentals of Athletic Training and Sports Medicine, Fifth Edition, is a thorough guide for students to understand the scope of the role as well as the skills and expertise necessary to embark on the path to a career in sports medicine.

critically appraised topic athletic training: Athletic Training Exam Review Lynn Van Ost, Karen Lew Feirman, Karen Manfri, 2024-06-01 For more than 20 years, Athletic Training Exam Review has empowered and enabled students to assess and evaluate their athletic training knowledge, skills, and decision-making abilities. Now, newly updated for its platinum anniversary, the Seventh Edition continues a tradition of excellence while serving as a premier guide to successfully achieving certification as an athletic trainer. The Seventh Edition serves as a comprehensive self-evaluation tool, elevating readers' level of preparation for the BOC exam. This market-leading guide has made a positive impact on the athletic training profession by highlighting and improving students' strengths and weaknesses. What's inside: Updated study techniques and test-taking strategies An expanded overview of the exam format to assist in organization and planning More than 1,300 multiple-choice questions and nearly 100 true/false questions, updated and organized according to the BOC's Practice Analysis, Seventh Edition Educational Domains Clinical decision-making questions testing the ability to make appropriate judgment calls using problem solving A skills assessment composed of 26 problems designed to test manual athletic training skills Scenario-based problems to strengthen critical-thinking abilities In addition to the updated content, the Seventh Edition also features a fully redesigned and expanded online test-taking experience, including: New user-friendly, mobile format 8 knowledge assessment tests—3 more than the previous edition! 5 unique true/false exams 20 total drag and drop identification photographs—8 more than the previous edition! 43 critical-thinking scenarios 3 clinical decision-making exams containing scenario-based exam questions 13 video segments with related questions for practicing evaluation and assessment Athletic Training Exam Review has assisted thousands of students and has become a hallmark text around the globe. Connecting the classroom with clinical education, this review tool is a timely and critical text that prepares students for their exam and career as an athletic trainer.

critically appraised topic athletic training: Management Strategies in Athletic Training, 5E Konin, Jeff, 2019 Management Strategies in Athletic Training, Fifth Edition, prepares students and athletic trainers to address the many administrative and managerial challenges they will face in an increasingly complex and changing health care environment.

critically appraised topic athletic training: Epidemiology for Athletic Trainers Melanie Adams, Wanda Swiger, 2024-06-01 Evidence-based practice requires clinicians to be knowledgeable of the current standards of care and be willing to consider the effectiveness of new methods. Athletic Trainers especially must understand how epidemiology shapes healthcare practices for physically active patients. To meet this need, Epidemiology for Athletic Trainers: Integrating Evidence-Based Practice is a succinct and comprehensive reference meant to develop and refine student and clinician evidence-based practice skills. This text addresses the prevalence, risk factors, and surveillance of sports-related injury and illness at youth, college, and professional levels. Inside Epidemiology for Athletic Trainers: Integrating Evidence-Based Practice, Drs. Wanda Swiger and Melanie M. Adams guide the reader through the steps of evidence-based practice by presenting basic research and statistical methods needed to read medical literature. Key sport epidemiology studies are reviewed for both historical and clinical significance. This foundation is built on with a deeper discussion of injury and illness prevention and future research. Chapters cover a wide range of topics including the health benefits of physical activity, concussion return to play guidelines, ACL prevention, and mental health concerns. This text provides an exceptional approach to integrating evidence-based practice skills with clinical practice. Features: Meets the Commission on Accreditation of Athletic Training Education (CAATE) outcomes Includes classroom activities to make the text interactive and expand the student's or clinician's research skills Fosters the use of prevention practices and health promotion within athletic training Included with the text are online supplemental materials for faculty use in the classroom. Epidemiology for Athletic Trainers:

Integrating Evidence-Based Practice is a must-have for any athletic training student or clinician looking to improve his or her decision-making skills within an evidence-based context.

critically appraised topic athletic training: *Evidence-Guided Practice* Bonnie Van Lunen, Dorice Hankemeier, Cailee Welch, 2024-06-01 Athletic trainers must have a foundation in the concepts of evidence-based practice to deliver patient care in an effective way. It is critical that students and clinicians formulate clinical plans that will be effective for individual patients. With that goal in mind, *Evidence-Guided Practice: A Framework for Clinical Decision Making in Athletic Training* teaches the athletic trainer that evidence-based practice concepts must be incorporated into daily clinical practice. Written in a conversational tone, Drs. Bonnie Van Lunen, Dorice Hankemeier, and Cailee Welch provide a practical and concise resource for athletic trainers to use when interpreting what the available evidence means for them and how it can be effectively applied in daily patient care. The competencies within athletic training and other health care professions were considered when each chapter was constructed. Special care was taken to include examples that are specific to athletic training and instructional applications for educators. What Is Inside: Types of research design Foundations of research and statistics Introduction to critical appraisal Concepts of validity Diagnostic accuracy Disablement models Patient-oriented outcome assessments Health care informatics The first of its kind, *Evidence-Guided Practice: A Framework for Clinical Decision Making in Athletic Training* is the only resource athletic training students, clinicians, or other health care professionals will need to properly put evidence-based concepts into practice.

critically appraised topic athletic training: *Athletic Training and Therapy* Leamor Kahanov, Ellen K. Payne, 2022 This graduate-level textbook instills evidence-based knowledge of contemporary practices in athletic training and health care. Integrating essential competencies outlined by the NATA, BOC, and CAATE, future athletic trainers will build a foundation for clinical expertise to improve patient outcomes.

critically appraised topic athletic training: *Athletic Injuries of the Hip, An Issue of Clinics in Sports Medicine* Dustin L. Richter, F. Winston Gwathmey, 2021-03-05 This issue of *Clinics in Sports Medicine* will discuss Athletic Injuries of the Hip. Guest edited by Drs. Dustin Richter and F. Winston Gwathmey, this issue will cover a number of related topics that are important to practicing clinicians. This issue is one of four selected each year by our series Consulting Editor, Dr. Mark Miller. The volume will include articles on: Evaluation of the athlete with hip pain; Hip imaging and injections; Hip dysplasia; Hip instability and dislocation; Hip flexor and iliopsoas disorders; Hip abductor and peritrochanteric space conditions; Proximal hamstring injuries; Stress fractures; Avulsion injuries; The adolescent athlete; Sex based differences in injury rates and strength and conditioning; and Rehabilitation of soft tissue injuries of the hip and pelvis, among others.

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terms, and review statements as well as sample administrative forms that readers can both study and adapt to their own work situations. Special elements and appendixes provide direction for deeper study by referring students to Internet resources, other Athletic Training Education Series texts, sample forms for analysis of athletic training programs, and material on regulations and ethics in athletic training. In addition, the fourth edition covers new material that students will find helpful as they embark on their athletic training careers, such as compensation, tips for finding a job, and negotiating skills for accepting a job. For instructors, an ancillary package consisting of an instructor guide, test bank, and new image bank will aid in course development. Loaded with additional case studies, course projects, chapter worksheets, and a sample course syllabus, these materials can be used for organizing classes, testing students' knowledge, and creating exciting learning experiences.

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critically appraised topic athletic training: *Evidence-Based Practice in Athletic Training* Raab, Scot, Craig, Deborah, 2015-10-19 Evidence-Based Practice in Athletic Training provides essential information on the fundamentals of evidence-based practice (EBP) for students who are working toward certification in athletic training and for athletic trainers who wish to stay up to date on best practices in the field.

critically appraised topic athletic training: Therapeutic Modalities for Musculoskeletal Injuries, 4E Denegar, Craig R., Saliba, Ethan, Saliba, Susan, 2015-10-09 Therapeutic Modalities for Musculoskeletal Injuries, Fourth Edition, offers comprehensive coverage of therapeutic interventions for musculoskeletal injuries, providing the tools for optimal decision making for safe and effective use of each treatment method.

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Qipeng Song, Li Li, Pui Wah Kong, Lin Wang, Feng Wei, 2023-11-23 Biomechanical performance is a key to evaluating effectiveness in physical medicine and rehabilitation for neuromusculoskeletal disorders. Assessments can be applied to degenerative dysfunction (e.g., falls or knee osteoarthritis in older adults) and sports-related injuries (e.g., ankle sprain or anterior cruciate ligament injury). Patients' body movements and daily activity functions can be compared to the state of pre-injury condition or to the level of healthy individuals. Some cutting-edge studies have gone a step further and used biomechanical performance to develop physical medicine and rehabilitation approaches and explore the mechanisms behind their effectiveness. However, such studies are still relatively rare. This research topic is intended to encourage more relevant projects to be published. This research topic aims to encourage researchers to use biomechanical performance to design advanced physical medicine and rehabilitation approaches, evaluate the effectiveness of the rehabilitation approaches, and explore the mechanisms by which rehabilitation approaches work for neuromusculoskeletal disorders. Some studies have developed stretching approaches for the rehabilitation of knee osteoarthritis in older adults by measuring biomechanical performance during functional activities. Some studies indicated that the mechanism of physical activity to reduce falls in older adults lies in its effectiveness in increasing proprioceptive sensitivity, and further indicated that rehabilitation of proprioception may be a key to reducing falls in the fall-prone older adult population. Some other studies analyzed biomechanical performance in ankle ligament injuries to understand when, how, and why ligaments fail. As a result, this research topic will expand the application of biomechanical performance to better understand and treat neuromusculoskeletal disorders.

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critically appraised topic athletic training: *The Routledge Handbook of Clinical Sport Psychology* Donald R. Marks, Andrew T. Wolanin, Kendahl M. Shortway, 2021-07-29 Clinical sport psychology is a rapidly growing field that brings together research and clinical interventions from both clinical psychology and sport and performance psychology. Complementary to sports medicine and clinical sport psychiatry, clinical sport psychology addresses the mental health needs and psychological well-being of athletes, coaches, and other members of the sport community. It offers scientifically informed conceptualizations of psychological distress as it manifests in sport settings, as well as empirically supported clinical interventions tailored to the needs of sport populations. This volume addresses the latest research findings regarding mental health among athletes and other sport professionals, including epidemiological research concerning depression, anxiety, eating disorders, and conduct and interpersonal problems. In addition, it explores the unique etiology of mental health problems among athletes, including psychological sequelae of injury and trauma, as well as concise practice guidelines for conceptualizing and treating psychological distress in sport populations. Strategies for thorough yet efficient psychological assessment of athletes, coaches, and other sport professionals are also provided. A compendium of relevant empirical research and clinical best practices for assessment and treatment, this handbook charts the course that clinical sport psychology has taken since its inception as a distinct clinical specialty and highlights future directions for this rapidly growing practice domain. It offers essential reading for psychologists and other mental health professionals who provide clinical services in sport and performance settings.

critically appraised topic athletic training: Grieve's Modern Musculoskeletal Physiotherapy E-Book Deborah Falla, Jeremy Lewis, Christopher McCarthy, Chad E Cook, Michele Sterling, 2024-04-02 Originally edited by Gregory Grieve, a founder of modern manual therapy, the fifth edition of *Grieve's Modern Musculoskeletal Physiotherapy* continues to offer contemporary evidence, models of diagnosis and practice that make this one of the most highly respected reference books for physiotherapists. This edition has been fully updated to provide an overview of the latest science in a rapidly evolving field. It includes detailed directions for research-informed patient care for a range of musculoskeletal disorders, as well as up-to-date information on the global burden, research methodologies, measurements, and principles of assessment and management. A new international editorial board, with experience in both research and clinical practice, bring a truly comprehensive perspective to this book, meaning those practising musculoskeletal physiotherapy today will find it highly clinically relevant to their work. - Edited by an internationally recognised editorial board - brings expertise in both research and clinical practice - Fully updated with the latest published evidence - Clear guidance on evidence-based contemporary practice - Management of conditions relating to both the vertebral column and peripheral joints - Updated reviews on the science and practice of a wide range of treatment modalities - Principles of effective

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critically appraised topic athletic training: Knee Arthroscopy and Knee Preservation Surgery Seth L. Sherman, Jorge Chahla, Scott A. Rodeo, Robert F. LaPrade, 2024-09-23 This major reference work brings together the current state of the art for joint preservation surgery of the knee, including arthroscopic and open procedures. Generously illustrated with radiographs and intraoperative photos, it presents the latest tips and techniques, providing the knee surgeon with the most up-to-date information for precise preparation and decision-making in this rapidly evolving area. This comprehensive guide is divided into ten thematic sections covering clinical evaluation; fundamentals of arthroscopic and open approaches; basic and advanced arthroscopic procedures; surgical management of meniscal disorders; management of ACL injuries; approaches to complex and multi-ligamentous injuries; limb malalignment; management of cartilage and subchondral bone; patellofemoral and extensor mechanism disorders; and rehabilitation and return to play considerations. Written by experts in the field, *Knee Arthroscopy and Knee Preservation Surgery* will be a highly valued resource for orthopedic and sports medicine surgeons, residents and fellows.

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critically appraised topic athletic training: Basketball Sports Medicine and Science Lior Laver, Baris Kocaoglu, Brian Cole, Amelia J. H. Arundale, Jeffrey Bytowski, Annunziato Amendola, 2020-10-05 This book is designed as a comprehensive educational resource not only for basketball medical caregivers and scientists but for all basketball personnel. Written by a multidisciplinary team of leading experts in their fields, it provides information and guidance on injury prevention, injury management, and rehabilitation for physicians, physical therapists, athletic trainers, rehabilitation specialists, conditioning trainers, and coaches. All commonly encountered injuries and a variety of situations and scenarios specific to basketball are covered with the aid of more than 200 color photos and illustrations. Basketball Sports Medicine and Science is published in collaboration with ESSKA and will represent a superb, comprehensive educational resource. It is further hoped that the book will serve as a link between the different disciplines and modalities involved in basketball care, creating a common language and improving communication within the team staff and environment.

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2024-11-07 The relationship between mental health and elite sport has found itself under more intense scrutiny in recent years. This has occurred as a result of the increasing number of elite athletes who have chosen to talk about the mental health challenges that they have faced during their careers. It is also reflective of an emerging body of academic work that seeks to make sense of the interplay that exists between mental health and elite sport. *Mental Health and Sport: Supporting Elite Athletes* is offered as a further contribution to that body of work; one that is designed to benefit practitioners who are already working with elite athletes, and those who aspire to do so. It does so by providing a foundational understanding of mental health, by introducing some of the challenges that elite athletes can face during their careers, and by making some practical recommendations that can be used to help support the mental health of elite athletes. Split into six substantive chapters that introduce key overarching issues relating to mental health and elite sport, and explore the implications for specific groups of athletes, *Mental Health and Sport: Supporting Elite Athletes* is an important reference for anybody who has an interest in better supporting the mental health of elite athletes at youth and/or senior levels.

critically appraised topic athletic training: *Routledge Handbook of Mental Health in Elite Sport* Insa Nixdorf, Raphael Nixdorf, Jürgen Beckmann, Scott Martin, Tadhg Macintyre, 2023-03-26 Mental health is a rapidly increasing topic in the field of sport psychology. As the relevance of athletes' mental health has come to prominence through emerging research, there is a high demand for evidence-based practice in order to promote athletes' mental health and prevent mental disorders as well as maladaptive syndromes. However, there is currently no comprehensive overview available that highlights the empirical evidence for the constructs of mental health, illustrating the latest developments in research, or that highlights implications for future science and practice. The *Routledge Handbook of Mental Health in Elite Sport* delivers such an understanding and overview for this field, offering students, researchers, mental health professionals, applied sport psychologists, and coaches a state-of-the-art and insightful summary of science in the newly emerged field of clinical sport psychology and mental health in athletes. This thorough volume covers major current and emerging topics on mental health and mental illness (e.g., depression), subclinical syndromes (e.g., burnout), as well as a comprehensive overview of research on prevention (e.g., green exercise) and treatment of mental health disorders in athletes and will be a vital resource for researchers, academics, and students in the fields of sport psychology, clinical psychology, sport coaching, sport sciences, health psychology, and physical activity and related disciplines.

critically appraised topic athletic training: *Return to Play in Football* Volker Musahl, Jón Karlsson, Werner Krutsch, Bert R. Mandelbaum, João Espregueira-Mendes, Pieter d'Hooghe, 2018-03-16 In this book, leading experts employ an evidence-based approach to provide clear practical guidance on the important question of when and how to facilitate return to play after some of the most common injuries encountered in football. Detailed attention is paid to biomechanics, the female athlete, risk factors, injury prevention, current strategies and criteria for safe return to play, and future developments. Specific topics discussed in depth include concussion, anterior cruciate ligament and other knee injuries, back pathology, rotator cuff tears, shoulder instability, hip arthroscopy, and foot and ankle injuries. The chapter authors include renowned clinicians and scientists from across the world who work in the field of orthopaedics and sports medicine. Furthermore, experiences from team physicians involved in the Olympics, National Football League (NFL), Union of European Football Associations (UEFA), and Fédération Internationale de Football Association (FIFA) are shared with the reader. All who are involved in the care of injured footballers will find this book, published in cooperation with ESSKA, to be an invaluable, comprehensive, and up-to-date reference that casts light on a range of controversial issues.

critically appraised topic athletic training: *Grieve's Modern Musculoskeletal Physiotherapy* Gwendolen Jull, Ann Moore, Deborah Falla, Jeremy Lewis, Christopher McCarthy, Michele Sterling, 2015-05-11 Since the third edition of *Grieve's Modern Manual Therapy* was published in 2005, the original concepts of manipulative therapy have grown to embrace new

research-generated knowledge. Expansions in practice have adopted new evidence which include consideration of psychological or social moderators. The original manual therapy or manipulative therapy approaches have transformed into musculoskeletal physiotherapy and this is recognized by the change in title for the new edition - Grieve's Modern Musculoskeletal Physiotherapy. Grieve's Modern Musculoskeletal Physiotherapy continues to bring together the latest state-of-the-art research, from both clinical practice and the related basic sciences, which is most relevant to practitioners. The topics addressed and the contributing authors reflect the best and most clinically relevant contemporary work within the field of musculoskeletal physiotherapy. With this as its foundation and a new six-strong editorial team at its helm, the fourth edition now expands its focus from the vertebral column to the entire musculoskeletal system. For the first time both the spine and extremities are covered, capturing the key advances in science and practices relevant to musculoskeletal physiotherapy. The book is divided into five parts containing multiple sections and chapters. The first part looks at advances in the sciences underpinning musculoskeletal physiotherapy practice. Here there is commentary on topics such as movement, the interaction between pain and motor control as well as neuromuscular adaptations to exercise. Applied anatomical structure is covered in addition to the challenges of lifestyle and ageing. A new section highlights the important area of measurement and presents the scope of current and emerging measurements for investigating central and peripheral aspects relating to pain, function and morphological change. Another section discusses some contemporary research approaches such as quantitative and qualitative methods as well as translational research. Part III contains sections on the principles of and broader aspects of management which are applicable to musculoskeletal disorders of both the spine and periphery. Topics include models for management prescription, communication and pain management and contemporary principles of management for the articular, nervous and sensorimotor systems. In recognition of the patient centred and inclusive nature of contemporary musculoskeletal practice, there is also discussion about how physiotherapists may use cognitive behavioural therapies when treating people with chronic musculoskeletal disorders. The final part of the book focuses on selected contemporary issues in clinical practice for a particular region, condition or the most topical approaches to the diagnosis and management of a region. A critical review of the evidence (or developing evidence) for approaches is given and areas for future work are highlighted. - Presents state-of-the-art manual therapy research from the last 10 years - Multidisciplinary authorship presents the viewpoints of different professions crucial to the ongoing back pain management debate - Highly illustrated and fully referenced

critically appraised topic athletic training: Acronyms, Initialisms & Abbreviations

Dictionary, 2001-05 Each volume separately titled: v. 1, Acronyms, initialisms & abbreviations dictionary; v. 2, New acronyms, initialisms & abbreviations (formerly issued independently as New acronyms and initialisms); v. 3, Reverse acronyms, initialisms & abbreviations dictionary (formerly issued independently as Reverse acronyms and initialisms dictionary).

critically appraised topic athletic training: Kadın Güreşçilerde Toparlanma Yöntemleri Eda GÖKÇELİK, 2022-10-26

critically appraised topic athletic training: Evidence-Based Practice in Exercise Science

William E. Amonette, Kirk L. English, William J. Kraemer, 2016-03-02 Exercise science practitioners have access to mountains of research findings, expert opinions, novel techniques, and program plans via blogs, fitness magazines, conference presentations, and peer-reviewed journals. To facilitate effective practice, practitioners must sift through this information and retain only the best evidence to form a sound base of knowledge. Evidence-Based Practice in Exercise Science: The Six-Step Approach equips readers with the basic skills and competencies for discerning the value of scientific research. Using a methodical approach, students and professionals will learn to identify appropriate evidence to support novel interventions and avoid counterproductive or dangerous information to eliminate ineffective exercise options. The authors, well-known advocates in the study and application of evidence-based practice in the field of exercise science, take the five-step method of evidence-based practice that has been established in medicine, adapt it specifically for exercise

science, and expand it to embrace individuality in exercise training. The content is accessible for students in a variety of courses in exercise science curricula; those seeking certification through professional organizations; and practitioners in the fields of exercise, nutrition, sports medicine, and sport science. This text is an instruction manual in understanding and applying evidence-based practice. The process is divided into six steps that begin with asking a question and then finding, evaluating, implementing, confirming, and re-evaluating the evidence. Readers of Evidence-Based Practice in Exercise Science will explore these aspects:

- The philosophy of science and design of scientific studies
- The use of search tools like PubMed and Google Scholar and how to rank or define the strength of the evidence
- Practical suggestions for implementing evidence-based practice in the field to better advise and serve athletes, clients, and patients
- Case studies that demonstrate realistic scenarios of how the evidence-based process may be used in a variety of sport and exercise settings

Each chapter opens with chapter objectives that provide a road map for learning, and a chapter conclusion summarizes main points and ensures understanding. The case studies cover topics including exercise prescription; exercise for special populations; nutrition and supplementation; and exercise devices, equipment, and apparel. Each case presents a realistic scenario that an exercise practitioner may experience, presents background information, formulates a question for investigation, describes a search of the literature, discusses the findings, and provides a recommendation for practice based on the best current evidence. Evidence-Based Practice in Exercise Science is grouped into four sections that assist readers in gaining a better understanding of the evidence-based practice paradigm, learning the step-by-step method, and acquiring experience in the evidence-based approach by working through practical examples using real-world scenarios. Part I offers foundational knowledge of evidence-based practice in exercise sciences. Part II introduces the six-step method of evidence-based practice with chapters that explore each step of the process in depth. Part III presents 16 case studies grouped into chapters by general topics. Part IV concludes the text with chapters on disseminating and sharing knowledge and the future of evidence-based practice in exercise science. By understanding the concepts and process of evidence-based practice, current and future sport, exercise, and health professionals will prescribe individualized programs and treatments that improve athletic performance and lead individuals toward better health. Embracing evidence-based practice will ultimately advance the field and produce optimal outcomes for clients, patients, and athletes.

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