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This comprehensive book summarizes the work that has been done on exciting new approaches in biological treatment interventions for spinal disc repair and regeneration. It authoritatively illustrates the basic ideas behind biological disc repair and regeneration. Renowned spine surgeons and scientists share clinical pearls throughout each chapter of this book, which offers medical providers information for use in practice.

**OF NOTE**
- Treatment methodologies including nucleus replacement and repair
- Growth factors such as platelet-rich plasma (PRP)
- Cell-based therapy like the use of stem cells and chondrocytes
- Innovative treatment strategies for disc regeneration
The updated essential textbook from master spine surgeons

This concise “how-to” guide to conducting diagnostic spine exams comes from the authors of the bestselling Spine Surgery: Tricks of the Trade. This book thoroughly reviews fundamentals, including basic anatomy and neurology, before it systematically outlines tests for the cervical, thoracic, and lumbar spines.

**KEY FEATURES:**
- Line drawings that illustrate motor, sensory, reflex, and range-of-motion exams
- Special tests for scoliosis and other spine disorders
- Succinct and easy-to-understand descriptions
- Organization into cervical, thoracic, and lumbosacral sections

**ALSO RECOMMENDED**
- Vaccaro/Albert, 2016
  €184.99
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  ISBN 978-3-13-165882-1
  €169.99

**ADDITIONAL READING**
- Nnadi, 2016
  €139.99
- Broetz, 2016
  ISBN 978-3-13-199761-6
  €79.99
Epiduroscopy enables surgeons to access, diagnose, and treat discogenic pain and spinal pathologies via direct visualization and focused intervention. This book, which is written in bullet-point format, details the processes and indications for performing spinal epiduroscopy.

CONTENT FEATURES
- A systematic guide covering everything from relevant clinical indications to using specialized tools
- Online access to 46 step-by-step surgical videos and animations
- High quality procedural photos and medical illustrations
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Epiduroscopy
Atlas of Procedures
Daniel H. Kim
Salahadin Abdi
Günter Schütze
2017/288 pp./300 illus./hardcover/

Succeed using this multimedia epiduroscopy tutorial
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AOSpine Masters Series
Volume 7: Spinal Cord Injury and Regeneration
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Navigate the latest translational research
This state-of-the-art compendium delivers renowned experts’ invaluable insights on SCI diagnosis, spine surgery, and long-term management.

SPOTLIGHTS ON
• Pathobiology, assessment, and diagnostic considerations
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Evolve spine care with this evidence-based guide
This book, written by internationally recognized spine authorities, is a concise, innovative overview of fundamental back pain management strategies and current issues and challenges.

KEY DISCUSSIONS
• Economic considerations, risk factors, and legal aspects
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Volume 3: Cervical Degenerative Conditions

Volume 4: Adult Spinal Deformities

Volume 5: Cervical Spine Trauma

Volume 6: Thoracolumbar Spine Trauma

Principles of Orthopedic Infection Management
Stephen L. Kates
Olivier Borens

Effectively manage postoperative orthopedic infections
Presented by AO Trauma and Thieme, this comprehensive new book reveals postoperative infection’s challenges, which can be just as life-threatening as an initial trauma if not properly prevented or treated. This highly informative clinical go-to text discusses specifics for managing orthopedic infections and related issues.

BONUSES TO THIS BOOK
• Contributions from 63 diverse, world-renowned specialists
• In-depth case examples from a variety of infections
• Nine algorithms to assist in complex decision making
• More than 800 images, plus online access to videos

Antiresorptive Drug-related Osteonecrosis of the Jaw (ARONJ)—a Guide to Research
Kenneth E. Fleisher
Risto Kontio
Sven Otto

This collaboration between some of the leading international experts in the field is presented by AO CMF to unravel the many biologic processes and risk factors associated with the debilitating condition of ARONJ.

THIS RICHLY ILLUSTRATED BOOK
• Analyzes historical definitions, classifications, and clinical features of ARONJ
• Reviews the risk factors and treatment options that are currently available
• Addresses why the jaw bone is predominantly affected
• Discusses using large and small animals in modeling
Classic anatomy instruction covers just a fraction of the area that hand surgery deals with: it focuses on bones, muscles/ligaments, vessels, and nerves. It often only briefly highlights the many different connective tissue structures and leaves the complex interactions of various structures a mystery. This book remedies this shortcoming; it presents the specialty of applied anatomy and addresses the hand's functionality. Featuring illustrations, anatomical drawings, and photographs of anatomy in vivo, this book illuminates the internal, interrelated structures in the hand.

**WHY WALANT?**
- No preoperative testing, intravenous insertion, or monitoring is needed
- It saves patients, hospitals/surgical centers, and physicians time and money
- The patient simply gets up and goes home after the procedure!

**PART 1**
- deals with the anatomy and functional anatomy of the hand

**PART 2**
- approaches the surface anatomy of the forearm, wrist, and hand structures

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**FEATURES**
- Atlas of tumescent local anesthesia distribution anatomy
- Numerous color photographs
- Surgical and instructional videos in the complimentary ebook

**WHY WALANT?**
- No preoperative testing, intravenous insertion, or monitoring is needed
- It saves patients, hospitals/surgical centers, and physicians time and money
- The patient simply gets up and goes home after the procedure!
A practical resource that enables learning complex procedures, putting them into practice, and handling complications should they arise. It is an essential tool for all orthopaedic surgeons who treat shoulder conditions.

**KEY FEATURES**
- The latest trends in patient-specific components, guide systems, and instrument design
- The use of RSA for rotator cuff repair, shoulder arthritis, and acute and complex fractures
- In-depth discussion of techniques to improve deltoid function, avoid impingement, and increase implant longevity
- Clinical pearls on how to recognize and handle complications that occur: instability, infection, scapular notching, component loosening, glenoid and humeral bone loss, and RSA failure

**Encyclopedia of Football Medicine**

**Vol. 1 Emergency Medicine**

**Jonny Gordon**

**Anna Nordstroem**

2017/94 pp./50 illus./hardcover/

Volume 1 instructs on advanced techniques for managing the treatment of serious and life-threatening on-field injuries.

**KEY TOPICS OF VOLUME 1:**
- Initial assessment
- Cardiac arrest and choking
- Medical emergencies
- Head injuries and concussion
- General management

**Encyclopedia of Football Medicine**

**Vol. 2 Injury Diagnosis and Treatment**

**Jan Ekstrand et al.**

2017/122 pp./129 illus./hardcover/

Volume 2 uses a wealth of scientific evidence to introduce football doctors to the specific injury types that may occur and to mechanisms of injury.

**KEY TOPICS OF VOLUME 2:**
- Overview of football injuries
- Managing injuries during competitions
- Mechanisms of muscle injury
- Muscle exams and treatment
- Groin, knee, and ankle injuries
- Overuse injuries

**Encyclopedia of Football Medicine**

**Vol. 3 Protecting the Player**

**Tim Meyer et al.**

2017/200 pp./80 illus./hardcover/

Volume 3 covers a range of multidisciplinary topics that aim to ensure that players can compete safely and maintain peak fitness and performance.

**KEY TOPICS OF VOLUME 3:**
- Nutritional supplements
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- Head injuries and concussion
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