2022 ABOS Required Knowledge Source

1. Diagnosis and Treatment of Osteoporosis: What Orthopaedic Surgeons Need to Know. 
   Matzkin E, DeMaio M, Charles J, Franklin C. 

2021 ABOS Required Knowledge Source

   Clohisy D, Yaszemski M, Lipman J. 

2020 ABOS Required Knowledge Source

1. Managing stress in the orthopaedic family: avoiding burnout, achieving resilience. 
General Principles

1. **Notable Variability in Opioid-prescribing Practices After Common Orthopaedic Procedures.**
   Sophia A Traven, Daniel L Brinton, Shane K Woolf, Lee R Leddy, Michael B Gottschalk, Harris S Slone

2. **Shared Decision-making in Orthopaedic Surgery.**
   Charlie Dee Wilson, Robert A Probe

3. **The Role of Mentoring in the Development of Successful Orthopaedic Surgeons.**
   Mary Mulcahey, Brian Waterman, Robert Hart, Alan Daniels

4. **Social Media Use for Orthopaedic Surgeons.**
   Toufic R Jildeh, Kelechi R Okoroha, S Trent Guthrie, Theodore W Parsons

5. **Vitamin D in Orthopaedics.**
   Elaine Y Tran, Richard L Uhl, Andrew J Rosenbaum

6. **Orthopaedic Surgeon Burnout: Diagnosis, Treatment, and Prevention.**
   Alan H Daniels, J Mason DePasse, Robin N Kamal

7. **Leadership in Orthopaedic Surgery.**

8. **Does the Proportion of Women in Orthopaedic Leadership Roles Reflect the Gender Composition of Specialty Societies?**
   Saxena S, Cannada LK, Weiss JM.

9. **The Role of Emotional Health in Functional Outcomes After Orthopaedic Surgery: Extending the Biopsychosocial Model to Orthopaedics.**
   David C. Ayers, Patricia D. Franklin, David C. Ring
10. **Patient-Reported Outcomes in Orthopaedics.**
   MOTION Group

11. **Osteoporosis: Clinical Evaluation**

12. **Clinical Use of Opportunistic Computed Tomography Screening for Osteoporosis.**
    Anderson P, Polly D, Binkley N, Pickhardt P.


    Whicker E, Williams C, Kirchner G, Khalsa A, Mulcahey M.
General Orthopaedics

1. **A Comparison of Three Diagnostic Tests for Carpal Tunnel Syndrome Using Latent Class Analysis.**
   Fowler J, Cipolli W, Hanson T.

2. **Is Cemented or Cementless Femoral Stem Fixation More Durable in Patients Older Than 75 Years of Age? A Comparison of the Best-performing Stems.**
   Tanzer M, Graves S, Peng A, Shimmin A.

3. **Tibial Shaft Fractures in Children and Adolescents.**
   Raducha J, Swarup I, Schachne J, Cruz A, Fabricant P.

4. **Trends in Deep Vein Thrombosis Prophylaxis and Deep Vein Thrombosis Rates After Total Hip and Knee Arthroplasty.**
   Bawa H, Weick J, Dirschl D, Luu H.

5. **Return to Play After Medial Collateral Ligament Injury.**
   Kim C, Chasse P, Taylor D.

6. **Tumors of the Hand and the Wrist.**
   Strike S, Puhaindran M.

7. **Preoperative Management of Antithrombotics in Arthroplasty.**
   Barlow B, Hannon M, Waldron J.

8. **Popliteal Cysts: A Systematic Review of Nonoperative and Operative Treatment.**
   Van Nest D, Tjoumakaris F, Smith B, Beatty T, Freedman K.

9. **Emerging Options for Biologic Enhancement of Stress Fracture Healing in Athletes.**
   Miller T, Kaeding C, Rodeo S.
10. **Racial Disparities Are Present in the Timing of Radiographic Assessment and Surgical Treatment of Hip Fractures.**

11. **Hip Arthroscopy Volume and Reoperations in a Large Cross-Sectional Population: High Rate of Subsequent Revision Hip Arthroscopy in Young Patients and Total Hip Arthroplasty in Older Patients.**

12. **Complications of Superior Capsule Reconstruction for the Treatment of Functionally Irreparable Rotator Cuff Tears (FIRCTs): A Systematic Review.**

13. **Multimodal Nonopioid Pain Protocol Provides Equivalent Pain Versus Opioid Control Following Meniscus Surgery: A Prospective Randomized Controlled Trial.**

14. **Undergoing an Arthroscopic Procedure Prior to Shoulder Arthroplasty is Associated With Greater Risk of Prosthetic Joint Infection.**

15. **What Is the Quality of Surgical Care for Patients with Hip Fractures at Critical Access Hospitals?**

16. **What Is the Relative Effectiveness of the Various Surgical Treatment Options for Distal Radius Fractures? A Systematic Review and Network Meta-analysis of Randomized Controlled Trials.**

17. **Pinprick and Light Touch Are Adequate to Establish Sensory Dysfunction in Patients with Lumbar Radicular Pain and Disc Herniation.**
18. **Progression of Asymptomatic Contralateral Femur in Patients with Complete Atypical Femoral Fracture, According to Initial Radiographic Findings.**
Lee K, Min B, Bae K, Cho C, Lee S, Kim B.

19. **Tourniquet Use Does Not Affect Functional Outcomes or Pain After Total Knee Arthroplasty: A Prospective, Double-Blinded, Randomized Controlled Trial.**
Goel R, Rondon A, Sydnor K, Bievins K, O’Malley M, Purtill J, Austin M.

20. **The Natural History of Benign Bone Tumors of the Extremities in Asymptomatic Children: A Longitudinal Radiographic Study.**
Adult Reconstruction

1. Why are total knee arthroplasties failing today — has anything changed after 10 years?
   Sharkey PF, Lichstein PM, Shen C, Tokarski AT, Parvizi J.
   J Arthroplasty. 2014 Sep;29(9):1774-1778.

2. The John Insall Award: Morbid obesity independently impacts complications, mortality, and
   resource use after TKA.
   D'Apuzzo M, Novicoff W, Browne J.

   Le D, Goodman S, Maloney W, Huddleston J.


5. Benchmarks of Duration and Magnitude of Opioid Consumption After Total Hip and Knee
   Arthroplasty: A Database Analysis of 69,368 Patients.
   Cook D, Kaskovich S, Pirkle S, Mica M, Shi L, Lee M.

6. Perioperative Use of Gabapentinoids for the Management of Postoperative Acute Pain: A
   Systematic Review and Meta-analysis

7. Tranexamic Acid Reduces the Rate of Periprosthetic Joint Infection After Aseptic Revision
   Arthroplasty.
   Klement M, Padua F, Li W, Detweiler M, Parvizi J.

8. Does Robotic-assisted TKA Result in Better Outcome Scores or Long-Term Survivorship Than
   Conventional TKA? A Randomized, Controlled Trial.
   Kim Y, Yoon S, Park J.
9. **2018 Frank Stinchfield Award: Spinopelvic Hypermobility Is Associated With an Inferior Outcome After THA: Examining the Effect of Spinal Arthrodesis.**

10. **The Mark Coventry, MD, Award: Oral Antibiotics Reduce Reinfection After Two-Stage Exchange: A Multicenter, Randomized Controlled Trial.**

11. **Musculoskeletal Health Literacy is Associated With Outcome and Satisfaction of Total Knee Arthroplasty.**
    Narayanan A, Stoll K, Pratson L, Lin F, Olcott C, Del Gaizo D.

12. **The Effectiveness of Closed- Incision Negative-Pressure Therapy Versus Silver-Impregnated Dressings in Mitigating Surgical Site Complications in High-Risk Patients After Revision Knee Arthroplasty: The PROMISES Randomized Controlled Trial.**

13. **Patient Satisfaction After Total Hip Arthroplasty Is Not Influenced by Reductions in Opioid Prescribing.**

14. **Incidence and Predictive Risk Factors of Postoperative Urinary Retention After Primary Total Knee Arthroplasty.**
    Bracey D, Hegde V, Pollet A, Johnson R, Jennings J, Miner T.

15. **Tranexamic Acid Is Safe in Patients with a History of Coronary Artery Disease Undergoing Total Joint Arthroplasty.**
    Zak S, Tang A, Sharan M, Waren D, Rozell J, Schwarzkopf R.

16. **2019 John Charnley Award: Increased risk of prosthetic joint infection following primary total knee and hip arthroplasty with the use of alternative antibiotics to cefazolin: the value of allergy testing for antibiotic prophylaxis.**
    Wyles C, Hevesi M, Osmon D, Park M, Habermann E, Lewallen D, Berry D, Sierra R.
17. **Rifampin combination therapy in staphylococcal prosthetic joint infections: a randomized controlled trial.**

18. **The 2018 Definition of Periprosthetic Hip and Knee Infection: An Evidence-Based and Validated Criteria.**
Parvizi J, Tan T, Goswami K, Higuera C, Della Valle C, Chen A, Shohat N.

19. **Hip or spine surgery first?: a survey of treatment order for patients with concurrent degenerative hip and spinal disorders.**

20. **The Lawrence D. Dorr Surgical Techniques & Technologies Award: Using Big Heads and Small Acetabular Components With Highly Cross-Linked Polyethylene in Total Hip Arthroplasty: Is It Safe?**
Baker C, Bukowski B, Abdel M, Trousdale R.
Foot and Ankle

1. **Current management options for displaced intra-articular calcaneal fractures: Non-operative, ORIF, minimally invasive reduction and fixation or primary ORIF and subtalar arthrodesis. A contemporary review.**
   Sharr P, Mangupli M, Winson I, Buckley R.

2. **Chronic Disorders of the Peroneal Tendons: Current Concepts Review of the Literature**
   Van Dijk P, Kerkhoffs G, Chiodo C, DiGiovanni C.

3. **Fractures of the Talus: State of the Art.**
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   J Orthop Trauma. 2015 Sep;29(9):385-92.

4. **Evaluation and Significance of Mortise Instability in Supination External Rotation Fibula Fractures: A Review Article.**
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5. **Dynamic Stabilization of Syndesmosis Injuries Reduces Complications and Reoperations as Compared With Screw Fixation: A Meta-analysis of Randomized Controlled Trials.**

6. **Effect of High-Volume Injection, Platelet-Rich Plasma, and Sham Treatment in Chronic Midportion Achilles Tendinopathy: A Randomized Double-Blinded Prospective Study.**

7. **The Ruptured Achilles Tendon Elongates for 6 Months After Surgical Repair Regardless of Early or Late Weightbearing in Combination With Ankle Mobilization: A Randomized Clinical Trial**

8. **Posterior Malleolar Ankle Fractures: An Effort at Improving Outcomes.**
   Mason L, Kaye A, Widnall J, Redfern J, Molloy A.
9. **Peroneal Tendon Abnormalities on Routine Magnetic Resonance Imaging of the Foot and Ankle.**
   O’Neil J, Pedowitz D, Kerbel Y, Codd J, Zoga A, Raikin S.

10. **Improved Reduction of the Tibiofibular Syndesmosis With TightRope Compared With Screw Fixation: Results of a Randomized Controlled Study.**
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11. **Diagnosis of Periprosthetic Infection: Recent Developments**
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12. **Effect of Platelet-Rich Plasma on Nonsurgically Treated Acute Achilles Tendon Ruptures: a Randomized, Double-Blinded Prospective Study.**
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13. **Effectiveness and Safety of Ankle Arthrodesis Versus Arthroplasty: A Prospective Multicenter Study.**

14. **Patient-Reported and Radiographic Outcomes of Joint-Preserving Surgery for Rheumatoid Forefoot Deformities: A Retrospective Case Series with Mean Follow-up of 6 Years.**
    Yano K, Ikari K, Tobimatsu H, Okazaki K.

15. **Risk of Nonunion with Nonselective NSAIDs, COX-2 Inhibitors, and Opioids.**
    George M, Baker J, Leonard C, Mehta S, Miano T, Hennessy S.

16. **Titrating the Amount of Bony Correction in Progressive Collapsing Foot Deformity.**
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17. **Gunshot-Related Injuries to the Foot & Ankle: Review Article.**
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18. Negative-Pressure Wound Therapy in Foot and Ankle Surgery.
   Kunze K, Hamid K, Lee S, Halvorson J, Earhart J, Bohl D.

19. Lesser Toe PIP Joint Resection Versus PIP Joint Fusion: A Randomized Clinical Trial.
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    Approach to Targeted Muscle Reinnervation Use in the Acute Amputation Setting.
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1. **Is intralesional resection suitable for central grade 1 chondrosarcoma: A systematic review and updated meta-analysis.**
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2. **Positron emission tomography/computed tomography for osseous and soft tissue sarcomas: A systematic review of the literature and meta-analysis.**
   Muheremu A, Ma J, Amudong A, Ma Y, Niyazi M, Ou Y, Ma Y.

3. **An Evaluation of PROMIS Health Domains in Sarcoma Patients Compared to the United States Population.**
   Wilke B, Cooper A, Scarborough M, Gibbs C, Spiguel A.

4. **Thromboembolism After Intramedullary Nailing for Metastatic Bone Lesions.**

5. **What are the 5-year survivorship outcomes of compressive endoprosthetic osseointegration fixation of the femur?**
   Monument M, Bernthal N, Bowles A, Jones K, Randall R.

6. **Planning for Bone Excision in Ewing Sarcoma: Post-Chemotherapy MRI More Accurate Than Pre-Chemotherapy MRI Assessment.**

7. **Proximal Tibial Resections and Reconstructions: Clinical Outcome of 225 Patients**
   Mavrogenis A, Pala E, Angelini A, Ferraro A, Ruggieri P.

8. **Use of Imaging Prior to Referral to a Musculoskeletal Oncologist.**
   Miller, B.

9. **Pexidartinib versus placebo for advanced tenosynovial giant cell tumour (ENLIVEN): a randomised phase 3 trial.**
10. What Is the Clinical Importance of Incidental Findings on Staging CT Scans in Patients With Sarcoma?
   Mayo Z, Kennedy S, Gao Y, Miller B.

   Fernandes L, Holm C, Villadsen A, Sorensen M, Zebis M, Petersen M.

12. What Is the Comparative Ability of 18F-FDG PET/CT, 99mTc-MDP Skeletal Scintigraphy, and Whole-body MRI as a Staging Investigation to Detect Skeletal Metastases in Patients with Osteosarcoma and Ewing Sarcoma?
   Aryal A, Kumar V, Shamim S, Gamanagatti S, Khan S.

13. Does the Addition of a Vascularized Fibula Improve the Results of a Massive Bone Allograft Alone for Intercalary Femur Reconstruction of Malignant Bone Tumors in Children?
   Errani C, Alfaro P, Ponz V, Colangeli M, Donati D, Manfrini M.


15. Is Surgical Resection of the Primary Site Associated with an Improved Overall Survival for Patients with Primary Malignant Bone Tumors Who Have Metastatic Disease at Presentation?

16. Does Advanced Imaging Have a Role in Detecting Local Recurrence of Soft-tissue Sarcoma?
   England P, Hong Z, Rhea L, Hirbe A, McDonald D, Cipriano C.

17. Nonmechanical Revision Indications Portend Repeat Limb-Salvage Failure Following Total Femoral Replacement.

18. Tranexamic Acid in Patients With Cancer Undergoing Endoprosthetic Reconstruction: A Retrospective Review.
Haase D, Templeton K, Rosenthal H, Sweeney K.

19. Minimally Invasive Stabilization with or without Ablation for Metastatic Periacetabular Tumors.
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Orthopaedic Sports Medicine

1. **Hip arthroscopy versus best conservative care for the treatment of femoroacetabular impingement syndrome (UK FASHIoN): a multicentre randomised controlled trial.**

2. **Injections Prior to Rotator Cuff Repair Are Associated With Increased Rotator Cuff Revision Rates.**

3. **Predictors and Outcomes of Crossover to Surgery from Physical Therapy for Meniscal Tear and Osteoarthritis: A Randomized Trial Comparing Physical Therapy and Surgery.**

4. **Major complications after distal biceps tendon repairs: retrospective cohort analysis of 970 cases.**

5. **Patellofemoral Arthritis After Lateral Patellar Dislocation: A Matched Population-Based Analysis.**
   Sanders T, Pareek A, Johnson N, Stuart M, Dahm D, Krych A.

6. **Cell Therapy in Orthopaedics: Where Are We in 2019?**
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7. **Meniscus Repair Does Not Result in an Inferior Short-term Outcome Compared With Meniscus Resection: An Analysis of 5,378 Patients With Primary Anterior Cruciate Ligament Reconstruction.**
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9. **Does Distal Clavicle Resection Decrease Pain or Improve Shoulder Function in Patients with Acromioclavicular Joint Arthritis and Rotator Cuff Tears? A Meta-analysis.**
   Wang J, Ma JX, Zhu SW, Jia HB, Ma XL.

10. **Hamstring Autograft versus Patellar Tendon Autograft for ACL Reconstruction: Is There a Difference in Graft Failure Rate? A Meta-analysis of 47,613 Patients.**
    Samuelsen B, Webster K, Johnson N, Hewett T, Krych A.

11. **Anterior Cruciate Ligament Reconstruction Alone Versus With Lateral Extra-articular Tenodesis With Minimum 2-Year Follow-up: A Meta-analysis and Systematic Review of Randomized Controlled Trials.**
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12. **Timing of Anterior Cruciate Ligament Reconstruction and Relationship With Meniscal Tears: A Systematic Review and Meta-analysis.**
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13. **Osteochondroplasty and Labral Repair for the Treatment of Young Adults With Femoroacetabular Impingement: A Randomized Controlled Trial. Femoroacetabular Impingement Randomized Controlled Trial (FIRST) Investigators.**

14. **Hip Arthroscopy Versus Physical Therapy for the Treatment of Symptomatic Acetabular Labral Tears in Patients Older Than 40 Years: A Randomized Controlled Trial.**
    Martin S, Abraham P, Varady N, Nazal M, Conaway W, Quinlan N, Alpaugh K.

15. **Superior Postoperative Stability and Functional Outcomes With Anteromedial Versus Transtibial Technique of Single-Bundle Autologous Hamstring Anterior Cruciate Ligament Reconstruction: A Meta-analysis of Prospective Randomized Controlled Trials.**
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17. **Return to Sport after Pediatric Anterior Cruciate Ligament Reconstruction and its Effect on Subsequent Anterior Cruciate Ligament Injury.**  
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18. **Primary Arthroscopic Stabilization for a First-Time Anterior Dislocation of the Shoulder. Long-Term Follow-up of a Randomized, Double-Blinded Trial.**  
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19. **Prospective Randomized Comparison of Capsular management techniques during hip arthroscopy.**  
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1. **Controversies in Intramedullary Fixation for Intertrochanteric Hip Fractures.**
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2. **Early Weightbearing and Range of Motion Versus Non-Weightbearing and Immobilization After Open Reduction and Internal Fixation of Unstable Ankle Fractures: A Randomized Controlled Trial.**

3. **Risk Factors for Conversion to Total Hip Arthroplasty After Acetabular Fractures Involving the Posterior Wall.**
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4. **Risk of Total Knee Arthroplasty After Operatively Treated Tibial Plateau Fracture: A Matched-Population-Based Cohort Study.**
   Wasserstein D, Henry P, Paterson J, Kreder H, Jenkinson R.

5. **Clinical Practice Guidelines for Pain Management in Acute Musculoskeletal Injury.**
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6. **Long-Term Survival of the Native Hip After a Minimally Displaced, Nonoperatively Treated Acetabular Fracture.**
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7. **Time to Surgery and Patient Mortality in Geriatric Acetabular Fractures.**
   Glogovac G, Toan T, Archdeacon M.

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9. **Operative Versus Nonoperative Treatment of Proximal Humeral Fractures: A Systematic Review, Meta-Analysis, and Comparison of Observational Studies and Randomized Controlled Trials.**

10. **Effect of Surgery vs Functional Bracing on Functional Outcome Among Patients With Closed Displaced Humeral Shaft Fractures: The TISH Randomized Clinical Trial.**
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14. **A Randomized Controlled Trial Comparing rhBMP-2/Absorbable Collagen Sponge Versus Autograft for the Treatment of Tibia Fractures With Critical Size Defects.**
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15. **Posterior Malleolar Fractures: A Critical Analysis Review.**
    Rammelt S, Bartoníček J.
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16. **A prospective cohort study on accuracy of dorsal tangential views to avoid screw penetration with volar plating of distal radius fractures.**
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1. **Operative Repair of Medial Patellofemoral Ligament Injury Versus Knee Brace in Children With an Acute First-Time Traumatic Patellar Dislocation: A Randomized Controlled Trial.**
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2. **Outcomes of Physeal-Sparing ACL Reconstruction with Iliotibial Band Autograft in Skeletally Immature Prepubescent Children.**
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3. **Nonoperative Management of Femoroacetabular Impingement: A Prospective Study.**
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4. **Lack of Benefit of Physical Therapy on Function Following Supracondylar Humeral Fracture: A Randomized Controlled Trial.**
   Schmale G, Mazor S, Mercer L, Bompadre V.

5. **Pediatric Cervical Spine Clearance: A Consensus Statement and Algorithm from the Pediatric Cervical Spine Clearance Working Group.**

6. **The Role of the Orthopaedic Surgeon in the Identification and Management of Nonaccidental Trauma.**
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7. **Pediatric Gartland Type-IV Supracondylar Humeral Fractures Have Substantial Overlap With Flexion-Type Fractures.**
   Mitchell S, Sullivan B, Ho C, Abzug J, Raad M, Sponseller P.

8. **Understanding Skeletal Growth and Predicting Limb-Length Inequality in Pediatric Patients.**
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9. **Rebound Deformity After Growth Modulation in Patients With Coronal Plane Angular Deformities About the Knee: Who Gets It and How Much?**  
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10. **When Should We Wean Bracing for Adolescent Idiopathic Scoliosis?**  
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13. **Flexion-Type Supracondylar Humeral Fractures: Ulnar Nerve Injury Increases Risk of Open Reduction.**  

14. **Selecting the "Touched Vertebra" as the Lowest Instrumented Vertebra in Patients with Lenke Type-1 and 2 Curves: Radiographic Results After a Minimum 5-Year Follow-up.**  

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16. **Current Concepts in Pediatric Septic Arthritis.**  
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17. **Principles of Amputation Surgery, Prosthetics, and Rehabilitation in Children.**  
18. **Hip Arthroscopy for Femoroacetabular Impingement in Adolescents: 10-Year Patient-Reported Outcomes.**
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19. **Four Risk Factors for Arthrofibrosis in Tibial Spine Fractures: A National 10-Site Multicenter Study.**

20. **Does Shorter Time to Treatment of Pediatric Femur Shaft Fractures Impact Clinical Outcomes?**
Shoulder and Elbow

1. **How Satisfied Are Patients with Arthroscopic Bankart Repair? A 2-Year Follow-up on Quality-of-Life Outcome.**

2. **The Timing of Injections Prior to Arthroscopic Rotator Cuff Repair Impacts the Risk of Surgical Site Infection.**
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3. **Neer Award 2018: the effect of preoperative education on opioid consumption in patients undergoing arthroscopic rotator cuff repair: a prospective, randomized clinical trial.**

4. **Instability in Reverse Total Shoulder Arthroplasty.**
   Chae J, Siljander M, Wiater J.

5. **A Prospective Evaluation of Early Postoperative Complications After Distal Biceps Tendon Repairs.**

6. **At a 10-Year Follow-up, Tendon Repair Is Superior to Physiotherapy in the Treatment of Small and Medium-Sized Rotator Cuff Tears.**

7. **Neer Award 2019: Latarjet Procedure vs. Iliac Crest Bone Graft Transfer for Treatment of Anterior Shoulder Instability With Glenoid Bone Loss: A Prospective Randomized Trial.**

8. **Clinical and Structural Outcome 20 Years After Repair of Massive Rotator Cuff Tears.**
9. **Biceps Tenodesis Versus Tenotomy in the Treatment of Lesions of the Long Head of the Biceps Tendon in Patients Undergoing Arthroscopic Shoulder Surgery: A Prospective Double-Blinded Randomized Controlled Trial.**

10. **Early Results of Augmented Anatomic Glenoid Components.**
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11. **Prediction of Nonunion After Nonoperative Treatment of a Proximal Humeral Fracture.**
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12. **Allogeneic Platelet-Rich Plasma Versus Corticosteroid Injection for the Treatment of Rotator Cuff Disease: A Randomized Controlled Trial.**
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13. **Central-peg radiolucency progression of an all-polyethylene glenoid with hybrid fixation in anatomic total shoulder arthroplasty is associated with clinical failure and reoperation.**
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14. **Are there racial differences between patients undergoing surgery for shoulder instability? Data from the Multicenter Orthopaedic Outcomes Network (MOON) Shoulder Instability Group.**
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