Top 10 Papers and Posters in Each Classification

Adult Reconstruction Hip
Adult Reconstruction Knee
Foot and Ankle
Hand and Wrist
Pediatrics
Practice Management/Rehab
Shoulder and Elbow
Spine
Sports Medicine/Arthroscopy
Trauma
Tumor and Metabolic Disease
Top 10 Papers and Posters in Adult Reconstruction Hip

**Top 10 AR Hip Papers:**

**Paper 166:** Hypoalbuminemia Predicts Joint Infection, Pneumonia, and Readmission After Total Joint Arthroplasty

**Paper 172:** Which Hospital and Clinical Factors Drive 30-Day Readmission after Total Hip Arthroplasty?

**Paper 406:** A Multi-Center, Prospective, Randomized Study of Outpatient versus Inpatient Total Hip Arthroplasty

**Paper 407:** Same Day Total Hip Arthroplasty Performed at an Ambulatory Surgical Center: 90-Day Complication Rate on 549 Patients

**Paper 413:** Are All Cemented Stems the Same?

**Paper 416:** Direct Anterior Approach Does Not Reduce Dislocation Risk

**Paper 419:** Muscle Biomarkers are Not an Objective Surrogate Measure of Surgical Invasiveness after Contemporary THA

**Paper 600:** Are Patient-Reported Outcomes Different After Anterior Versus Posterior Approach to Total Hip Arthroplasty?

**Paper 904:** Screening Protocol and Incidence of Adverse Reaction to Metal Debris: A Systematic Review and Meta-Analysis

**Paper 912:** Discharge Trends in Medicare Patients Undergoing Primary Total Hip and Total Knee Arthroplasties
Top 10 AR Hip Posters:

P022: Decreased Osteogenic Activity of Stem Cells in Patients with Corticosteroid Induced Osteonecrosis

P023: Normal Morphology Precludes the Development of Hip Osteoarthritis - Analysis of a Longitudinal Population Cohort

P029: Distal Extension of the Direct Anterior Approach to the Hip - A Cadaveric Feasibility Study

P034: Total Hip Arthroplasty Outcomes Directly Associated with Spine Disability

P037: In-Hospital Mortality in Patients with Periprosthetic Joint Infection

P038: Culture Negative Periprosthetic Joint Infection: An Update on What to Expect

P047: Using the Circle Theorem to Estimate Acetabular Version from a Single Antero-Posterior Hip Radiograph

P048: Resource Utilization and Medicare Reimbursement for Conversion and Primary Total Hip Arthroplasty

P049: Effect of Smoking on Postoperative Complications after Total Hip Arthroplasty: A Propensity Score Matched Analysis

P050: Anatomic Hip Center Decreases 20-Year Acetabular Component Loosening in Cemented Crowe-II THAs
Top 10 Papers and Posters in Adult Reconstruction Knee

Top 10 AR Knee Papers:

Paper 062: Is Synovectomy Necessary in Total Knee Arthroplasty with Rheumatoid Arthritis?

Paper 074: Thick or Thin? Patellar Thickness: The Influence on Motion and Complications after Total Knee Arthroplasty

Paper 226: Smoking Increases the Risk of Surgical Site Infection Following Total Knee Arthroplasty

Paper 227: Routine Workup of Patients with Postoperative Pyrexia following Total Joint Arthroplasty is Not Necessary

Paper 230: Does Timing of Previous Intra-Articular Steroid Injection Affect Postoperative TKA Infection Rates?

Paper 233: D-dimer: A Potential Serum Biomarker for Diagnosis of Periprosthetic Joint Infection

Paper 236: Oral Antibiotics Reduce Reinfection Following 2-Stage Exchange: A Multi-Center, Randomized Controlled Trial

Paper 305: Which Hospital and Clinical Factors Drive 30-Day Readmission after Total Knee Arthroplasty?

Paper 308: Inpatient Falls after Total Knee Arthroplasty: Outcomes and National Trends

Paper 310: Complication Rates after Total Hip and Knee Arthroplasty in Patients with Hepatitis C Compared to Matched Controls


Top 10 AR Knee Posters:

P106: Hip and Knee Arthroplasty in a Safety Net Hospital: Not So Safe?

P108: Inflammation and the Discrepancy Between Radiography and Pain in Patients with Knee Osteoarthritis

P110: Mid-Term Results of Total Hip and Total Knee Arthroplasty in Patients with HIV

P111: Muscular Architecture of the Posterior Knee and the Basic Science Implications

P113: Impact of Age on Patient-Reported Outcome Measures in Total Knee Arthroplasty (TKA)

P114: Do We Really Need Routine Inpatient Predischarge Radiographs After Simple Primary Total Knee Replacement?

P115: The Value of Using a Skin Knife in Orthopaedic Surgery - Myth or Necessity?

P180: Regional Intraosseous Delivery of Prophylactic Antibiotics Effective in a Mouse Model of Total Knee Arthroplasty

P190: Effectiveness of Liposomal versus Plain Bupivacaine in Total Knee Arthroplasty

P191: The Effect of Age on Postoperative Outcomes following Total Knee Arthroplasty
Top 10 Papers and Posters in Foot and Ankle

Top 10 Foot and Ankle Papers:

Paper 257: Preoperative Narcotic and Alcohol Use are Risk Factors for Complication in Ankle and Hindfoot Reconstruction

Paper 261: Psychosocial Risk Factors of Postoperative Pain in Ankle and Hindfoot Reconstruction

Paper 264: Cost-Effectiveness of Routine Pharmacologic DVT Prophylaxis Following Select Foot and Ankle Surgeries

Paper 270: Intramedullary Nailing versus External Ring Fixation for Tibiotalocalcaneal Arthrodesis in Charcot Arthropathy

Paper 744: Does Physical Therapy Predict Outcomes after Ankle Fractures and Ankle Fracture Dislocations?

Paper 746: Open Ankle Fractures: What Predicts Infection?

Paper 789: The Prevalence, Risk Factors, and Natural History of Unexplained Pain After Hallux Valgus Corrective Surgery

Paper 791: Intermediate-Term Results Of Metatarsal Dorsiflexion Osteotomy As Salvage Procedure for Advanced Hallux Rigidus

Paper 794: Abnormal Metatarsal Parabola is Associated with Progressive 2nd Metatarsophalangeal Joint Plantar Plate Injury

Paper 795: Results of the Dorsal Approach Plantar Plate Repair with a Weil Metatarsal Osteotomy: A Two-Year Follow-Up Study
Top 10 Foot and Ankle Posters:

P206: Tranexamic Acid Reduces Postoperative Morbidity in Patients Undergoing Foot and Ankle Surgery

P207: Orthopaedic Foot and Ankle Surgeons’ Approach to Elective Surgery in the Smoking Patient Population: A Survey Study

P209: Short-Term Outcomes and Influencing Factors After Ankle Fracture Surgery

P210: Increasing Stiffness of Syndesmosis Causes Abnormal Talar Displacement and Joint Contact in Cadaveric Model

P214: Fixed Bearing Versus Mobile Bearing Total Ankle Replacement: A Comparative Study in 179 Patients

P215: Outcomes and Complications of Four Total Ankle Replacement: A Comparative Study

P216: Comparison Outcomes of Total Ankle Replacement With and Without Achilles Tendon Lengthening

P219: Comparison Outcomes and Complications of Patients Who Underwent Haglund's Deformity Correction

P221: Driving and Emergency Braking May Be Impaired after Foot Arthrodesis: Conclusions after a Case Series

P225: The Basset Ligament is NOT Abnormal
Top 10 Papers and Posters in Hand and Wrist

**Top 10 Hand and Wrist Papers:**

**Paper 106:** Effects of Pain-Coping Strategies on Joint Stiffness and Functional Outcomes in Patients with Hand Fractures

**Paper 113:** Nonoperative Treatment for Displaced Intraarticular Distal Radius Fractures in 'Low Demand' Elderly Patients

**Paper 117:** Is Distal Radius Malunion Truly Asymptomatic in the Older Patient?

**Paper 118:** Ulnar Shortening vs. Distal Radius Osteotomy for Ulnar Impaction after Distal Radius Malunion

**Paper 278:** Outcome of Nerve Transfer versus Nerve Graft in Proximal Ulnar Nerve Injuries to Restore Intrinsic Hand Function

**Paper 279:** Matched-Diameter Decellular Allograft vs. Cabled Sural Nerve Autograft Reconstruction in a Rat Nerve Defect Model

**Paper 280:** Do Surgeons Agree on What Constitutes Tension at Nerve Repair Sites?

**Paper 489:** Proximal Interphalangeal Joint Arthroplasty for Inflammatory Arthritis: An Implant Comparison Analysis

**Paper 490:** Outcomes of a Cementless Thumb Basal Joint Hemiarthroplasty for Treatment of Trapeziometacarpal Osteoarthritis

**Paper 491:** Reconstruction of Annular Pulleys of the Hand Flexor Tendon Sheath Using Flexor Digitorum Superficialis Tendon
Top 10 Hand and Wrist Posters:

P226: Outcome Assessment after Aptis Distal Radioulnar Joint (DRUJ) Implant Arthroplasty

P227: Optimal Position for Fusion of the Proximal Interphalangeal Joint of the Border Digits

P228: Which Immobilization is Better for Distal Radius Fracture? A Prospective Randomized Study

P229: Novel Sigmoid Notch Radiographic View: Evaluating the Articular Surface of the DRUJ and Preventing Screw Breach

P230: Deformity and Disability in Rheumatoid Hand Progress Despite Disease Control: 10-Year Follow Up

P231: Adherence to AAOS and ARHQ Quality Guidelines is Not Required for Successful Treatment of Carpal Tunnel Syndrome

P232: Do Distal Radius Fractures Shift After External Fixation?

P238: Baseline Characteristics of the Median Nerve on Ultrasound Examination

P239: Vascularized Bone Grafting in Scaphoid Nonunion: A Review of Patient-Centered Outcomes

P240: The Arkansas Hand Trauma Telemedicine System: A Review of the First Year
**Top 10 Pediatric Papers**:

**Paper 093**: Preventing DJK by Applying the Stable Sagittal Vertebra Concept to Selective Thoracic Fusion in AIS

**Paper 095**: More Than Just Early Discharge: Improving the Value and Quality of Care Post Spinal Fusion for Idiopathic Scoliosis

**Paper 242**: Flexible Intramedullary Nails for Femur Fractures in Pediatric Patients Heavier than 100 Pounds

**Paper 244**: The Lost Art of Fracture Reduction: Development and Validation of a Distal Radius Fracture Reduction Casting Model

**Paper 250**: The Effects of Periacetabular Osteotomy-Induced Changes in Joint Mechanics on Short-Term Patient Outcomes

**Paper 254**: Does Perfusion MRI Following Closed Reduction of DDH Reduce the Incidence of Avascular Necrosis?

**Paper 798**: Mobilization of a Congenital Radio-Ulnar Synostosis with a Free Vascularized Fascio-Fat Graft

**Paper 801**: Improving Bone Healing in Neurofibromatosis: A Study in Mice

**Paper 808**: The Association Between Tibia-Femur Length Ratio and Osteoarthritis

**Paper 809**: Reliability of a Modified Complication Classification System in Pediatric Orthopaedic Patients
Top 10 Pediatrics Posters:

P241: Perioperative and Delayed Major Complications Following Surgical Correction of AIS in 3,530 Patients

P243: Obesity Results in Larger Curves and Worse Surgical Outcomes in Adolescent Idiopathic Scoliosis

P245: 3D-MRI Analyses of Femoral Head Sphericity in Patients with Developmental Dysplasia of the Hip Under Two Years Old

P246: Correlation Between Hip Arthroscopy and Magnetic Resonance Imaging (MRI) in Children with Perthes Disease

P247: Reliability and Validity of the Duncan-Ely Test for Assessing Rectus Femoris Spasticity in Cerebral Palsy

P250: Effect of Tunnel Angle and Reamer Size on Physeal Defect in Transphyseal Anterior Cruciate Ligament Reconstruction

P251: Pavlik Method Failure Rises Over Age Three Months and in Severe Hip Types in Developmental Hip Dysplasia

P252: Vascular Examination Predicts Functional Outcomes in Supracondylar Humerus Fractures: A Prospective Study

P254: Patients' Perceptions of Breast Asymmetry Improve after Spinal Fusion for Adolescent Idiopathic Scoliosis

P258: Adolescents Maintain Hip Strength and Function Five Years Following a Ganz Periacetabular Osteotomy
Top 10 Papers and Posters in Practice Management/Rehab

Top 10 Practice Management/Rehab Papers:

Paper 181: Incorporating Hip Fracture Hemiarthroplasty into a Bundled Payment System for TJA is Not Economically Viable

Paper 182: Impact of Medicaid Expansion on Academic Practice Management in Elective Orthopaedics

Paper 331: Incidence of Unplanned Admission from an Outpatient Orthopaedic Surgery Center

Paper 334: Medicare Hospital Acquired Conditions Policy: A Problem of Non-Payment After Total Joint Arthroplasty

Paper 339: 3-Dimensional Visual Aids on Patient Satisfaction in Orthopaedic Consent: A Randomized Controlled Trial

Paper 343: The Silent Money Pit - The Cost of Poorly Managed Central Supply

Paper 856: Does Admission to Medicine or Orthopaedics Impact a Geriatric Hip Patients' Hospital Length of Stay?

Paper 861: Kidney Injury After Antibiotic Cement Spacer Implantation for Prosthetic Joint Infection

Paper 865: Physician-Owned Hospitals: Are the ACA Restrictions Warranted in 2015?

Paper 868: Analyses of 22,833 Orthopaedic Surgeons: Scores from Two Major Physician-Rating Websites
Top 10 Practice Management/Rehab Posters:


P262: End Tidal Carbon Dioxide (ETCO2) Predicts Pulmonary Embolism in Postoperative Orthopaedic Patients

P263: Integrating Musculoskeletal Education and Patient Care at Medical Student-Run Free Clinics

P264: Large Disparities in Industry Payments to Orthopaedic Surgeons Seen in Sunshine Act Data

P265: Falls Among Hospitalized Orthopaedic Patients: A Prospective Case-Control Study

P266: Alignment of Venous Thromboembolism Prophylaxis Guidelines: Impact on Surgeon Prescribing for Knee Arthroplasty

P269: What is it that Orthopaedics Residents Do All Day?

P270: A 20-Year Retrospective Review of the Infection and Quality Control of a Hospital-Based Allogenic Bone Bank

P275: Bisphosphonates Reduced the Risk of Total Knee Arthroplasty in Patients with Osteoarthritis

P276: A Validation Study of Patient-Reported Outcome Measures for Patients with Upper Extremity Morbidity
Top 10 Shoulder and Elbow Papers:

Paper 081: Arthroscopic Capsular Release versus Manipulation under Anesthesia in the Management of Adhesive Capsulitis

Paper 287: Reverse Total Shoulder Arthroplasty Outcomes With and Without Repair of the Subscapularis

Paper 292: Prediction of Scapular Notching using 3D CT Simulation Software and Video-Based Motion Analysis

Paper 293: Comparison of Outcomes with Reverse Total Shoulder Arthroplasty in Patients With and Without Scapular Notching

Paper 346: Long-Term MRI Findings and Functional Outcome After Arthroscopic Rotator Cuff Repair: Mean 8-Years Follow-Up Study

Paper 359: Superior Capsule Reconstruction for Irreparable Rotator Cuff Tear: A Prospective Study in 100 Consecutive Patients

Paper 646: Resilience Correlates to Outcomes after Total Shoulder Arthroplasty

Paper 871: Revision Rotator Cuff Repair with Mesenchymal Stem Cells Decreases Subsequent Revision Risk

Paper 881: Reduction of Lipid Accumulation and Fibrosis after Rotator Cuff Repair

Paper 882: Effect of Hypercholesterolemia on Fatty Infiltration and Healing in a Chronic Rotator Cuff Tear Model of Rabbit
Top 10 Shoulder and Elbow Posters:

P283: Surface Glenoid Area in Latarjet-Patte and Congruent Arc in Virtual Model

P292: Interactions between Reverse Shoulder Arthroplasty Implant Variables and their Effects on Muscle and Joint Load

P293: Is There an Association Between the Critical Shoulder Angle and Clinical Outcome after Rotator Cuff Repair?

P294: Comparison of 3D Scapular Glenohumeral Kinematics of Symptomatic and Asymptomatic Rotator Cuff Tears

P309: Reverse Total Shoulder Replacement in Patients with Weight-bearing Shoulders on Wheelchair or Walking Aids

P315: Pain Control after Total and Reverse Shoulder Arthroplasty: Interscalene Block vs. Liposomal Bupivacaine

P316: General or Regional Anesthesia for Total Shoulder Arthroplasty: A Comparison of Perioperative Outcomes

P317: Cardiovascular Complication Following Shoulder Arthroplasty: Incidence, Associated Factors, and Mortality

P325: Shoulder Arthroplasty for Locked Anterior Dislocation of the Shoulder

P332: Modification of the Walch Classification: Defining New Types of Glenoid Pathology in Advanced Osteoarthritis
Top 10 Papers and Posters in Spine

Top 10 Spine Papers:

Paper 053: A Novel Index for Quantifying the Surgical Risk for Patients with Cervical Spine Disorders

Paper 212: Prospective Multicenter Assessment of Intra- and Perioperative Complication Rates Associated with ASD Surgery

Paper 213: Effect of Complications on the Patient-Reported Outcomes after Elective Surgery for Lumbar Degenerative Disease

Paper 214: Extensive Corrective Fixation Surgeries for Adult Spinal Deformity Improve Gait Posture and Gait Ability

Paper 215: Shilla Growing Rods with Greater than Five Years of Follow Up: Curve and Implant Characteristics

Paper 216: Drop Foot Due to Lumbar Degenerative Disease: Surgical Outcome and Prognostic Factors

Paper 218: Incidence of Complications After Therapeutic Anticoagulation in the Spine Trauma Patient

Paper 224: Radiographic Variability Among Scheuermann's Kyphosis Patients: Appreciating Differences of the Deformity

Paper 556: Do Epidural Injections Prior to Lumbar Fusions Affect Postoperative Infection and Intraoperative Durotomy Rates?

Paper 623: Pelvic Incidence: An Anatomic Investigation of 880 Cadaveric Specimens
**Top 10 Spine Posters:**

**P344:** Unilateral versus Bilateral Instrumentation in Transforaminal Lumbar Interbody Fusion: A Meta-Analysis

**P362:** Sagittal Spinal Alignment and Balance in Diffuse Idiopathic Skeletal Hyperostosis: A Population based Cohort Study

**P365:** Super Obesity (BMI 50kg/m2) and Complications after Posterior Lumbar Spine Fusion

**P367:** Validation of the Substantially Touched Vertebra as the LIV in Thoracic Major Curves with AR Lumbar Modifiers

**P377:** Does Transforaminal Lumbar Interbody Fusion Protect Against Early Pedicle Screw Loosening?

**P385:** Is the SRS Membership Accurately Reporting Data?: A Comparison of the SRS and NSQIP Databases

**P387:** The American College of Surgeons Risk Model Poorly Predicts Outcomes after Anterior Lumbar Surgery

**P391:** Novel Index to Quantify the Surgical Risk in Adult Spinal Deformity: 10,912 Patients from National Inpatient Sample

**P392:** Cost per Quality Adjusted Life Years Gained of Degenerative Lumbar Spine Surgery in Elderly Patients

**P393:** Increased Periostin Expression is Associated with Hypertrophy of Ligamentum Flavum in Lumbar Spinal Stenosis
Top 10 Papers and Posters in Sports Medicine/Arthroscopy

Top 10 Sports Medicine/Arthroscopy Papers:

Paper 016: What is Platelet-Rich Plasma (PRP) Really Doing to Tendon Fibroblasts?

Paper 029: Stem Cell Mobilization and Changes in Articular Cartilage Morphology following Anterior Cruciate Ligament Rupture

Paper 323: The Natural History of Primary Anterior Glenohumeral Joint Dislocation in Adolescent Patients

Paper 365: Immediate Weight Bearing vs. Protected Weight Bearing Following Meniscal Repair Greater than 5 Years Post Surgery

Paper 370: Allogeneic Mesenchymal Stem Cells are Safe and Stimulate Cartilage Repair upon Co-Implantation with Chondrons

Paper 421: A Five-Year Prospective Randomized Study of Anatomic Single vs. Double Bundle ACL Reconstruction

Paper 433: Randomized Clinical Evaluation of Anterior Cruciate Ligament Reconstruction Grafts

Paper 713: Interposition Porcine Dermal Matrix Xenografts: An Alternative to Traditional Treatment of Massive Cuff Tears

Paper 776: The Bereiter Trochleoplasty: Results and Outcomes of a 12-Year Series

Paper 850: Comparison of Osteochondral Autografts and Allografts for Treatment of Talar Osteochondral Lesions
Top 10 Sports Medicine/Arthroscopy Posters:

P419: Elbow Arthroscopy for the Treatment of Rheumatoid Arthritis: Functional Outcomes and Complications

P420: The Cost-Effectiveness of Anterior Cruciate Ligament Reconstruction in Competitive Athletes

P425: Analysis of 2,019 ACL Reconstruction Revisions from a Community-Based Registry

P430: Anterior Cruciate Ligament Graft Metabolic Activity Assessed by PET-MRI

P434: Increased Risk of Second Anterior Cruciate Ligament Injury for Female Soccer Players

P435: A Randomized Controlled Trial with 16-Year Follow Up After Anterior Cruciate Ligament Reconstruction

P439: Periarticular Injection Versus Femoral Nerve Block for Pain Control After ACL Reconstruction

P441: Donor Age Does Not Effect Clinical Outcomes of Allograft Anterior Cruciate Ligament Reconstruction

P442: Increased Risk of ACLR Revision with Soft Tissue Allograft: Time and Graft Processing Make a Difference

P456: A Safe Surgical Technique Performed for Thoracic Outlet Syndrome in Athletes
Top 10 Papers and Posters in Trauma

**Top 10 Trauma Papers:**

**Paper 033:** Combined Randomized and Observational Study of Surgery for Type B Ankle Fracture Treatment (CROSSBAT)

**Paper 035:** Weight Bearing After Open Reduction and Internal Fixation of Ankle Fractures

**Paper 124:** A Predictive Model of Tibial Shaft Fracture Nonunion at the Time of Definitive Fixation

**Paper 125:** Low Intensity Pulsed Ultrasound in Acute Tibial Shaft Fractures Treated with IM Nails: The Results of the TRUST Trial

**Paper 206:** Comparing Acute with Delayed Total Hip Arthroplasty for Medicare Patients with Acetabular Fractures

**Paper 443:** Low Dose CT Scanogram for Measurement of Femoral Version

**Paper 447:** The Impact of Time to Surgery for Polytraumatic Femur Fractures on In-Hospital Morbidity and Mortality

**Paper 448:** Is it Safe to Operate on Therapeutically Anticoagulated Hip Fractures?

**Paper 550:** A Prospective Randomized Trial of Non-Operative Versus Operative Management of Olecranon Fractures in the Elderly

**Paper 686:** Percutaneous Transplantation of Bone Marrow Granulocytes Precursors Cells for Infected Tibial Non-Union
Top 10 Trauma Posters:

P476: Management of Severe Open Tibial Fractures Using Circular Hexapod Frames

P478: A Comparison of Femur Lengthening with a Magnetic Internal Lengthening Nail versus Lengthening Over a Nail

P512: Experimental Modification of Masquelet's Technique by Use of Conditioned Media Produced by Mesenchymal Stem Cells

P514: Fatigue Strength of the Proximal Tibia Donor Site after Extensive Bone Grafting

P515: Is a Postoperative Chest X-ray Needed After Fixation of Clavicle Fractures in Trauma Patients?

P517: Topical Vancomycin Powder Decreases the Incidence of S. aureus in Operatively Treated Fractures

P519: An Osseointegrated Percutaneous Prosthetic System for Treatment of Transfemoral Amputees: A Prospective Follow Up

P520: Efficacy of Electrical Stimulators for Bone Healing: A Meta-Analysis of Sham-Controlled Randomized Trials

P522: Do We Really Understand the Patient Populations in National Database When Doing Trauma Research?

P523: Does Radiation Therapy Decrease Heterotopic Ossification After Posterior Approach for Acetabular Fracture?
Top 10 Papers *and* Posters in Tumor/Metabolic Disease

**Top 10 Tumor/Metabolic Disease Papers:**

- **Paper 139:** Risk Factors for Acute Postoperative Mortality following Surgery for Spinal Metastases

- **Paper 144:** Infection After Surgical Resection for Pelvic Bone Tumors: An Analysis of 274 Cases from a Single Institution

- **Paper 146:** Doxycycline Attachment to Bone Allograft Protects Against Bacterial Colonization and Biofilm Formation

- **Paper 511:** The Variability in Surgical Margin Reporting in Limb Salvage Surgery for Sarcoma

- **Paper 513:** Multi-institutional Study of a New Limb Salvage Surgery Using Acridine Orange in Patients with Bone Sarcomas

- **Paper 514:** Efficacy of Fluorescence-Guided Surgery on Primary Human Osteosarcoma

- **Paper 518:** Commercial Activity Monitor for Assessing Free-Living Pediatric Osseous Malignancy Limb Salvage

- **Paper 520:** Resection of Bone Sarcoma using 3D Printed Guides: Improving Accuracy by Accounting for Soft Tissue

- **Paper 521:** Augmented-Reality Assistance in Bone Tumor Surgery

- **Paper 522:** Influence of Fixation Method and External Beam Irradiation on the Pathway and Efficacy of Fracture Healing
Top 10 Tumor/Metabolic Posters:

P541: Ten Years of Cases from Recently Trained Tumor Fellows: An Analysis of the ABOS Part II Database

P542: Joint-Preserving Reconstruction of Osteosarcoma with Tumor-Bearing Bone Treated by Liquid Nitrogen

P543: Minimally Invasive Surgery Using a Hydroxyapatite Cannulated Pin for Simple Bone Cysts

P544: Usefulness of Increased Fluorodeoxyglucose Uptake for Detecting Local Recurrence in Osteosarcoma

P545: Bone Bank, Allobone Graft, Bone Bank Processing

P546: Symptomatic Small Schwannoma Is A Risk Factor For Postoperative Neurological Deficits: Retrospective Cohort Study

P548: A Prospective Surgical Treatment Protocol of Pathological Proximal Femur Fractures

P549: Prognostic Factors and Outcomes of Dedifferentiated Chondrosarcoma - A Single Institution Experience

P551: Outcomes of Distal Femur Replacement with or without Patellar Resurfacing After Resection of the Distal Femur

P555: Tumor Recurrence After the Use of Frozen Tumor-Bearing Autograft During Total En Bloc Spondylectomy