

Scientific Poster #1

Category: Pediatrics

Surgically Treated Tibial Tubercle Fractures in Adolescents

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Scientific Poster #2

Category: Pediatrics

Unplanned Return to the Emergency Room after Treatment in a Busy Fracture Clinic

Jeffrey R. Sawyer, MD¹ (7-Medtronic; Smith & Nephew; Wright Medical Technology, Inc.); Conrad Blake Ivie, MD¹ (n); R. Jason Schroeder, PhD² (n); Kris Wheeler, MD¹ (n); James H. Beaty, MD¹ (7-DePuy, A Johnson & Johnson Company, Synthes); Derek M. Kelly, MD¹ (); William C. Warner, Jr., MD¹ (3-Saunders Mosby Elsevier for publication of Campbell's Operative textbook; 7-DePuy, A Johnson & Johnson Company, Smith & Nephew, Synthes, Wright Medical Technology, Inc.); S. Terry Canale, MD¹ (7-DePuy, A Johnson & Johnson Company, Smith & Nephew, Synthes, Wright Medical Technology, Inc.)*

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Scientific Poster #3

Category: Pediatrics

Does HA/PLLA Implants Relieve the Infant Patient Sustained Distal Humeral Fracture and the Family of the Troubles Related to the Secondary Operation of Implant Extraction?

(Non-U.S. research conducted within guidelines of my country)

Naoya Takada (n);

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Scientific Poster #4

Category: Pediatrics

Postnatal Growth of the Clavicle: Birth to Eighteen Years of Age

Molly McGraw, BS (n); Charles T. Mehlman, DO (n); Christopher Lindsell, PhD (n); Cassie L. Kirby, BA (n);

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Scientific Poster #5

Category: Pediatrics

Complications Associated with Pelvic Fractures in Children: A Review of the National Trauma Data Bank

Amir Matityahu, MD (n); Meir Marmor, MD (n); Josh Elson (n); Saam Morshed, MD (n);

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Scientific Poster #6

Category: Pediatrics

Analysis of 356 Consecutive Operative Pediatric Supracondylar Humeral Fractures

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Scientific Poster #7

Category: Injury Prevention

Does Time of Day of Hospital Arrival Affect Mortality following Trauma?

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Scientific Poster #8

Category: Injury Prevention

Does Sleep Deprivation Impair Orthopaedic Trauma Surgeons Cognitive and Psychomotor Performance?

Michael J. O'Brien, MD (7-AO North America, Orthopaedic Research and Education Foundation); **Robert V. O'Toole, MD** (5A, 7-Synthes; 7-Smith & Nephew, Stryker, AO, Wyeth); **Mary Zadnik Newell OTR/L, Med (*)**; **Jason W. Nascone, MD** (5A, 7-Synthes; 7-Smith & Nephew, Stryker); **Marcus F. Sciadini, MD** (4, 5A, 7, 8-Stryker; 7-Smith & Nephew); **Andrew N. Pollak, MD** (4, 5A, 7-KCI; 5A-Regenisys Orthopaedics; 7-Synthes, Stryker, Smith & Nephew, Wyeth, AO, KCI); **Clifford H. Turen, MD** (4, 5A, 7-Synthes; 7-Smith & Nephew, Stryker); **W. Andrew Eglseder, MD** (n)

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Scientific Poster #9

Category: Pelvis

Quantification of the Upper and Second Sacral Segment Safe Zones in Normal and Dysmorphic Sacra

Michael J. Gardner, MD¹ (5A-Synthes, Expanding Orthopedics; 7-AO, Synthes, Smith & Nephew); **Saam Morshed, MD²** (n); **Sean E. Nork, MD²** (7-AO, Synthes, Smith & Nephew, Stryker, Zimmer); **William M. Ricci, MD³** (3, 4, 5A, 7-Smith & Nephew; 4, 7-AO, 4, 5A-Wright Medical Technology, Inc.; 5A, 7-Synthes); **Milton L. Chip Routt, Jr., MD²** (n);

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Scientific Poster #10

Category: Pelvis

Transiliac-Transsacral Screws for Durable Posterior Pelvic Stabilization

Michael J. Gardner, MD¹ (5A-Synthes, Expanding Orthopedics; 7-AO, Synthes, Smith & Nephew); Milton L. Chip Routt, Jr., MD² (n);

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Scientific Poster #11

Category: Pelvis

The Value of Postoperative Computer Tomographic Imaging in Acetabular Fractures

Gillian Bayley, BA (n); Allan Liew, MD (n); Wade Gofton, MD (n); Steve Papp, MD (n); University of Ottawa, Ottawa, Ontario, Canada;

Scientific Poster #12

Category: Pelvis

Does Epidural Anesthesia Improve Outcomes of Acetabular Fracture Surgery?

Joseph E. Strauss, DO (n); Robert V. O'Toole, MD (5A, 7-Synthes; 7-Smith & Nephew, Stryker, AO, Wyeth); Andrew N. Pollak, MD (4, 5A, 7-KCI; 5A-Regenisys Orthopaedics; 7-Synthes, Stryker, Smith & Nephew, Wyeth, AO, KCI);

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Scientific Poster #13

Category: Pelvis

Outcomes Following Surgically Treated Displaced Pelvic Ring Injuries

(Non-U.S. research conducted within guidelines of my country)

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Scientific Poster #14

Category: Pelvis

Acute Minimally Invasive Definitive Stabilization of Pelvic Ring Fractures in Polytrauma Patients: A Safe Alternative

(Non-U.S. research conducted within guidelines of my country)

Zsolt J. Balogh, MD (5A-The 3rd Hospital of Hebei Medical University); Natalie Enninghorst, MD (5A -The 3rd Hospital of Hebei Medical University); Laszlo Toth, MD (5A -The 3rd Hospital of Hebei Medical University); Kate L. King, RN (5A -The 3rd Hospital of Hebei Medical University); University of Newcastle, John Hunter Hospital, Newcastle, NSW, AUSTRALIA

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Scientific Poster #15

Category: Pelvis

The Application of Self-Designed Computer-Assisted Thermoplastic Membrane Location System for Screw Fixation of Sacroiliac Joint - Clinical Research

(Non-U.S. research conducted within guidelines of my country)

Jinshe Pan, MD (n); Zhanle Zheng, MD (n); Ying-Ze Zhang, MD (7-Hebei Orthopaedic Hospital (The 3rd Hospital of Hebei Medical University)); Yan-ling Su, MD (7-Hebei Orthopaedic Hospital (The 3rd Hospital of Hebei Medical University));

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Scientific Poster #16

Category: Pelvis

Mapping the Columns of the Acetabulum Implications for Percutaneous Fixation

Abdulsalam Shahulhameed¹ (n); Craig S. Roberts, MD¹ (n); Christopher L. Pomeroy, BS¹ (n); Robert D. Acland, MD¹ (n); Peter V. Giannoudis, MD²;

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Scientific Poster #17

Category: Pelvis

Incidence of the Aberrant Obturator Artery (AOA) in the Adult Population as Determined by 64 Slice Contrast Enhanced Computed Tomography

Jay A. Requarth, MD (n); Joseph A. Veneziano, MD (); Lawrence X. Webb, MD (7-FOT);*

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Scientific Poster #18

Category: Pelvis

Trans-Sacral Screw Fixation of Stable Zone 2 Sacral Fractures

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Scientific Poster #19

Category: Pelvis

Gunshot Wounds to the Acetabulum: Pattern, Complications and Management

Soheil Najibi, MD¹ (n); Joel M. Matta, MD¹ (5-DePuy, Stryker, OSI); Paul G. Dougherty, MD² (n); Moritz Tannast, MD¹ (7-Swiss National Science Foundation);

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Scientific Poster #20

Category: Hip & Femur

Failure of Proximal Femoral Locking Compression Plate: A Case Series

Philip J. Glassner, MD (n); Nirmal Tejwani, MD

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Scientific Poster #21

Category: Hip & Femur

Assessment of Vascularity of the Femoral Head Using Gadolinium (Gd-DTPA) Enhanced Magnetic Resonance Imaging

Sreevathsa Boraiah, MD¹ (7-AONA; 5-DePuy, Biomet); Jonathan Dyke, MD² (n); Carolyn Hettirch, MD¹ (n); Robert J. Parker, BS¹ (n); Anna N. Miller, MD¹ (7-Synthes); David L. Helfet, MD¹ (7, 8-Synthes); Dean G. Lorch, MD¹ (n);

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Scientific Poster #22

Category: Hip & Femur

Is Distal Free-Hand Interlocking of Intramedullary Nails a Difficult and Time Consuming Technique?

Robert Ostrum, MD (4, 5A-DePuy; 5A-Biomet; 7-Synthes);

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Scientific Poster #23

Category: Hip & Femur

Stabilization of Distal Femur Fractures with Intramedullary Nails and Locking Plates: Differences in Callus Formation

Michael Bottlang, MD¹ (n); Trevor Lujan, PhD² (n); Dan B. Phelan³ (n); Christopher E. Henderson, MD² (n); J. Lawrence Marsh, MD² (3-Biomet; 7, 10-Smith & Nephew); Daniel C. Fitzpatrick, MD³ (n); Steven M. Madey, MD¹ (n);

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Scientific Poster #24

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Category: Hip & Femur

Alarmins and IL-6 Release Following Femoral Nail: Quantification of SIRS and of the Second Hit
(Non-U.S. research conducted within guidelines of my country)

Peter V. Giannoudis, MD¹ (n); *Mallina Ravi, MD¹ (n); Sarah Perry, BS² (n); Christopher Tzioupis, MD¹ (n); Hans-Christoph Pape, MD³ (n);*

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Scientific Poster #25

Category: Hip & Femur

The Effect of Entry Point on Malreduction and Latrogenic Fracture with the Lateral Entry Femoral Nail

Mark L. Prasarn, MD¹ (n); *Monica Daegl Cattaneo² (n); Timothy Achor, MD¹ (n); Jaimo Ahn, MD¹ (n); Craig E. Klinger, MD¹(n); David L. Helfet, MD¹ (7, 8-Synthes); Dean G. Lorich, MD¹ (n);*

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Scientific Poster #26

Category: Hip & Femur

Fluoroscopically-Guided Hip Capsulotomy: Effective or Not? A Cadaveric Study

Aric Christal, MD (n); *Lisa Taitzman, MD (*); Robert Dunbar, MD (7-AO, Arthrotek, Arthrocare, DePuy, A Johnson & Johnson Company, Medtronic, Medtronic Sofamor Danek, Musculoskeletal Transplant Foundation, Smith & Nephew, Stryker, Synthes, Zimmer); James Krieg, MD (3-Synthes Craniomaxillofacial; 4-Synthes; 5A-Expanding Orthopedics; 7 AO Spine North America AO-Stiftung-ASIF Foundation Bank of America Foundation The Center, Orthopaedics and Neurological Surgeons Fidelity Investments Helena Orthopaedics Clinic Illinois Orthopaedics & Hand Center Inland Orthopaedics of Spokane JMS Hand Associates Northwest Biomet, Inc. Pacific Rim Orthopaedics Proliance Surgeons, Inc. Proliance Orthopaedics & Sports Medicine The Seattle Foundation Seattle Christian Foundation Silicon Valley Community Foundation Simonian Sports Medicine Clinic SKS Plastic Surgery Spectrum Research Synthes U.S.A. Synthes Spine Co. Washington Research Foundation Washington State Orthopaedics Association Webber Lawn & Yard Care National Institutes of Health (NIH) National Science Foundation (NSF) Veterans Affairs Rehabilitation Research and Development Service Orthopaedic Research and Education Foundation (OREF) A.O. North America Amgen, Inc. Bayer AG BioAxone Therapeutique, Inc. CeraPedics, LLC Christopher Reeve Paralysis Foundation Depuy (Johnson & Johnson, Inc.) Foundation for Orthopedic Trauma Integra Lifesciences Corporation National Science Foundation Ostex International, Inc. Orthopaedic Trauma Association Paradigm Spine Smith & Nephew Synthes Spine Co. The Boeing Company US Army Research Office US Department of Education; 8-Johnson & Johnson); Sean E. Nork, MD (7-AO, Synthes, Smith & Nephew, Stryker, Zimmer);*

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Scientific Poster #27

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Category: Hip & Femur

Is Reconstruction Nailing of all Femoral Shaft Fractures Cost Effective?

Scott C. Faucett, MD¹ (n); **Kenneth J. Koval, MD¹ (3, 4, 5A, 10-Biomet; 4, 5A, 10-Stryker);** **Cory Collinge, MD² (n);** **Anna N. A. Tosteson¹ (n);**

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Scientific Poster #28

Category: Hip & Femur

Fixation for Stable Intertrochanteric Femoral Fractures: What are the Experts Doing?

Michael Anton Pahl, MD¹ (5-Consultant: Stryker, Zimmer); **Kenneth A. Egol, MD² (5B-Exactech, Inc; 7-Biomet, Smith & Nephew, Stryker, Synthes; 8-Johnson & Johnson);** **Javad Parvizi, MD¹ (5-Consultant: Zimmer, Stryker);** **George Haidukewych, MD³ (n);**

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Scientific Poster #29

Category: Geriatrics

Multi-Part Proximal Humeral Fractures in Older Patients: Which Ones should be Fixed?

Brian D. Solberg, MD¹ (5-Consultant: Stryker, Zimmer); **Dennis P. Franco, MD² (n);** **Charles N. Moon, MD² (5-Consultant: Stryker, Zimmer);** **Guy D Paiement, MD² (7-AO, Stryker);**

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Scientific Poster #30

Category: Geriatrics

Surgical Delay and its Effect on Mortality in Elderly Hip Fracture Patients: A Systematic Review and Meta-Analysis

Nicole Simunovic, BS¹ (n); **Philip Devereaux, MD¹ (n);** **Sheila Sprague¹ (n);** **Gordon Guyatt, MD¹ (n);** **Emil H. Schemitsch, MD² (4, 5A, 7-Smith & Nephew; 4, 5A, 7-Stryker; 5A-Pfizer, Zelos, Biomimetic, Amgen; 7-Biomimetic, Synthes, Zimmer);** **Justin DeBeer, MD¹ (n);** **Mohit Bhandari, MD¹ (7-Canada Research Chair);**

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Scientific Poster #31

Category: Geriatrics

Interprosthetic Femoral Fractures

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Scientific Poster #32

Category: Geriatrics

Ninety-Day Intertrochanteric Hip Fracture Mortality: Does Provider Volume Matter?

Mary L. Forte, PhD¹ (n); **Beth A Virnig, PhD¹** (n); **Marc F. Swiontkowski, MD¹** (n); **Mohit Bhandari, MD²** (7-Canada Research Chair); **Roger Feldman, PhD¹** (n); **Robert L. Kane, MD¹** (n5-United Health Group, Medtronic, Lewin and Associates, SCAN (a HMO in California));

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Scientific Poster #33

Category: Geriatrics

Mortality and Timing of Subsequent Fractures in Fragility Fracture Patients

(Non-U.S. research conducted within guidelines of my country)

Kirsten M.B. Huntjens, MD (n); **Peter R.G. Brink, MD** (n); **Piet Geusens, MD** (7-Unrestricted research grants from: MSD, Servier, Nycomed, Roche, Lilly);

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Scientific Poster #34

Category: Geriatrics

Clopidogrel (Plavix) and its Effects on Early Hip Fracture Surgery

Cory Collinge, MD¹ (n); **Tara Weaver, RN²** (n); **Richard Schuster, MD³** (n);

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Scientific Poster #35

Category: Geriatrics

Economic Evaluation of a Randomized Controlled Trial of Fall Prevention Strength and Balance Retraining Programmes: A Cost-Effectiveness Analysis

Pierre Guy, MD, MBA (7 -Stryker, Synthes, DePuy, Zimmer); Jennifer Davis, MSc (n); Karim M. Khan, MD, PhD (n); Carlo Marra, PhD (n);

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Scientific Poster #36

Category: Upper Extremity

Risk Factors for Osteonecrosis of the Humeral Head Following Repair in Elderly Patients

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Scientific Poster #37

Category: Upper Extremity

Humeral Head Perforation after ORIF, Is it really that bad?

Brian D. Solberg, MD¹ (5-Consultant: Zimmer, Stryker); Dennis P. Franco, MD² (n); Charles N. Moon, MD² (5-Consultant: Zimmer, Stryker); Guy D. Paiement, MD² (7-AO, Stryker);

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Scientific Poster #38

Category: Upper Extremity

Factors Affecting Revascularization Time in Humerus Fractures with Vascular Injury Requiring Repair

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Scientific Poster #39

Category: Upper Extremity

Three and Four Part Fractures (OTA types 11) Function Poorer than Lower Grade Proximal Humerus Fractures

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Scientific Poster #40

Category: Upper Extremity

Functional Results and Outcome Predictors for Isolated Proximal Radial Fractures

(Non-U.S. research conducted within guidelines of my country)

Andrew D. Duckworth¹ (n); Bruce Watson¹ (n); Phil J. Walmsley¹ (n); Brad A. Petrisor, MD² (7-OTA/Foundation for Orthopaedic Trauma); Elizabeth M. Will¹ (n); Margaret M. McQueen, MD¹ (n);¹Edinburgh Orthopaedic Trauma Unit, Royal Infirmary of Edinburgh, Edinburgh, UNITED KINGDOM;²Department of Surgery, McMaster University, Hamilton, Ontario, CANADA;

Scientific Poster #41

Category: Upper Extremity

A Comparison of Functional Outcome Before and After Reconstruction of Extra-Articular Malunions of the Scapula

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Scientific Poster #42

Category: Upper Extremity

Complications of Surgical Treatments for Lateral Clavicle Fractures

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Scientific Poster #43

Category: Upper Extremity

Quantitative Evaluation of Fracture Fragments of Radial Head and Coronoid Fractures

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Scientific Poster #44

Category: Hand & Wrist

Interobserver Reliability of the 30 Degree Lateral Radiograph in Assessing Screw Position Following Volar Plating of the Distal Radius

Philip Lahey, MD (n); Michael Semenovski, MD (n); Archit Patel, MD (n); David M. Edelstein, MD (n); Jack Choueka, MD (n);

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Scientific Poster #45

Category: Hand & Wrist

Outcomes Following Open Fractures of the Distal Radius

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Scientific Poster #46

Category: Hand & Wrist

Ulna Styloid Fracture in Association with Distal Radius Fracture Predicts Poor Outcome

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Scientific Poster #47

Category: Hand & Wrist

Three-Point Index in Predicting the Redisplacement in Adult Extra-Articular Distal Radius Fractures

(Non-U.S. research conducted within guidelines of my country)

Kadir Bahadır Alemdaroglu, MD (n); Serkan Iltar, MD (n); Nevres Hurriyet Aydogan, MD (n); Ferhat Say, MD (n); Cem Y. Kilinc, MD (n); Ugur Tiftikci, MD (n);

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Scientific Poster #48

Category: Foot & Ankle

Arthrodesis vs. ORIF for Lisfranc Fractures: A Systematic Review of the Literature

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Scientific Poster #49

Category: Foot & Ankle

An Observational Study of Functional Outcome Scores in Foot and Ankle Trauma: Do They Correlate?

Christina Goldstein, MD¹ (7-OTA/Foundation for Orthopaedic Trauma); **Mohit Bhandari, MD¹** (7-Canada Research Chair); **Emil H. Schemitsch, MD²** (4, 5A, 7-Smith & Nephew; 4, 5A, 7-Stryker; 5A-Pfizer, Zelos, Biomimetic, Amgen; 7-Biomimetic, Synthes, Zimmer); **George Mathew¹** (n); **Brad A. Petrisor, MD¹** (7-OTA/Foundation for Orthopaedic Trauma);

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Scientific Poster #50

Category: Foot & Ankle

Functional Outcomes of Aggressive Syndesmotic Stabilization of Ankle Fractures

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Scientific Poster #51

Category: Foot & Ankle

CT Evaluation of the Uninjured Distal Tibiofibular Syndesmosis

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Scientific Poster #52

Category: Foot & Ankle

Outcomes of Open Reduction and Internal Fixation of Open Pilon Fractures

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Scientific Poster #53

Category: Foot & Ankle

Socioeconomic Outcomes after Fractures of the Distal Tibia

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Scientific Poster #54

Category: Foot & Ankle

The Incidence of Nerve Injury in Pilon Fractures

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Scientific Poster #55

Category: Foot & Ankle

Assessment of Radiographic Parameters following Rotational Malreduction of the Fibula in the Ankle Syndesmosis

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Scientific Poster #56

Category: Foot & Ankle

CT Confirmation of Radiographic Reduction of the Syndesmosis

*Micah Sinclair, MD (n); Michael Stover, MD (7-Synthes);
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Scientific Poster #57

Category: Foot & Ankle

Treatment of Ankle Fractures using New High-Strength, Bioactive, Bioresorbable F-u-HA/PLLA Screws

(Non-U.S. research conducted within guidelines of my country)

*Naoya Takada, MD (n);
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Scientific Poster #58

Category: Foot & Ankle

CT Assessment of Fibular Rotation following Syndesmotic Injury: Comparison of Three Parameters

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Scientific Poster #59

Category: Foot & Ankle

Lateral Ankle Radiographs: Do You Really Know What You Are Seeing?

Matt L. Graves, MD¹ (4,7-Synthes); **John Kosko, MD¹** (n); **David P. Barei, MD²** (4-AO, Smith & Nephew, Synthes, Zimmer; 7-Synthes, Zimmer); **George V. Russell, Jr., MD¹** (7-Stryker, Synthes; 8-Zimmer); **Scott E. Porter, MD¹** (7-Synthes); **Thom Tarquinio, MD¹** (n); **Lisa Taitzman, MD²** (*); **James Woodall, MD¹** (n)

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Scientific Poster #60

Category: Foot & Ankle

Transsyndesmotic Fibular Plating for Fractures of the Distal Tibia and Fibula with Medial Soft-Tissue Injury: A Report of 5 Cases and Description of Surgical Technique

Marcus F. Sciadini, MD (4, 5A, 7, 8-Stryker; 7-Smith & Nephew);

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Scientific Poster #61

Category: Foot & Ankle

Quality of Life and Functional Results after Open Reduction and Internal Fixation of Calcaneal Fractures **PRESENTER?????**

(Non-U.S. research conducted within guidelines of my country)

Pieter Boele van Hensbroek, MD (n); Nicole A.M. Heesakkers, MD (n); Jan S.K. Luitse, MD (n); Mario Maas, PhD (n); J. Carel Goslings, PhD (n);

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Scientific Poster #62

Category: Foot & Ankle

Differential Risk Profiles for Achilles Tendinopathy in Contrast to Achilles Tendon Rupture a Population-Based Study

(Non-U.S. research conducted within guidelines of my country)

Robert Kraemer, MD¹ (n); **Waldemar Wuerfel, MD¹** (n); **Johan Lorenzen, MD²** (n); **Peter M. Vogt, MD¹** (n); **Karsten Knobloch, MD¹** (n);

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Scientific Poster #63

Category: Foot & Ankle

Results of 85 Consecutive Treated Navicular Fractures

Marlon O. Coulibaly, MD¹ (n); **Clifford B. Jones, MD²** (4-AO); **Debra L. Sietsema, PhD²** (8-Stryker); **Terrance J. Endres, MD³** (7-Medtronic); **James R. Ringler, MD³** (n);

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Scientific Poster #64

Category: Foot & Ankle

Results of 84 Consecutive Cuboid Fractures

Marlon O. Coulibaly, MD¹ (n); **Clifford B. Jones, MD²** (4-AO); **Debra L. Sietsema, PhD²** (8-Stryker); **Terrance J. Endres, MD³** (7-Medtronic); **James R. Ringler, MD³** (n);

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Scientific Poster #65

Category: Basic Science

An Electronic Method to Rank Order Fracture Severity Across Multiple Institutions

Donald D. Anderson, PhD¹ (7-DePuy, A Johnson & Johnson Company, National Institutes of Health (NIAMS & NICHD), Sawbones/Pacific Research Laboratories; Smith & Nephew, ArthroSurface, Inc.); **Jared L. Michalson, MD¹** (n); **Douglas R. Dirschl, MD²** (3-Biomet; 5A-Stryker, Medshape Solutions, Stryker; 7-Arthrex, Inc., Biomet, Musculoskeletal Transplant Foundation, Stryker, Zimmer, DePuy, A Johnson & Johnson Company); **Thomas A. DeCoster, MD³** (3-Innomed; 4- AO, Synthes, Biomet; 4,5B,7- EBi; 4,7-Orthofix, Inc.; 4,7,10- Smith & Nephew; 4,7-Stryker; 5A,7-Zimmer; 8-Merck; Wyeth); **Thomas D. Brown, PhD¹** (7-National Institutes of Health Funding); **J. Lawrence Marsh, MD⁶** (3-Biomet; 7, 10-Smith & Nephew);

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Scientific Poster #66

Category: Basic Science

A Biodegradable Scaffold for the Treatment of a Diaphyseal Bone Defect of the Tibia

(Non-U.S. research conducted within guidelines of my country)

Paul R.T. Kuzyk, MD¹ (n); **Emil H. Schemitsch, MD¹** (4, 5A, 7-Smith & Nephew; 4, 5A, 7-Stryker; 5A-Pfizer, Zelos, Biomimetic, Amgen; 7-Biomimetic, Synthes, Zimmer); **Davies E. John, MD²** (n);

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Scientific Poster #67

Category: Basic Science

The Effect of Intramedullary Reaming on a Diaphyseal Bone Defect of the Tibia

(Non-U.S. research conducted within guidelines of my country)

Paul R.T. Kuzyk, MD¹ (n); John E. Davies, MD² (n); Emil H. Schemitsch, MD¹ (4, 5A, 7-Smith & Nephew; 4, 5A, 7-Stryker; 5A-Pfizer, Zelos, Biomimetic, Amgen; 7-Biomimetic, Synthes, Zimmer);
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Scientific Poster #68

Category: Basic Science

Percutaneous Pinning of Third and Fourth Metacarpal Base Fractures and Fracture Dislocations: A Cadaveric Study of the Danger to Vital Structures

Todd Oliver, MD¹ (n); Fred Meyer, MD² (n);

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Scientific Poster #69

Category: Basic Science

Radiographic Evaluation of Instrumentation Approaching Concave and Convex Surfaces

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Scientific Poster #70

Category: Basic Science

Increased Physical Activity after Closed Fracture Stabilization does not affect Bone Repair in Mice

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Scientific Poster #71

Category: Basic Science

Tissue Debridement and Bacterial Removal in a Porcine Model: A Comparative Study of Waterjet (Versajet) Hydrosurgery System and Pulse Lavage.

(Non-U.S. research conducted within guidelines of my country)

Dan Crowley, MD (7-Research Fellowship from Smith & Nephew); Vassilios Nikolaou, MD (n); Nikolaos K. Kanakaris, MD (n); L. Mooney, MD (n); M. Wilcox, MD (n); Peter V. Giannoudis, MD (n); Academic Dept of Trauma & Orthopaedic Surgery, Leeds General Infirmary, Leeds, Leeds, UNITED KINGDOM

Scientific Poster #72

Category: Basic Science

Impaired Function of Osteoclasts in CCR2 Knockout Mice

Zhiqing Xing, MD (n); Chuanyong Lu, MD (n); Diane Hu, MD (n); Yan-yiu Yu, MD (n); Mary Nakamura, MD (n); Yalei Wu, PhD (n); Theodore Miclau, MD (n); Ralph Marcucio, PhD (n) University of California at San Francisco, San Francisco, California, USA

Scientific Poster #73

Category: Basic Science

Comparison of Trochanteric Nail Proximal Screw Configurations in a Subtrochanteric Fracture Model

Margaret K. Grisell, MD (n); Berton R. Moed, MD (7-DePuy Research Grant; 3-DePuy); J. Gary Bledsoe, PhD (n); Saint Louis University School of Medicine, Saint Louis, Missouri, USA

Scientific Poster #74

Category: Basic Science

Does Pre-Drilling of External Fixation Pins Provide a Mechanical Advantage?

Bryant W. Oliphant, MD¹ (7-Synthes); Hyunchul Kim² (7-Synthes); Greg M. Osgood, MD¹ (7-Synthes, Smith and Nephew, DePuy, Stryker); Robert D. Golden, MD¹ (7-Synthes); Michael A. Hawks, MD¹ (7-Synthes); Adam H. Hsieh, PhD² (7-Synthes); Robert V. O'Toole, MD¹ (7-Synthes, Smith and Nephew, DePuy, Stryker; 5-Synthes);

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Scientific Poster #75

Category: Basic Science

Qualitative Differences Between Bone Graft Obtained with a Reamer Irrigator/Aspirator and from the Iliac Crest

Henry Claude Sagi, MD¹ (7-Synthes); Megan Young, MD² (7-Synthes); Luis Gerstenfeld, MD² (7-Synthes); A.R. Shah, MD¹ (n); Paul Tornetta, III, MD² (3,5A, 7-Smith & Nephew; 8-Exploramed);

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Scientific Poster #76

Category: Basic Science

Biomechanical Rationale for the Selection of Cortical Shaft Fragment Internal Fixation

Gregory A. Brown, MD (4-Smith & Nephew; 5A-Boundary Medical, Small Bone Innovations; 7-Smith & Nephew; 8-Boundary Medical);

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Scientific Poster #77

Category: Basic Science

Biomechanics of Pinning the Pediatric Supracondylar Humeral Fractures

Christopher Iobst, MD¹ (n); Edward Milne, BS² (n); Steven Rueda, BS³ (n); Loren L. Latta, PhD (7-Alphatec Spine; Biomet; DePuy, A Johnson & Johnson Company; Hand Innovations; National Institutes of Health (NIAMS & NICHD); SBI; Small Bone Innovations; Smith & Nephew; Stryker; Zimmer);

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Scientific Poster #78

Category: Basic Science

Microcirculatory Response in Experimental Compartment Syndrome in Mice

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Scientific Poster #79

Category: Basic Science

How Does Screw Insertion Torque Correlate to Bone-Plate Frictional Forces?

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Scientific Poster #80

Category: Basic Science

A Biomechanical Study of 4-Hole Pubic Symphyseal Plating: Locked versus Unlocked versus Hybrid Constructs

Mark L. Prasarn, MD¹ (n); Gregory A. Zych, MD¹ (7-Stryker); Dinah Baria, BS¹ (n); David K. Kaimrajh, BS² (n); Ted E. Milne, MD² (n); Loren L. Latta, MD¹ (n);

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Scientific Poster #81

Category: Basic Science

Unexpectedly Low Vitamin D Levels in a Series of Orthopaedic Trauma Patients Living in the Northwest USA.

Daniel C. Fitzpatrick, MD (n); Daniel V. Sheerin, MD (n); Thomas K. Wuest, MD (n);

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Scientific Poster #82

Category: Basic Science

Evaluation of the Clavicle Hook-Plate for Treatment of Acromioclavicular Joint Dislocation: A Cadaveric Study.

Thuan V. Ly, MD¹ (n); Matthew R. Bong, MD² (n); Richard D. Peindl, MD³ (n); Brian Howard, MD³ (n); Michael J. Bosse, MD³ (5A-KCI, Medtronic; 7-AO, Synthes, Zimmer);

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Scientific Poster #83

Category: Basic Science

Molecular Mechanisms of Inflammation in Compartment Syndrome

(Non-U.S. research conducted within guidelines of my country)

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Scientific Poster #84

Category: Basic Science

Screw Orientation and Locked Plating in Severely Osteoporotic Bone

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Scientific Poster #85

Category: Basic Science

Suture Materials in Orthopaedic Trauma: What is the Strongest?

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Scientific Poster #86

Category: Spine

Trends in Spine Injuries caused by All-Terrain Vehicle Accidents in Children

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Scientific Poster #87

Category: Knee & Tibia

Three-Column Fixation for Complex Tibial Plateau Fractures

(Non-U.S. research conducted within guidelines of my country)

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Scientific Poster #88

Category: Knee & Tibia

Are Extreme Distal Periprosthetic Distal Femur Fractures Too Distal to Fix?

Philipp N. Streubel, MD (n); Michael J. Gardner, MD (5A-Synthes, Expanding Orthopedics; 7-AO, Synthes, Smith & Nephew); Bethany Gallagher, MD (n); William M. Ricci, MD (3, 4, 5A, 7-Smith & Nephew; 4, 7-AO, 4, 5A-Wright Medical Technology, Inc.; 5A, 7-Synthes);

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Scientific Poster #89

Category: Knee & Tibia

Do Current Schemes Properly Classify Tibial Plateau Fractures? (No)

William Axelrad, MD¹ (n); Susan Tseng, MD² (n); Mark A. Lee, MD² (4, 7-Synthes, Zimmer); Andrew H. Schmidt, MD³ (3, 5A, 7-Smith & Nephew; 4, 7-Synthes; 5A, 7, 8-Twin Star Medical; 5B-Millennium Medical Technologies; 7-Medtronic; 10-AGA, FH Orthopedics); Michael Gardner, MD⁴ (5A-Synthes, Expanding Orthopedics; 7-AO, Synthes, Smith & Nephew); William M. Ricci, MD⁴ (3, 4, 5A, 7-Smith & Nephew; 4, 7-AO, 4, 5A-Wright Medical Technology, Inc.; 5A, 7-Synthes); Paul Tornetta, III, MD¹ (3,5A, 7-Smith & Nephew; 8-Exploramed);

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Disclosure: (n=Respondent answered 'No' to all items indicating no conflicts; 1=Board member/owner/officer/committee appointments; 2=Medical/Orthopaedic Publications; 3=Royalties; 4=Speakers bureau/paid presentations; 5A=Paid consultant or employee; 5B=Unpaid consultant; 6=Research or institutional support from a publisher; 7=Research or institutional support from a company or supplier; 8=Stock or Stock Options; 9=Other financial/material support from a publisher; 10=Other financial/material support from a company or supplier).

• = The FDA has not cleared

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Scientific Poster #90

Category: Knee & Tibia

Assessment of Functional Impairment after Patellar Fractures

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Scientific Poster #91

Category: Knee & Tibia

Preferred Practice for Temporizing External Fixation of the Lower Extremity: A Survey of the Orthopedic Trauma Association (OTA) Membership

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Scientific Poster #92

Category: Knee & Tibia

Endstage Arthritis following Tibia Plateau Fractures: Ten Year Follow Up

Ramin Mehin, MD¹ (n); Pierre Guy, MD² (n); Peter O'Brien, MD² (n); Henry Broekhuysse, MD² (n); Robert Meek, MD² (n); Piotr Blachut, MD² (n); Penny Brasher, PhD² (n);

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Scientific Poster #93

Category: Knee & Tibia

Functional Outcome of Operatively Treated Tibial Plateau Fractures

Clifford B. Jones, MD¹ (4-AO); Debra L. Sietsema, PhD¹ (8-Stryker); Matthew R. Karek, MD² (n); Aaron L. Forbes, MD² (n); Terrance J. Endres, MD¹ (7-Medtronic); James R. Ringler, MD¹ (n);

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Scientific Poster #94

Category: Knee & Tibia

Raft Constructs and Fracture Stability in Split-Depression Tibial Plateau Fractures

William W. Cross, III, MD¹ (n); Bruce A. Levy, MD² (7-DePuy Orthopaedics, Inc.); Bryan M. Armitage, MD¹ (n);

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Scientific Poster #95

Category: Tibia

Osteomyoplastic and Traditional Transtibial Amputations in the Trauma Patient: Perioperative Comparisons and Subjective Outcomes

Benjamin C. Taylor, MD¹ (n); Bruce G. French, MD² (n); Atilla Poka, MD² (n); Andrew Blint, MD³ (n); Kevin W. Pugh, MD² (5-Smith and Nephew Consultant);

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Scientific Poster #96

Category: Tibia

•Correlation between Muscle Oxygenation and Compartment Pressures in Acute Compartment Syndrome of the Leg: A New Screening Technique

(• = The FDA has not cleared)

William M. Reisman, MD¹ (7-Equipment donation (Somanetics & Stryker)); Michael M. Shuler, MD² (7-Equipment donation (Somanetics & Stryker)); Tracy L. Kinsey² (n); Thomas E. Whitesides, Jr., MD¹ (n); Thomas J. Moore, MD¹ (n);

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Scientific Poster #97

Category: Tibia

Natural History of Compartment Perfusion Pressure Following Tibial Nailing

(Non-U.S. research conducted within guidelines of my country)

Matthew R.G. Menon, MD¹ (n); Stuart Aitken² (n); Charles M. Court-Brown, MD² (n); Margaret M. McQueen, MD² (n);

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Scientific Poster #98

Category: Tibia

Distal Locking Using an Electromagnetic Field Guided Computer Based Real Time System

Paul Tornetta, III, MD¹ (3,5A, 7-Smith & Nephew; 8-Exploramed); **Priyesh Patel, MD¹** (n); **Susan Tseng²** (n); **Andrew Whitten³** (5-Smith & Nephew); **William M. Ricci, MD⁴** (3, 4, 5A, 7-Smith & Nephew; 4, 7-AO, 4, 5A-Wright Medical Technology, Inc.; 5A, 7-Synthes);

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Scientific Poster #99

Category: Tibia

•Retrospective Comparison of BMP-2 versus Iliac Crest Bone Grafting in the Treatment of Tibial Shaft Non-Union.

(• = The FDA has not cleared)

James S. Starman, MD (n); **Bryan Loeffler, MD** (n); **Michael J. Bosse, MD** (5A-KCI, Medtronic; 7-AO, Synthes, Zimmer); **James F. Kellam, MD** (5A-LifeNet; 7-AO, Brainlab, Smith & Nephew, Synthes, Wright Medical Technology, Inc., Wyeth, Zimmer); **Stephen H. Sims, MD** (4-Synthes); **James Norton, PhD** (n);

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Scientific Poster #100

Category: Tibia

Sequential Reconstruction of GIIIB-C Tibia Fractures with Circular Tensioned Wire External Fixation

James J. Hutson Jr., MD¹ (n); **Raymond Topp, MD²** (n); **Gregory A. Zych, DO¹** (7-Stryker); **Steven P. Kalandiak, MD¹** (4 or 10-Synthes);

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²USA Army Medical Corp BAMC San Antonio, Texas, USA

Scientific Poster #101

Category: Tibia

Retropatellar Technique for Intramedullary Nailing of Proximal Tibia Fractures: A Cadaveric Assessment

Jonathan Eastman, MD (n); **Susan Tseng, MD** (n); **Eddie Lo, MD** (n); **Chin-Shang Li, PhD** (n); **Brad Yoo, MD** (n); **Mark A. Lee, MD** (4, 7-Synthes, Zimmer);

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Scientific Poster #102

Category: Polytrauma

The Pathophysiological Effects of External Femoral Fracture Fixation versus Reamed Intramedullary Nailing after Acute Lung Injury in a Large Animal Model

(Non-U.S. research conducted within guidelines of my country)

Andrew C. Gray, MD (n); Jamie Mitchell, MD (n); Paul J. Duffy, MD (n); James N. Powell, MD (n); Cheryl Meek, MD (n); John V. Tyberg, MD (n);

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Scientific Poster #103

Category: Polytrauma

The Outcomes of Fasciocutaneous Flaps in the Lower Extremities

David A. Volgas, MD (7-AO, Pfizer, Synthes, Wyeth, Smith & Nephew, KCI); Rena L. Stewart, MD (5A, 7-Synthes; 7-Wyeth, Smith & Nephew, Pfizer, Kinetic Concepts, Inc.); James P. Stannard, MD (4, 5A, 7-Medtronic; 4, 7-Synthes; 5A-Osteolign; 7-Kinetic Concepts, Inc., Smith & Nephew);

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Scientific Poster #104

Category: Polytrauma

An Analysis of the Orthopaedic In-Training Examination (OITE) Musculoskeletal Trauma Section Reveals the Importance of Reviewing the Current Primary Literature

Ramesh C. Srinivasan, MD (n); Jeffrey D. Seybold, MD (n); Michael J. Salata, MD (n); James A. Goulet, MD (n); Paul J. Dougherty, MD (n);

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Scientific Poster #105

Category: Polytrauma

(Sample) Size Matters! The Risk of Stopping Orthopaedic Trials Too Early

Paul Tornetta, III, MD¹ (3,5A, 7-Smith & Nephew; 8-Exploramed); Mohit Bhandari, MD² (7-Canada Research Chair); Emil H. Schemitsch, MD³ (4, 5A, 7-Smith & Nephew; 4, 5A, 7-Stryker; 5A-Pfizer, Zelos, Biomimetic, Amgen; 7-Biomimetic, Synthes, Zimmer);

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Scientific Poster #106

Category: Polytrauma

Effect of Silver Dressing Negative in a Contaminated Open Fracture Model Treated with Negative Pressure Wound Therapy

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Scientific Poster #107

Category: Reconstruction

Plate Fixation of Femoral Nonunions over an IMN with Autogenous Bone Grafting

William Hakeos, MD (n); William T. Obremsey, MD (5A-Medtronic, Osteogenix; 7-Synthes); Vanderbilt University, Nashville, Tennessee, USA

Scientific Poster #108

Category: Reconstruction

Clinical Efficacy and Functional Outcomes of Autologous Bone Grafting from the Distal Femur and Proximal Tibia for Fracture Non-Unions

Robert A. Hymes, MD¹ (5-LifeNet Healthcare); Timothy P. Ryan, BS² (n); Cary Schwartzbach, MD¹ (n); Stephen Malekzadeh, MD¹ (n); Jeff Schulman, MD¹ (n);

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Scientific Poster #109

Category: Reconstruction

Comparison of Service Members with Bilateral Transfemoral Amputations from the Vietnam War and Operation Iraqi Freedom/Operation Enduring Freedom (OIF/OEF)

Paul J. Dougherty, MD¹ (n); Douglas Smith, MD² (n); Gayle E. Reiber, MD³ (n);

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Scientific Poster #110

Category: Reconstruction

Effective External Fixator Pin Care is Literally Skin Deep.

Bruce H. Ziran, MD¹ (4, 5A-Stryker, Synthes; 5A-Force Medical); Barbara Hileman, BA² (n); Jill Little, BA² (n);

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Scientific Poster #111

Category: Reconstruction

Osteocutaneous Pedicle Flap Transfer for Salvage of Below Knee Amputation Level after Severe Lower Extremity Injury

Steven J. Fitzgerald, MD (n); Meghan Beddow (n); Heather A. Vallier, MD (n); Brendan M. Patterson, MD (n);

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OTA 2009 Annual Meeting POSTER Listing

Page: 26 of 26

Scientific Poster #112

Category: Reconstruction

Judet Quadricepsplasty for Posttraumatic Extension Contracture of the Knee

(Non-U.S. research conducted within guidelines of my country)

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Scientific Poster #113

Category: Reconstruction

Complications Associated with Proximal Tibia Autogenous Bone Graft Compared to Iliac Crest Autogenous Bone Graft: An Alternative Donor Site

*Levi Nathan Gause, MD (n); **Archdeacon T. Michael, MD** (4-Smith & Nephew; 4, 5A, 7-Stryker, AO; 5A-CardioMEMS); Theodore Toan Le, MD (5-Stryker); John D. Wyrick, MD (n);*

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