## Friday, June 10, 2022

7:15 AM	Continental Breakfast			
7:45 AM	Opening Remarks	J. Lawrence Marsh, MD		
SESSION #1 N		oderator: Catherine Olinger, MD		
8:00 AM	<u>Senior Resident Presentation</u> - Comparison of Direct Surgical Cost and Outcomes for Unstable Elbow Injuries: Internal Joint Stabilizer Versus External Fixation	Malynda Wynn, MD • Douglas Dennis, MD • Chris Cychosz, MD		
8:50 AM	Timing of Orthopaedic Surgery in Multiple Trauma Patients: Development of a Protocol for Early Appropriate Care	Heather A. Vallier, MD		
9:30 AM	Faculty Spotlight: Identifying Contributors to and Interventions for PTOA in a Minipig Model of Intra-articular Fracture	Jessica E. Goetz, PhD		
10:10 AM	Refreshment Break			
10:30 AM	<u>Senior Resident Presentation</u> - Long Term Outcomes Following Tibial Plafond Fractures	Joshua Eisenberg, MD • Heather A. Vallier, MD • David E. DeMik,MD, PharmD		
11:20 AM	Rate of Incidental Findings on Routine Preoperative Computed Tomography for Shoulder Arthroplasty	Daniel G. Meeker, MD, PhD		
11:35 AM	Trends in the Treatment of Proximal Humerus Fractures in the United States Medicare Population	Garrett V. Christensen, MD		
11:50 AM	Lunch in the MERF Atrium & Larson Conference Room			
SESSION #2 Moderator: Lindsey Caldwell, MD, FAAOS				
1:00 PM	<u>Senior Resident Presentation</u> - Impact of Nutritional Supplementation on Wound Healing in the Soft Tissue Sarcoma Population	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD		
1:00 PM 1:50 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma	Michael Russell, MD • Heather A. Vallier, MD		
	Supplementation on Wound Healing in the Soft Tissue Sarcoma Population Career Trips: 20 Pearls I've Learned from 35 years as a Total	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD		
1:50 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma Population Career Trips: 20 Pearls I've Learned from 35 years as a Total Joint Surgeon Significant Loss of Skeletal Muscle Mass Occurs After	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD		
1:50 PM 2:10 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma         Population         Career Trips: 20 Pearls I've Learned from 35 years as a Total         Joint Surgeon         Significant Loss of Skeletal Muscle Mass Occurs After         Musculoskeletal Trauma         Utility of PACU Versus Post-Operative Day 1 Radiographs	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD Aspen Miller, BS		
1:50 PM 2:10 PM 2:25 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma         Population         Career Trips: 20 Pearls I've Learned from 35 years as a Total         Joint Surgeon         Significant Loss of Skeletal Muscle Mass Occurs After         Musculoskeletal Trauma         Utility of PACU Versus Post-Operative Day 1 Radiographs         Following Shoulder Arthroplasty         Syndesmosis Malposition and Loss of Joint Space on Weight         Bearing CT is Associated with Inferior Patient Reported	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD Aspen Miller, BS Taylor Den Hartog, MD		
1:50 PM 2:10 PM 2:25 PM 2:40 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma Population Career Trips: 20 Pearls I've Learned from 35 years as a Total Joint Surgeon Significant Loss of Skeletal Muscle Mass Occurs After Musculoskeletal Trauma Utility of PACU Versus Post-Operative Day 1 Radiographs Following Shoulder Arthroplasty Syndesmosis Malposition and Loss of Joint Space on Weight Bearing CT is Associated with Inferior Patient Reported Outcomes after Tibia Plafond Fracture	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD Aspen Miller, BS Taylor Den Hartog, MD		
1:50 PM 2:10 PM 2:25 PM 2:40 PM 2:55 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma         Population         Career Trips: 20 Pearls I've Learned from 35 years as a Total         Joint Surgeon         Significant Loss of Skeletal Muscle Mass Occurs After         Musculoskeletal Trauma         Utility of PACU Versus Post-Operative Day 1 Radiographs         Following Shoulder Arthroplasty         Syndesmosis Malposition and Loss of Joint Space on Weight         Bearing CT is Associated with Inferior Patient Reported         Outcomes after Tibia Plafond Fracture         Refreshment Break         Senior Resident Presentation - A Prospective Investigation of         Primary Total Knee Arthroplasty Rehabilitation Using a Smart	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD Aspen Miller, BS Taylor Den Hartog, MD John Davison, MPH Scott Muffly, MD • Douglas Dennis, MD		
1:50 PM 2:10 PM 2:25 PM 2:40 PM 2:55 PM 3:10 PM	Supplementation on Wound Healing in the Soft Tissue Sarcoma         Population         Career Trips: 20 Pearls I've Learned from 35 years as a Total         Joint Surgeon         Significant Loss of Skeletal Muscle Mass Occurs After         Musculoskeletal Trauma         Utility of PACU Versus Post-Operative Day 1 Radiographs         Following Shoulder Arthroplasty         Syndesmosis Malposition and Loss of Joint Space on Weight         Bearing CT is Associated with Inferior Patient Reported         Outcomes after Tibia Plafond Fracture         Refreshment Break         Senior Resident Presentation - A Prospective Investigation of         Primary Total Knee Arthroplasty Rehabilitation Using a Smart         Orthotic Versus Outpatient Physical Therapy	Michael Russell, MD • Heather A. Vallier, MD • Kyle Kesler, MD Douglas Dennis, MD Aspen Miller, BS Taylor Den Hartog, MD John Davison, MPH Scott Muffly, MD • Douglas Dennis, MD • Christopher N. Carender, MD		

Content: Determination of educational content for this educational activity and the selection of speakers/facilitators are responsibilities of the activity director. Any commercial firms providing financial support did not have input in these areas.

Target Audience: Faculty, residents, fellows, medical students and community physicians.

Educational Objectives: Upon participating in this educational program, the participant should be able to:

Describe common and complex musculoskeletal problems and their treatment options and scientific basis.

Assess effectiveness of screening programs, cost effectiveness of and difference between treatment options to integrate research with clinical expertise for
optimal patient care.

· Discuss effective outcome and research principles to change processes and system care.

### Saturday, June 11, 2022

7:30 AM	Continental Breakfast		Joseph Buckwalter V, MD, PhD Moderator: Heather R. Kowalski, MD	
7:45 AM Opening Remarks				
SESSION #3	3			
8:00 AM	<u>Senior Resident Presentation</u> - Is the Central Peg Necessary? Clinical Outcomes of the Modified Polyethylene Vault Preserving Glenoid Component in Total Shoulder Arthroplasty		Trevor Gulbrandsen, MD <ul> <li>Douglas Dennis, MD</li> <li>Christopher P. Lindsey, MD</li> </ul>	
8:50 AM	Understanding The Hip-Spine Relationship in Total Hip Arthroplasty		Douglas Dennis, MD	
9:30 AM	Using Custom Dynamic Orthoses to Prevent Post-Traumatic Ankle Osteoarthritis		Lucinda Williamson, BS	
9:45 AM	Refreshment Break			
10:00 AM	<u>Senior Resident Presentation</u> - Identifying Total Joint Arthroplasty Patients at Risk of Active Dental Infection and Development of a Novel Screening Tool		James Kohler, MD • Heather A. Vallier, MD • Alan G. Shamrock, MD	
10:50 AM	Optimizing Recovery After Trauma		Heather A. Vallier, MD	
11:30 AM	Prevalence and Pattern of Lateral Impingements in the Progressive Collapsing Foot Deformity		Samuel J. Ahrenholz, MS	
11:45 AM	Quantifying Ankle Arthritis Using a 3D Hounsfield Unit Weight- Bearing Computed Tomography Algorithm		Tutku Tazegul, BBME	
12:00 PM	Semiautomatic Weight Bearing Computed Tomography Area Analysis of the Distal Tibiofibular Syndesmotic Incisura in Subtle Chronic Syndesmotic Instability		Lily McGettigan	
12:15 PM	Adjourn			
	VISITING DI	SCUSSANTS		
Douglas A Dennis, MD Adjunct Professor, Dept. of Bioengineering, University of Denver Adjunct Professor, Dept. of Mechanical and Materials Engineering, University of Tennessee Assistant Clinical Professor, Dept of Orthopaedics, University of Colorado School of Medicine Senior Surgeon, Colorado Joint Replacement, Denver, CO		Professor o Case Weste Clyde L. Na Education	Heather A Vallier, MD Professor of Orthopaedic Surgery Case Western Reserve University Clyde L. Nash Jr., MD, Professor of Orthopaedic Education	

#### Joseph Buckwalter V, MD, PhD - Chair

John Albright, MD Joseph Buckwalter IV, MD, MS Jill Corlette, MS Cesar de Cesar Netto, MD,PhD Lori Dolan, PbD	Douglas Fredericks, BS Ignacio Garcia Fleury, MD Natalie Glass, PhD Jessica E. Goetz, PhD Matthew Karam, MD	Steve Liu, MD J. Lawrence Marsh, MD James V. Nepola, MD Brendan Patterson, MD, MPH Bobert Westermann, MD
Lori Dolan, PhD	Matthew Karam, MD Heather R. Kowalski, MD	Robert Westermann, MD
Jacob Elkins, MD	Reather R. Kowaiski, MD	Michael Willey, MD

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CME Credit Designation: The University of Iowa Carver College of Medicine designates this live activity for a maximum of 11 AMA PRA Category 1 Credit(s)TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Policy: Everyone in a position to control the content of this educational activity will disclose to the accredited provider all financial relationships with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. All relevant financial relationships will be mitigated. Program contact information: Joseph Buckwalter V, MD, PhD email: joseph-buckwalter@uiowa.edu; phone: (319) 356-0458

# Thank you to our VIP Visiting Discussants!



Douglas A. Dennis, MD Adjunct Professor, Dept. of Bioengineering, University of Denver Adjunct Professor, Dept. of Mechanical and Materials Engineering, University of Tennessee Assistant Clinical Professor, Dept. of Orthopaedics, Unversity of Colorado School of Medicine Senior Surgeon, Colorado Joint Replacement, Denver, CO



Heather A. Vallier, MD Professor of Orthopaedic Surgery, Case Western Reserve University Clyde L. Nash Jr, MD, Professor of Orthopaedic Education



48<sup>th</sup> Annual Senior Residents' Days Urmila Sahai Seminar Room, 2117 MERF University of Iowa Hospitals and Clinics Iowa City, IA



Senior Residents' Days

# Research Program



The University of Iowa Department of Orthopedics & Rehabilitation

June 10 – 11, 2022