

Massachusetts General Hospital at:



Sunday, February 5, 2012

Room 2002

Session 26: Current Trends in Joint Replacement

Moderator: H Malchau

2:40 pm - 2:50 pm

Can Cruciate -Retaining Total Knee Arthroplasty Enhance Knee Range of Motion in Western and Asian Patient Populations?: A Meta Analysis
T Sumino, H Gadikota, G Li, HE Rubash

2:50 pm - 3:00 pm

Radiostereometric Analysis (RSA) of Tapered Femoral Stem in Cementless Total Hip Replacement in Young Patients
D Ayers, B Snyder, M Walcott, M Aubin, J Drew, P Hayes, M Eskander, ME Greene, H Malchau, CR Bragdon

Monday, February 6, 2012

Room 2006

ORS Clinical Research Forums

Session III: Metal-on-Metal: Were the Studies Strong Enough before Implementation?

12:30 pm

How Clinical Case Series Supported Widespread Adoption
YM Kwon

Tuesday, February 7, 2012

Room 2014

ORS Workshop Presented by the Hip Society and Knee Society: Focus Areas for Future Research in Total Knee and Total Hip Arthroplasty

Moderator: HE Rubash, J Rodrigo

8:20 am

Hip Bearing Materials, Edge Loading, Ideal Polyethylene Thickness
YM Kwon

9:10 am

Improving our Understanding of Metal and Other Component Sensitivity
YM Kwon

Room 2005

ORS/AAOS Combined Symposium: Adverse Reactions to Byproducts of Joint Replacement

1:00 pm

Local Reactions to Metal-on-Metal Implants
YM Kwon

Room 2002

Session 43: Knee, ACL, Patello-Femoral Joint

1:50 pm - 2:00 pm

In Vivo Kinematics of Patellofemoral Joint During Dynamic Stair Ascending
T Suzuki, A Hosseini, JS Li, TJ Gill, G Li

Room 2006

Session 44: Tumors and Diseases

1:20 pm - 1:30 pm

A Potential Target for the Treatment of Chordoma: CHC2L1
X Liu, W Yang, E Choy, H Mankin, H Francis, Z Duan

Room 2014

Session 49: New Polyethylene Implant Wear

2:55 pm - 3:05 pm

Squalene –initiated Oxidation at Low Temperature
Displays the Effect of Free Radicals in Crosslinked
UHMWPE

A Neils, E Oral, OK Muratoglu

3:25 pm - 3:35 pm

Lipid Doping and Aging of Various UHMWPEs
ZB Konsin, KK Wannomae, OK Muratoglu

4:05 pm - 4:15 pm

A Prospective, Blinded, Double-Randomized
Radiostereometric (RSA) of Tantalum vs. Titanium
Acetabular Shells and Highly Cross-linked vs.
Conventional Polyethylene Liners in Young THA
Patients

D Ayers, B Snyder, M Walcott, M Aubin, J Drew, P
Hayes, M Eskander, ME Greene, H Malchau, CR
Bragdon

Room 2024

Session 50: Knee Arthroplasty

3:05 pm - 3:15 pm

Utilization of High Flexion after
Unicompartmental Knee Arthroplasty
D Scarborough, N Thiruvengadam, SA Foster, AA
Freiberg, H Malchau, J Huddleston

3:25 pm - 3:35 pm

Accuracy of the Reconstruction of 3D Human Knee
Joint Surface Models Using Dual Fluoroscopic
Images
Z Zhu, G Wang, G Li

Poster Presentations

Poster No. 0460

Quantitative Magnetic Resonance Imaging (MRI) Morphological Analysis for Knee Cartilages in Healthy and Anterior Cruciate Ligament-injured Knees

H Li, A Hossenini, JS Li, TJ Gill, G Li

Poster No. 0842

The Relationship Between Femoral Tunnels Created by Transtibial Anteromedial Portal, and Outside-in Techniques and Anatomical Anterior Cruciate Ligament Footprint

H Gadikota, JA Sim, A Hosseini, TJ Gill, G Li

Poster No. 0946

Does the Use of Antidepressants Predict Outcomes Following Total Hip Replacement Surgery
ME Greene, O Rolfson, M Gordon, H Malchau, G Garellick

Poster No. 0949

The Validity of Using Administratively Coded Comorbidity and Complication Data in TJA
K Bozic, R Bashyal, S Anthony, V Chiu, Br Shulman, HE Rubash

Poster No. 1033

In Vivo Performance of Second Generation Highly Crosslinked UHMWPE
SL Rowell, B Micheli, KK Wannomae, H Malchau, OK Muratoglu, J Yi

Poster No. 1035

Squalene Oxidizes Polyethylene Through the Generation of Hydroperoxides
M Fung, OK Muratoglu, E Oral

Poster No. 1071

Three Year RSA Evaluation of the Wear of Vitamin E Stabilized Highly Cross-linked Polyethylene, the Stability of Regenerex™ Acetabular Shells and Femoral Components with 32mm Heads
ME Greene, CR Bragdon, YM Kwon, HE Rubash, H Malchau

Poster No. 1072

Warm Irradiation of Vitamin E Stabilized UHMWPE Improves Strength and Oxidation Resistance
A Neils, E Oral, OK Muratoglu

Poster No. 1144

Effect of Intra-abdominal Pressure on Lumbar Spinal Joint Forces, Muscle Forces, and Centers of Vertebral Rotation
WM Park, S Wang, KB Wood, YH Kim, G Li

Poster No. 1148

In-vivo Loads on the Lumbar Intervertebral Discs During Weight Lifting
SWang, WM Park, J Miao, YH Kim, KB Wood, G Li

Poster No. 1150

Motion Characteristics of the Vertebral Segments with Lumbar Degenerative Spondylolisthesis
J Miao, S Wang, WM Park, Q Xia, KB Wood, G Li

Poster No. 1480

Synthesis and Evaluation of NSC23925 Isomers to Reverse Multidrug Resistance in Sarcomas
Z Duan, W Yang, X Liu, E Choy, D Harmon, H Mankin, F Hornicek

Poster No. 1727

Non-degradable Porous Poly(Vinyl Alcohol) Hydrogels for Cartilage Tissue Engineering
HB Senturk, D Bichara, D Ling, C Gupta, M Randolph, OK Muratoglu

Poster No. 1732

Effect of Irradiation on the Strength and Lubricity of PVA-PAA Hydrogels for Cartilage Repair
D Ling, HB Senturk, HL Kluk, OK Muratoglu

Poster No. 1833

ACL Injury Combined with Medial or Lateral Meniscus Tear Altered the Knee Joint Kinematics Differently
JS Li, AHosseini, R Finn, L Cancre, TJ Gill, G Li

Poster No. 1838

Does the Side of Meniscus Injury Affect the Tibiofemoral Cartilage Contact in ACL-deficient Patients?
A Hosseini, JS Li, S Varada, K Patel, TJ Gill, G Li

Poster No. 1839

In-vivo Patellofemoral Articular Contact Kinematics During Weight-bearing Deep Knee Flexion
K Kobayashi, M Sakamoto, HE Rubash, G Li

Poster No. 1845

Biomechanical Evaluation of Knee Joint Laxities and Graft Forces Following Anterior Cruciate Ligament Reconstruction by Anteromedial Portal, Outside-in, and Transtibial Techniques
JA Sim, H Gadikota, JS Li, G Li, TJ Gill

Poster No. 2018

A Clinically Relevant In Vitro Aging Model for Polyethylene Joints
M Fung, E Oral, OK Muratoglu

Poster No. 2019

Accelerated Aging of Highly Crosslinked UHMWPE After In Vivo Service
SL Rowell, OK Muratoglu

Poster No. 2023

Multi-center Minimum 5-year Wear Analysis of Femoral Heads and Highly-Crosslinked Polyethylene
CR Bragdon, M Doerner, J Martell, YM Kwon, P Lachiewicz, K Bertin, H Malchau

Poster No. 2026

Minimum Ten Year Follow-up of Highly Crosslinked Polyethylene Liners in Total Hip Arthroplasty
CR Bragdon, B Jarrett, M Doerner, D Burke, AA Freiberg, HE Rubash, H Malchau

Poster No. 2029

Do RSA Measurements of Acetabular Cup Stability and Polyethylene Wear Improve by Adding Tantalum Beads to the Liner?
ME Greene, A Nebergall, H Palm, CR Bragdon, H Malchau

Poster No. 2030

The Effect of Squalene on Environmental Stress Cracking of Highly Crosslinked UHMWPE
ZB Konsin, KK Wannomae, OK Muratoglu

Poster No. 2058

Thermo-oxidation of Irradiated Vitamin E Blended Polyethylene
MJ Martinez, JA Medel, FJ Mendel, OK Muratoglu, E Oral

Poster No. 2060

Radiation Crosslinked, High Temperature Melted Vitamin E Blended UHMWPE is Stable Against Oxidation
B Doshi, J Fu, E Oral, OK Muratoglu

Poster No. 2061

High Temperature Melting of UHMWPE/Vitamin E Blends Does Not Lead to Grafting/Crosslinking without Irradiation
B Doshi, E Oral, OK Muratoglu

Poster No. 2132

Comparison of the Global Convergence Optimization and the Follower Load Concept in Estimation of Physiological Loads in the Human Lumbar Spine
WM Park, S Wang, KB Wood, YH Kim, G Li

Poster No. 2213

Automatic 2D-3D Image Matching Method for the Shoulder Joint Using Single or Dual Fluoroscopic Images
Z Zhu, D Massimini, G Wang, G Li

Poster No. 2217

Coupled Scapulohumeral Motion During In-vivo Dynamic Shoulder Abduction
D Massimini, Z Zhu, J Warner, G Li

Poster No. 2285

The Effect of Knee Flexion Angle on Appearance of the "Clock Face Position" in ACL Reconstruction
J Bravman, A Hosseini, G Li, TJ Gill

Poster No. 2286

Location of Tibial Tunnel Exit Hole in Transtibial ACL Reconstruction
G Stone, A Hosseini, TJ Gill, G Li