6TH INTERNATIONAL CONFERENCE
ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION

MARCH 26-27, 2015
MEDICAL EDUCATION AND RESEARCH INSTITUTE
OF NEVADA (MERIN)
HENDERSON, NEVADA, USA

ORTHOPAEDIC ONCOLOGY REVIEW COURSE

MARCH 29, 2015
VDARA HOTEL AND SPA
LAS VEGAS, NEVADA, USA
Over the past fifty years, great strides have been made in the study of osseointegration, and from these findings new therapeutic options have emerged. Advances in basic science and engineering have been translated into clinically beneficial technologies in the fields of arthroplasty, oncology, and prosthetic rehabilitation. In this symposium, we will bring together international experts to explore our current understanding of the principles, techniques, and clinical outcomes of reconstructive therapies utilizing osseointegration technologies.

TARGET AUDIENCE
Orthopaedic oncology and arthroplasty attending surgeons; Orthopaedic residents; Prosthetists; Veterinary professionals; Basic scientists; Allied health professionals in the fields of reconstructive and rehabilitative medicine.

EDUCATIONAL OBJECTIVES
To assemble a diverse faculty of osseointegration experts to review and expand upon contemporary practice:

- To better apply the basic science and clinical developments across disciplines in the field of osseointegration in practice.
- To appreciate the theoretical basis and improve practical clinical advantages of compressive osseointegration technology for oncologic limb salvage and revision arthroplasty patients.
- To broaden the potential utility of osseointegration techniques for improving the clinical outcomes of amputee patients.
THURSDAY, MARCH 26, 2015 • MERIN, HENDERSON, NV, USA

MINI-SYMPOSIUM I: COMPRESSIVE OSSEOINTEGRATION
6:30-7:15am
Continental breakfast

7:15-7:30am
Welcome and Introductory Remarks
Richard J. O'Donnell, MD, San Francisco, CA, USA

7:30-7:45am
Proximal Femoral and Proximal Tibial Compressive Osseointegration: Intermediate Term Outcomes
Wustrack RL, O'Donnell RJ; San Francisco, CA, USA

7:45-8:00am
Distal Femoral Compressive Osseointegration: Intermediate Term Outcomes in Oncologic and Non-Oncologic Patients
Hackney L, O'Donnell RJ, Wustrack RL; San Francisco, CA, USA

8:00-8:15am
Management of Deep Prosthetic Infection in Compressive Osseointegration
Langhammer C, Wustrack RL, O'Donnell RJ; San Francisco, CA, USA

8:15-8:30am
Panel Discussion: Compressive Osseointegration Technology
Moderator: Richard J. O'Donnell, MD, San Francisco, CA, USA

CONVENTIONAL OSSEOINTEGRATION
BASIC AND TRANSLATIONAL STUDIES
8:30-8:45am
Immunohistochemical Techniques for Studying Skin-Implant Interfaces: Stepping Beyond Monochromatic Stains
Jeyapalina S, Edwards A, Bachus KN, Beck JP; Salt Lake City, UT, USA

8:45-9:00am
Biomaterial Associated Infections: How Can We Address Biofilm Forming Bacteria? Trobos M, Zaborowska M, Brånemark R, Thomsen P; Gothenburg, SE

9:00-9:15am
Effect of Proximal Stem Geometry on Initial Fixation Strength of Transfemoral Porous Coated Percutaneous Osseointegrated Implant
Drew AJ, "Kubiak EN," Longo JA, Dodd K, Vinciguerra J, "Bachus KN;" "Salt Lake City, UT, USA; "Scottsdale, AZ, USA; "Austin, TX, USA

9:15-9:30am
Novel Methods for High Resolution Biomaterial Interface Analysis
Thomsen P, Palmquist A, Brånemark R; Gothenburg, SE

9:30-9:45am
Evaluation of Bone Mineral Density and Bone Markers in Femoral Amputee Patients Prior to Osseointegrated Implant Surgery
Hansen RL, Stilling M, Søballe K, Petersen KK, Jørgensen PH; Aarhus, DK

9:45-10:00am
Evaluation of Peri-Implant Bone Mineral Density Changes after Femoral Osseointegrated Prosthesis Surgery
Hansen RL, Stilling M, Søballe K, Petersen KK, Jørgensen PH; Aarhus, DK

10:00-10:15am
Evaluation Framework to Assess Benefits and Harms of Bone-Anchored Prosthesis
Frossard L; Brisbane and Maroochydore, AU

10:15-10:30am
Panel Discussion: Basic and Translational Osseointegration Science
Rosanna L. Wustrack, MD, San Francisco, CA, USA

10:30-10:45am
Morning Break

CLINICAL STUDIES, I
10:45-11:00am
Osseointegrated Prosthetic Limb for Amputees: Over One Hundred Cases
Khemka A, Frossard L, Lord SJ, Bosley B, Al Muderis M; Sydney, AU

11:00-11:15am
OPRA Study: Preliminary 5 Year Results
Berlin O, Brånemark R; Gothenburg, SE

11:15-11:30am
Health-Related Quality of Life of Individuals with Transfemoral Amputation Fitted with the Transcutaneous Bone Anchoring Prosthesis Following the OGAP
Khemka A, Frossard L, Lord SJ, Bosley B, Al Muderis M; Sydney, AU

11:30-11:45am
Prosthetic Function with Osseointegrated Transfemoral Prostheses – Long Term Results from the OPRA Study
Hagberg K, Berlin O, Brånemark R; Gothenburg SE

11:45am-12:00pm
Panel Discussion: Clinical Osseointegration Studies
Jonathan A. Forsberg, MD, Bethesda, MD, USA

12:00-12:30pm
Working Lunch • The Military Osseointegration Program
Jonathan A. Forsberg, MD, Bethesda, MD, USA

12:30-1:00pm
An Osseointegrated Human-Machine Gateway for Long-Term Sensory Feedback and Motor Control of Artificial Limbs: A Patient’s Perspective
Max J. Ortiz Catalán, MD,* and Rickard Brånemark*+, MD, MSc, PhD,* +*Gothenburg, SE and +San Francisco, CA, USA

CLINICAL STUDIES, II
1:00-1:15pm
Osseointegrated Prosthetic Limb for Amputees: Single Stage Surgery
Khemka A, Frossard L, Lord SJ, Bosley B, Al Muderis M; Sydney, AU

1:15-1:30pm
Safety of Osseointegrated Prosthesis for Trans-Femoral Amputees
Al Muderis M, Khemka A, Lord SJ, Van de Meent H, Frolke JP; Sydney, AU

1:30-1:45pm
Clinical Outcome of Osseointegrated Prosthesis for the Trans-Femoral Amputees in Denmark
Jørgensen PH, Petersen KP, Hansen RL; Aarhus, DK

1:45-2:00pm
Transcutaneous Bone-anchoring Prosthesis with Hip Replacement: A Novel Treatment for Amputees
Khemka A, Frossard L, Lord SJ, Bosley B, Al Muderis M; Sydney, AU

2:00-2:15pm
Transcutaneous Bone-anchoring Prosthesis with Knee Replacement: A Novel Treatment for Amputees
Khemka A, Frossard L, Lord SJ, Bosley B, Al Muderis M; Sydney, AU

2:15-2:30pm
Afternoon Break
CLINICAL STUDIES, III
2:30-2:45pm Treatment of Patients with Transhumeral Amputation Using Osseointegrated Percutaneous Implants: A Retrospective Follow Up
Caine-Winterberger K, Kulbacka-Ortiz K, Brånemark R; Gothenburg, SE

2:45-3:00pm Implant Survival, Adverse Events, and Bone Remodeling of Osseointegrated Implants for Transhumeral Amputees
Tsikandylakis G, Berlin O, Brånemark R; Gothenburg, SE

3:00-3:15pm Treatment of Patients with Transradial Amputation Using Osseointegrated Percutaneous Implants: A Retrospective Follow-Up
Kulbacka-Ortiz K, Caine-Winterberger K, Brånemark R; Gothenburg, SE

3:15-3:30pm Treatment of Patients with Transmetacarpal I Amputation Using Osseointegrated Percutaneous Implants: A Retrospective Follow-Up
Brånemark R, Kulbacka-Ortiz K, Caine-Winterberger K; Gothenburg, SE

3:30-3:45pm Osseointegrated Prosthesis for Upper Limb Amputees: Danish Experience
Jørgensen PH, Petersen KK; Aarhus, DK

3:45-4:00pm Panel Discussion: Clinical Osseointegration Studies
Örjan Berlin, MD, Gothenburg, SE

MINI-SYMPOSIUM II: OSSEOINTEGRATION CASE STUDIES
4:00-4:05pm Total Femoral and Proximal Tibial Compressive Osseointegration: 12-Year Follow-Up
Legaspi KN, Wustrack RL, O’Donnell RJ; San Francisco, CA, USA

4:05-4:10pm Femoral Pathologic Fracture in Morbidly Obese Patient Managed with External Fixation and Compressive Osseointegration
Choo KJ, Morshed S, Wustrack RL, O’Donnell RJ; San Francisco, CA, USA

4:10-4:20pm Bilateral Transtibial OPRA
Bertrand-Marchand M; Montpellier, FR

4:20-4:25pm Ultrashort Transhumeral Amputation
Brånemark R; Gothenburg, SE

4:25-4:35pm Ultrashort Transfemoral Amputation Treated with Custom Designed Implant
Bertrand-Marchand M; ‘Brånemark R;*Montpellier, FR; *Gothenburg, SE

4:35-4:45pm Panel Discussion: Pushing the Osseointegration Envelope
Moderator: Rickard Brånemark, MD, MSc, PhD, Gothenburg, SE and San Francisco, CA, USA

4:45-4:50pm In Memoriam: Ignace Samson, MD
Richard J. O’Donnell, MD, San Francisco, CA, USA

4:50-5:00pm Closing Remarks: Orthopaedic Osseointegration and the OSOS
Richard J. O’Donnell, MD, San Francisco, CA, USA

FRIDAY, MARCH 27, 2015 • MERIN, HENDERSON, NV, USA

OSSEOINTEGRATION: SURGICAL TECHNIQUES
7:30-8:15am Continental breakfast

8:15-8:30am Welcome and Introductory Remarks
Richard J. O’Donnell, MD, San Francisco, CA, USA

8:30-9:00am Compressive Osseointegration: Practical Aspects and Surgical Technique
Richard J. O’Donnell, MD, San Francisco, CA, USA

9:00-9:30am Conventional Osseointegration: Practical Aspects and Surgical Technique
Rickard Brånemark, MD, MSc, PhD, Gothenburg, SE and San Francisco, CA, USA

9:30-11:30am Saw Bone Demonstrations and Hands-On Lab: Compressive, Conventional, and Prosthetic Stations
Richard J. O’Donnell, MD, San Francisco, CA, USA
Rickard Brånemark, MD, MSc, PhD, Gothenburg, SE and San Francisco, CA, USA

11:30-11:50am Compressive Osseointegration: Interesting Cases, Pearls, Pitfalls, and Rehabilitation
Richard J. O’Donnell, MD, San Francisco, CA, USA

11:50-12:10pm Conventional Osseointegration: Interesting Cases, Pearls, Pitfalls, and Rehabilitation
Rickard Brånemark, MD, MSc, PhD, Gothenburg, SE and San Francisco, CA, USA

12:10-12:30pm Osseointegration: Question and Answer • Closing Remarks
Richard J. O’Donnell, MD, University of California, San Francisco, CA, USA
Rickard Brånemark, MD, MSc, PhD, Gothenburg, SE and San Francisco, CA, USA

12:30pm Adjourn
This one-day, intensive review course is designed for the busy professional intent on mastering the essentials of orthopaedic oncology. Concise yet comprehensive instruction will be provided in the multidisciplinary evaluation and management of the musculoskeletal oncology patient. Topics include radiology, pathology, and orthopaedic surgical techniques. Question-and-answer sessions will prepare the attendee for in-training, board, and re-certification examinations.

TARGET AUDIENCE
Orthopaedic residents, fellows, and attending surgeons; Pathologists; Radiologists; General surgical oncologists; Nurses and allied health professionals involved in the care of orthopaedic oncology patients.

EDUCATIONAL OBJECTIVES
To provide a highly organized, efficient, thorough conference to review key orthopaedic oncology principles in order to improve competency in patient care. After course completion, attendees will be prepared to:

• Understand and be able to use the tools of radiologic and pathologic studies in the diagnosis and staging of musculoskeletal tumors and tumor-like conditions. Pertinent, "need-to-know" topics will range from basic science advances to essentials of microscopic histology.

• Employ the strategy of using multiple disciplines in the care of the musculoskeletal oncology patient. State-of-the-art orthopaedic surgical techniques involved in the care of the limb salvage and amputee patient will be covered.

• Face current practice gaps in orthopaedic oncologic patient care, including: careful diagnostic work-up; proper approach to biopsy issues; completion of staging evaluation; appropriate treatment; avoidance and management of complications; and provision of expert aftercare.

• Succeed in professional examinations and the care of the orthopaedic oncology patient.

ACCREDITATION
The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Physicians
UCSF designates this live activity for a maximum of 8.50 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Physician Assistants
The American Academy of Physician Assistants (AAPA) accepts courses approved for AMA PRA Category 1 Credit™ as meeting the continuing education requirements for license renewal.

Nursing Credit
For the purpose of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit™ issued by organizations accredited by the ACCME.
ORTHOPAEDIC ONCOLOGY REVIEW COURSE

7:00-8:00am  Continental Breakfast / Registration
8:00-9:30am  Topics 1-90
Orthopaedic Oncology: Introduction, Evaluation, Diagnosis, Staging, Treatment, Aftercare and Surveillance  •  Richard J. O’Donnell, MD
9:30-9:45am  Questions 1-30  •  Review Session
Richard J. O’Donnell, MD
9:45-11:15am  Topics 91-180  •  Benign and Malignant Soft Tissue Tumors
Raffi S. Avedian, MD
11:15-11:30am  Questions 31-60  •  Review Session
Raffi S. Avedian, MD
11:30am-12:00pm  Working Lunch  •  Principles of Musculoskeletal Radiology
Thomas M. Link, MD, PhD
12:00-12:30pm  Working Lunch  •  Principles of Orthopaedic Pathology
Andrew E. Horvai, MD, PhD
12:30-1:00pm  Working Lunch  •  Principles of Radiation Oncology
Steven Brauinstein, MD, PhD
1:00-2:30pm  Topics 181-270  •  Benign and Malignant Bone Tumors
Robert J. Steffner, MD
2:30-2:45pm  Questions 61-90  •  Review Session
Robert J. Steffner, MD
2:45-4:15pm  Topics 270-365  •  Metastatic Bone Disease, Osteomyelitis, Osteoporosis, Metabolic Bone Disease, Pseudotumors, Tumor-like Conditions
Rosanna L. Wustrack, MD
4:15-4:30pm  Questions 91-120  •  Review Session
James O. Johnston, MD
4:30pm  Adjourn

PROGRAM CHAIRS AND PLANNING COMMITTEE
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Rickard Brånemark, MD, MSC, PhD
Gothenburg, Sweden
San Francisco, CA, USA
Rosanna L. Wustrack, MD
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Kevin J. Choo, MD
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Marion Bertrand-Marchand, MD
Montpellier, FR

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6th International Conference: Advances in Orthopaedic Osseointegration
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GENERAL INFORMATION
Advanced registration closes one (1) business day prior to start of course. On site registration fees, if applicable, will be applied after this date.

HOW TO ENROLL
MMJ15003: 6th International Conference: Advances in Orthopaedic Osseointegration
March 26:
$350 MD, DMD, DDS
$250 AHP, PA's and Residents
$150 Military
March 27:
$150 MD, DMD, DDS, and AHP

MMC15020: Orthopaedic Oncology Review Course
FEES:
$250 MD
$150 AHP, PA's and Residents
$150 Military

Payment may be made by Visa, MasterCard, AmEx or check.

REGISTER VIA:
Online: www.cme.ucsf.edu
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UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145-0368
Fax: Fax completed registration form to:
(415) 502-1795 (be sure to include your credit card number)

On-Site Registration: Generally we are able to accommodate on-site registration at our courses. To register by phone or to inquire about registration status, please call UCSF's CME Registration Office at (415) 476-5808. Please check our website for up-to-date information on the course: www.cme.ucsf.edu

REFUND POLICY
Cancellations received in writing before the first day of the course will be refunded, less a $75 administrative fee. No refunds will be made on cancellations received after that date.

CONFERENCE LOCATION
MMJ15003: 6th International Conference: Advances in Orthopaedic Osseointegration
All meetings will be held at MERIN.
A complimentary hotel shuttle will be provided round trip from Hotel Vdara.

The Medical Education and Research Institute of Nevada (MERIN) is an independent facility located in Henderson, Nevada. Each year, thousands of medical professionals from across the US and around the world come to MERIN to learn new surgical procedures and test innovative medical products, which can result in improved health care delivery, less invasive operations, improved surgical outcomes, shorter recovery times, and the reduction of post-surgical infection. MERIN is recognized among physicians, researchers, and medical device companies as a world-class facility. MERIN is one of the Platinum Training facilities across the United States.

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Vdara Hotel and Spa (at Aria Las Vegas)
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www.vdara.com

CONFERENCE HOTEL
A block of guestrooms has been reserved at the special UCSF conference rate of $151+tax the nights of March 25-26th and $175+tax the nights March 27-28th, plus a daily resort fee of $25.00. You are urged to make your reservations early. Any unused rooms not picked up would be released 28 days prior to the March 25th date.

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Las Vegas, NV 89158 • (866) 745-7767 Reservation web link: https://resweb.passkey.com/go/1806ce22 www.vdara.com

The Orthopaedic Surgical Osseointegration Society (OSOS) seeks to foster and promote knowledge among health care professionals of the process by which bone attaches to metallic implants used in orthopaedic reconstructions.

For more information or to register online visit our website at www.cme.ucsf.edu. You may also reach us by calling the Office of CME at (415) 476-4251 or emailing: info@ocme.ucsf.edu.
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MERIN, Henderson, NV, USA
Thursday-Friday, March 26-27, 2015

March 26-27, 2015

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Please indicate if you have any special needs: _________________________________________________

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March 26: $350 MD, DMD, DDS
$250 AHP, PA’s and Residents
$150 Military
March 27: Osseointegration Wet Lab
$150 MD, DMD, DDS, and AHP

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Orthopaedic Oncology Review Course
Hotel Vdara, Las Vegas, NV, USA
Sunday, March 29, 2015

March 29, 2015

Online registration: www.cme.ucsf.edu
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

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