

Presented by the
Department of Orthopaedic Surgery
University of California, San Francisco



University of California
San Francisco

5TH INTERNATIONAL CONFERENCE ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION

MAY 31-JUNE 1, 2013



The Swedish Exhibition & Congress Center
Gothenburg, Sweden

PROGRAM CHAIRS

Rickard Brånemark, MD, MSC, PhD

Sahlgrenska University Hospital
Gothenburg, Sweden

Örjan Berlin, MD, PhD

University of Gothenburg
Gothenburg, Sweden

Richard J. O'Donnell, MD

UCSF Orthopaedic Oncology Service
San Francisco, California



E.M.S.O.S



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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 and allied health professionals in the fields of reconstructive and rehabilitative medicine.

ACCREDITATION

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

UCSF designates this live activity for a maximum of **10.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

EDUCATIONAL OBJECTIVES

- To assemble a diverse faculty of osseointegration experts to review and expand upon contemporary knowledge.
- To better understand the basic science and clinical developments across disciplines in the field of osseointegration.
- To appreciate the theoretical basis and the practical clinical advantages of compressive osseointegration technology for oncologic limb salvage and revision arthroplasty patients.
- To recognize the potential utility of osseointegration techniques for improving the clinical outcomes of amputee patients.



FRIDAY, MAY 31, 2013

7:00-7:45 am	<i>Registration</i>	
7:45-8:00	Welcome and Introductory Remarks	Richard J. O'Donnell, MD
CONVENTIONAL OSSEOINTEGRATION: CLINICAL OUTCOMES AND REHABILITATION		
8:00-8:30	A Follow-up of 100 Implants using the Integral Leg Prosthesis (ILP)	Munjed Al Muderis, MB, ChB
8:30-9:00	Bone Anchored Amputation Prostheses: State of the Art	Rickard Brånemark, MD, PhD, MSC
9:00-9:15	The Osseointegration Group of Australia Accelerated Protocol (OGAAP) for Rehabilitation of Amputees	Munjed Al Muderis, MB, ChB
9:15-9:30	Description of Rehabilitation and Outcome among 10 Patients with Bilateral Transfemoral Amputations Treated with OPRA in Sweden	Kerstin Haberg, RPT, PhD
9:30-9:45	Panel Discussion: Rehabilitation: Too Fast, Too Slow, or Just Right?	Moderator: Anna A. Kulidjian, MD
ASEPTIC AND SEPTIC COMPLICATIONS OF OSSEOINTEGRATED PROSTHESES		
9:45-10:00	AAOS-ADA and IDSA Clinical Practice Guidelines for the Prevention, Diagnosis, and Management of Prosthetic Joint Infection	Richard J. O'Donnell, MD
10:00-10:15	Incidence and Management of Infection in OPRA Patients	Rickard Brånemark, MD, PhD, MSC
10:15-10:30	Mechanical Breakage of Compressive Osseointegrated Implants	Friedl Sinnaeve, MD
10:30-11:10	The Bertil Stener Memorial Guest Lecture: Team Work in Musculoskeletal Oncology	Franklin H. Sim, MD
IMPROVEMENTS IN OSSEOINTEGRATION TECHNOLOGY		
11:10-11:25	Advances in Nano Scale Osseointegration / Combination with TMR and Implantable Electrodes / Stem Cells	Rickard Brånemark, MD, PhD, MSC
11:25-11:40	Modelling the Mechano-biological Interface Changes around Transfemoral Osseointegrated Implants using Physical Models and Detecting the Changes with Vibration Analysis	Nicola J. Cairns, PhD
11:40-11:55	Finite Element Modelling of the Mechano-biological Interface Changes around Transfemoral Osseointegrated Implants and the Simulated Dynamic Properties	Nicola J. Cairns, PhD
11:55-12:10 pm	Two-stage Implantation of the Porous Composite Skin and None Integrated Pylon Seeded with Dermal Fibroblasts for Preventing Marsupialization	Maxim Shevtsov
12:10-1:30	Working Lunch: EMSOS Symposium VI	
CONVENTIONAL OSSEOINTEGRATION		
1:30-1:40	Osseointegration: An Overview	Rickard Brånemark, MD, PhD, MSC
1:40-1:50	A Decade's Experience with the Integral Leg Prosthesis (ILP): a Case Series Study of Design Modifications to Prevent Infection	Horst H. Aschoff, Dr Med



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PROGRAM CHAIRS AND PLANNING COMMITTEE

Rickard Brånemark, MD, MSC, PhD
Sahlgrenska University Hospital
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Örjan Berlin, MD, PhD
University of Gothenburg,
Gothenburg, SWEDEN

Richard J. O'Donnell, MD
UCSF Orthopaedic Oncology
Service
San Francisco, CA, USA

COURSE FACULTY

Horst H. Aschoff, Dr Med
Sana Kliniken, Lübeck, GERMANY

Örjan Berlin, MD, PhD
University of Gothenburg,
Gothenburg, SWEDEN

Rickard Brånemark, MD, PhD, MSC
University of Gothenburg,
Gothenburg, SWEDEN

Nicola J. Cairns, PhD
University of Strathclyde,
Glasgow, UK

COURSE FACULTY (CONT'D)

George T. Calvert, MD
City of Hope National Medical
Center, Pasadena, CA, USA

Brian J. Cook, MD
University of California,
San Francisco, CA, USA

Debbie Y. Dang, MD
University of California,
San Francisco, CA, USA

Kerstin Haberg, RPT, PhD,
University of Gothenburg,
Gothenburg, SWEDEN

OSSEOINTEGRATION

The Swedish Exhibition & Congress Centre
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FRIDAY, MAY 31, 2013 (CONT'D)

1:50-2:00	Case Presentations of the Integral Leg Prosthesis (ILP): Achievements and Pitfalls	Horst H. Aschoff, Dr Med
2:00-2:05	Osseointegration: The Experience of the First Seven Patients in Leiden	Nicolette A.C. Leijerzapf, MANP
2:05-2:10	Bone Anchored Prosthesis with the Osseointegration Technique in Transfemoral Amputees: Results from the Prospective OPRA Study	Örjan Berlin, MD, PhD
2:10-2:15	Osseointegration is a Viable Solution for Rehabilitating Patients Post Tumor-related Amputations	Rickard Brånemark, MD, PhD, MSC
2:15-2:30	Panel Discussion: Conventional Osseointegration	Moderators: Richard J. O'Donnell, MD Anna A. Kulidjian, MD

COMPRESSIVE OSSEOINTEGRATION

2:30-2:45	Longer Term Follow-up of Compressive Osseointegration for Prosthetic Fixation	John H. Healey, MD
2:45-3:00	Reconstruction of Massive Bone Defects using Compressive Osseointegration	Franklin H. Sim, MD
3:00-3:15	A Dual Center Review of Compressive Osseointegration for Fixation of Massive Endoprosthetics: 2-9 year Follow-up	George T. Calvert, MD
3:15-3:30	Intermediate Term Compressive Osseointegration Follow-up: The Experience in Belgium	Ignace Samson, M.D
3:30-4:00	<i>Afternoon Break</i>	
4:00-4:15	Compressive Osseointegration of Proximal Femoral Oncologic Implants	Lauren A. Hackney, MD
4:15-4:30	Compressive Osseointegration for Distal Femur Reconstruction in Patients with Giant Cell Tumor	Debbie Y. Dang, MD
4:30-4:45	Endoprosthetic Reconstruction using Compressive Osseointegration Technology for Proximal Tibial Primary Oncologic Defects	Brian J. Cook
4:45-5:00	Panel Discussion: Technical Aspects of Compressive Osseointegration	Moderator: Richard J. O'Donnell, MD
5:00-5:15	Closing Remarks: Orthopaedic Osseointegration and the OSOS	Richard J. O'Donnell, MD
5:15 pm	<i>Adjourn</i>	

SATURDAY, JUNE 1, 2013

OSSEOINTEGRATION: SURGICAL TECHNIQUES

Instructional Course: Bone Anchored Amputation Prostheses: Surgical Technique with Hands On & Rehabilitation

8:00-9:00 am	<i>Continental breakfast</i>	
9:00-9:30	Introductory Lecture: OPRA Surgical Concepts	Rickard Brånemark, MD, PhD, MSC
9:30-10:30	Demonstration and Hands-on Sawbones Stepwise S1 and S2 using the OPRA Implant System on the Transfemoral Level	Rickard Brånemark, MD, PhD, MSC Örjan Berlin, MD, PhD
10:30-11:00	<i>Morning break</i>	
11:00-12:00 pm	Rehabilitation, Stepwise Rehab Outlines, Stepwise Rehab Principles, Demonstration with Patients	Rickard Brånemark, MD, PhD, MSC Kerstin Haberg, RPT, PhD Örjan Berlin, MD, PhD Eva Häggström, CPO
12:00 pm	<i>Adjourn</i>	

COURSE FACULTY (CONT'D)

Eva Häggström, CPO
University of Gothenburg,
Gothenburg, SWEDEN

Lauren A. Hackney, MD
University of California,
San Francisco, CA, USA

John H. Healey, MD
Memorial Sloan-Kettering Cancer
Center, New York, NY, USA

Dora-Lisa Juhnke, MD
Northwest Private Hospital,
Sydney, NSW, AUSTRALIA

COURSE FACULTY (CONT'D)

Anna A. Kulidjian, MD
University of California,
San Diego, CA, USA

Nicolette A.C. Leijerzapf, MANP
Leiden University Medical Centre,
Leiden, THE NETHERLANDS

Munjed Al Muderis, MB, ChB
Northwest Private Hospital,
Sydney, NSW, AUSTRALIA

Richard J. O'Donnell, MD
University of California,
San Francisco, CA, USA

COURSE FACULTY (CONT'D)

Ignace Samson, MD
University Hospital Pellenberg,
Pellenberg, BELGIUM

Maxim Shevtsov
Pavlov State Medical University,
St. Petersburg, RUSSIA

Franklin H. Sim, MD
Mayo Clinic,
Rochester, MN, USA

Friedl Sinnaeve, MD
University Hospital Pellenberg,
Pellenberg, BELGIUM

CALL FOR ABSTRACTS

Please submit your abstracts in English via the website: www.cme.ucsf.edu

SIMULTANEOUS COURSE!

26th EMSOS Meeting

May 29-31, 2013
Gothenburg, Sweden
www.emsos2013.se



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2550 23rd Street
Building 9, Third Floor
Box 1342
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94110
MMJ13003

REGISTRATION INFORMATION

Tuition: **\$350** MD, DMD, DDS
\$250 Allied Health Professionals and Residents

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

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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.

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.

REGISTER TODAY!

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.

CONFERENCE LOCATION

The Swedish Exhibition & Congress Centre is one of the most effective venues for meetings, conferences and exhibitions in all Scandinavia. More than a million people come to the Swedish Exhibition & Congress Centre every year to visit or participate in some 30 exhibitions and hundreds of large and small conferences and congresses. The Swedish Exhibition & Congress Centre also owns and operates Gothia Towers, one of the largest hotels in Scandinavia and one of Sweden's largest restaurant operations, including the highly reputed Heaven 23 and Italian-style Incontro.

EMSOS has many rooms reserved and you may reference their website for booking instructions: www.emsos.org/accommodation. The main conference hotel is **Gothia Towers** adjacent to the **Göteborg Convention Centre**. You are urged to make your reservations early.

RENTAL CAR

Hertz is offering special rates for participants of this conference; simply call (800) 654-2240 and refer to identification number # 03BW0129, or call your travel agent. You may also make reservations at www.Hertz.com. Advance reservations are recommended.

AIR TRANSPORTATION

UCSF has negotiated special fares with American and United Airlines for our course attendees. You may use the following four codes to book on your own:

American (800) 433-1790 code: 9540AX
United (800) 521-4041 code: 584RD

Please contact Erin at Simone@orthosurg.ucsf.edu if you have any problems making the reservations.

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MMJ13003

May 31-June 1, 2013

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Mail to : UCSF Office of CME
P.O. Box 45368
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Registration Fees (Receipt/Confirmation will be mailed within two to four weeks):

- \$350 MD, DMD, DDS
 \$250 Allied Health Professionals and Residents
 \$250 EMSOS Members

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Please check our website for up to date information on the course: www.cme.ucsf.edu

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