Day 1: Thursday, December 4, 2014

0730-0800 Registration

0800-0850 Opening and Welcome Remarks
CAPT Craig Salt, MD, Founder and Head, C.A.R.E.
CAPT Jose Acosta, MD, Commander, NMCSD
RDML Bruce Gillingham, MD, Commander Navy Medicine West
Gary Sinise, Gary Sinise Foundation
Other Distinguished Guests, TBD

CDR Peter Shumaker, MD, Program Director, C.A.R.E. Training Summit

0850-0950 The Patient and Caregiver Perspective
Moderator: CDR Peter Shumaker, Chairman, Dermatology, Naval Medical Center San Diego

0950-1000 Break / Networking

Facial Restoration After Traumatic Injury

1000-1020 Facial Restoration after Trauma
COL Robert Hale, MD, Professor of Oral and Maxillofacial Surgery, Uniformed Services University of the Health Sciences; Former Commander, U.S. Army Dental and Research Detachment; Director, Craniofacial Research, U.S. Army Institute for Surgical Research

1020-1040 Craniofacial Reconstruction
Lt COL Jose Barrera, MD, Chief, Otolaryngology Service and Chief, Plastic and Reconstructive Surgery, San Antonio Military Medical Center
1040-1100  **Face Transplantation**  
Bohdan Pomahac, MD, Director, Plastic Surgery Transplantation; Medical Director, Burn Center, Brigham and Women’s Hospital; Associate Professor, Harvard Medical School

1100-1115  **Panel Discussion**

**Restoring Function After Extremity Injury, Part I**

1115-1120  **Introduction**

1120-1140  **Orthoplastic Surgical Principles**  
L. Scott Levin, MD, Chair, Department of Orthopaedic Surgery; Paul Magnuson Professor of Bone and Joint Surgery, Hospital of the University of Pennsylvania

1140-1200  **Flap Reconstruction after Upper Extremity Injury**  
Kodi Azari, MD, Chief, Section of Reconstructive Transplantation; Co-Director, Operation Mend Program; Professor, Orthopedic Surgery, Plastic Surgery, and Transplantation Surgery David Geffen School of Medicine at UCLA

1200-1300  **Lunch / Networking**

1300-1320  **Hand Transplantation**  
W.P. Andrew Lee, MD, Professor and Chairman, Department of Plastic and Reconstructive Surgery, Johns Hopkins School of Medicine

1320-1340  **Complex Penile Reconstruction Using Conventional Microvascular Techniques and Transplantation**  
Richard Redett, MD, Associate Professor of Plastic Surgery; Residency Program Director, Division of Plastic Surgery, Johns Hopkins School of Medicine

1340-1410  **Targeted Muscle Re-innervation (with Demonstration)**  
Todd Kuiken, PhD, Director, Center for Bionic Medicine; Professor of PM& R, Biomedical Engineering, and Surgery, Northwestern University

1410-1420  **Panel Discussion**
Regenerative Medicine: Current Concepts and Changing Trends
Anthony Atala, MD, Director, Armed Forces Institute of Regenerative Medicine II; Director, Wake Forest Institute for Regenerative Medicine; W.H. Boyce Professor and Chair, Department of Urology Wake Forest School of Medicine

Break / Networking / Research Poster Presentations

Clinical Workshops and Prosections (Bioskills Lab)

Guest Faculty: Anthony Atala, MD (Wake Forest); Kodi Azari, MD (UCLA); Edward J. Caterson, MD, PhD (Brigham and Women’s); Leo Kroonen, MD (Kaiser San Diego); Todd Kuiken, MD, PhD (Northwestern); Roberto Lachica, MD (University of Tennessee); W.P. Andrew Lee, MD (Johns Hopkins); Bohdan Pomahac, MD (Brigham and Women’s); Richard Redett, MD (Johns Hopkins); Jaimie Shores, MD (Johns Hopkins); Sami Tuffaha, MD (Johns Hopkins)

NMCSD Faculty: CDR Michelle Arnold, MD (Facial Plastics); Robin Caballa, PA-C; CAPT Trent Douglas, MD (Plastic Surgery); CDR Curtis Gaball, MD (Facial Plastics); CDR Katerina Gallus, MD (Plastic Surgery); LCDR Kathryn Hanna, MD (Orthopedic Hand Surgery); CDR Robert Laughlin, MD (Oromaxillofacial Surgery); LCDR Eamon O’Reilly, MD (Plastic Surgery); CAPT Craig Salt, MD (Plastic Surgery); CDR Sean Stroup, MD (Urology)

Hand Transplantation
Face Transplantation
Extremity Trauma
Flap Reconstruction
Genitourinary Trauma
Hair Transplantation

Day 2: Friday, December 5, 2014

Morning Refreshments

Welcome Remarks / Objectives

Rethinking Traumatic Brain Injury

Introduction
0800-0820 Neurobiology of TBI
David Hovda, PhD, Department of Neurosurgery, UCLA; Professor and Vice Chairman of Research Affairs; Director, UCLA Brain Injury Research Center

0820-0840 Heterogeneity of TBI
M. Ross Bullock, MD, PhD, Professor, Department of Neurological Surgery; Director, Clinical Neurotrauma, University of Miami School of Medicine

0840-0900 A Perspective on TBI in the Military
COL (USA, Ret) Geoffrey Ling, MD, Director, Biological Technologies Office, Defense Advanced Research Projects Agency (DARPA); Professor of Neurology, Anesthesiology, and Neuroscience, Uniformed Services University of the Health Sciences

0900-0920 Auditory/Vestibular Issues in TBI
CAPT (USN, Ret) Michael Hoffer, MD, Professor, Department of Otolaryngology, University of Miami School of Medicine

0920-0940 The Future of TBI Treatment and Research
David Cifu, MD, Professor and Chairman, Virginia Commonwealth University Department of PM&R; National Director of PM&R Program Office, Veterans Health Administration

0940-1000 Panel Discussion

1000-1020 Break / Networking / Research Poster Presentations

Regenerative Therapies and Emerging Technologies

1020-1040 Application of Adult Stem Cells and Biomimetic Scaffolds for Skeletal Tissue Engineering and Regeneration
Rocky S. Tuan, PhD, Co-Director, Armed Forces Institute of Regenerative Medicine II; Director, Center for Cellular and Molecular Engineering; Arthur J. Rooney Professor and Executive Vice Chair, Department of Orthopedic Surgery; Associate Director, McGowan Institute for Regenerative Medicine; Director, Center for Military Medicine Research, University of Pittsburgh
1040-1100 Dermatology in Trauma Rehabilitation: Military Experience
CDR Peter R. Shumaker, MD, Chairman, Dermatology, Naval Medical Center San Diego; Clinical Associate Professor of Dermatology, Uniformed Services University of the Health Sciences

1100-1120 Dermatology in Trauma Rehabilitation: Civilian Experience
Jill Waibel, MD, Dermatology and Dermatologic Surgery, University of Miami Miller School of Medicine

1120-1140 A Peek Behind the Curtain: Emerging Technologies
R. Rox Anderson, MD, Director, Wellman Center for Photomedicine; Professor of Dermatology, Harvard Medical School

1140-1200 Panel Discussion

1200-1300 Lunch / Networking

1300-1320 Regenerative Therapies for Soft Tissue Reconstruction
J. Peter Rubin, MD, University of Pittsburgh Medical Center Endowed Professor and Chair of Plastic Surgery; Professor of Bioengineering

1320-1340 Stem Cell Transplantation
Spencer Brown, PhD, Executive Director, Center for Innovation in Restorative Medicine; Professor of Plastic Surgery, University of Pittsburgh Medical Center

1340-1400 Wound Progenitor Cells and the Biology of Heterotopic Ossification
Lt COL Leon Nesti, MD, Department of Orthopedics, Walter Reed National Military Medical Center, Bethesda, MD

1400-1420 Leveraging Autologous Therapies for Cutaneous Wounds and Scars
Lt COL John Meyerle, MD, Dermatology Program Director; Chief, Immunodermatology, Walter Reed National Military Medical Center; Assistant Professor, Department of Dermatology, Uniformed Services University of the Health Sciences

1420-1440 Panel Discussion
1440-1500  **Break / Networking / Research Poster Presentations**

1500-1700  **Clinical Workshops and Prosections** (Bioskills Lab)

**Guest Faculty:** Kodi Azari, MD (UCLA); Alphonso Barrera, MD (Baylor); Edward J. Caterson, MD, PhD (Brigham and Women’s); Leo Kroonen, MD; Todd Kuiken, MD, PhD (Northwestern); Roberto Lachica, MD (University of Tennessee); W.P. Andrew Lee, MD (Johns Hopkins); Bohdan Pomahac, MD (Brigham and Women’s); Richard Redett, MD (Johns Hopkins); Jaimie Shores, MD (Johns Hopkins); Sami Tuffaha, MD (Johns Hopkins)

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- Hand Transplantation
- Face Transplantation
- Extremity Trauma
- Flap Reconstruction
- Genitourinary Trauma
- Hair Transplantation

**Day 3: Saturday, December 6, 2014, Training Summit**

0730-0755  **Morning Refreshments**

0755-0800  **Welcome Remarks / Objectives**

**Restoring Function After Extremity Injury, Part II**

0800-0820  **Advances in Limb Salvage**
  LCDR Robert Sheu, MD, Head, Physical Medicine and Rehabilitation; Medical Director C-5, Naval Medical Center San Diego

0820-0840  **Amputation Issues in the Military**
  COL (USA, Ret) John Shero, Director, DoD-VA Extremity Trauma & Amputation Center of Excellence (EACE)
0840-0900 Long-Term Medical Complications of Limb Loss  
COL (USA, Ret) Paul Pasquina, Walter Reed National Military Medical Center Professor and Chair, Department of Rehabilitation Medicine, Uniformed Services University of the Health Sciences

0900-0920 Wartime Advances in Prosthetics: Experience at NMCSD  
Brian Zalewski, Lead Prosthetist, C5, Naval Medical Center San Diego

0920-0940 Computer Assisted Rehabilitation Environment (CAREN) in TBI and Amputee Populations  
LCDR Jose Dominguez, PT, OCS, Warfighter Performance, Naval Health Research Center, San Diego, CA

0940-1000 Revolutionizing Prosthetics  
COL (USA, Ret) Geoffrey Ling, MD, Director, Biological Technologies Office, Defense Advanced Research Projects Agency (DARPA); Professor of Neurology, Anesthesiology, and Neuroscience, Uniformed Services University of the Health Sciences

1000-1020 Break / Networking / Research Poster Presentations

1020-1040 Wheelchairs and Assistive Robotics  
Rory Cooper, PhD, Director, Human Engineering Research Laboratory, University of Pittsburgh

1040-1100 Rehabilitation of Multiple Limb Combat Amputees  
Jay Pyo, DO, Polytrauma Amputation Network Site Medical Director, Physical Medicine and Rehabilitation, VA San Diego Healthcare System

1100-1120 Panel Discussion  
Fostering Excellence in Lifelong Warrior Care

1120-1140 The Joint Trauma System  
COL Kirby Gross, MD, Director, Joint Trauma System, Joint Base San Antonio, TX

1140-1200 The Future of DoD Trauma Research  
COL Todd Rasmussen, MD, Director, US Combat Casualty Care Research Program, Fort Detrick, MD; Professor of Surgery, Uniformed Services University

1200-1300 Lunch / Networking
1300-1320 **Advancing DoD Research Panel**
Moderator: CAPT (Ret) John D. Malone, MD, Head, Clinical Investigations Department, Naval Medical Center San Diego

1320-1340 **Comprehensive Advanced Restorative Effort**
CAPT Craig Salt, MD, Department of Plastic Surgery, Naval Medical Center San Diego

1340-1400 **Transitions: Military Centers of Excellence and Lifelong Care**
CAPT (Ret) Jennifer Town, Head, Comprehensive Combat and Complex Casualty Care (C5), Naval Medical Center San Diego

1400-1420 **Mental Health Support in Trauma Rehabilitation**
Nancy Kim, PhD, ABPP, Staff Psychologist C5, Naval Medical Center San Diego

1420-1440 **Break / Networking**

1440-1500 **Case Management in Wounded Warrior Care**
CDR (Ret) Laura Ledyard, Lead Case Manager, C5, Naval Medical Center San Diego

1500-1520 **Fostering Excellence in Community Support for Veterans and Their Families**
Anthony M. Hassan, EdD, LCSW, Clinical Professor and Director, Center for Innovation and Research on Veterans and Military Families, University of Southern California School of Social Work

1520-1540 **Panel Discussion. The Best of Both Worlds: Combining the Strengths of our Military, VA, and Civilian Institutions**

1540 **CLOSING REMARKS**
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1300-1320</td>
<td>Wound Management and Scar Physiology</td>
<td>Mayer Tenenhaus, MD, Clinical Professor of Surgery, Division of Plastic Surgery, UCSD Burn Center</td>
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<td>1320-1400</td>
<td>Introduction to Laser Tissue Interactions and Laser Video Demonstration</td>
<td>Nathan Uebelhoer, DO, Dermatologist San Diego, CA; Program Director Emeritus, CARE Summit</td>
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<tr>
<td>1400-1420</td>
<td>Pediatric Laser Scar Revision</td>
<td>Andrew Krakowski, MD, Founder and Director; Kids Scar Treatment and Revision Program (S.T.A.R.); Rady Children’s Hospital, San Diego; Assistant Professor of Clinical Pediatrics and Medicine (Dermatology); University of California, San Diego School of Medicine</td>
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<tr>
<td>1420-1440</td>
<td>Combining Cutaneous Procedural Techniques</td>
<td>Chad Hivnor, MD, (Lt COL, USAFR) San Antonio, TX</td>
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<td>1440-1500</td>
<td>Break / Networking</td>
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<td>1500-1520</td>
<td>Principles of Surgical Traumatic Scar Revision</td>
<td>Matthias Donelan, MD, Chief of Plastic Surgery, Shriner’s Hospital for Children, Boston, MA; Associate Visiting Surgeon, Massachusetts General Hospital; Associate Clinical Professor of Surgery, Harvard Medical School</td>
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<td>1520-1700</td>
<td>Surgical Scar Revision Workshop (For Selected Attendees Only)</td>
<td>Faculty: CDR Curtis Gaball, MD, Chairman, Otolaryngology, Naval Medical Center San Diego; Matthias Donelan, MD; Michelle Arnold, MD, Chief Facial Plastics, Naval Medical Center San Diego; Kathryn Hanna, MD, Department of Orthopedics, Division of Hand Surgery, Naval Medical Center San Diego</td>
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