

**5th Annual Comprehensive Advanced Restorative Effort
(C.A.R.E.) Training Summit 2014 Curriculum
Naval Medical Center San Diego, December 4-6, 2014**

Day 1: Thursday, December 4, 2014

0730-0800 **Registration**

0800-0810 ***Colors and Welcome***

CDR Peter Shumaker, MD, Program Director CARE Summit

CAPT Craig Salt, MD, Founder and Head, CARE

0810-0850 ***Opening Remarks***

CAPT Jose Acosta, MD, Commander, NMCS

RDML David A. Lane, MD, The Medical Officer of the
Marine Corps

RADM Elaine Wagner, DDS, Deputy Chief, Bureau of
Medicine and Surgery, Wounded, Ill, and Injured

Madhulika Agarwal MD, MPH, Deputy Undersecretary for
Health Policy & Services, Department of Veteran's
Affairs

James Rodriguez, MA, Deputy Assistant Secretary of
Defense, Office of Warrior Care Policy

Gary Sinise, Gary Sinise Foundation

0850-0950 ***Patient and Caregiver Perspective***

Moderator: **CDR Peter Shumaker**, Chairman, Dermatology,
Naval Medical Center San Diego

0950-1000 **Break / Networking**

1000-1020 ***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

Facial Restoration After Traumatic Injury

- 1020-1040 ***Facial Restoration after Trauma***
COL (USAR) 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, U.S. Army Institute for Surgical Research
- 1040-1100 ***Craniofacial Reconstruction***
Jose Barrera, MD, Private practice, San Antonio, TX. Former Chief, Otolaryngology Service and Chief, Plastic and Reconstructive Surgery, San Antonio Military Medical Center
- 1100-1120 ***Face Transplantation***
Bohdan Pomahac, MD, Director, Plastic Surgery Transplantation; Medical Director, Burn Center, Brigham and Women's Hospital; Associate Professor, Harvard Medical School
- 1120-1140 **Panel Discussion**
- 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
- 1340-1400 ***Taking TMR Farther with Pattern Recognition Control***
Todd Kuiken, PhD, Director, Center for Bionic Medicine; Professor of PM& R, Biomedical Engineering, and Surgery, Northwestern University

1400-1420 ***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

1420-1440 **Panel Discussion**

1440-1500 **Break / Networking / Research Poster Presentations**

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

Guest Faculty: **Anthony Atala, MD** (Wake Forest); **Kodi Azari, MD** (UCLA); **Leo Kroonen, MD** (Kaiser San Diego); **Todd Kuiken, MD, PhD** (Northwestern); **W.P. Andrew Lee, MD** (Johns Hopkins); **Bohdan Pomahac, MD** (Brigham and Women's); **Richard Redett, MD** (Johns Hopkins); **Jaimie Shores, MD** (Johns Hopkins); **Simon Talbot, MD** (Brigham and Women's); **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

0730-0800 **Morning Refreshments**

0800-0810 **Welcome Remarks**

CAPT Jose Acosta, MD, Commander, NMCS D

Congresswoman Susan A. Davis, California's 53rd
Congressional District; House Armed Services
Committee; Ranking Member, Military Personnel
Subcommittee

Rethinking Traumatic Brain Injury

0810-0830 ***Neurobiology of TBI***

David Hovda, PhD, Department of Neurosurgery, UCLA;
Professor and Vice Chairman of Research Affairs;
Director, UCLA Brain Injury Research Center

0830-0850 ***Heterogeneity of TBI***

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

0850-0910 ***Auditory/Vestibular Issues in TBI***

CAPT (USN, Ret) Michael Hoffer, MD, Professor,
Department of Otolaryngology, University of Miami
School of Medicine

0910-0930 ***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

0930-0940 **Panel Discussion**

0940-1000 ***Interagency (DoD/VA) Care Coordination Committee (IC3)***

Margarita Devlin, Executive Director, Office of
Interagency Care and Benefits Coordination, Department
of Veterans Affairs

1000-1020 **Break / Networking / Research Poster Presentations**

Regenerative Therapies and Emerging Technologies

- 1020-1040 ***Wheelchairs and Assistive Robotics***
Rory Cooper, PhD, Director, Human Engineering Research Laboratory, University of Pittsburgh
- 1040-1100 ***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
- 1100-1120 ***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
- 1120-1140 ***Potential Therapeutic Applications of Autologous Fibroblasts for Scars and Other Skin Trauma***
John Maslowski, MS, Vice President of Scientific Affairs, Fibrocell Science
- 1140-1200 **Panel Discussion**
- 1200-1300 **Lunch / Networking**
- 1300-1320 ***Principles of Traumatic Scar Revision***
Matthias Donelan, MD, Chief of Plastic Surgery, Shriners' Hospital for Children, Boston, MA; Associate Visiting Surgeon, Massachusetts General Hospital; Associate Clinical Professor of Surgery, Harvard Medical School
- 1320-1340 ***Dermatology? In Trauma Rehabilitation?***
Jill Waibel, MD, Dermatology and Dermatologic Surgery, University of Miami Miller School of Medicine

1340-1400 ***A Peek Behind the Curtain: Emerging Technologies***
R. Rox Anderson, MD, Director, Wellman Center for
Photomedicine; Professor of Dermatology, Harvard
Medical School

1400-1420 **Panel Discussion**

1420-1440 ***Integrated Care Model for Combat-Related PTSD***
Lu D. Le, DO, MBA, Overcoming Adversity and Stress
Injury Support (OASIS); Residential PTSD Program;
Department of Mental Health and Comprehensive Combat
and Complex Casualty Care (C5)

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); **Leo Kroonen, MD**; **Todd Kuiken, MD, PhD** (Northwestern);
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)

NMCSF 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 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 ***Cutaneous Procedures to Help Restore Function***
CDR Peter R. Shumaker, MD, Chairman, Dermatology, Naval Medical Center San Diego; Clinical Associate Professor of Dermatology, Uniformed Services University of the Health Sciences
- 0840-0900 ***Amputation Issues in the Military***
COL (USA, Ret) John Shero, Director, DoD-VA Extremity Trauma & Amputation Center of Excellence (EACE)
- 0900-0920 ***Rehabilitation of Multiple Limb Combat Amputees***
Jay Pyo, DO, Polytrauma Amputation Network Site Medical Director, Physical Medicine and Rehabilitation, VA San Diego Healthcare System
- 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 ***Long-Term Medical Complications of Limb Loss***
MAJ Matthew Miller, MD, Associate Program Director, Physical Medicine and Rehabilitation, Walter Reed National Military Medical Center
- 1000-1010 **Panel Discussion**
- 1010-1030 **Break / Networking**

Fostering Excellence in Lifelong Warrior Care

- 1030-1050 ***Comprehensive Advanced Restorative Effort***
CAPT Craig Salt, MD, Department of Plastic Surgery, Naval Medical Center San Diego
- 1050-1110 ***The Joint Trauma System***
COL Kirby Gross, MD, Director, Joint Trauma System, Joint Base San Antonio, TX

- 1110-1130 ***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
- 1130-1200 ***Advancing DoD Research: Panel Discussion***
Moderator: CAPT (Ret) John D. Malone, MD, Head, Clinical Investigations Department, Naval Medical Center San Diego
Participants: Wayman Cheatham, MD, Director, Research Administration and External Research Affairs, BUMED
COL Todd Rasmussen, MD, Director, US Combat Casualty Care Research Program, Fort Detrick, MD
- 1200-1300 **Lunch / Networking**
- 1300-1320 ***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
- 1320-1340 ***Mental Health Support in Trauma Rehabilitation***
Nancy Kim, PhD, ABPP, Staff Psychologist C5, Naval Medical Center San Diego
- 1340-1400 ***Case Management in Wounded Warrior Care***
CDR (Ret) Laura Ledyard, Lead Case Manager, C5, Naval Medical Center San Diego
- 1400-1420 ***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
- 1420-1450 ***Panel Discussion. The Best of Both Worlds: Combining the Strengths of our Military, VA, and Civilian Institutions***
Participants: Debbie Paxton, Anthony Hassan, Jennifer Town
- 1450-1500 **CLOSING REMARKS**
RDML Bruce Gillingham, MD, Navy Medicine West