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*Vernon W. Lin, MD, PhD*
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## PRECONFERENCE COURSES AND WORKSHOPS

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*Monday–Wednesday, June 2–4, 2003  
Location: VA Long Beach Healthcare System*

<b>Module 1</b> (Monday a.m.)	MEDICAL MANAGEMENT
<b>Module 2</b> (p.m.)	MUSCULOSKELETAL CARE AND REHABILITATION
<b>Module 3</b> (a.m.)	SPINAL CORD NURSING
<b>Module 4</b> (p.m.)	SKIN INTEGRITY
<b>Module 5</b> (Tuesday a.m.)	MANAGEMENT OF BLADDER, BOWEL, AND SEXUAL DYSFUNCTION
<b>Module 6</b> (p.m.)	PSYCHOSOCIAL AND SUPPORT ENVIRONMENT
<b>Module 7</b> (a.m.)	SCI CLINICAL PRACTICE GUIDELINES AND VA PERFORMANCE MEASURES
<b>Module 8</b> (p.m.)	SPINAL CORD RESEARCH (PART I) AND A TOUR TO THE REEVE-IRVINE SPINAL CORD RESEARCH CENTER AT UNIVERSITY OF CALIFORNIA AT IRVINE
<b>Module 9</b> (Wednesday a.m.)	SPECIAL TOPICS ON SCI/D CARE
<b>Module 10</b> (p.m.)	SPINAL CORD RESEARCH (PART II)
<b>Module 11</b> (a.m.) <sup>#</sup>	PATIENT, FAMILY, AND CARE PROVIDER EDUCATION (PART I)
<b>Module 12</b> (p.m.) <sup>#</sup>	PATIENT, FAMILY, AND CARE PROVIDER EDUCATION (PART II)

Note: The a.m. programs are from 8:00 a.m.–12:00 p.m. and the p.m. programs are from 1:00–5:00 p.m. The <sup>#</sup> denotes programs open to patients, families, attendants, staff, and the SCI/D community at large.

*Monday 7:00 a.m.—Registration, Check-In***Module 1** (a.m.)

## MEDICAL MANAGEMENT

Location:

Employee Education Resource Center (Building 11), Room 125

Comoderators:

**Robert McAnelly, MD**

Chief, Physical Medicine and Rehabilitation, Las Vegas VA Healthcare System

**Vernon Lin, MD, Program Chair**

Associate Chief of Staff for Healthcare Initiatives; Director, Spinal Cord Institute, VA Long Beach Healthcare System; Associate Professor in Residence, Physical Medicine and Rehabilitation, University of California at Irvine

8:00–8:10

INTRODUCTION

8:10–8:40

*Neurological Assessment of SCI/D***Michael Scott, MD**

Director, SCI Rehabilitation Service, Rancho Los Amigos National Rehabilitation Center

8:40–9:10

*Spinal Cord Pathologies***Ronald Kim, MD**

Clinical Professor in Residence, Pathology\*

9:10–9:40

*Spasticity Management***Patricia Nance, MD**

Chief, Comprehensive Rehabilitation\*

9:40–10:00

Break

10:00–10:30

*Primary Care for Patients with SCI/D***Lourdes Aesquivel, MD**

Staff Physician\*

10:30–11:00

*Pain Management***Paul Gutierrez, MD**

Acting Chief, SCI/D HCG\*

11:00–11:30

*Autonomic Dysreflexia***Robert McAnelly, MD**

11:30 a.m.–12:00 p.m.

Questions and Discussion

12:00–1:00

Lunch Break

**Module 2** (p.m.)

## MUSCULOSKELETAL CARE AND REHABILITATION

Location:

Employee Education Resource Center (Building 11), Room 125

Comoderators:

**Anne Nastasi, MD**

Chief, SCI, Greater Los Angeles VAHS

**Patricia Nance, MD**

1:00–1:10

INTRODUCTION

1:10–1:40

*Driver Training and Kinesiotherapy***Michael Lee**

Kinesiotherapist\*

\*Faculty from VALBHS or UCI.

1:40–2:00	<i>Physical Therapies for Patients with SCI/D</i> <b>Jennifer Imrie, PT</b> Physical Therapist*
2:00–2:20	<i>Occupational Therapies for Patients with SCI/D</i> <b>Maria Lim</b> Occupational Therapist*
2:20–2:40	<i>Recreation and Leisure Skills for People with SCI/D</i> <b>Craig Holmes</b> Chief, Recreational Therapy*
2:40–3:00	Break
3:00–3:20	<i>Vocational Rehabilitation Counseling</i> <b>Steve Long</b> Vocational Rehabilitation Specialist*
3:20–3:40	<i>Upper Limb Management</i> <b>Ching Lam, MD</b> Staff Physician*
3:40–4:00	<i>Outpatient Wheelchair Clinic</i> <b>Ann Nastasi, MD</b>
4:00–4:30	<i>Prosthetic Needs for Patients with SCI/D</i> <b>Ed Ayyappa, MS, CPO</b> Prosthetic Clinical Manager, VISN 22
4:30–5:00	Questions and Discussion
5:00 p.m.	Adjourn
<b>Module 3 (a.m.)</b>	SPINAL CORD NURSING
Location:	Building 8, Room 119
Moderator:	<b>Niettchy N. Meiselbach, MS, RN</b> Nurse Practitioner*
8:00–8:10	INTRODUCTION
8:10–9:00	<i>Assessment and Management of Patients with Acute SCI</i> <b>Marilyn Pires, MS, RN, CRRN-A, FAAN</b> Clinical Nurse Specialist, SCI, Rancho Los Amigos National Rehabilitation Center
9:00–9:40	<i>Out-Patient Nursing Care</i> <b>Niettchy N. Meiselbach, MS, RN*</b>
9:40–10:00	Break
10:00–10:45	<i>Pain Management</i> <b>Richard Hanson, PhD</b> Staff Psychologist*
10:45–11:30	<i>Staff Safety Training in the SCI Setting</i> <b>Audrey Nelson, PhD, RN</b> Research Scientist, Tampa VA Healthcare System
11:30 a.m.–12:00 p.m.	Questions and Discussion

\*Faculty from VALBHS or UCI.

12:00–1:00	Lunch Break
<b>Module 4</b> (p.m.)	SKIN INTEGRITY
Location:	Building 8, Room 119
Comoderators:	<b>Robert Montroy, MD</b> Assistant Chief, SCI/D HCG* <b>Ibrahim Eltorai, MD</b> Staff Surgeon*
1:00–1:10	INTRODUCTION
1:10–1:50	<i>Nonsurgical Management of Pressure Ulcers</i> <b>Michael Priebe, MD</b> Chief, SCI Service, Dallas VA Healthcare System
1:50–2:30	<i>Surgical Management of Pressure Ulcers</i> <b>Robert Montroy, MD*</b>
2:30–2:50	Break
2:50–3:30	<i>Postoperative Nursing Management of Myocutaneous Flaps</i> <b>Marilyn Pires, MS, RN, CRRN-A, FAAN</b> Rancho Los Amigos National Rehabilitation Center
3:30–4:00	<i>Cushion Evaluation</i> <b>Terry Smith</b> Kinesiotherapist*
4:00–4:30	<i>Physical Therapy in Pressure Ulcer Management</i> <b>Alicia McLelland, PT</b> Rancho Los Amigos National Rehabilitation Center
4:30–5:00	Questions and Discussion
5:00 p.m.	Adjourn

*Tuesday 7:00 a.m. Registration, Check-In, Exhibits, Poster Viewing*

<b>Module 5</b> (Tuesday a.m.)	MANAGEMENT OF BLADDER, BOWEL, AND SEXUAL DYSFUNCTION
Location:	Employee Education Resource Center (Building 11), Room 125
Comoderators:	<b>Regina Hovey, MD</b> Assistant Clinical Professor, Urology* <b>Leland Ronningen, MD</b> Assistant Clinical Professor, Urology*
8:00–8:50	<i>Urodynamic Study and Neurourological Management for Patients with SCI/D</i> <b>Regina Hovey, MD*</b>
8:50–9:30	<i>Urolithiasis in Spinal Cord Disorders</i> <b>Leland Ronningen, MD*</b>
9:30–9:50	Break
9:50–10:30	<i>Sexual Dysfunction and Infertility in SCI/D</i> <b>Leland Ronningen, MD</b>

\*Faculty from VALBHS or UCI.

10:30–11:00	<i>Patient and Staff Education for Bladder Management</i> <b>Elaine Smith, RN</b> Urology Nurse*
11:00–11:30	<i>Preserving Renal Function in Patients with Renal Insufficiency</i> <b>Gaurang M. Shah, MD</b> Chief Nephrology Section*
11:30 a.m.–12:00 p.m.	<i>Bowel Management for Patients with SCI/D</i> <b>Marilyn Pires, MS, RN, CRRN-A, FAAN</b> Clinical Nurse Specialist, SCI, Rancho Los Amigos National Rehabilitation Center
12:00–1:00	Lunch Break
<b>Module 6</b> (p.m.)	PSYCHOSOCIAL AND SUPPORT ENVIRONMENT
Location:	Employee Education Resource Center (Building 11), Room 125
Comoderators:	<b>David Kerner, PhD</b> Staff Psychologist* <b>Linda Mona, PhD</b> Staff Psychologist*
1:00–1:10	INTRODUCTION
1:10–1:40	<i>Psychosocial Aspects of SCI Rehabilitation</i> <b>David Kerner, PhD*</b>
1:40–2:10	<i>Social Issues in SCI/D</i> <b>Martha Davis, MSW*</b> <b>Jerelyn Dugas, MSW*</b>
2:10–2:40	<i>Challenging Psychosocial Issues in SCI</i> <b>Kenneth Cole, PhD</b> Staff Psychologist* <b>James Nelson, MD</b> Staff Physician*
2:40–3:00	Break
3:00–3:30	<i>Sexuality and Spinal Cord Injury</i> <b>Linda Mona, PhD*</b>
3:30–3:50	<i>Community Resources and Personal Attendant Care</i> <b>Diana Selover, MSW*</b>
3:50–4:10	<i>Factors Associated with Recurrent Admissions and Length of Stay in SCI</i> <b>John McClelland, MSW*</b>
4:10–4:30	<i>Health Promotion in SCI/D</i> <b>Martin Kenigsberg, PhD</b> Staff Psychologist*
4:30–5:00	Questions and Discussion
5:00 p.m.	Adjourn
<b>Module 7</b> (a.m.)	SCI CLINICAL PRACTICE GUIDELINES AND VA PERFORMANCE MEASURES
Location:	Building 8, Room 119

Comoderators:	<b>Audrey Nelson, PhD, RN</b> Professor and Associate Director of Research, College of Nursing, University of South Florida; Director, Patient Safety Research Center, Tampa VA Healthcare System <b>Bonnie Taylor, RN</b> Performance Improvement Consultant*
8:00–8:10	INTRODUCTION
8:10–9:00	<i>Implementation of the SCI Clinical Practice Guidelines</i> <b>Audrey Nelson, PhD</b>
9:00–9:40	<i>Application of CARF and JCAHO Standards in the SCI System of Care</i> <b>Bonnie Taylor, RN</b>
9:40–10:00	Break
10:00–10:30	<i>VA Performance Measures</i> <b>Maureen Kelly, RRA*</b>
10:30–11:00	<i>Implementation of the VA Performance Measures</i> <b>Niettchy N. Meiselbach, MS, RN*</b> <b>Cathryn Miller, RN*</b>
11:00–11:30	<i>SCI Annual Evaluation Health Summary and the Computerized Patient Record System</i> <b>Nancy Thomas, MSW, LCSW</b> Clinical Application Coordinator*
11:30 a.m.–12:00 p.m.	Questions and Discussion
12:00–1:00	Lunch Break
<b>Module 8</b> (p.m.)	SPINAL CORD RESEARCH (PART I)
Location:	Building 8, Room 119
Comoderators:	<b>Steven Schandler, PhD</b> Professor of Psychology, Chapman University* <b>Jerome Tobis, Professor Emeritus</b> Physical Medicine and Rehabilitation*
1:00–1:10	INTRODUCTION
1:10–1:30	<i>Motor Imagery and Cortical Sensorimotor Plasticity</i> <b>Michael Lacourse, PhD</b> Department Chair of Kinesiology, California State University, Long Beach*
1:30–1:50	<i>Brain Imaging of Spinal Cord Injury</i> <b>Jessica Turner, PhD</b> Research Specialist, Department of Psychiatry and Human Behavior*
1:50–2:10	<i>Alcohol Use and the Occurrence of SCI</i> <b>Steven Schandler, PhD*</b>
2:30–5:00	A TOUR TO THE REEVE-IRVINE SPINAL CORD RESEARCH CENTER AT UNIVERSITY OF CALIFORNIA AT IRVINE
Hosts:	<b>Oswald Steward, PhD</b> Reeve-Irvine Professor*

\*Faculty from VALBHS or UCI.

Hosts (Cont'd.): **Hans Keirstead, PhD,**  
Assistant Professor, Anatomy and Neurobiology\*  
**Maura Hofstadter, PhD**  
Director of Education and Scientific Liaison

*Wednesday 7:00 a.m. Registration, Check-In*

**Module 9** (Wednesday a.m.) SPECIAL TOPICS ON SCI/D CARE

Location: Employee Education Resource Center (Building 11), Room 125

Comoderators: **Ifaenyi Ohalete, PharmD\***

**Diane Huntington**  
Respiratory Therapist\*

8:00–8:10 INTRODUCTION

8:10–8:40 *Spinal Cord Injury: The Role of Pharmacokinetics in Optimizing Drug Therapy*

**Jack L. Segal, MD, FACP**

Professor of Medicine, University of California at Los Angeles

8:40–9:10 *Respiratory Management for Patients with SCI/D*

**Crystal Polatty, MD**

Chief, Pulmonary/Critical Care Service, Richmond VA Healthcare System

9:10–9:40 *Ventilator and Respiratory Care*

**Diane Huntington, RT\***

9:40–10:00 Break

10:00–10:30 *Dietary Considerations for SCI/D Individuals*

**Kristy Long, MS**

Dietitian\*

10:30–11:00 *Pharmacy and Supply Needs for the SCI/D Patients*

**Ifaenyi Ohalete, PharmD\***

11:00–11:30 *Latex Allergy*

**Lily C. Pien, MD**

Cleveland Clinic Foundation

11:30 a.m.–12:00 p.m. *Management of Thromboembolism in Patients with SCI*

**Arundhati Perakash, MD, PhD**

Staff Clinical Pathologist, VA Palo Alto Healthcare System; Clinical Associate Professor, Stanford University

12:00–1:00 Lunch Break

**Module 10** (p.m.) SPINAL CORD RESEARCH (PART II)

Location: Employee Education Resource Center (Building 11), Room 125

\*Faculty from VALBHS or UCI.

Comoderators:	<b>Robert Waters, MD</b> Chief Medical Officer, Rancho Los Amigos National Rehabilitation Center <b>Jen Yu, MD</b> Professor and Chair, Department of Physical Medicine and Rehabilitation*
1:00–1:10	INTRODUCTION
1:10–1:30	<i>Robotic Designs for Ambulatory Training for SCI</i> <b>David Reinkensmeyer, PhD</b> Assistant Professor, Department of Mechanical Engineering*
1:30–1:50	<i>Shoulder Preserving Strategies for Wheelchair Propulsion</i> <b>Sarah Mulroy, PT, PhD</b> Rancho Los Amigos National Rehabilitation Center
1:50–2:10	<i>Biomechanics of the Shoulder in Persons with SCI</i> <b>Thay Q. Lee, PhD</b> Associate Professor of Orthopedics and Biomedical Engineering*
2:10–2:30	<i>Using Peripheral Grafts for Spinal Cord Repairs</i> <b>Yu-Sheng Lee</b> Graduate Student*
2:30–2:50	Break
2:50–3:10	<i>Functional Magnetic Stimulation–Noninvasive Neuromuscular Stimulation</i> <b>Ian Hsiao, PhD</b> Research Specialist*  <b>Xiaoming Deng, MD, PhD</b> Research Specialist*
3:10–3:30	<i>Locomotor Training: Implications for Recovery of Walking after Neurologic Injury</i> <b>Susan Harkema, PhD</b> Assistant Professor, Department of Neurology, University of California at Los Angeles
3:30–3:50	<i>Neural Repair of Cauda Equina/Conus Medullaris Injury in a Rat Model</i> <b>Leif A. Havton, MD, PhD</b> Assistant Professor, Department of Neurology, University of California at Los Angeles
3:50–4:10	<i>The Role of Neurotrophins on Experience-Induced Recovery Following CNS Injury</i> <b>Fernando Gomez-Pinilla, PhD</b> Associate Professor, Division of Neurosurgery, University of California at Los Angeles
4:10–4:30	<b>Aileen Anderson, PhD</b> Assistant Professor, Department of Physical Medicine and Rehabilitation*
4:30–5:00	Questions and Discussion
5:00 p.m.	Adjourn

**SPECIAL PROGRAM—PATIENT AND CARE PROVIDER DAY**  
*Wednesday, June 4, 2003*

**Module 11** (a.m.)                      PATIENT AND CARE PROVIDER EDUCATION (PART I)

Location:                                Building 2, Second Floor, Pantages Theatre

\*Faculty from VALBHS or UCI.

Comoderators:	<b>Diane Selover, MSW*</b> <b>Linda Mona, PhD</b> Staff Psychologist*
9:00–9:10	INTRODUCTION
9:10–9:40	<i>Management of Pain in SCI/D</i> <b>Diana D. Cardenas, MD, MHA</b> Professor, Department of Physical Medicine and Rehabilitation, University of Washington School of Medicine; Project Director, Northwest Regional SCI System <b>Paul Gutierrez, MD*</b>
9:40–10:10	<i>Lipid Management</i> <b>Moti Kashyap, MD</b> Professor of Medicine* <b>Niettchy Meiselbach, RN*</b>
10:10–10:30	Break
10:30–11:00	<i>Musculoskeletal Changes with Aging</i> <b>Robert Waters</b> Chief Medical Officer, Rancho Los Amigos National Rehabilitation Center <b>Jennifer Imrie, PT*</b>
11:00–11:30	<i>Sexual Dysfunction in SCI/D</i> <b>Leland Ronningen, MD</b> Staff Surgeon* <b>Linda Mona, PhD</b> Staff Psychologist*
11:30 a.m.–12:00 p.m.	<i>Respiratory Management for Patients with SCI/D</i> <b>Crystal Polatty, MD</b> <b>Diane Huntington, RT*</b>
12:00–1:00	Lunch Break
<b>Module 12 (p.m.)</b>	PATIENT AND CARE PROVIDER EDUCATION (PART II)
Location:	Building 2, Second Floor, Pantages Theatre
Moderator:	<b>Niettchy Meiselbach, RN*</b>
1:00–2:30	<i>The SCI Upper Limb Program</i> <b>Charles Hamlin, MD</b> Hand Surgery Associate, Denver, CO <b>Vincent Hentz, MD</b> Professor of Surgery, Stanford University <b>Ching Lam, MD</b> Staff Physician* <b>Maria Lim, OT*</b> <b>Matthew Malerich</b> Orthopaedic Surgeon*
2:30–3:00	Break

\*Faculty from VALBHS or UCI.

3:00–3:30	<i>Aging with SCI/D</i> <b>Bryan J. Kemp</b> Clinical Professor of Medicine, Academic Geriatric Resource Center,* and Rancho Los Amigos National Rehabilitation Center <b>Diane Selover, MSW*</b>
3:30–4:00	<i>Bowel Management</i> <b>Frederick Frost, MD</b> Cleveland Clinic Foundation <b>Nietty Meiselbach, RN*</b>
4:00–4:30 p.m.	<i>Bladder Management</i> <b>Inder Perkash, MD</b> Chief, SCI Service, Palo Alto VA Healthcare System; Professor of Urology and Physical Medicine and Rehabilitation, PVA Professor of Spinal Cord Injury Medicine, Stanford University <b>Marilyn Pires, MS, RN</b> Rancho Los Amigos National Rehabilitation Center

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**MAIN SPINAL CORD CONFERENCE**

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*Thursday–Saturday, June 5–7, 2003*  
*Location: Hyatt Regency of Long Beach*

**THE JAMES J. PETERS SYMPOSIUM ON ADVANCES IN SPINAL CORD RESEARCH AND CLINICAL CARE**  
*Thursday, June 5, 2003, 8:00 a.m. to 5:00 p.m.*

DAILY ACTIVITIES

7:00 a.m.–5:00 p.m.	Registration Regency Foyer, Third Level
7:00 a.m.–6:00 p.m.	Speaker Room Pacific, Lower Level
7:00–8:00 a.m.	Poster Viewing and Exhibits Regency Ballroom DEF, Third Level
7:00–8:00 a.m.	Continental Breakfast Regency Ballroom DEF, Third Level
8:00 a.m.–12:00 p.m.	Morning Platform Session Regency Ballroom A, Third Level
Comoderators:	<b>Robert Waters, MD</b> Clinical Professor of Orthopedic Surgery, University of Southern California; Medical Director, Rancho Los Amigos National Rehabilitation Center <b>Michael Cohen, PhD</b> Adjunct Professor of Psychiatry and Human Behavior*
8:00 a.m.	INTRODUCTION AND A SPECIAL TRIBUTE TO MR. JAMES J. PETERS

\*Faculty from VALBHS or UCI.

- 8:00 **Vernon Lin, MD, Program Chair**  
Associate Chief of Staff for Healthcare Initiatives; Director, Spinal Cord Institute, VA Long Beach Healthcare System; Associate Professor in Residence, Physical Medicine and Rehabilitation
- 8:05 WELCOME REMARKS
- Sandor Szabo, MD, PhD**  
Chief of Staff, Professor of Pathology and Pharmacology\*
- Thomas C. Cesario, MD**  
Professor of Medicine, Dean, College of Medicine\*
- 8:10 *Mechanisms of Neuronal Cell Death and Recovery in the CNS*  
**Steve Schreiber, MD**  
Chief, Neurology\*
- 8:30 *The Potential of Human Embryonic Stem Cells for SCI Treatment*  
**Hans S. Keirstead, PhD**  
Assistant Professor, Department of Anatomy and Neurobiology, Reeve-Irvine Research Center\*
- 8:50 *Spinal Cord Repair Strategies*  
**Henrich Cheng, MD, PhD**  
Director, Neural Regeneration Laboratory, Neurological Institute, Veterans General Hospital of Taipei
- 9:10 *Neuroplasticity of the Central Nervous System after Spinal Cord Injury*  
**Jessica Turner, PhD**  
Research Specialist\*
- 9:30–10:00 Refreshment Break  
Regency Ballroom DEF, Third Level
- 10:00 *Pharmacological Changes of the Spinal Cord Associated with Learning a Motor Task*  
**Reggie V. Edgerton, PhD**  
Professor, Brain Research Institute, Physiological Science Department, Neurology Department, University of California, Los Angeles, Los Angeles, California
- 10:20 *Advances in Urological Management*  
**Inder Perakash, MD**  
Professor of Urology and Physical Medicine and Rehabilitation; PVA Professor of Spinal Cord Medicine, Stanford University School of Medicine; Chief, SCI Service, Palo Alto VA Healthcare System, Palo Alto, California
- 10:40 *Bions: History and Potential*  
**Gerald E. Loeb, MD**  
Director of Medical Device Development, Alfred E. Mann Institute for Biomedical Engineering; Professor of Biomedical Engineering, University of Southern California, Los Angeles, California
- 11:00 *Bions: Future Studies and Next Generation Self-Powered Devices*  
**Joseph Schulman**  
President, Alfred Mann Foundation
- Ross Davis, MD**  
Medical Consultant, Alfred Mann Foundation, Santa Clarita, California

\*Faculty from VALBHS or UCI.

11:30	Questions and Discussion
12:00–1:00 p.m.	Lunch
	Poster Session 1 (Posters 1–8) Regency Ballroom DEF, Third Level
Moderator:	<b>Ronald Kim, MD</b> Clinical Professor in Residence, Pathology*
1:00–5:00	Afternoon Platform Session Regency Ballroom A, Third Level
Comoderators:	<b>Robert Montroy, MD</b> Assistant Chief, SCI/D HCG* <b>Michael Scott, MD</b> Director, SCI Rehabilitation Service, Rancho Los Amigos National Rehabilitation Center
1:00	<i>The SCI System of Care in the VA System</i> <b>Margaret Hammond, MD</b> Chief Consultant, VA SCI/D Strategic Healthcare Group, Professor of Physical Medicine and Rehabilitation, University of Washington, Seattle
1:20	<i>SARS Update</i> <b>Rabih O. Darouiche, MD</b> Professor of Physical Medicine and Rehabilitation, Director, Center for Prosthesis Infection, Baylor College of Medicine
1:40	<i>Management of Pulmonary Infections and Sepsis for Patients with SCI/D</i> <b>Rabih O. Darouiche, MD</b>
2:00	<i>Survey of Prevalence of Dyslipidemia in Patients with Spinal Cord Injury</i> <b>Moti Kashyap, MD</b> Professor of Medicine*
2:20	<i>Cardiovascular Dysfunction in Spinal Cord Disorders</i> <b>Sunil Sabharwal, MD</b> SCI Director, VISN 1
2:40–3:00	Refreshment Break Regency Ballroom DEF, Third Level
3:00	<i>Functional Magnetic Stimulation for Patients with SCI/D</i> <b>Vernon W. Lin, MD, PhD*</b>
3:20	<i>Outcomes in Spinal Cord Injury</i> <b>Robert Waters, MD</b> Clinical Professor of Orthopedic Surgery, University of Southern California, Project Director, Southern California Regional SCI System; Chief Medical Officer, Rancho Los Amigos National Rehabilitation Center, Downey, California
3:40	<i>Recent Advances in the Management of Multiple Sclerosis</i> <b>Michael Olek, MD</b> Assistant Professor in Neurology, Director, MS Clinic*
4:00	<i>The Immune System and Inflammatory Response in Persons with SCI</i> <b>Frederick S. Frost, MD</b> Cleveland Clinic Foundation, Cleveland, Ohio

4:20 *Lower Limb Orthotics in SCI/D*  
**Ed Ayyappa, MS, CPO**  
 Prosthetic Clinical Manager, Desert Pacific Veterans Integrated System\*

4:40 Questions and Discussion

6:00–7:30 p.m. WELCOME RECEPTION  
 BEACON ROTUNDA, THIRD LEVEL

### **RESPIRATORY AND CRITICAL CARE SYMPOSIUM**

*Friday, June 6, 2003, 8:00 a.m. to 5:00 p.m.*

#### DAILY ACTIVITIES

7:00 a.m.–5:00 p.m. Registration  
 Regency Foyer, Third Level

7:00 a.m.–5:00 p.m. Speaker Room  
 Pacific, Lower Level

7:00 a.m.–5:00 p.m. Poster Viewing and Exhibits  
 Regency Ballroom DEF, Third Level

7:00–8:00 a.m. Continental Breakfast  
 Regency Ballroom DEF, Third Level

8:00 a.m.–12:00 p.m. Morning Platform Session  
 Regency Ballroom A, Third Level

Comoderators: **Kees Mahutte, MD**  
 Chief, Pulmonary and Critical Care\*  
**Scott Sasse, MD**  
 Assistant Professor in Residence, Department of Medicine\*

8:00 a.m. INTRODUCTION

8:10 *Anatomy and Physiology of the Respiratory System*  
**Archie Wilson**  
 Emeritus Professor of Medicine\*

8:30 *Basic Neural Mechanisms for Control of Breathing*  
**Jack L. Feldman, PhD**  
 Professor, Department of Neurobiology, David Geffen School of Medicine, University of California at Los Angeles

8:50 *Pulmonary Function Testing and Evaluation for Patients with SCI/D*  
**Ann Spungen, EdD**  
 Associate Director, VA RR&D Center, Bronx VA Healthcare System; Associate Professor of Medicine and Rehabilitation, Mount Sinai School of Medicine

9:10 *Epidemiology of Respiratory Dysfunction in SCI*  
**Eric Garshik, MD**  
 Associate Chief, Pulmonary and Critical Care, Boston VA Healthcare System; Assistant Professor of Medicine, Harvard Medical School

9:30–10:00 Refreshment Break  
 Regency Ballroom DEF, Third Level

\*Faculty from VALBHS or UCI.

10:00	<i>Assessment of Airway Dynamics and Mechanisms of Bronchoconstriction in Tetraplegia</i> <b>Marvin Lesser, MD</b> Chief of Pulmonary and Critical Care Medicine, Bronx VA Healthcare System
10:20	<i>Critical Care for Patients with Acute Spinal Cord Injury</i> <b>Howard Belzberg, MD</b> Director, Medical Intensive Care Unit, University of Southern California, School of Medicine
10:40	<i>Neurosurgical Monitoring for Patients with Acute SCI</i> <b>Peter J. Gruen, MD</b> Department of Neurosurgery, University of Southern California, School of Medicine
11:00	<i>Electrodiagnostic Evaluation in the Critical Care Environment</i> <b>Shu Huang, MD</b> Clinical Associate Professor, Case Western Reserve University
11:20	<i>Critical Care for Patients with Chronic SCI/D</i> <b>Kees Mahutte, MD</b> Chief, Pulmonary Section, Medical Healthcare Group*
11:40	Questions and Discussion
12:00–1:00 p.m.	Lunch  Poster Session 2 (Posters 9–16) Regency Ballroom DEF, Third Level
Moderator:	<b>Frederick S. Frost, MD</b> Cleveland Clinic Foundation
1:00–5:00 p.m.	Afternoon Platform Session Regency Ballroom A, Third Level
Comoderators:	<b>Archie Wilson, MD</b> Emeritus Professor of Medicine* <b>Sunil Sabharwal, MD</b> SCI Director, VISN 1
1:00	<i>Critical Care Nursing for Patients with SCI/D</i> <b>Patricia Irvin, RN</b> Assistant Chief, Surgical Healthcare Group*
1:20	<i>Anemia and Blood Transfusion in Critically Ill</i> <b>Howard L. Corwin, MD, FCCP</b> Professor of Medicine and Anesthesiology; Section Chief, Critical Care Medicine; Medical Director, Intensive Care Unit, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire
1:40	<i>Reactive Airway Diseases</i> <b>Lily C. Pien, MD</b> Cleveland Clinic Foundation, Cleveland, Ohio
2:00	<i>COPD</i> <b>Archie Wilson, MD</b>

\*Faculty from VALBHS or UCI.

2:20	<i>Mechanical Ventilation in SCI/D</i> <b>Catherine S.H. Sassoon, MD</b> Professor of Medicine*
2:40–3:00	Refreshment Break Regency Ballroom DEF, Third Level
3:00	<i>Deep Venous Thrombosis (DVT) and Pulmonary Embolism (PE) in Spinal Cord Injury</i> <b>Chris Cross, MD</b> Professor of Medicine, University of California, Davis
3:20	<i>Special Therapy Issues Related to SCI/D Care</i> <b>James Canfield, BS, CCPT</b> Technical Director for Pulmonary and Critical Care Medicine, Palo Alto VA Healthcare System
3:40	<i>Communication and Swallowing Issues in High Spinal Cord Injuries</i> <b>Heather Liles, MS, CCC-SLP</b> Rancho Los Amigos National Rehabilitation Center
4:00	<i>Exercise Prescription for Patients with Neuromuscular Diseases</i> <b>Christopher B. Cooper, MD</b> Professor of Medicine and Physiology, University of California at Los Angeles
4:20	<i>Neural Prosthesis of the Respiratory System</i> <b>Anthony DiMarco, MD</b> Professor of Medicine, Case Western Reserve University
4:40	Questions and Discussion
5:00 p.m.	Adjourn, end of exhibits and poster sessions

**THE ERNEST BORS SYMPOSIUM: UPPER LIMB MANAGEMENT**  
*Saturday, June 7, 2003, 8:00 a.m. to 5:00 p.m.*

DAILY ACTIVITIES

7:00 a.m.–5:00 p.m.	Registration Regency Foyer, Third Level
7:00 a.m.–5:00 p.m.	Speaker Room Pacific, Lower Level
7:00–8:00 a.m.	Continental Breakfast Regency Ballroom DEF, Third Level
8:00 a.m.–12:00 p.m.	Morning Platform Session Regency Ballroom A, Third Level
Comoderators:	<b>Vincent Hentz</b> Professor of Surgery, Stanford University <b>Laurie B. Lindblom, MD</b> Chief, SCI Service, Hampton VA Healthcare System

\*Faculty from VALBHS or UCI.

8:00 a.m.	INTRODUCTION <b>Ibrahim Eltorai, MD</b> Consultant, SCI/D Healthcare Group*
8:10	<i>Anatomy and Evaluation of the Upper Limb</i> <b>Ranjan Gupta, MD</b> Assistant Professor, Department of Orthopedic Surgery*
8:30	<i>International Standards for Neurologic Assessment of SCI and the International Classification of the Hand in Tetraplegia</i> <b>Ann T. Vasile, MD</b> Rehabilitation Associate Medical Group, Long Beach, California
8:50	<i>Electrodiagnostic Evaluation of the Upper Limb in Patients with SCI/D</i> <b>Asa J. Wilbourn, MD</b> Director, EMG Laboratory, Neurology Department, Cleveland Clinic Foundation; Clinical Professor of Neurology, Case Western Reserve University
9:10	<i>Management of Upper Limb Spasticity</i> <b>Jean-Michel Gracies, MD, PhD</b> Associate Professor of Neurology, Mount Sinai School of Medicine, New York
9:30	<i>Rehabilitation of the Upper Limb in SCI</i> <b>Robert H. Meier, MD</b> Sunspectrum Rehabilitation, Thornton, Colorado
9:50–10:10	Refreshment Break Regency Ballroom DEF, Third Level
10:10	<i>Dr. Erik Moberg's Contribution to Upper Limb Management for Tetraplegia— A Historical Perspective</i> <b>Matthew Malerich, MD</b> Clinical Professor of Surgery*
10:30	<i>Biomechanics of the Shoulder</i> <b>Thay Lee, PhD</b> Associate Professor of Orthopedic and Biomedical Engineering*
10:50	<i>Painful Shoulders</i> <b>Lily Thompson, PT</b> Physical Therapist, Rancho Los Amigos National Rehabilitation Center
11:10	<i>Shoulder Impingement in the SCI Population</i> <b>Amy Ladd, MD</b> Associate Professor Orthopedic Surgery, Stanford University
11:30	<i>Surgical Management of Shoulder Dysfunctions in Patients with SCI/D</i> <b>Jeffery Budoff, MD</b> Hand and Upper Extremity Institute, Assistant Professor, Baylor College of Medicine, Houston, Texas
11:50	Questions and Discussion
12:00–1:00 p.m.	Lunch Seaview Rotunda, Lower Level

\*Faculty from VALBHS or UCI.

1:00–5:00 p.m.	Afternoon Platform Session Regency Ballroom A, Third Level
Comoderators:	<b>Matthew Malerich, MD</b> Clinical Professor of Surgery* <b>Gregory Evans, MD</b> Professor and Chair, Plastic Surgery*
1:00	<i>Surgical Approach to Rehabilitation of the Tetraplegic Upper Limb</i> 1. Restoring Elbow Extension 2. Surgical Options for Weaker Patients (C5 or C6) 3. Surgical Options for Stronger Patients (C7 and C8) 4. Indications for Surgery During the Early Rehabilitation Period 5. Other Dysfunctions 6. The SCI Upper Extremity Program <b>Vincent Hentz, MD</b> Professor of Surgery, Stanford University <b>Michael Keith, MD</b> Professor of Orthopedic Surgery, Case Western Reserve University <b>Matthew Malerich, MD*</b>
2:50–3:00	Refreshment Break Regency Ballroom DEF, Third Level
3:00	<i>Upper Limb Evaluation and Therapies for Patients with SCI/D</i> <b>M.J.P. Mulcahey, MS, OTR</b> Director, Rehabilitation and Clinical Research, Shriners Hospital for Children, Philadelphia, Pennsylvania
3:20	<i>Unique Aspects of the Pediatric Patients with SCI and the Effects on Upper Limb Management</i> <b>Randol R. Betz, MD</b> Chief of Staff, Shriners Hospital for Children, Philadelphia, Pennsylvania
3:40	<i>Upper Limb Orthoses</i> <b>Michael Atkins, MA, OTR</b> Clinical Specialist, Occupational Therapy Department, SCI Service, Rancho Los Amigos National Rehabilitation Center
4:00	<i>Functional Neuromuscular Stimulation of the Upper Limb</i> <b>Michael Keith, MD</b> Professor of Orthopedic Surgery, Case Western Reserve University
4:20	<i>Tissue Engineering Nerve Conduits</i> <b>Gregory Evans, MD*</b> <b>Jay Calvert, MD</b> Assistant Professor, Plastic Surgery*
5:00 p.m.	Adjourn

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