

California Association of Neonatologists (CAN) and
AAP District IX Section on Perinatal Pediatrics

Cool Topics in Neonatology

20th Annual Conference

Friday, Saturday & Sunday
February 28-March 2, 2014
Coronado Island Marriott Resort
Coronado, California



CME OFFICE OF
CONTINUING
MEDICAL
EDUCATION

DAVID GEFFEN SCHOOL OF MEDICINE at **UCLA**

About the Program

This is the twentieth annual conference presented by the California Association of Neonatologists (CAN) and the AAP District IX Section on Perinatal Pediatrics. The meeting will include an optional workshop to help participants utilize CPQCC resources to improve perinatal outcomes. The conference and combined meeting will be dedicated to a scientific and practice-oriented discussion of current topics and controversies in perinatal and neonatal medicine.

The optional California Perinatal Quality Care Collaborative (CPQCC) workshop is geared to teams of caregivers from perinatal and neonatal units (neonatologists, obstetricians, neonatal nurse practitioners, infection control nurses, nutritionists, lactation consultants, respiratory therapists) who can effect change in the topics presented.

The optional Friday afternoon Neonatal CPT Coding Update Seminar is for neonatologists, neonatal nurse practitioners and neonatal billing personnel.

The Saturday and Sunday education program is directed to neonatologists, pediatricians, NNPs, and will provide an update on topics pertinent to current practice.

At the conclusion of the program participants should be able to:

- Recognize the evidence basis of current neonatal practices
- Describe current coding practices
- Review the present status of CPQCC and PQIP projects

Faculty

Course Chairs

Terri Slagle, MD

President California Association of Neonatologists
California Pacific Medical Center
San Francisco, California

Andrew O. Hopper, MD

Chair, AAP District IX
Section on Perinatal Pediatrics
Professor of Pediatrics
Loma Linda University School of Medicine
Loma Linda, California

Course Co-Chair

Udaykumar P. Devaskar, MD

Professor of Pediatrics
Director of NICU
David Geffen School of Medicine at UCLA
Los Angeles, California

Faculty

Leonard L. Bailey, MD

Surgeon, Loma Linda University Medical Center
Loma Linda, California

William E. Benitz, MD

Philip Sunshine Professor in Neonatology
Stanford University School of Medicine
Director of Nurseries
Lucile Packard Children's Hospital
Stanford, California

Michael Caplan, MD

Clinical Professor of Pediatrics
University of Chicago,
Pritzker School of Medicine
Chairman, Department of Pediatrics and
Chief Scientific Officer
NorthShore University Health System
Chicago, Illinois

Alexis S. Davis, MD, MS, Epi

Clinical Assistant Professor
Stanford University School of Medicine
Lucile Packard Children's Hospital
Stanford, California

Douglas D. Deming, MD

Professor and Chief
Division of Neonatology
Medical Director, Neonatal Respiratory Care
Loma Linda University Children's Hospital
Loma Linda, California

Sanjeev Dutta, MD, MBA

Associate Professor of Surgery & Pediatrics
Stanford University School of Medicine
Attending Surgeon,
Lucile Packard Children's Hospital
Stanford, California

Jeffrey B. Gould, MD, MPH

Robert L. Hess Professor of Pediatrics
Director, Perinatal Epidemiology and Health
Outcomes Research Unit
Division of Neonatal and Developmental
Medicine
Stanford University Medical Center
Stanford, California

Jae Kim, MD, PhD

Associate Clinical Professor of Pediatrics
University of California, San Diego
Divisions of Neonatology and Pediatric
Gastroenterology
Hepatology and Nutrition
San Diego, California

Elliott K. Main, MD

Director, California Maternal Quality Care
Collaborative
Clinical Professor of Obstetrics and Gynecology
Stanford University and UCSF
Director, Maternal-Fetal Medicine
California Pacific Medical Center
San Francisco, California

Diane Nugent, MD

Chief of the CHOC Children's Specialists
Professor and Chief of Hematology Division
Department of Pediatrics
University of California, Irvine
Irvine, California

Lawrence S. (Lance) Prince, MD, PhD

Associate Professor of Pediatrics
Chief of Neonatology
University of California, San Diego
Rady Children's Hospital
San Diego, California

Saroj Saigal, MD, FRCP (C)

Prof Emerita Pediatrics,
McMaster University
Pediatrician, Neonatal Follow-up Program
Hamilton, Ontario, Canada

Istvan Seri, MD, PhD, HonD

Professor of Pediatrics
Keck School of Medicine, USC
Director, Center for Fetal and Neonatal
Medicine
Head, USC Division of Neonatal Medicine
Children's Hospital Los Angeles and
LAC+USC Medical Center
Los Angeles, California

Greg Stratmann, MD, PhD

Associate Adjunct Professor
Department of Anesthesia and
Perioperative Care
University California San Francisco
Associate, Group Anesthesia Services
Los Gatos, California

Yvonne E. Vaucher, MD, MPH

Clinical Professor of Pediatrics
Division of Neonatal/Perinatal Medicine
UCSD School of Medicine

Robert White, MD

Pediatric Medical Group
Memorial Hospital
South Bend, Indiana

8:30 am - 3:00 pm

CPQCC Pre CAN Workshop 2014

Disasters in Neonatal Transport: Natural, Man-made and Diagnosis Driven

DESCRIPTION

The 2014 California Perinatal Quality Care Collaborative workshop focuses on neonatal transports. The workshop will explore the challenges of transporting neonatal patients at high risk for poor outcomes due to their diagnosis or interventions. Transports can be high risk due to: environmental stressors such as hurricanes, earthquakes or wild fires; adverse events that occur during transport, such as equipment failure, dislodgement of therapeutic devices or patient deterioration; or disease processes that make the neonate extremely fragile, such as need for therapeutic cooling, transport of extremely low birth weight infants or pre-operative surgical situations. Each of these situations presents unique challenges that can result in a poor outcome for the patient, injury for the transport members or other catastrophic problems.

The workshop will present speakers from both sides of neonatal evacuations such as seen during Hurricane Sandy. The impacted units and units accepting patients and experiencing surge capacity will describe the challenges they faced, how well their emergency planning preparations served them and lessons learned.

Infants being transported for therapeutic cooling present important challenges, such as the need for rapid, pre-transport identification and referral, preparation for transport, passive cooling prior to transport, and the physiologic effects of cooling on the infant during transport. This evolving area of neonatal care would benefit from standardization and coordination of care that will be discussed in this forum.

Dr. Jeffrey Gould and colleagues will describe the data available to help direct and evaluate neonatal transport in California. Using the CPeTS data set, high risk situations and opportunities for local and statewide quality improvement will be identified. Benchmarks for transport teams and patient stability will be explored.

OBJECTIVES

At the conclusion of the program participants should be able to:

- Identify two areas of concern for facilities experiencing evacuations due to natural disasters and describe how the situation would impact your facility
- Discuss strategies for implementing surge capacity during natural disasters
- Describe best practices for transporting infants of high acuity and risk, e.g. infants undergoing therapeutic cooling
- List three areas of potential quality improvement that you will explore using the California Perinatal Transport System (CPeTS) data reports.

INTENDED AUDIENCE

The California Perinatal Quality Care Collaborative (CPQCC) workshop is geared to teams of caregivers from neonatal units (neonatologists, neonatal nurse practitioners, registered nurses, respiratory therapists), as well as hospital risk management and quality improvement specialists who can effect change in the topics presented. Disaster preparedness planners are invited to come to continue integrating the unique needs of the perinatal population into the larger hospital and county plans.

PROGRAM DIRECTOR

Paul Zlotnik, MD

Professor UCSD School of Medicine

Rady Children's Hospital San Diego

Perinatal Quality Improvement Panel Member (PQIP)

PQIP Education Committee Chairperson

**REGISTRATION FEES \$125 individual with site team
\$150 individual**

6.5 Category 1 Credits

3:30 - 5:30 pm

Neonatal CPT Coding Update

There are many new changes in neonatal coding for 2014 and proposed changes for 2015. This seminar will discuss the additions, deletions and other coding changes. In addition, pertinent examples will be utilized to emphasize teaching points.

Gilbert I. Martin, MD

Director Emeritus, Neonatal Intensive Care Unit

Citrus Valley Medical Center-Queen of the Valley Campus
West Covina, California

Clinical Professor of Pediatrics

Loma Linda University Medical Center

Loma Linda, California

REGISTRATION FEE \$100 – 2 Category 1 Credits

Cool Topics in Neonatology

6:00 pm

KEYNOTE ADDRESS

Repair the Heart – Spare the Baby

Leonard L. Bailey, MD

7:00-8:00 pm

HOSTED RECEPTION

Saturday, March 1, 2014

7:00 **Registration and Continental Breakfast**

7:45 **Welcome and Opening Remarks**

Terri Slagle, MD

MORNING SESSION

Developmental Outcomes

Moderator: *Yvonne E. Vaucher, MD, MPH*

8:00 **Reflections on the Lifetime Perspectives of Former Premature Infants: What Matters in the Long-Term**
Saroj Saigal, MD, FRCP (C)

8:45 **Development of Care in the NICU**
Robert White, MD

9:30 **Amplitude-Integrated EEG in the Premature Infant: Moving from Research into Clinical Practice**
Alexis S. Davis, MD, MS Epi

10:00 **Panel Discussion**

10:15 **Break/Visit Exhibits**

Saturday, March 1, 2014 continued

Nutrition

- 10:30 **Decoding Human Milk Fortification in 2014**
Jae Kim, MD, PhD
- 11:15 **Should Probiotics be Standard of Care for the Prevention of NEC?**
Michael Caplan, MD
- 12:00 **Lunch and Business Meeting**

AFTERNOON SESSION

Moderator: *Terri Slagle, MD*

Chronic Lung Disease

- 1:30 **Inflammation and Altered Lung Development: A Lesson in Unintended Consequences**
Lawrence S. (Lance) Prince, MD, PhD
- 2:15 **Understanding Neurally Adjusted Ventilatory Assist (NAVA)-Clinical Management Strategies**
Douglas D. Deming, MD
- 3:00 **Panel Discussion**
- 3:10 **Setting Standards of Care for Newborns: Role of the Committee of Fetus and Newborn (COFN)**
William E. Benitz, MD
- 3:30 **Break/Visit Exhibits**

Surgical Procedures and Anesthesia in Newborns

- 3:45 **Effects of Anesthesia on the Developing Brain**
Greg Stratmann, MD, PhD
- 4:30 **Minimizing the “Collateral Damage” of Infant Surgery**
Sanjeev Dutta, MD, MBA
- 5:15 **Panel Discussion**
- 5:30 **Adjourn**

Sunday, March 2, 2014

MORNING SESSION

Moderator: *Andrew O. Hopper, MD*

- 8:00 **Welcome**
- 8:10 **Using Ultrasound in the NICU**
Jae Kim, MD, PhD
- 8:40 **Functional Echocardiography for Comprehensive, Real-Time Neonatal Hemodynamic Monitoring**
Istvan Seri, MD, PhD, HonD
- 9:25 **How Are We doing? A Review of California’s 7000 Yearly Acute NICU Transports**
Jeffrey B. Gould, MD, MPH
- 10:00 **Break/Visit Exhibits**
- 10:15 **The Great Unknown: “Unexpected Newborn Complications” — A New National Quality Measure for Term Baby Outcomes**
Elliott K. Main, MD
- 11:00 **Neonatal Strokes**
Diane Nugent, MD
- 11:45 **Questions and Closing Comments**
- 12:00 **Adjourn Lecture Session**

NON-CME WORKSHOPS

REGISTRATION FOR WORKSHOPS IS SEPARATE FROM THE COOL TOPICS IN NEONATOLOGY MEETING.

Registration for the workshops is only accepted online at <http://www.cme.ucla.edu> click on Cool Topics in Neonatology; then click on the workshops button. Each workshop is \$50 and there are no refunds. Space is limited and applications will be accepted on a first come, first serve basis. Attendees who register and pay will receive a separate confirmation for the workshops which will guarantee entrance. Open to CAN attendees only.

Pre-Conference Workshops—Friday, February 28

Each session offered at 2:00-2:45 pm and 2:45-3:30 pm

Neurally Adjusted Ventilatory Assist (NAVA)

Douglas Deming, MD and Carter Tong, BS, RRT-NPS

Content: The basic elements of the ventilator will be reviewed with emphasis on the mechanism for neural integration. Attendees will practice adjusting the ventilator using a lung simulation system. Faculty will share their experience with NAVA, the types of patients that respond well to NAVA and how to trouble-shoot the technology in specific patient scenarios. **Limit 15 participants**

Amplitude Integrated EEG (aEEG) for Preterm Infants

Alexis Davis, MD, MS,Epi and Kathi Salley Randall, RN, MSN

Content: The workshop will include an overview of the interpretation of the aEEG recordings, the normal maturation of the aEEG in preterm infants, a demonstration of special considerations when applying electrodes in preterm infants, and a “strip review” using examples of the electroencephalographic recordings. **Limit 20 participants**

Post-Conference Workshops—Sunday, March 2

Each session offered at 12:00-12:45 pm and 12:45-1:30 pm

Non-Cardiac Ultrasound in the NICU

Jae Kim, MD, PhD and Donna Garey, MD

Content: The real-time ultrasound workshop is designed to permit practicing neonatologists to observe an in-person demonstration of ultrasound in several key applications including detection of catheters, localization of endotracheal tubes and detection of pneumothorax. Each participant will have an opportunity to perform ultrasounds and obtain feedback on their scanning skills. The participants will leave with a practical explanation and hands-on demonstration of the utility of incorporating bedside ultrasound into their practice. **Limit 20 participants**

Functional Echocardiography

Shahab Noori, MD and Mahmood Ebrahimi, MD

Content: Attendees will see and practice with a 3D echocardiography simulator, a system intended for training non-cardiologists in functional echocardiography. The specific windows of echocardiographic view and what is visualized is simulated by the system. Participants will practice with the echocardiography probe while others in group will watch on the screen as elements of myocardial function and blood flow are described by the faculty. **Limit 20 participants**

General Information

Accreditation

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this live activity for a maximum of 12 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The California State Board of Registered Nursing accepts courses approved by the AMA for Category 1 credit as meeting the continuing education requirements for license renewal. Nurses from states other than California should inquire with their local state board for specific continuing education policies.

Disclosure

The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is “truly independent” and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, Accreditation Council for Continuing Medical Education policy now mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. We at UCLA fully endorse the letter and spirit of these concepts.

Location

Coronado Island Marriott Resort
2000 Second Street
Coronado, CA 92118
(619) 435-3000

Enrollment

Enrollment is limited; we suggest you enroll early.

By Mail – Send the completed enrollment form to:
Office of Continuing Medical Education
Cool Topics in Neonatology
David Geffen School of Medicine at UCLA
10920 Wilshire Boulevard, Suite 1060
Los Angeles, CA 90024-6512

Online – Use your MasterCard, VISA, Discover, or AmEx card. Go to www.cme.ucla.edu and click on Cool Topics in Neonatology.

By Phone – Use your MasterCard, Visa, American Express or Discover card.
Call (310) 794-2620.

By Fax – Fax the enrollment form with charge card information and your authorizing signature to (310) 794-2624.

Accommodations

A block of rooms has been reserved at the Coronado Island Marriott Resort at seminar rates: \$228 single or double occupancy plus state and local taxes. One night’s deposit is required to guarantee late arrival (i.e. after 6 pm). Confirmation of reservations received after Monday, January 27, 2014, is subject to availability.

There is always the possibility the room block might sell out prior to January 27, 2014, in which case rooms will be sold at a higher rate based on availability and/or you will be referred to another hotel.

For more information and reservations call (800) 228-9290 or (619) 435-3000. Indicate that you are attending the Cool Topics in Neonatology program in order to receive conference rates. You may book online at <http://www.marriott.com/sanci>. Click on special rates & awards. The group code is **ucl UCLA**.

It is strongly advised that you make room reservations early.

Refunds

Cancellations must be received in writing by February 1, 2014 and will be subject to a \$75 processing fee. No refunds will be given after that date. If for any reason the course must be cancelled, discontinued, or rescheduled by the Office of Continuing Medical Education, a full refund will be provided.

Coronado Island Marriott Resort

The Coronado Island Marriott Resort is only 20 minutes from the San Diego airport and a short water ferry ride to downtown San Diego. There are 300 rooms, villas, and suites set along 16 waterfront acres of San Diego Bay, offering sweeping views of the water and downtown skyline.

Recreational amenities are plentiful. Sailing, waterskiing and deep-sea fishing are available from the private pier. Golf is just across the boulevard at Coronado’s 18-hole championship course.

Suggested activities in the San Diego area include:

- San Diego Zoo
- San Diego Wild Animal Park
- Gaslamp Quarter
- Seaport Village
- Old Town San Diego
- Balboa Park
- Point Loma Lighthouse & Cabrillo National Monument

Conference Parking

Self parking is \$11 per day
Valet parking is \$30 per day

The 2014 CAN meeting is environmentally friendly! The syllabus for the conference will be distributed to attendees on a flash drive at the meeting. You will also be able to download the syllabus prior to the meeting. If you bring your laptop to the conference, be aware that there are no electrical outlets at the conference tables. **Make sure your laptop is fully charged each day.**

Application for Enrollment

Cool Topics in Neonatology

20th Annual Conference

M134-20

CPQCC Workshop

\$125 individual with site team ☐ \$150 individual ☐

Coding Workshop

\$100 ☐

Cool Topics in Neonatology Conference

CAN Members \$300 ☐ Non-CAN Members \$350 ☐ Fellows/Residents \$75 ☐

_____ TOTAL

To register for the technology workshops go to <http://www.cme.ucla.edu> click on Cool Topics in Neonatology

Last four digits of your Social Security Number

Name (First, Middle, Last)

Degree

Preferred Mailing Address

City/State/Zip

Country

Area Code / Daytime Phone

Fax

Field of Practice

Hospital Affiliation

E-mail Address

Form of Payment

☐ Check enclosed, payable to Regents of the University of California

☐ Charge ☐ American Express ☐ Visa ☐ MasterCard ☐ Discover

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Please visit our website for other UCLA CME offerings.
<http://www.cme.ucla.edu>