



2013

# ANNUAL MEETING

Preceding SPA/AAP Pediatric Anesthesiology 2013

March 14, 2013 at Red Rock Casino, Resort & Spa • Las Vegas, NV

## Convenient Online Registration!

Please visit [www.ccasociety.org](http://www.ccasociety.org) to register for the meeting and book your hotel reservations online. Printable forms are also available for download.



## Welcome to the 2013 Congenital Cardiac Anesthesia Society Annual Meeting

It is your lucky day! The 2013 meeting will be held at the Red Rock Resort in Las Vegas, Nevada on Thursday, March 14th. You double your chances for the jackpot if you also register for the SPA/AAP Pediatric Anesthesiology meeting and Pain Medicine session that occur March 14th – 17th at the same venue.

By sheer good fortune, this is the 7th annual meeting of the Congenital Cardiac Anesthesia Society (CCAS). The program was constructed to be educational and interactive. The CCAS is remarkable for the rich depth of experience and expertise possessed by its members and we applaud and encourage the high level of informed audience debate that is characteristic of CCAS meetings.

A big "Thank You!" to members who provided suggestions and gave feedback on the 2012 program. Your input was invaluable. This year's program offers something of interest to all anesthesiologists who care for children with cardiac problems, whether you are a generalist who occasionally manage children with heart disease or a hard-core specialist who lives and breathes for all things cardiac. The successful format of previous programs is retained and two new topics are introduced. 8.25 CME credits are available.

The day begins with a comprehensive update on the science and art of cardiopulmonary bypass and is followed by a practical session on the anesthetic implications and management of arrhythmia. Next session is a literature review of recent significant articles. After lunch with Exhibitors, we hear from CCAS leadership and then research is featured, with presentation of the top three posters. Mid-afternoon sessions include an interactive session on teamwork and an in-depth discussion on double outlet right ventricle. The program concludes with poster viewing, refreshments and the opportunity to connect with friends and colleagues.

The 2013 program is entirely a team effort and I wish to prominently acknowledge and personally thank Wanda Miller-Hance and Nina Guzzetta for their unstinting support, hard work and innovative solutions. Of course, with Jim DiNardo, Helen Holtby and the CCAS Board to guide us, we had a dozen aces up our sleeve. Thanks also to Kirk Lalwani, Mark Twite and Kim Battle.

Enjoy the meeting. You will be a winner!

Jumbo Williams, MBChB  
Program Chair

Wanda C. Miller-Hance  
Program Co-Chair

Nina A. Guzzetta  
Program Co-Chair

# THE PROGRAM

<b>7:00 am – 5:00 pm</b>	<b>Registration</b>
<b>7:00 – 7:30 am</b>	<b>Breakfast with Exhibitors</b>
<b>7:30 – 7:50 am</b>	<b>Welcome</b> Helen M. Holtby, MBBS, FRCP(C), CCAS President
	<b>Outline of Educational Program</b> Jumbo Williams, MBChB

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## Session I: Basic Science & Practical Application: Cardiopulmonary Bypass

*Moderator: Scott G. Walker, MD*

<b>7:55 – 8:35 am</b>	<b>What's So Bad About Cardiopulmonary Bypass - We Do It Every Day?</b> James A. DiNardo, MD
<b>8:35 – 9:15 am</b>	<b>Cardiopulmonary Bypass: Current State-of-the-Art and New Developments</b> Colleen E. Gruenwald, PhD, CCP
<b>9:15 – 9:30 am</b>	<b>Questions and Discussion</b>
9:30 – 9:45 am	Coffee Break

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## Session II: Electrophysiology and Rhythm Disturbances

*Moderator: Susan R. Staudt, MD*

<b>9:45 – 10:15 am</b>	<b>EP Studies: Does Anesthetic Technique Matter?</b> Aman Mahajan, MD, PhD
<b>10:15 – 10:45 am</b>	<b>Management of Perioperative Arrhythmias</b> James C. Perry, MD
<b>10:45 – 11:00 am</b>	<b>Questions and Discussion</b>

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## Session III: Insights From Recent Literature: Three Favorite Papers

*Moderator: Nina Guzzetta, MD*

<b>11:00 – 11:15 am</b>	<b>Annette J. Davis, MB, ChB, FRCA</b>
<b>11:15 – 11:30 am</b>	<b>Peter C. Laussen, MBBS</b>
<b>11:30 – 11:45 am</b>	<b>Kenneth M. Brady, MD</b>
<b>11:45 am – Noon</b>	<b>Questions and Discussion</b>
Noon – 1:00 pm	LUNCH
Noon – 12:30 pm	Lunch with Exhibitors

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## Session IV: CCAS Update from the Leadership **NON-CME**

12:30 – 1:00 pm	Past, Present and Future Dean B. Andropoulos, MD, MHCM; James A. DiNardo, MD; Helen M. Holtby, MBBS, FRCP(C)
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For meeting registration & hotel reservations, please visit

**WWW.CCASOCIETY.ORG**



# THE PROGRAM

## Session V: Posters: Selected Oral Presentations

Moderator: Mark D. Twite, MD, BCh

1:15 – 2:00 pm Posters: Selected Oral Presentations

## Session VI: Cardiac Care and Patient Safety: An Interactive Session

Moderator: Jumbo Williams, MBChB

2:00 – 2:15 pm Adverse Events from CCAS/STS Database  
David F. Vener, MD

2:15 – 3:00 pm Teamwork: The Challenges. Presentation and Audience Participation  
Calvin Kuan, MD; Steve R. Tosone, MD

3:00 – 3:15 pm Coffee Break

## Session VII: Double Outlet Right Ventricle

Moderator: Wanda C. Miller-Hance, MD

3:15 – 3:45 pm Echocardiographic Features of DORV  
Komal Kamra, MBBS

3:45 – 4:15 pm Surgery for DORV  
Victor O. Morell, MD

4:15 – 4:45 pm Perioperative Management of DORV Case  
James P. Spaeth, MD

4:45 – 5:00 pm Questions and Discussions

## Session VIII: Posters: Viewing and Discussion (Refreshments Provided)

Moderators: Robert H. Friesen, MD; Jeremy M. Geiduschek, MD; Robert F. Seal, MD, FRCPC

5:00 – 6:00 pm Posters: Viewing and Discussion

# OBJECTIVES

### Session I: Basic Science & Practical Application: Cardiopulmonary Bypass

What's so Bad about Cardiopulmonary Bypass - We do it Every Day? - James A. DiNardo, MD  
Upon completion of this presentation, the participant will be able to:

- Understand the physiological perturbations induced by cardiopulmonary bypass
- Understand the issues of particular concern when young children undergo cardiopulmonary bypass
- Review CCAS/STS database information on national cardiopulmonary bypass practices

Cardiopulmonary Bypass: Current State-of-the-Art and New Developments - Colleen E. Gruenwald, PhD, CCP

Upon completion of this presentation, the participant will be able to:

- Understand current trends in pediatric cardiopulmonary bypass management

- Discuss therapeutic interventions that ameliorate the adverse effects of cardiopulmonary bypass
- Learn about new cardiopulmonary bypass technologies and techniques

### Session II: Electrophysiology and Rhythm Disturbances

EP Studies: Does Anesthetic Technique Matter?

Aman Mahajan MD, PhD

Upon completion of this presentation, the participant will be able to:

- Recognize the common rhythm disturbances for which children undergo electrophysiology procedures
- Understand the impact of various anesthetic agents on these abnormal rhythms

## Meeting information

### Education Mission Statement

The CCAS Meeting will focus on topics of interest to those who provide anesthesia, sedation, pain management, and critical care services to infants and children with heart disease, and adults with congenital heart disease. The overall goals for attendees of the program are to reinforce and enhance their existing fund of knowledge, while introducing them to new and state-of-the-art techniques and information that affect their practice and improve the perioperative care of patients with heart disease.

### Scope & Types of Activities

The program brings together pediatric experts from clinical and basic science disciplines related to cardiology, anesthesia and cardiac surgery. General topic areas include cardiac anatomy, pathophysiology, anesthesia, echocardiology, electrophysiology, surgery, cardiopulmonary bypass, patient safety, and database resources.

The presentation format includes lectures and reviews. An important part of the program is the presentation of new clinical and basic science research in oral and moderated poster-discussion forums. Significant attendee involvement and feedback are encouraged in all aspects of the program, and will be facilitated by the use of real time computerized audience polling as well as sessions where the audience directly participates in case discussions. Program content is, in fact, the direct result of membership input and extensive audience polling at prior meetings.

### Target Audience

This program is intended for anesthesiologists and other practitioners who care for children with any form of cardiac disease and adults with congenital heart disease. It is also intended for clinical and basic science researchers whose areas of investigation relate to pediatric cardiac anesthesia.

### Accreditation and Designation

The Society for Pediatric Anesthesia is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Society for Pediatric Anesthesia designates this Live activity for a maximum of 8.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

### Hotel Information

Red Rock Casino, Resort & Spa represents the pinnacle in Las Vegas casino resort hotels. Red Rock offers guests an idyllic getaway at the top of one of America's most vibrant cities. Ideally situated at the entrance to Red Rock Canyon and minutes from the world-renowned Las Vegas Strip, you couldn't ask for a more exciting place to play, both indoors and out.

- Develop an anesthetic plan to provide optimum outcomes in these patients

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# OBJECTIVES, continued

Management of Perioperative Arrhythmias - James C. Perry, MD

Upon completion of this presentation, the participant will be able to:

- Recognize common arrhythmias that occur during and after congenital cardiac surgery
- Understand indications and strategies for effective treatment

## Session III: Insights From Recent Literature: 3 Favorite Papers

Annette J. Davis MB, ChB, FRCA; Peter C. Laussen MBBS; Kenneth M. Brady MD

Upon completion of this presentation, the participant will be able to:

- Review three significant cardiac anesthesia-related articles
- Understand the importance of each article to the anesthetic care of congenital cardiac patients

## Session IV: CCAS Update from the Leadership - Past, Present and Future NON-CME

Dean B. Andropoulos MD, MHCM; James A. DiNardo MD; Helen M. Holtby MBBS, FRCP(C)

Upon completion of this presentation, the participant will be able to:

- Understand the motivation for forming the CCAS and learn of its achievements
- Learn about recent projects and current issues
- Learn about future initiatives

## Session V: Posters: Selected Oral Presentations

Upon completion of this presentation, the participant will be able to:

- Learn about new research findings (oral presentations)

## Session VI: Cardiac Care and Patient Safety: An Interactive Session

Adverse Events from CCAS/STS Database  
David F. Vener MD

Upon completion of this presentation, the participant will be able to:

- Learn about the CCAS/STS database
- Review national adverse events data

Teamwork: The Challenges. Presentation and Audience Participation - Calvin Kuan MD; Steve R. Tosone MD

Upon completion of this presentation, the participant will be able to:

- Learn the factors that influence the performance of cardiac teams
- Analyze actual cases of team failure
- Discuss methods to assess, improve and monitor the performance of cardiac teams

## Session VII: Double Outlet Right Ventricle Echocardiographic Features of DORV - Komal Kamra MBBS

Upon completion of this presentation, the participant will be able to:

- Overview of the variants that comprise the double-outlet right ventricle spectrum
- Review of the anatomic features that characterize the various forms of lesion
- Review the echocardiographic findings of the pathology with a focus on the intraoperative TEE evaluation

Surgery for DORV - Victor O. Morell MD

Upon completion of this presentation, the participant will be able to:

- Review the criteria proposed in the Congenital Heart Surgery Nomenclature and Database Project for double-outlet right ventricle
- Discuss the surgical approaches to double-outlet right ventricle
- Understand surgical results in this lesion

Perioperative Management of DORV Case - James P. Spaeth MD

Upon completion of this presentation, the participant will be able to:

- Discuss considerations regarding anesthetic care in the patient with double-outlet right ventricle
- Review national data about DORV from CCAS/STS database

## Session VIII: Posters: Viewing and Discussion

Upon completion of this presentation, the participant will be able to:

- Learn about the latest research in the field of congenital cardiac anesthesia
- Become familiar with cutting edge approaches in the anesthetic care of patients with congenital heart disease

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## FACULTY

### Dean B. Andropoulos, MD, MHCM

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