

NON-PROFIT  
ORGANIZATION  
U.S. POSTAGE  
PAID  
DENVER, CO  
PERMIT 2378

# 7th Vail Cardiothoracic Transplantation An International Update

Saturday, February 7 – Wednesday, February 11, 2009



*Vail Marriott  
Mountain  
Resort  
and Spa  
Vail, Colorado*



*Presented by*  
The Division of Cardiothoracic Surgery  
Department of Surgery  
University of Colorado Denver  
School of Medicine

*Sponsored by*  
Office of Continuing Medical Education  
University of Colorado Denver  
School of Medicine

## About the Program

### About the Program

This four and one-half day conference has been described by previous attendees as "the best cardiothoracic" conference they attend. This year there will be updates in multiple areas of heart and lung transplantation including recipient and donor evaluation, post-transplant outcomes, infectious disease, patient management, immunosuppression, alternate treatments to transplant and development of cardiac devices and artificial lungs.

The target audience for this renowned program is: cardiothoracic surgeons, pulmonologists, cardiologists, internists, primary care physicians, nurse specialists and transplant coordinators.

### Learning Objectives:

Upon completion of this program, the participant should be able to:

1. Determine which patients with pulmonary hypertension should be evaluated and listed for lung transplantation.
2. Determine which treatment options should be tried for patients with advanced heart failure.
3. Recognize and treat common and not-so-common complications of ventricular assist devices.
4. Develop a "donation after cardiac death" donor program.
5. Utilize molecular testing for the determination of viral immunity and therapy.

### Accreditation

The University of Colorado Denver School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Colorado Denver School of Medicine designates this educational activity for a maximum of **20.5 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Category 1 Continuing Education Points for Transplant Coordinators (CEPTCs) have been applied for through the American Board for Transplant Certification

### Registration Fees

- Please register online at [www.regonline/Cardiothoracic.com](http://www.regonline/Cardiothoracic.com) or by completing the registration form in this brochure and mailing it to the Office of CME as detailed on the form.
- Fees include continental breakfasts, refreshments, syllabus material, Sunday and Tuesday's dinner banquet and a non refundable administration charge of \$100.
- Spouses, children and guests are invited to attend the evening dinners for an additional per person charge. Please indicate additional guests on the registration form or when registering online. Breakfasts are for the conference registrant only.

All fees are due in advance by credit card or check.

|   | Payment received before<br><u>01/07/09</u> | Payment received after<br><u>01/07/09</u> |
|---|--|---|
| Physicians  | \$580                                      | \$680                                     |
| Nurses  | \$430                                      | \$480                                     |
| Allied Health Professionals   | \$430                                      | \$480                                     |
| House staff w/letter from<br>Program Director                       | \$355                                      | \$405                                     |
| Additional Dinner Guest   |  |   |
| Adult   | \$ 35                                      | \$ 35                                     |
| Child (ages 7-12)   | \$ 10                                      | \$ 10                                     |
| Wednesday all attendees-<br>EX-VIVO LUNG PERFUSION<br>DEMONSTRATION | \$100                                      | \$100                                     |

### Travel & Accommodation

Polk Majestic Travel Group will serve as the official hotel reservation and travel agent for the 7<sup>th</sup> Vail Cardiothoracic Transplantation Conference. To receive the conference rate at the Marriott Resort and Spa contact Marcia at Polk Majestic Travel. The hotel will not have the same rate as Polk Majestic Travel. Marcia will also assist families who have special lodging needs or are looking for alternate accommodations. She has access to all the properties in the Vail Valley.

Marcia can book your airline reservations, rental car, or shuttle transfers to your final destination in Vail. She can also obtain airline discounts for you. Contact Marcia at Polk Majestic Travel: 800-748-2059, ext. 2506 or 303-302-2506; [marcia@polkmajestic.com](mailto:marcia@polkmajestic.com)

### Lift Tickets

Purchase your Vail Resort lift tickets in advance at the special 7<sup>th</sup> Vail Cardiothoracic Transplantation Conference group rate through Ski.com by uploading the purchase form at [www.uchsc.edu/cme](http://www.uchsc.edu/cme). Your lift tickets will be delivered to your lodging property or for a small fee they can be sent to you via Federal Express.

### Gear Rental

Charter Sports offers ski, snowboard, boot and ski wear rental among other items. To take part of the Cardiothoracic Transplantation group rate read the gear rental instructions and go to [www.chartersports.com](http://www.chartersports.com) to reserve your gear. You may contact Charter sports at 888-295-9797 if you have questions.

### Vail Marriott Mountain Resort & Spa

The Resort & Spa located at 715 Lionshead Circle, Vail, CO 81657, offers modern guestrooms, a health club, European spa and a restaurant 150 yards from the gondola.

### MAKE YOUR RESERVATIONS EARLY!

To receive the group rate of **\$389** (single or double occupancy, plus applicable taxes) reservations must be **made by Monday, January 5, 2009 through Polk Majestic Travel Group; 1-800-748-2059. However, the room block will likely reach its maximum before this date.** Rooms and rates revert to a space-available basis after the room block has reached its maximum or after the cut-off date. All hotel reservations must be guaranteed with a credit card at time of booking. On Monday, January 6, 2009 all reservations that have been booked will be charged the full nonrefundable pre-payment of room and taxes. When booking your reservation with Marcia, please inquire about trip cancellation insurance. Parking is a separate daily charge.

### About Vail Mountain . . .

120 miles from Denver International Airport and 28 miles from Eagle Airport Vail Mountain has 193 named trails and offers a total of 5,289 acres of skiable terrain. With 32 lifts including a gondola and 16 high-speed express quads, 1 fixed-grip quad, 2 triple chairs, 3 double chairs, 3 surface lifts, and 6 "magic carpets" you will be whisked up the mountain for a great day of fun. The lift system can move 56,138 skiers uphill each hour.

Vail Mountain has 4 Terrain Parks that include small, medium and large features. For those that wish to participate in other activities Vail offers:

- Sleigh rides
- Adventure Ridge
- Snowshoeing
- Dog sledding
- Snowmobiling
- Cross-country skiing
- Ski biking
- Shopping

### Cancellation Policy

The full course tuition is refundable less \$100 processing fee if you cancel prior to January 19, 2009. Refunds will not be given for cancellations after January 19, 2009 or for no shows. The conference committee reserves the right to cancel this conference in the event of an unforeseen circumstance or if the minimum acceptable registration is not attained. In the event of cancellation the Office of CME is obligated to refund the registration fee only.

University of Colorado Denver  
School of Medicine  
Office of Continuing Medical Education  
Mail Stop C295  
13001 East 17<sup>th</sup> Place  
Aurora, CO 80045

Early Registration Deadline

January 7, 2009



This program is part of the Colorado Statewide Extended Campus - State funds were not used to develop or administer this program.

# Program Schedule

# Faculty

# Registration

7<sup>th</sup> Vail Cardiothoracic Transplantation • February 7 – 11, 2009

Register on-line at: [www.regonline.com/cardiothoracic](http://www.regonline.com/cardiothoracic) or complete this form and mail with payment to the OCME.

Last Name \_\_\_\_\_ First Name: \_\_\_\_\_ M.I. \_\_\_\_\_  
(state name as you would like it to appear on your CME certificate)

Degree  MD  DO  RN  PA  NP  Other \_\_\_\_\_

Specialty \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_

Zip \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Office Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_ E-Mail \_\_\_\_\_  
(We will not provide your email address to anyone outside the Office of CME.)

## Registration Fees

|   | Payment received before<br>01/07/09 | Payment received after<br>01/07/09 |
|---|-------------------------------------|------------------------------------|
| Physicians  | \$580                               | \$680                              |
| Nurses  | \$430                               | \$480                              |
| Allied Health Professionals   | \$430                               | \$480                              |
| House staff w/letter from<br>Program Director                       | \$355                               | \$405                              |
| Additional Dinner Guest   |                                     |                                    |
| Adult   | \$ 35                               | \$ 35                              |
| Child (ages 7-12)   | \$ 10                               | \$ 10                              |
| Wednesday all attendees-<br>EX-VIVO LUNG PERFUSION<br>DEMONSTRATION | \$100                               | \$100                              |

Mail registration form  
with payment to:  
UCD-CME-CT Conference  
Mail Stop C295  
13001 East 17th Place  
Aurora, CO 80045  
or fax to: 303-724-3557  
or register online  
[www.regonline.com/  
cardiothoracic](http://www.regonline.com/cardiothoracic)

## Payment Information

\_\_\_\_ Enclosed is my check made payable to: University of Colorado Denver School of Medicine

\_\_\_\_ Visa    \_\_\_\_ MasterCard    Security Code: \_\_\_\_\_    Expiration Date: \_\_\_\_\_

Credit Card Number \_\_\_\_\_

Name on Credit Card \_\_\_\_\_

Cardholder Signature \_\_\_\_\_ Date: \_\_\_\_\_



Please indicate if you have any need for auxiliary aids or special assistance services

## Saturday, February 7, 2009

3:00 –  
4:30 pm **Registration**  
4:30 **Introduction and Welcome**  
*Martin Zamora, MD*  
4:35 **Use of Murine Models for Lung Transplant Research**  
*Alec Patterson, MD*  
5:05 **Discussion**  
5:10 **Endothelial Progenitor Cell Therapy for Cardiothoracic Disease**  
*Duncan Stewart, MD*  
5:40 **Discussion**  
5:50 **Pediatric Heart Transplantation after Declaration of Cardiac Death**  
*David Campbell, MD*  
6:20 **Discussion**  
6:30 – 8:30 **Welcome Reception**

## Sunday, February 8, 2009

**MORNING SESSIONS - RECIPIENT ISSUES I**  
7:00 am **Pulmonary Hypertension: current therapy and timing of transplantation**  
*Duncan Stewart, MD*  
7:30 **Pulmonary Hypertension: an autoimmune disease?**  
*Mark Nicolls, MD*  
7:50 **Advanced Heart Failure – therapeutic options**  
*Joann Lindenfeld, MD*  
8:20 **Ventricular Assist Devices I – a Practical Update on Difficult Case Management Panel**  
*Bartley Griffith, MD & Carmelo Milano, MD*  
9:10 **Discussion**  
9:35 **Adjourn**  
**AFTERNOON SESSIONS - RECIPIENT ISSUES II**  
3:30 pm **Alternate Heart Transplant Lists - an alternative to destination therapy?**  
*Carmelo Milano, MD*

4:00 **Neonatal Heart Transplant across ABO-barriers**  
*Lori West, MD*  
4:30 **Common sense approach to the Presensitized Heart and Lung Transplant recipient**  
*Sharon Hunt, MD*  
5:00 **Living Related Lung Transplants - the Japanese Experience**  
*Takahiro Oto, MD*  
5:25 **Early Lung Allograft Dysfunction Begets Chronic Allograft Dysfunction**  
*Alec Patterson, MD*  
5:55 **Discussion**  
6:25 **Adjourn**  
6:45 **Dinner Banquet**

## Monday, February 9, 2009

**MORNING SESSIONS - DONOR ISSUES**  
7:00 am **Development of a DCD Lung Program**  
*Bronwyn Levvey, RN*  
7:20 **DCD Lung Transplantation**  
*Greg Snell, MD*  
7:40 **DCD Lung Transplant Abstract**  
8:00 **Donor Lung Availability and Allocation Down-Under: how deep is the pool and does a Lung Allocation Score add to Clinical Judgment?**  
*Greg Snell, MD*  
8:25 **Cardiac Graft Vasculopathy**  
*Sharon Hunt, MD*  
9:05 **Discussion**  
9:30 **Adjourn**  
**AFTERNOON SESSIONS - ORGAN PRESERVATION**  
3:30 pm **Pumping the Donor Heart**  
*Bartley Griffith, MD*  
4:00 **Ex-vivo lung perfusion – 101 uses**  
*Greg Snell, MD*

4:30 **Ex-vivo diagnostics and repair of donor organs**  
*Shaf Keshavjee, MD, MSc, FRCSC, FACS*  
5:00 **Ex-vivo lung perfusion – translation to clinical practice**  
*Shaf Keshavjee, MD, MSc, FRCSC, FACS*  
5:15 **Primary Graft Dysfunction in heart, lung and kidney recipient organs from the same donor**  
*Greg Snell, MD*  
5:45 **Discussion**  
6:20 **Adjourn**

## Tuesday, February 10, 2009

**MORNING SESSIONS - DONOR ISSUES**  
7:00 am **B cell development – therapeutic opportunities**  
*Lori West, MD*  
7:30 **Complement Deposition in Lung Transplantation**  
*Glen Westall, MD*  
8:00 **Prognostic Significance of C4d Deposition in Heart and Lung Allografts**  
*Michael Fishbein, MD*  
8:30 **Use of Campath to limit immunosuppression in lung transplant recipients**  
*Bartley Griffith, MD*  
8:50 **Acquired von Willebrand Factor deficiency with continuous flow LVADs**  
*Carmelo Milano, MD*  
9:05 **Discussion**  
9:20 **Adjourn**  
**AFTERNOON SESSIONS - CHRONIC REJECTION/NOVEL THERAPEUTICS**  
3:30 pm **VADS II – a Practical Update on Difficult Case Management Panel Discussion:**  
*Bartley Griffith, MD & Carmelo Milano, MD*

4:10 **Chronic Vascular Rejection of the Lung**  
*Michael Fishbein, MD*  
4:40 **Airway Fibrosis – basic research**  
*Mark Nicolls, MD*  
5:10 **Device Development (Heart, Lung and Pediatrics)**  
*Bartley Griffith, MD*  
5:40 **Novalung: Selection of device configuration for bridge to lung transplant**  
*Shaf Keshavjee, MD, MSc, FRCSC, FACS*  
6:00 **Xenotransplantation**  
*Bartley Griffith, MD*  
6:25 **Discussion**  
6:40 **Adjourn**  
7:00 **Dinner Banquet**

On Wednesday February 11<sup>th</sup> there will be a separate symposium on Ex-Vivo Lung Perfusion. It will consist of breakfast, followed by a live demonstration of the EVLP system from set-up to perfusion of the lungs by Drs. Shaf Keshavjee and Marcelo Cypel who have been actively utilizing the EVLP system in Toronto. The demonstration will be followed by an interactive discussion on the use of EVLP for research and its clinical applications. There will be a separate \$100 fee for attendance of this symposium to cover the cost of the demonstration materials and symposium materials including binders and CD-ROMS.

## Wednesday February 11, 2009

**MORNING SESSIONS – EX-VIVO LUNG PERFUSION DEMONSTRATION Post-Meeting Symposium**  
7:00 am **Breakfast**  
8:00 **Ex-vivo Lung Perfusion Demonstration**  
*Shaf Keshavjee, MD and Marcelo Cypel, MD*  
9:00 **EVLP: Research and Clinical Applications**  
*Shaf Keshavjee, MD, MSc, FRCSC, FACS*  
11:00 **Adjourn**

**Planning Committee**  
**Joseph Cleveland Jr., MD**  
Associate Professor of Surgery  
University of Colorado Denver, School of Medicine  
Surgical Director, Adult Heart Transplant and Mechanical Support Devices  
University of Colorado Hospital  
**Frederick L. Grover, MD**  
Chair and Professor  
Department of Surgery  
University of Colorado Denver, School of Medicine  
**JoAnn Lindenfeld, MD**  
Professor of Medicine  
Division of Cardiology  
University of Colorado Denver, School of Medicine  
**Michael Weyant, MD**  
Assistant Professor of Surgery  
University of Colorado Denver, School of Medicine  
**Martin R. Zamora, MD**  
Professor of Medicine  
Pulmonary Sciences/Critical Care Medicine  
University of Colorado Denver, School of Medicine

**Distinguished Faculty**  
**David N. Campbell, MD**  
Professor of Surgery  
Division of Cardiothoracic Surgery  
Surgical Head, Pediatric Cardiac Transplant Program  
The Children's Hospital  
**Marcelo Cypel, MD, MSc**  
Clinical Fellow  
Division of Thoracic Surgery  
Toronto General Hospital  
Toronto Lung Transplant Program  
**Michael C. Fishbein, MD**  
Piansky Professor of Pathology and Medicine  
Department of Pathology and Laboratory Medicine  
David Geffen School of Medicine at UCLA  
**Bartley P. Griffith, MD**  
The Thomas E. and Alice Marie Hales  
Distinguished Professor and Chief  
Division of Cardiac Surgery  
University of Maryland  
**Sharon Hunt, MD**  
Professor, Cardiovascular Medicine and Medical Director, Post-Transplant Program  
Stanford University

**Shaf Keshavjee, MD, MSc, FRCSC, FACS**  
Head, Division of Thoracic Surgery, UHN  
Director, Toronto Lung Transplant Program  
Director, Latner Thoracic Surgery  
Research Laboratories  
Professor and Chair Division of Thoracic Surgery  
University of Toronto  
**Bronwyn Levvey, RN, Grad Dip Clin Epi**  
Clinical Associate Professor, Lung Transplant Service  
Alfred Hospital & Monash University  
**JoAnn Lindenfeld, MD**  
Professor of Medicine  
Division of Cardiology  
University of Colorado Denver, School of Medicine  
**Carmelo A. Milano, MD**  
Associate Professor of Surgery  
Duke University Medical Center  
**Mark R. Nicolls, MD**  
Associate Professor of Medicine  
Stanford University  
VA Palo Alto Health Care System  
**Takahiro Oto, MD**  
Chief of Lung Transplant Program  
Assistant Professor  
Okayama University  
**G. Alexander Patterson, MD**  
Evarts A Graham Professor of Surgery  
Chief Division of Cardiothoracic Surgery  
Washington University School of Medicine  
**Gregory Snell, MBBS, FRACP, MD**  
Medical Head, Lung Transplant Service  
Alfred Hospital & Monash University  
Associate Professor, Monash University  
**Duncan J. Stewart, MD, FRCPC, FAHA**  
CEO and Scientific Director  
Ottawa Health Research Institute  
V.P. Research, The Ottawa Hospital  
The Evelynne & Rowell Laishley Chair  
Professor, Department of Medicine  
University of Ottawa  
**Lori J. West, MD, DPhil, FRCPC**  
Professor of Pediatrics, Surgery and Immunology  
Director of Heart Transplantation Research  
University of Alberta  
**Glen Westall, MD**  
Lung Transplant Physician  
Alfred Hospital, Melbourne  
**Martin R. Zamora, MD**  
Professor of Medicine  
Pulmonary Sciences/Critical Care Medicine  
University of Colorado Denver, School of Medicine