

# Breathing Easier VII

## It's All About Oxygen

Oxygen Delivery and the Pulmonary Patient

**Continuing education symposium** for physicians, nurses, therapists and other allied health professionals focusing on the latest innovations, practices, and theories in the care of patients with pulmonary diseases.

**THURSDAY, OCTOBER 16, 2008**

**7:30 AM - 5:00 PM**

Registration: 7:00 AM

Symposium: 7:30 AM – 5:00 PM

Workshops: 7:30 – 8:30 AM

Complimentary  
Continental Breakfast & Lunch

**Special Appearance: Dr. Forrest M. Bird**

**Four Points Sheraton  
Hotel and Conference Center**

1125 Boston Providence Turnpike • Norwood, MA

Presented by:

*Sinai*

NEW ENGLAND SINAI HOSPITAL

*The Medical Center for Pulmonary Care*

**Tufts** | School of  
UNIVERSITY | Medicine

**Tufts** Medical  
Center

**Jointly sponsored by:**

Tufts University School of Medicine,  
New England Sinai Hospital and  
Tufts Medical Center Pulmonary,  
Critical Care and Sleep Division

# FACULTY

# Faculty

Faculty disclosure information will be provided to participants prior to the beginning of the educational activity.

## Course Directors:



### **Nicholas S. Hill, MD**

Chief, Pulmonary, Critical Care and Sleep Division, Pulmonary & Critical Care and Sleep Division, Tufts Medical Center, Boston, MA; Medical Director, Outpatient Pulmonary Rehabilitation Program, New England Sinai Hospital, Stoughton, MA; Professor of Medicine, Tufts University School of Medicine, Boston, MA



### **Alexander C. White, MD, MS**

Chief, Pulmonary and Sleep Medicine, Director Rose Kalman Research Institute, New England Sinai Hospital, Stoughton, MA; Associate Professor of Medicine, Tufts University School of Medicine, Boston, MA

## Moderator:



### **Lawrence S. Hotes, MD**

Chief Medical Officer, New England Sinai Hospital, Stoughton, MA; Associate Clinical Professor of Medicine and Rehabilitation Medicine, Tufts University School of Medicine, Boston, MA

## Faculty:



### **Forrest M. Bird, MD, PhD, ScD**

Aeromedical Researcher and Educator, International Lecturer, Bird Institute of Biomedical Technology, Sandpoint, ID



### **Bartolome R. Celli, MD**

Chief, Division of Pulmonary and Critical Care Medicine, St. Elizabeth's Medical Center, Boston, MA; Professor of Medicine, Tufts University School of Medicine, Boston, MA



### **Howard L. Corwin, MD**

Medical Director, Intensive Care Unit Dartmouth-Hitchcock Medical Center, Lebanon, NH; Professor of Medicine and Anesthesiology Dartmouth Medical School, Hanover, NH



### **Armin Ernst, MD**

Chief, Interventional Pulmonology and Director, Clinical, Sponsored and Translational Research Interventional Pulmonology/ Thoracic Surgery, Beth Israel Deaconess Medical Center, Boston, MA; Associate Professor of Medicine (Pediatrics) and Surgery Harvard Medical School, Boston, MA



### **Erik Garpestad, MD**

Director, Medical ICU, Pulmonary, Critical Care and Sleep Division, Tufts Medical Center, Boston, MA; Associate Professor, Tufts University School of Medicine, Boston, MA



### **Katherine P. Hendra, MD**

Medical Director, New England Sinai Hospital Inpatient Satellite at Tufts Medical Center; Staff Physician, Division of Pulmonary/ Critical Care and Sleep Medicine, Tufts Medical Center, Boston, MA; Assistant Professor of Medicine, Tufts University School of Medicine, Boston, MA



### **Mark D. Iafrati MD, FACS**

Chief of Vascular Surgery, Medical Director, Tufts-Center for Wound Healing, Boston, MA; Assistant Professor of Surgery, Tufts University School of Medicine, Boston, MA



### **Robert McCoy, BS, RRT, FAARC**

Managing Director, Valley Inspired Products, Inc., Apple Valley, MN



### **Heidi O'Connor, MD**

Attending Physician, New England Sinai Hospital, Stoughton, MA; Attending Physician, Tufts Medical Center, Boston, MA



### **Vivian Sternweiler, MS, RN, CWCN**

Coordinator of Wound Program, New England Sinai Hospital, Stoughton, MA

# SYMPOSIUM

## Symposium

### Presentations

#### **Oxygen and COPD**

*Bartolome R. Celli, MD*

The physiological benefits of oxygen therapy in the current treatment of COPD.

#### **Blood Transfusion in the Critically Ill: Is There a Role for Erythropoietin?**

*Howard L. Corwin, MD*

The risks and benefits of hemoglobin replacement strategies as a means to optimize oxygen delivery in the intensive care unit.

#### **Endoscopic Lung Volume Reduction: Optimizing Oxygenation through Airway Stents and Valves**

*Armin Ernst, MD*

A review of a novel approach to treat severe emphysema with Endoscopic lung volume reduction.

#### **Management of Persistent Hypoxemic Respiratory Failure in the ICU**

*Erik Garpestad, MD*

A state of the art review of how to optimize oxygenation in hypoxic respiratory failure in the intensive care unit.

#### **Oxygen Transport in Restrictive Pulmonary Diseases**

*Katherine P. Hendra, MD*

A review of the underlying pathophysiology and treatment of hypoxemia in patients with restrictive lung disease.

#### **The Vital Chain: Steps in Oxygen Delivery**

*Nicholas S. Hill, MD*

An outline of the oxygen delivery chain and how it can be disrupted in different conditions.

#### **Anemia and Hemoglobin Replacement Strategies in the Post Acute Environment**

*Heidi O'Connor, MD*

A review of state-of-the-art hemoglobin replacement strategies in post acute care environment.

#### **Optimizing Oxygenation: The How and Why of Monitoring**

*Alexander C. White, MD, MS*

A review of state of the art methods to monitor oxygenation.

#### **Pioneering Advances in Life Support: Forrest M. Bird, Inventor of the Bird**

*Forrest M. Bird, MD, PhD, ScD*

A discussion on medical innovation in pulmonary care.

# Workshops

## **Pressure Ulcer Staging and Assessment (Workshop A)**

*Vivian Sternweiler, MS, RN, CWCN*

An overview of the latest staging (of pressure ulcers) definitions and how to best use them in practice.

## **Oxygen Delivery Systems; Performance Variables that May Affect Outcomes (Workshop B)**

*Robert McCoy, BS, RRT, FAARC*

NA discussion on product performance and impact on patient outcomes of oxygen delivery systems.

## **The Role of Hyperbaric Oxygen in Wound Care (Workshop C)**

*Mark D. Iafrati, MD, FACS*

Review of Hyperbaric Oxygen treatment and its role in wound care.

## **The following organizations will be exhibiting at the conference:**

**Hill-Rom**

Enhancing Outcomes for Patients and Their Caregivers.™

**CSL Behring**

Biotherapies for Life™

**RESPIRONICS®**

**ORTHO-McNEIL**  
PHARMACEUTICAL, INC.

**O<sub>2</sub> HomeCare**  
NEW ENGLAND  
Home Respiratory Care - Durable Medical Equipment

There is no commercial support for this educational activity.

## **Non-Endorsement Statement**

The content and views presented in this educational activity are those of the faculty and do not necessarily reflect the opinions or recommendations of Tufts University School of Medicine or New England Sinai Hospital and Tufts Medical Center Critical Care and Sleep Division. Inclusion in this activity does not constitute approval or endorsement of any commercial products or services. These materials have been prepared based on the best available information, but are not exhaustive of the subject matter. Participants are advised to critically appraise the information presented and encouraged to consult the available literature for any commercial products mentioned.

# SCHEDULE

- 7:00 - 7:30 AM** Registration, Exhibits, Breakfast
- 7:30 - 8:30 AM** Concurrent Workshops
- A. Pressure Ulcer Staging and Assessment  
*Vivian Sternweiler, MS, RN, CWCN*
  - B. Oxygen Delivery Systems: Performance Variables that May Affect Outcomes  
*Robert McCoy, BS, RRT, FAARC*
  - C. The Role of Hyperbaric Oxygen in Wound Care  
*Mark D. Iafrati MD, FACS*
- 8:45 - 9:30 AM** Optimizing Oxygenation: The How and Why of Monitoring  
*Alexander C. White, MD, MS*
- 9:30 - 10:15 AM** The Vital Chain: Steps in Oxygen Delivery  
*Nicholas S. Hill, MD*
- 10:15 - 11:05 AM** Blood Transfusion in the Critically Ill: Is there a Role for Erythropoietin?  
*Howard L. Corwin, MD*
- 11:05 - 11:15 AM** Break
- 11:15 - 12:05 AM** Anemia and Hemoglobin Replacement Strategies in the Post Acute Environment  
*Heidi O'Connor, MD*
- 12:05 - 12:45 PM** Pioneering Advances in Life Support: Dr Forrest Bird, Inventor of the Bird  
*Forrest M. Bird, MD, PhD, ScD*
- 12:45 - 1:35 PM** Lunch
- 1:35 - 2:30 PM** Endoscopic Lung Volume Reduction: Optimizing Oxygenation through Airway Stents and Valves  
*Armin Ernst, MD*
- 2:30 - 3:15 PM** Management of Persistent Hypoxemic Respiratory Failure in the Intensive Care Unit  
*Erik Garpestad, MD*
- 3:15 - 3:30 PM** Break
- 3:30 - 4:15 PM** Oxygen Transport in Restrictive Pulmonary Diseases  
*Katherine P. Hendra, MD*
- 4:15 - 5:00 PM** Oxygen and COPD  
*Bartolome R. Celli, MD*

## ADA/OEO Nondiscrimination Policy

Tufts University School of Medicine (TUSM) considers all applicants and program participants without regard to race, color, national origin, age, religious creed, sex or sexual orientation. TUSM is an Equal Opportunity Employer.

TUSM does not discriminate on the basis of a disability in admissions, access to treatment, or employment in their programs and activities as identified in the American with Disabilities Act. Please let us know in advance if you require any accommodations.

Policy On Privacy And Confidentiality: To view Tufts' privacy policy, please see: [www.tufts.edu/med/about/offices/oce/privacy.html](http://www.tufts.edu/med/about/offices/oce/privacy.html)

For questions, please contact Tufts University School of Medicine – Office of Continuing Education at [med-oce@tufts.edu](mailto:med-oce@tufts.edu) or 617-636-6579.

# ACCREDITATION

# Accreditation

## **Physicians:**

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Tufts University School of Medicine (TUSM), New England Sinai Hospital and Tufts Medical Center Critical Care and Sleep Division. TUSM is accredited by the ACCME to provide continuing medical education for physicians.

TUSM designates this educational activity for a maximum of *8 AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

To receive CE credit participants must sign-in, attend the entire program and complete and submit the program evaluation provided in syllabus materials. Certificates will be mailed within 4-6 weeks after the program.

## **Respiratory Therapists:**

Application has been made to the American Association of Respiratory Care (AARC) for continuing education contact hours for respiratory therapists.

## **Case Managers:**

Application has been made for 8 contact hours with The Commission for Case Manager Certification.

## **Occupational and Physical Therapists:**

Certificates of attendance will be issued.

## **Nurses:**

New England Sinai Hospital is an approved provider of continuing nursing education by the Massachusetts Association of Registered Nurses, Inc., an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.



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**Four Points Sheraton Hotel and Conference Center**

1125 Boston Providence Turnpike • Norwood, MA

for questions: 781-297-1337

## **Program Goal**

To provide a state of the art review of the critical role of oxygen in the management of lung disease.

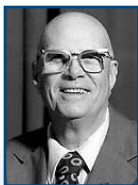
## **Educational Objectives**

At the conclusion of the program, participants will be able to:

- 1.** Identify the essential relationship between hemoglobin and oxygen.
- 2.** Apply the strategies that underpin optimal oxygen delivery to the tissues in any pulmonary patient.
- 3.** Define the role of hyperbaric oxygen in wound healing.

This program is designed to address the following ABMS/IOM competencies: Medical knowledge (ACGME/ABMS), Patient care (ACGME/ABMS), Systems-based practice (ACGME/ABMS), Evidence-based Practice (IOM), and Quality Improvement (IOM).

## **Special Appearance: Dr. Forest M. Bird**



Dr. Forrest M. Bird, born June 1921 in Stoughton, Massachusetts is an American inventor and aeromedical scientist best known for developing some of the first reliable mass-produced mechanical ventilators for acute and chronic cardiopulmonary care.

Throughout his lifetime, he has worked on improving the ventilator and other medical devices to advance pulmonary medicine around the world. Dr. Bird won the Lifetime Scientific Achievement award in 1985 and in 2005. In 1995, he was inducted into the National Inventors Hall of Fame.

# DIRECTIONS

## Directions

### Four Points Sheraton Hotel and Conference Center

1125 Boston Providence Turnpike • Norwood, MA

#### Boston and points North

Take 1-93 South which turns into 1-95 (Route 128) North. Take Exit 15B, Route 1 south toward Norwood. Continue 4.5 miles, the Four Points Sheraton is on the right after the Staples Plaza. Use Tiffany Ballroom Entrance.

#### From 1-90/Mass Pike

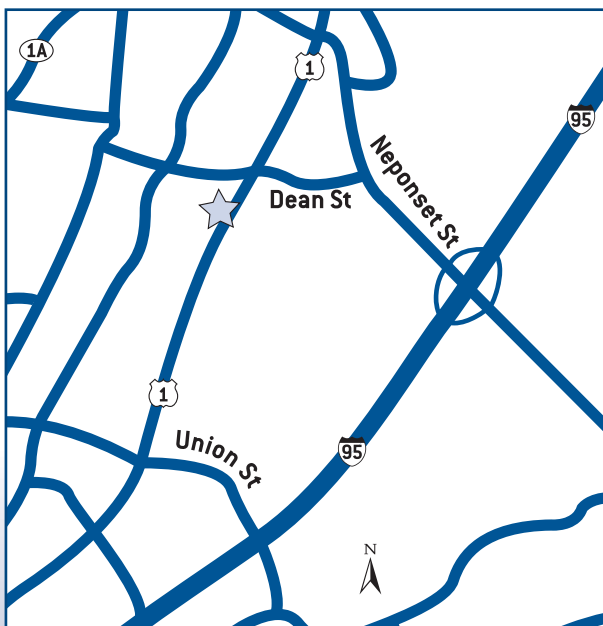
Take Mass Pike East to Exit 14 (1-95/128); (from the West Exit is 14; from East it is numbered 15.) Continue South to Exit 15B and proceed as above.

#### From Providence

Follow 1-95 North to Exit 11B, Neponset Street, Norwood. Drive 7/10 of a mile; turn left onto Dean Street. At traffic light turn left onto Route 1, heading south. The Four Points Sheraton is on the right.

#### From Route 24

Follow Route 24 Exit 14B (1-495 toward Worcester); Take Exit 13A (1-95 North toward Boston); Proceed as above.



# REGISTRATION

# Registration

Please use one form per applicant (photocopies accepted).  
Registration may be faxed when paying by credit card.

Fax: 781-297-7509

For additional information: 781-297-1337.

Registrations are due by October 5, 2008.

Name: \_\_\_\_\_

Discipline: MD, RT, RN, NP, PT, OT, PA, other: \_\_\_\_\_

Title: \_\_\_\_\_

Company/Organization: \_\_\_\_\_

AARC# (for RRTs & CRTs only): \_\_\_\_\_

Home       Business

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

The above information will be published in the symposium syllabus. If there is information you do not want published, indicate below. DO NOT PUBLISH:

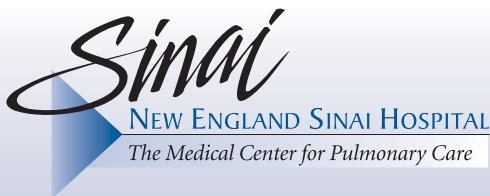
- |                                     |                                       |                                  |
|-------------------------------------|---------------------------------------|----------------------------------|
| <input type="checkbox"/> name/title | <input type="checkbox"/> organization | <input type="checkbox"/> address |
| <input type="checkbox"/> phone      | <input type="checkbox"/> fax          | <input type="checkbox"/> e-mail  |

Mail CME/CEU/ Contact Hour/Attendance Certificate to: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please complete reverse side of registration form.



# REGISTRATION

# Registration

## Please indicate the workshop you are attending:

- A. Pressure Ulcer Staging and Assessment
- B. Oxygen Delivery Systems: Performance Variables that May Affect Outcomes
- C. The Role of Hyperbaric Oxygen in Wound Care

## Registration Fee

\$150 includes workshop, symposium presentation, conference materials, continental breakfast and lunch.

*Early Bird Registration by September 5, 2008 - \$125.*

## Cancellation Policy

\$125 refund will be granted with cancellation before September 26, 2008.

Make checks payable to: New England Sinai Hospital. Limited space. Please register early.

- Check       Visa       Master Card

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

Expiration Date: \_\_\_\_\_

Card Holder: \_\_\_\_\_

Signature: \_\_\_\_\_

Amount Enclosed: \$ \_\_\_\_\_

Complete and mail or fax to:

### **New England Sinai Hospital**

Breathing Easier Symposium

Attention: Darlene Madera

150 York Street, Stoughton, MA 02072

Phone: 781-297-1337 Fax: 781-297-7509

*Registration form available on website: [www.newenglandsinai.org](http://www.newenglandsinai.org)*

Special food requirements or other needs: \_\_\_\_\_



**NEW ENGLAND SINAI HOSPITAL**

*The Medical Center for Pulmonary Care*