Mayo School of Continuous Professional Development

Hyperbaric Medicine 2015

April 17-18, 2015

SIEBENS BUILDING/LEIGHTON AUDITORIUM
MAYO CLINIC, ROCHESTER, MN

New Course Website:
ce.mayo.edu (search: Hyperbaric 2015)
Course Description
This symposium will focus on recent hyperbaric oxygen (HBO₂) therapy advancements to foster collaborative research and innovation. Specific topics will include, but are not limited to, HBO₂ therapy in lower limb crush injury, compromised flaps, and deep tissue infections, osteomyelitis and infected prosthetic materials. ICU equipment support (ventilators, monitors, and IV pumps) and the integration of hyperbaric safety checklists and procedures in electronic medical record systems will also be covered.

Course Learning Objectives
Upon conclusion of this program, participants should be able to:
1. Recognize and apply new standards of practice and develop implementation strategies for transitioning from “actual” to “ideal” practice models.
2. Identify the known acute and subacute effects of HBO₂ and how to apply them to hyperbaric treatment recommendations for hospitalized patients.
3. Describe mechanisms of graft compromise (surgical/traumatic edema, anastomotic failure, re-perfusion injury, irradiated recipient bed, infection, immunosuppression, etc.) and how HBO₂ can mitigate loss of tissue.
4. Discuss challenging compromised grafts, issues related to their management, and individual case outcomes.
5. Recognize the spectrum of serious deep soft tissue infections and the appropriate application of HBO₂ management.
6. Discuss the evidence for HBO₂ in suppressing and/or eradicating infections of implanted prosthetic materials.
7. Review the ongoing UHMS effort in applying GRADE scoring to the published literature for using HBO₂ in the treatment of deep diabetic foot infections and its value for assessing the evidence for its use in other indications.
8. Describe challenging infection related cases, issues related to their management, and individual case outcomes.
9. Recall hyperbaric oxygen delivery options and patient care applications.
10. Recognize how to assess and mitigate patient risk as it pertains to management in the hyperbaric chamber.
11. Develop operational effectiveness tools, team-based strategies, and implementation.
12. Summarize and apply safety prevention and certification procedures.
13. Describe the HOLLT study results
14. Discuss and understand team based strategies for introducing the methodologies of advanced hyperbaric oxygen treatment and support of the traumatized patient.

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

Intended Audience
Active Hyperbaric clinicians, nurses, technicians and researchers.

Credit Information
Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 16 (Program) and 5 (Self-assessment) AMA PRA Category 1 Credits ™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAFP - This Live activity, Hyperbaric Medicine 2015, with a beginning date of 04/17/2015, has been reviewed and is acceptable for up to 16.00 Prescribed
credit(s) by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ABPM – This activity is approved by the American Board of Preventive Medicine (ABPM) for Maintenance of Certification (MOC) credit for a maximum of 16.0 LLSA/MOC credits.

NBDHMT – Approved by the National Board of Diving & Hyperbaric Medical Technology for 16 Cat ‘A’ credits.

Date and Location
The Hyperbaric Medicine 2015 symposium will be held April 17-18, 2015. Course headquarters will be located in Leighton Auditorium on the second floor of the Siebens Medical Education Building, Mayo Clinic, 100 Second Avenue Southwest, Rochester, Minnesota. Meeting facilities are easily accessible by skyway and pedestrian subway, which connect Mayo Clinic to shops, restaurants, and hotels.

Registration
To register, visit our new course website at ce.mayo.edu (search: Hyperbaric 2015). The registration fee includes tuition, comprehensive electronic course syllabus, continental breakfasts, lunches, and break refreshments. Although it is not Mayo School of Continuous Professional Development (CPD) policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is advised. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present the confirmation letter when checking in at the meeting registration desk.

Registration fees:
Physician/Scientist: $650
Resident/Fellow, NP, PA, Allied Health: $550

For additional information, contact:
Mayo School of Continuous Professional Development
Plummer 2-60
200 First Street SW
Rochester, MN 55905
E-mail: cme@mayo.edu
Phone: 800-323-2688 or 507-284-2509
Fax: 507-284-0532

Cancellation Policy
If you cancel your participation in this course, your registration fee, less a $75 administrative fee, will be refunded when written notification is received by Mayo School of CPD before April 3, 2015 (cme@mayo.edu or fax#: 507-284-0532). No refunds will be made on or after April 3, 2015. Canceled registrations are non-transferable.

Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

Lodging Accommodations
Guest rooms have been reserved for attendees and their guests with special course rates at each of the following downtown Rochester hotels. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of April 2, 2015, whichever comes first. Reservations will be taken following this date based on space and rate availability. Please identify yourself as a participant of the Hyperbaric Medicine course when making your reservation.

Rochester Marriott Mayo Clinic Area
101 First Avenue SW
877-623-7775 or 507-280-6000
$139 single/double
Holiday Inn City Centre
220 South Broadway
800-241-1597 or 507-252-8200
$89 single/double

The hotels listed above are connected by skyway and pedestrian subway to conference facilities, downtown shops, and restaurants. You may wish to visit the Rochester Convention and Visitors Bureau website (www.rochestercvb.org) and/or www.rochester411.com for additional accommodation options and area information.

**Lodging arrangements are the sole responsibility of the individual registrant.**

Mayo School of CPD is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

**Faculty**

**Course Directors**
Paul L. Claus, M.D.
Martha P. Millman, M.D.

**Mayo Faculty**
Paul L. Claus, M.D.
William A. Gossett, R.R.T., C.H.T.
M. Hassan Murad, M.D.
Anthony J. Narr, R.N.
Christopher B. Potts, R.R.T.

**Guest Faculty**
Richard C. Baynosa, M.D., University of Nevada School of Medicine
James R. Holm, M.D., Virginia Mason
Folke G. Lind, M.D., Ph.D., Karolinska University Hospital
Ian Millar, M.D., Alfred Intensive Care Unit
George A. Perdrizet, M.D., Kent Hospital

**Faculty Disclosure**
As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of this information will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.

**National Physician Payment Transparency Program**
Mayo Clinic College of Medicine complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).
## Program Schedule

### Friday, April 17, 2015
Leighton Auditorium, Siebens Building

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration &amp; Continental Breakfast</td>
</tr>
<tr>
<td>7:45 AM</td>
<td>Welcome, Introductions, and Outline of the Course</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Mechanisms of HBO₂ Action in the Acute and Sub-acute settings</td>
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<tr>
<td>8:30 AM</td>
<td>Pre-conditioning Effects and Potential Clinical Applications</td>
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<tr>
<td>9:00 AM</td>
<td>Complex Surgical Closure Techniques</td>
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<tr>
<td>10:00 AM</td>
<td>Mechanisms of Flap and Graft Compromise</td>
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<tr>
<td>10:30 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Compromised Graft Assessment and Their Management in Practice</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>Panel – Compromised Graft Cases and Discussion of Management</td>
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<tr>
<td>12:00 PM</td>
<td>Lunch</td>
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<tr>
<td>1:00 PM</td>
<td>Oxygen and Infection</td>
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<tr>
<td>2:00 PM</td>
<td>HBO₂ in Treating Deep Soft Tissue Infections</td>
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<tr>
<td>3:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Evidence Based Management of Deep Diabetic Foot Infections</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>Panel – HBO₂ and Hospital Patient Infections</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Closing Comments</td>
</tr>
<tr>
<td>5:05 PM</td>
<td>Adjourn</td>
</tr>
</tbody>
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### Saturday, April 18, 2015
Leighton Auditorium, Siebens Building

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration &amp; Continental Breakfast</td>
</tr>
<tr>
<td>7:45 AM</td>
<td>Day 2 Welcome and Instructions</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Patient Airway Management Issues and Oxygen Delivery Choices</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Mechanical Ventilators and Their Use in Delivering HBO₂</td>
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</tbody>
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## The High Risk Hyperbaric Patient: Selection, Stabilization and Transport
James R. Holm, M.D.

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## Hyperbaric Unit Logistics and Urgent Patient Management
Paul L. Claus, M.D.

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## Intra-hospital Transport Policies and Safety Checklists for Communication, Accompanying Personnel, Equipment and Interim Monitoring
Anthony J. Narr, R.N.

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## Room A – Grafts and Flaps
Richard Baynosa, M.D., George A. Perdrizet, M.D.

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## Room B – Deep Soft Tissue Infections
Folke Lind, M.D., Ph.D., Ian Millar, M.D.

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## Room C – Practice Logistics and Equipment for Hospitalized Patients

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## Patient Support and Monitoring Equipment Needs and Options (IV pumps, physiologic monitoring including ET-CO₂, glucose, mechanical ventilators suction, etc.)
Folke Lind, M.D., Ph.D.

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## Hyperbaric Equipment Modifications and Safety Certification Procedures
William A. Gossett, R.R.T., C.H.T.

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## HBO₂ in Acute Ischemic Disorders; Rational and Case Presentations
Folke Lind, M.D., Ph.D.

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## HBO₂ in Crush Injuries and Compartment Syndromes with a Review of the HOLLT Study Results
Ian Millar, M.D.

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## Changing Institutional Limb Salvage Practices
Richard Baynosa, M.D., Folke Lind, M.D., Ph.D., Ian Millar, M.D.

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## Wrap-Up and Thank You
Paul L. Claus, M.D.

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## Adjourn