



Oxygen & Infection

May 7-9, 2009 | Stockholm, Sweden



Photos: Yanan Li, Olof Holdar, Preben Kristensen and Henrik Trygg, Stockholm Visitors Board



KAROLINSKA HYPERBARIC OXYGEN[®]
University Hospital



www.oxygeninfection.se

Welcome

Dear Colleagues and Friends,

Welcome to a European Committee for Hyperbaric Medicine (ECHM) Conference to review the role of oxygen in infectious diseases from basic science to daily clinical practice. The conference "Oxygen & Infection" is endorsed by European Society of Clinical Microbiology and Infectious Diseases (ESCMID).

We will examine the effects of anoxia, hypoxia, normoxia and hyperoxia on microbes, antibiotic activity, leukocyte bacterial killing and inflammation.

We will also explore a platform for a future consensus meeting with panel discussions on challenging clinical topics;

- Prophylactic supplemental oxygen to prevent surgical site infections in e.g. colorectal surgery
- Hyperbaric oxygen as an adjunct in the management of necrotizing fasciitis
- Hyperbaric oxygen as an adjunct in the management of the infected diabetic foot

The format of the conference, including social activities, provides an opportunity to meet experts and make new friends for future cooperation, development and research.

THE LINDE GROUP

Linde

Your challenges. Our innovative spirit.

Linde: Living healthcare

We have always risen to challenges in our pursuit of excellence. As the medical gas specialists, we set standards with innovative solutions CONOXIA®, ENTONOX®, LIVOPAN®, REMEO® and LIV®. Our insight into the issues that shape your reality spurs us to deliver breakthrough products and outstanding services, to support you in reaching new heights in best practice healthcare. So take a good look at us. You'll see reflections of your reality. It's why we're Linde: Living healthcare.

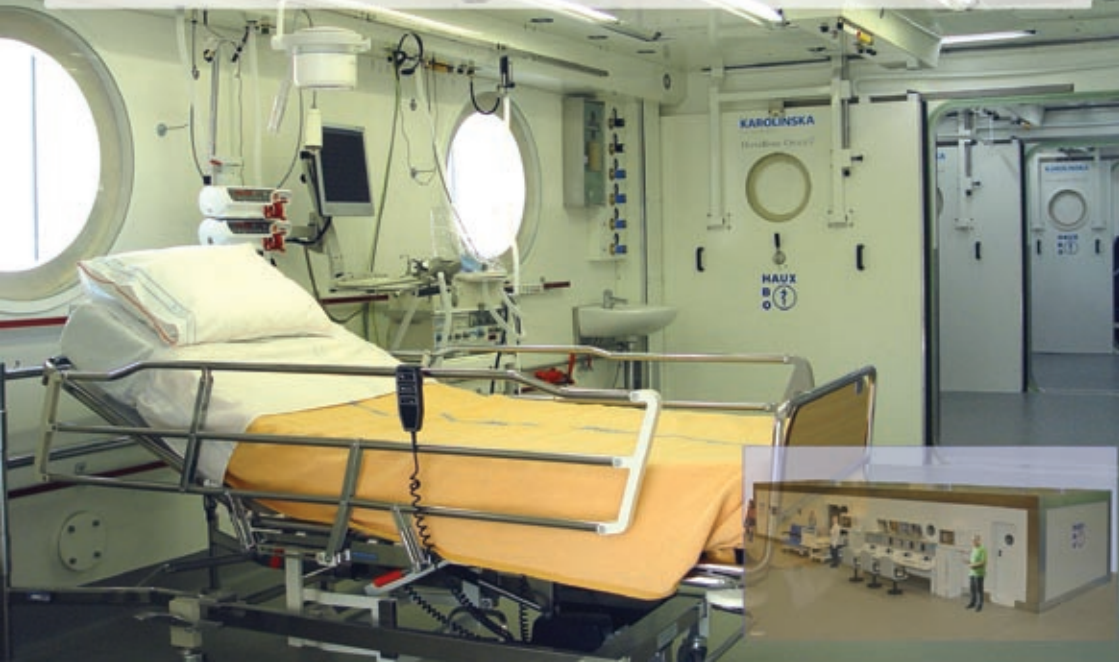
Linde AG
Linde Healthcare

Seitnerstrasse 70, 82049 Pullach, Germany
Phone: +49 89 74 460, www.linde-healthcare.com



HAUX-QUADRO-Systems: New alternatives for HBO

HAUX-LIFE-SUPPORT GmbH | Auf der Hub 11-15 | D-76307 Karlsbad | info@hauylifesupport.de | www.hauylifesupport.de



Local Organizing Committee

Folke Lind MD, PhD, Associate Professor, Hyperbaric Medicine

Bengt Eriksson MD, Director of Hyperbaric Medicine

Claes Frostell Professor and Chair

Lars I. Eriksson Professor, Academic Chair

Department of Anesthesiology, Surgical Services & Intensive Care,
Karolinska University Hospital, Stockholm, Sweden

Scientific Committee

Daniel Mathieu President ECHM, Professor and Chief Réanimation Médicale,
Hôpital Calmette, Lille, France

Folke Lind MD, PhD, Associate Professor, Hyperbaric Medicine, Dept.
of Anesthesiology, Surgical Services & Intensive Care,
Karolinska Univ. Hosp. Stockholm, Sweden

Claes Frostell Professor and Chair, Dept. of Anesthesiology, Surgical
Services & Intensive Care, Karolinska University Hospital.
Stockholm, Sweden

Carl Erik Nord Professor in Microbiology, Dept. of Laboratory Medicine,
Karolinska Institutet, Stockholm, Sweden

Ragnar Norrby Professor in Infectious Disease, Director General of the Swedish
Institute for Infectious Disease Control, Stockholm, Sweden

May 7-9, 2009
Stockholm, Sweden

Faculty

- Jan Apelqvist** MD, PhD, Ass. Professor Dept. of Endocrinology, Univ.Hosp. of Malmö, Sweden
- Dirk Bakker** Professor Emeritus, General & Transplant Surgery, Former Director of Academical Medical Center, Univ. of Amsterdam, Netherlands
- Michael Bennett** MB BS, MD, Assoc. Professor Diving & Hyperbaric Med. Prince of Wales Hosp. And University of NSW, Sydney, Australia
- Kerstin Brismar** Professor Dept. of Endocrinology & Diabetology, Karolinska Univ. Hosp. Stockholm, Sweden
- Jon Buras** MD, PhD, Ass. Professor Dept. of Biology & Dept. of Pharm. Sci., New England Inflammation & Tissue Protection Institute at Northeastern University, Boston, Massachusetts, USA
- Wende Buras Reenstra** MD, PhD, Ass. Professor Dept. of Biology & Dept. of Pharm.Sci., New England Inflammation & Tissue Protection Institute at Northeastern University, Boston, Massachusetts, USA
- Dick Clarke** Director, Baromedical Research Foundation, Columbia, South Carolina, USA
- E. Patchen Dellinger** Professor & Vice-Chair, Dept. of Surgery, Univ. of Washington, Seattle, USA
- Caroline E Fife** MD, Assoc. Professor Dept. of Medicine, Univ. of Texas, Houston, USA
- Christer Hammarlund** MD, PhD, Hyperbaric Unit, Anesth & Intensive Care, Helsingborg Hosp. Sweden
- Martti Hirn** MD, PhD, Dept. of Orthopaedics, Västra Nyland Hosp. Raseborg, Finland
- Thomas K Hunt** Professor Emeritus, Dept. of Surgery, Univ. of California, San Fransisco, USA
- Niels Höiby** Professor Dept. of Clinical Microbiology, Rigshospitalet, Copenhagen, Denmark
- Andrea Kurz** Professor Outcomes Research, Cleveland Clinic Foundation, Cleveland, Ohio, USA
- Anders Larsson** Professor Dept. of Anesthesiology and Intensive Care Medicine, Uppsala University Hospital, Uppsala, Sweden
- Folke Lind** MD, PhD. Ass. Professor Hyperbaric Medicine, Dept. of Anesthesiology, Surgical Services & Intensive Care, Karolinska Univ. Hosp. Stockholm, Sweden
- Magnus Löndahl** MD, Department of Endocrinology, Lund University Hospital, Lund, Sweden
- Tiit Mathiesen** Professor Dept. of Neurosurgery, Karolinska Univ. Hosp. Stockholm, Sweden
- Daniel Mathieu** President ECHM, Professor & Chief Réanimation Médicale, Hôpital Calmette, Lille, France
- Ian Millar** MD, Director, Hyperbaric Medicine, The Alfred Hosp. Melbourne, Australia

- Simon Mitchell** MD,PhD. Dept of Anesthesiology, Univ. of Auckland, New Zealand
- Roland Möllby** Professor Microbiology Tumor & Cell Biology, Karolinska Institutet, Stockholm, Sweden
- Elisabeth Nagy** Professor Institute of Clinical Microbiology, University of Szeged, Hungary
- Anna Norrby-Teglund** Professor Center for Infectious Medicine, Karolinska Institutet, Stockholm, Sweden
- Per-Olof Nyström** Professor Colorectal Surgery, Dept. of Surgical Gastroenterology, Karolinska Univ. Hosp. Stockholm, Sweden
- Stephen Thom** Professor Emergency Medicine, Univ. of Pennsylvania, Philadelphia, USA



OxyHeal
Health
Group®



Exhibitor:
CMA Microdialysis

Bring the Leading Hyperbaric Electronic
Technology to your Healthcare Facility...



Recognized World-Wide
as the
Hyperbaric **Gold** Standard

Sechrist Industries continues to educate the world in the ever expanding role of hyperbaric oxygen therapy. With the largest installed base of hyperbaric oxygen chamber, Sechrist Industries offers a wide range of benefits to countless patients, as well as a list of measurable advantages to both physicians and surgeons.

Sechrist Industries Inc.
www.SechristUSA.com

Info@SechristUSA.com



Scientific Program

5th Karolinska Postgraduate Course in Clinical Hyperbaric Medicine

Thursday May 7, 2009

Venue: Clarion Hotel Sign

07.00 - Registration

08.00 - 10.00 Session 1 - HBO Mechanisms

From Germs to Stem Cells- Oxidative Stress can be good!

[Stephen Thom, Philadelphia, USA](#)

Decompression Sickness & Gas Embolism

[Simon Mitchell, Auckland, New Zealand](#)

Oxygen & Infection & Healing

[Thomas K Hunt, San Francisco, USA](#)

10.00 - 10.30 Coffee

10.30 - 12.00 Session 2 - Ischemia/Hypoxia/Postoperative Infections

Musculoskeletal Injury & Infection

[Ian Millar, Melbourne, Australia](#)

Postoperative Infections & Complications

[Folke Lind, Stockholm, Sweden](#)

Intracranial Abscesses

[Tiit Mathiesen, Stockholm, Sweden](#)

12.00 - 13.00 Lunch

13.00 - 15.00 Session 3 - Severe Soft Tissue Infections/ Sepsis

Severe Soft Tissue Infections; Classification & Surgery

[Dirk Bakker, Amsterdam, Netherlands](#)

Sepsis & Tissue Oxygenation

[Daniel Mathieu, Lille, France](#)

Endothelial-Neutrophil Interactions/ IR injury/ Sepsis

[Jon Buras, Boston, USA](#)

Treatment of Necrotizing Fasciitis

[Michael Bennett, Sydney, Australia](#)

15.00 - 15.30 Coffee

15.30 - 17.30 Session 4 - Hypoxic Problem Wounds / Oncology

Transcutaneous Oximetry, an Evidence Based Guide to Interpretation

[Caroline E Fife, Houston, USA](#)

Diabetic Foot RCT; Role of HBO?

[Christer Hammarlund, Helsingborg, Sweden](#)

Radiation Proctitis RCT; Role of HBO

[Dick Clarke, Columbia, USA](#)

Radiation Sensitization with HBO

[Dick Clarke, Columbia, USA](#)

Oxygen and Infection

Friday May 8 & Saturday May 9

Venue: Clarion Hotel Sign

This two-day European Committee for Hyperbaric Medicine (ECHM) Conference, endorsed by the European Society for Microbiology and Infectious Diseases (ESCMID), will review the role of oxygen (anoxia, hypoxia, normoxia and hyperoxia) in infectious diseases from basic science to daily clinical practice.

Friday, May 8, 2009

08.00 - 10.00 Session 1 - Oxygenation & Microorganisms
(Carl Erik Nord & Elisabeth Nagy)

Oxygenation of Hypoxic Infected Tissues

Folke Lind, Stockholm, Sweden

Clinical Relevance of Oxidative Stress

Stephen Thom, Philadelphia, USA

Influence of Oxygen on Bacterial Pathogenicity

Roland Möllby, Stockholm, Sweden

Biofilm and Oxygen Diffusion Limitation

Niels Höiby, Copenhagen, Denmark

10.00 - 10.30 Coffee

10.30 - 12.30 Session 2 - Antibiotics, Host Defense & Sepsis
(Carl Erik Nord & Stephen Thom)

Antibiotics & Oxygen Dependence

Elisabeth Nagy, Szeged, Hungary

Phagocytosis of Bacteria & Oxygen: Host defence

Thomas K Hunt, San Francisco, USA

Host-Microbe Interactions

Anna Norrby-Teglund, Stockholm, Sweden

Septic Inflammatory Response

Jon Buras, Boston, USA

Discussion

12.30 - 13.30 Lunch

13.30 - 15.30 Session 3 - Oxygenation & Postoperative Infections
(Claes Frostell & Thomas K Hunt)

Postoperative Surgical Site Infections & Prevention

E. Patchen Dellinger, Seattle, USA

Surgical Site Infections in Colorectal Surgery

Per-Olof Nyström, Stockholm, Sweden

Normobaric Oxygen to Prevent Surgical Site Infections

Andrea Kurz, St Louis, USA

Side Effects of Normobaric Oxygen Treatment

Anders Larsson, Uppsala, Sweden

15.30 - 16.00 Coffee

16.00 - 17.30 Session 4 - Role of Oxygen to Prevent Surgical Site Infections
(Claes Frostell & Thomas K Hunt)

Discussion: Is there a Platform for a Future Consensus Meeting? "Role of Supplemental Oxygen to Prevent Surgical Site Infections in e.g. Colorectal Surgery"

Saturday, May 9, 2009

**08.00 - 10.00 Session 5 - Necrotizing Fasciitis- the Role of HBO
(Ragnar Norrby & Folke Lind)**

History, Classification & Surgery

[Dirk Bakker, Amsterdam, Netherlands](#)

Bacteriology & Antibiotics

[Daniel Mathieu, Lille, France](#)

Experimental Research

[Martti Hirn, Raseborg, Finland](#)

Treatment of Necrotizing Fasciitis; Rationale for HBO? Cochrane review.

[Michael Bennett, Sydney, Australien](#)

10.00 - 10.30 Coffee

**10.30 - 12.00 Session 6 - Necrotizing Fasciitis - the Role of HBO
(Ragnar Norrby & Folke Lind)**

Clinical Experience in Copenhagen, Stockholm & Lille

Discussion: Is there a Platform for a Future Consensus Meeting concerning

"The Role of HBO in Necrotizing Fasciitis"

12.00 - 13.00 Lunch

**13.00 - 15.30 Session 7 - The Infected Diabetic Foot - the Role of HBO
(Daniel Mathieu & Kerstin Brismar)**

The Infected Diabetic Foot

[Caroline E Fife, Houston, USA](#)

Experimental Research

[Wende Buras Reenstra, Boston, USA](#)

HBO treatment of Diabetic Wounds, RCTs

[Jan Apelqvist, Malmö, Sweden](#)

New Double-Blind HBO Study with Long-Term Follow up

[Magnus Löndahl, Lund, Sweden](#)

Discussion: Is there a platform for a future consensus meeting?

"Role of HBO in Diabetic Foot"

15.30 - 16.00 Coffee / End of meeting

Social Program

Thursday, May 7

18.30 - 22.00 Meet the Faculty at the Skansen Aquarium

Bus departure from Clarion Hotel Sign at 18.15

Friday, May 8

**19.00 - 24.00 Banquet, Culinary Dinner & Dance to "On Cue" Big-Band in
the Magnificent "Mirror Hall" of the Grand Hôtel.**

Dress Code: Business Suit/Suit and Tie

Bus Departure from Clarion Hotel Sign at 18.40