



Swiss  
Paraplegic  
Centre

# 8<sup>th</sup> Scientific Symposium «Life and Care» Weaning | Breathing

November 26<sup>th</sup> / 27<sup>th</sup> 2015

Swiss Paraplegic Centre Nottwil, Switzerland



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# 8<sup>th</sup> Scientific Symposium «Life and Care» Weaning | Breathing

Dear Colleagues,

It is a great pleasure to invite you to Nottwil for the 8<sup>th</sup> Symposium on «Life and Care».

The symposium this year is devoted to pivotal topics in respiratory medicine, and expert speakers from different fields – pneumology, intensive care and paraplegiology – will elucidate many aspects of respiratory medicine.

The Swiss Weaning Centre provides diagnostics and treatment for difficult to wean patients. Historically, the program was developed for the weaning of tetraplegic patients dependent on respiratory support. But nowadays we treat patients from all fields of medicine who are in need of a prolonged weaning procedure.

The combination of intensive care medicine, weaning and paraplegiology will provide a comprehensive and in-depth presentation of respiratory medicine as we will talk about extracorporeal support, weaning methods, diaphragm pacing and other topics.

We are looking forward seeing you in Nottwil in November 2015.

Regards,



PD Dr. med. M. Béchir  
Head of Intensive Care,  
Pain and Operative Medicine



Dr. med. Michael Baumberger  
Head of Spinal Cord and  
Rehabilitation Medicine

# Thursday 26<sup>th</sup> November

08.45–09.00	<b>Opening statement</b> PD Dr. med. Markus Béchir (SUI)
09.00–09.45	<b>Neurally adjusted ventilatory assist (NAVA), principles and applications</b> PD Dr. med. Lukas Brander (SUI)
09.45–10.30	<b>Lung transplantation and ECMO</b> PD Dr. med. Reto Schüpbach (SUI)
10.30–10.50	Coffee break
10.50–11.35	<b>Extracorporeal CO<sub>2</sub> removal to avoid intubation. How and for whom does it work?</b> Dr. med. Stephan Braune, MPH (DE)
11.35–12.10	<b>APRV to improve recruitment in severe hypoxemia? Comparison to other methods</b> Prof. Dr. med. Christian Putensen (DE)
12.10–13.15	Lunch
13.15–14.00	<b>The complex treatment of respiratory failure – relaxation, prone position and ECMO</b> Prof. Dr. med. Antoine Roch (FRA)
14.00–14.45	<b>Heart lung interactions in the weaning process</b> PD Dr. med. Markus Béchir (SUI)
14.45–15.05	Coffee break
15.05–15.50	<b>High frequency ventilation: What is it, and what went wrong?</b> Prof. Dr. med. Arthur Slutsky (CAN)
15.50–16.35	<b>Use of cough augmentation techniques in the critically ill</b> Prof. Louise Rose (CAN)
16.35–17.00	<b>Roundtable with the experts</b>

# Friday 27<sup>th</sup> November

09.00–09.15	<b>Opening statement</b> Dr. med. Michael Baumberger (SUI)
09.15–10.10	<b>Sleep disorders in SCI</b> Dr. David Berlowitz (AUS)
10.10–11.05	<b>Linked: Breathing and posture</b> Dr. Mary Massery (USA)
11.05–12.00	<b>Autonomic dysfunction and breathing</b> Prof. Dr. med. Andrei Krassikuov (CAN)
12.00–13.00	Lunch
13.00–13.55	<b>Workshop: Respiratory muscle training in spinal cord injury: Practical applications for patients and athletes</b> PD Dr. sc. nat. Claudio Perret (SUI)
13.55–14.50	<b>Workshop: Obstructive sleep apnea in tetraplegia – causes and treatment</b> Dr. David Berlowitz (AUS)
14.50–15.10	Coffee break
15.10–16.05	<b>Workshop: Diaphragm pacing methods</b> Dr. med. Michael Baumberger / Ines Bersch PT (SUI)
16.05–17.00	<b>Diaphragm pacing: Replacing, reducing and delaying ventilators. Functional electrical stimulation to maintain diaphragm physiology and overcome central respiratory instability</b> Prof. Dr. med. Raymond Onders (USA)
17.30	<b>Social Event</b> Transfer to Lucerne, apéro riche and guided private tour through the Museum 'Rosengart' in Lucerne. Please register separately for this event – details see page 8.

## **Symposium languages**

Official symposium languages are English and German.  
No simultaneous translations available.

# Faculty

## **PD Dr. med. Markus Béchir (SUI)**

MD, Head of Intensive-, Pain- and Operative Medicine, Head of Swiss Weaning Centre, Swiss Paraplegic Centre, Nottwil, Switzerland

## **PD Dr. med. Lukas Brander (SUI)**

MD, Head of the Interdisciplinary Intensive Care Unit, Luzerner Kantonsspital, Lucerne, Switzerland

## **PD Dr. med. Reto Schüpbach (SUI)**

MD, Deputy head of surgical ICU, Intensive Care Unit, University Hospital Zurich, Switzerland

## **Dr. med. Stephan Braune, MPH (DE)**

MD, MPH, EDIC, Head of the Medical Intensive Care Unit and Emergency Department, St. Franziskus-Hospital Münster, Germany. Research associate of the Respiratory Failure Research Group at the Department of Intensive Care Medicine, University Medical Center Hamburg-Eppendorf, Germany

## **Prof. Dr. med. Christian Putensen (DE)**

MD, Head of Operative Intensive Medicine, University Hospital Bonn, Germany

## **Prof. Dr. med. Antoine Roch (FRA)**

ICU, acute respiratory failure and severe infections and emergency department CHU Nord, Marseille, France

## **Prof. Dr. med. Arthur Slutsky (CAN)**

Dr. Slutsky is the Vice President of the Research Department at St. Michael's Hospital in Toronto, Ontario, Canada. He is a Professor of Medicine, Surgery and Biomedical Engineering at the University of Toronto and Keenan Chair in Medicine at St. Michael's Hospital & University of Toronto, Canada

## **Prof. Louise Rose (CAN)**

TD Nursing Professorship in Critical Care Research; Sunnybrook Health Sciences Centre; Associate Professor, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto; Research Director Provincial Centre of Weaning Excellence, Toronto East General Hospital and adjunct scientist at the Institute for Clinical Evaluative Sciences, West Park Healthcare Centre and the Li Ka Shing Institute of St. Michael's Hospital, Toronto, Canada

## **Dr. med. Michael Baumberger (SUI)**

MD, Head of Spinal Cord and Rehabilitation Medicine, Swiss Paraplegic Centre, Nottwil, Switzerland

## **Dr. David Berlowitz (AUS)**

PhD PGradDipPhty (Research) BAppSci (Phty) Senior Research Fellow Institute for Breathing and Sleep, Research Physiotherapist, Victorian Respiratory Support Service, Austin Health, Melbourne, Australia

**Dr. Mary Massery (USA)**

PT, DPT, DSc; Dr. Massery received her BS in Physical Therapy from Northwestern University in 1977, her DPT from the University of the Pacific in 2004 and her DSc from Rocky Mountain University in 2011. She continues to maintain a private practice in Chicago, specializing in breathing and postural dysfunction.

**Prof. Dr. med. Andrei Krassikuov (CAN)**

MD, PhD, Professor Division of Physical Medicine and Rehabilitation, Department of Medicine, University of British Columbia, Canada. Chair and Associate Director in Rehabilitation Research at ICORD, Director, ICORD Autonomic Research Unit; Staff physician, Spinal Cord Program, GF Strong Rehabilitation Centre; Adjunct Professor, Departments of Physical Medicine and Rehabilitation, University of Western Ontario, Canada

**Ines Bersch PT, MSc (SUI)**

Therapy Instructor at the department of therapy management of the Swiss Paraplegic Centre, Nottwil, Switzerland

**Prof. Dr. med. Raymond Onders (USA)**

MD, Professor of Surgery at Case Western Reserve University and Chair of Surgical Innovation at University Hospitals Case Medical Center, Cleveland, Ohio, USA. He has been researching the ability to electrically stimulate the diaphragm for two decades with numerous publications. This research has allowed many patients with orphan diseases to once again breathe naturally with negative pressure using their own diaphragm.

**PD Dr. sc. nat. Claudio Perret (SUI)**

PhD, Senior researcher at the Institute of Sports Medicine, Swiss Paraplegic Centre, Nottwil; Lecturer for «Spinal Cord Injury and Exercise» at the ETH Zurich; Steering committee member of ERGiDS (European Research Group in Disability Sports); Main research interests: exercise and respiratory physiology, sports nutrition.

# General Information

## Credits

Credits from the following societies are requested:

- Physical Medicine and Rehabilitation (PMR)
- Pneumology (SGP)
- Intensive Care (SGI)
- Anesthesiology (SGAR)
- Neurology (SNG)
- Rheumatology (SGR)
- Internal Medicine (SGIM)

## Fees

The symposium and the social event are both free of charge.

## Registration

Please register for this symposium on our website: [www.paraplegie.ch/life-care](http://www.paraplegie.ch/life-care) for organizational purposes (catering, credits, certificate of participation etc.).

Registration for one day only or both days is possible. Please register separately for the social event on Friday evening! Deadline for registration is November 5<sup>th</sup> 2015.

## Conference Center

Guido A. Zäch Institut (GZI)

Guido A. Zäch Strasse 4

CH-6207 Nottwil

P +41 41 939 55 62

F +41 41 939 55 70

## Questions

For questions concerning this symposium please contact:

[clinical.trial.unit@paraplegie.ch](mailto:clinical.trial.unit@paraplegie.ch)

or phone: +41 41 939 55 61

## Symposium Website

[www.paraplegie.ch/life-care](http://www.paraplegie.ch/life-care)

## Accommodation

Hotelrooms are available next to the Swiss Paraplegic Centre at the

Seminarhotel Sempachersee

Gebäude GZI

Kantonsstrasse 46

CH-6207 Nottwil

P +41 41 939 23 23

F +41 41 939 23 24

[info@dasseminarhotel.ch](mailto:info@dasseminarhotel.ch)

[www.dasseminarhotel.ch](http://www.dasseminarhotel.ch)



# The quick and easy way to get to Nottwil

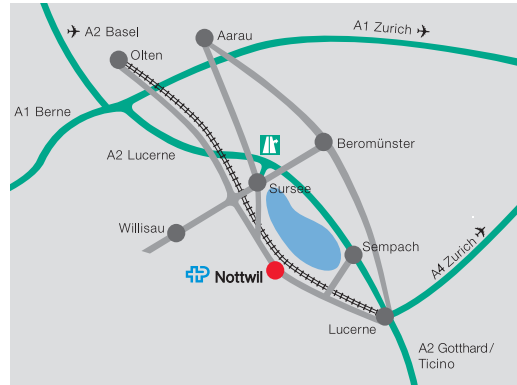
The Swiss Paraplegic Centre (SPC) and the Guido A. Zäch Institute (GZI) are quick and easy to get to from all directions, either by car or by public transport.

## By rail and bus

We are a ten-minute walk from the railway station in Nottwil, where there are trains every half hour to and from Lucerne and (via Sursee) to and from Basel, Bern, Geneva and Zurich. Nottwil railway station is wheelchair-accessible. In addition, the SPC and the GZI have their own bus stop connecting them to the regional transport network.

## By car

Nottwil is situated close to the A2 motorway (Basel–Lucerne). The SPC and the GZI are signposted from the Sursee exit. There is a 520-space car park there. Parking charges apply.



# Plan of location



**SPC** = Swiss Paraplegic Centre    **GZI** = Guido A. Zäch Institut    **SHS** = Seminarhotel Sempachersee

○ Symposium



