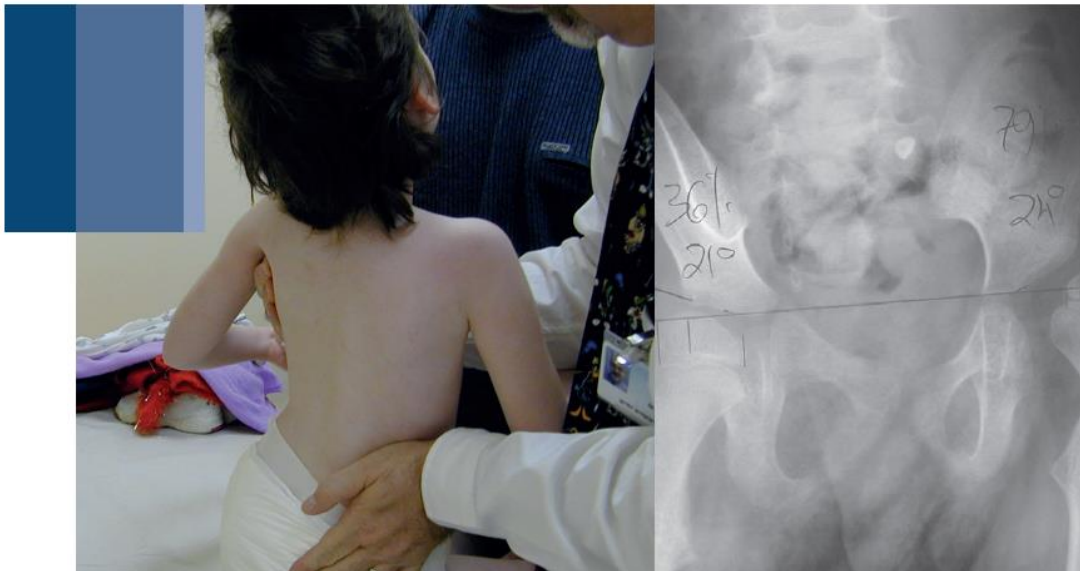




European Paediatric Orthopaedic Society

# EPOS BAT Advanced Course

Current Concepts on the Orthopaedic Management  
of Cerebral Palsy



## Current Concepts on the Orthopaedic Management of Cerebral Palsy

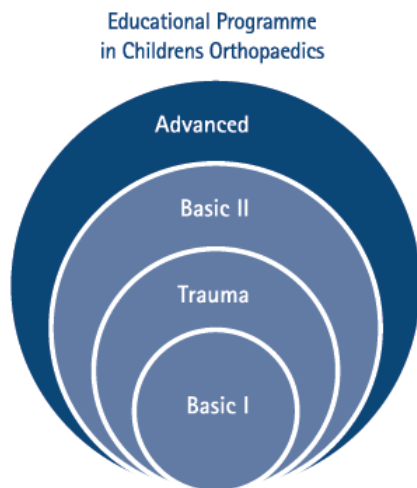
November 30 & December 1, 2016  
Speising Hospital, Vienna, Austria

# Course Welcome Message

Dear Colleagues,

It is a pleasure to invite you to the EPOS BAT Advanced Course, Current Concepts on the Orthopaedic Management of Cerebral Palsy, an integral part of the EPOS BAT Educational Programme.

The EPOS Educational Committee has set up the “BAT (Basic, Advanced & Traumatology) Educational Programme”. The programme meets the requirements set by the European Federation of National Associations of Orthopaedics and Traumatology (EFORT) and European Board of Orthopaedics and Traumatology (EBOT). This is an advanced course, aimed to add to the core curriculum education in Children’s Orthopaedics.




The course is aimed at attending paediatric orthopaedic surgeons and fellows in paediatric orthopaedics, as well as general orthopaedic surgeons, especially young ones, and residents who want to improve their knowledge in Children’s Orthopaedics. The scientific content should encourage a greater understanding of Children’s Orthopaedics via a problem-solving approach to the diagnosis and management of orthopaedic conditions in children informed by relevant research evidence. The teaching faculty is composed of internationally recognized experts in Children’s Orthopaedics from all over Europe.

Cerebral palsy is becoming one of the frequent challenges facing the pediatric orthopedic surgeon, and it is considered the most common and most complex of all childhood onset disabilities. A significant part of the surgical procedures performed in the recent decades is due to CP, and the modern paediatric orthopaedic surgeon should have wide knowledge of CP, its orthopaedic aspects and the solution for these problems. The devastating effects of neuromuscular hip dysplasia and neuromuscular scoliosis necessitate surveillance programs and early intervention to prevent complications and decreased quality of life. We need to keep ambulatory patients walking and to help them improve their gait. All of these aims require wide knowledge of CP, understanding of the pathophysiology of the orthopedic aspects, the available diagnostic tools and treatment. We will cover these topics in this course. There will be presentations by leading authorities in the CP field, panel discussions on hot topics and case discussions, aimed at improved understanding, creation of a common language and cooperation towards future research and the development of clinical guidelines, as well as hands on workshops. We invite orthopaedic surgeons and residents to the Orthopaedic Hospital Speising in Vienna in November 2016. We will do our utmost to meet and exceed your expectations.

Yours,



Uri Givon  
Course Organiser



Hakan Ömeroglu  
EPOS Education  
Committee Chairman



Manuel Cassiano Neves  
EPOS President 2016/2017

# Course contents & Course faculty

## Course contents:

- Spasticity
- Neuromuscular hip dysplasia
- Gait problems
- Crouch and stiff knee gait
- Neuromuscular scoliosis
- Foot disorders
- Theoretical lectures
- Controversial issues
- Case discussions
- Workshops

## Course Faculty:

<b>Guy Molenaers</b>	<i>Pellenberg Hospital, Leuven, Belgium</i>
<b>Ana Presedo</b>	<i>Hopital Robert Debre, Paris, France</i>
<b>Elke Viehweger</b>	<i>Hopital de la Timone Enfants Marseilles, France</i>
<b>Reinald Brunner</b>	<i>Basler Kinderspital, Basle, Switzerland</i>
<b>Erich Rutz</b>	<i>Basler Kinderspital, Basle, Switzerland</i>
<b>Muharrem</b>	<i>Yazici Hacettepe University, Ankara, Turkey</i>
<b>Uri Givon</b>	<i>Sheba Medical Center, Israel</i>
<b>Alexander Krebs</b>	<i>Orthopedic Hospital Speising, Vienna, Austria</i>
<b>Thomas Dreher</b>	<i>Heidelberg University Hospital Heidelberg, Germany</i>
<b>Adam Shortland</b>	<i>Guy's Hospital, London, UK</i>

# Course Program

Wednesday 30 November 2016

**07:00-08:00** Registration

**08:00-08:10** Opening and welcome

Uri Givon

**08:10-08:30** Cerebral Palsy and the orthopaedic surgeon

Reinald Brunner

**08:30-08:50** Physical Examination

Reinald Brunner

**08:50-09:50** Workshop Rotation I

Workshop I by OrthoPediatics: Femoral osteotomy (Proximal & Distal)

Workshop II by K2M: Spine

Workshop III Discussions on patients with gait pathologies, diagnosis of gait problems and the recommended treatment

**09:50-10:10** Coffee break

**10:10-10:25** Muscle structure

Adam Shortland

**10:25-10:40** What is spasticity

Reinald Brunner

**10:40-10:55** General approach

Uri Givon

**10:55-11:10** Medication

Guy Molenaers

**11:10-11:25** BoNTA

Guy Molenaers

**11:25-11:40** ITB

Ana Presedo

**11:40-11:55** Rhizotomy

Guy Molenaers

**11:55-12:10** Surgery

Ana Presedo

**12:10-12:25** Case discussion

Guy Molenaers

**12:25-13:15** Lunch

**13:15-13:35** Hip surveillance

Eric Rutz

**13:35-13:50** Treatment protocols

Uri Givon

**13:50-14:10** Soft tissue procedures

Ana Presedo

**14:10-14:30** Femoral osteotomy

Alexander Krebs

**14:30-14:50** Pelvic osteotomy

Reinald Brunner

**14:50-15:10** Case discussion

**15:10-15:30** Coffee break

**15:30-16:30** Workshop Rotation II

Workshop I by OrthoPediatics: Femoral osteotomy (Proximal & Distal)

Workshop II by K2M: Spine

Workshop III Discussions on patients with gait pathologies, diagnosis of gait problems and the recommended treatment

**16:30-16:50** Motion analysis

Adam Shortland

**16:50-17:05** Effects of different planes on gait

Reinald Brunner

**17:05-17:25** Femoral derotation osteotomy

Thomas Dreher

**17:25-17:45** Tibial derotation osteotomy

Erich Rutz

**17:45-18:05** Soft tissue surgery? Does it have a place?

Uri Givon

**18:05-18:30** Case discussion

Alexander Krebs

## Thursday 1 December 2016 2016

07:00-08:00	Registration	
08:00-08:10	Definition (stiff knee gait)	<u>Adam Shortland</u>
08:10-08:25	Treatment	<u>Elke Viehweger</u>
08:25-08:35	Definition (crouch gait)	<u>Adam Shortland</u>
08:35-08:50	Development and treatment principles	<u>Reinald Brunner</u>
08:50-09:05	Soft tissue/ growth control	<u>Ana Presedo</u>
09:05-09:20	Osteotomies	<u>Thomes Dreher</u>
09:20-09:35	What do you do with the patella	<u>Erich Rutz</u>
09:35-09:50	Case discussion	<u>Elke Viehweger</u>
09:50-10:50	Workshop Rotation II	
	Workshop I by OrthoPediatrics: Femoral osteotomy (Proximal & Distal)	
	Workshop II by K2M: Spine	
	Workshop III Discussions on patients with gait pathologies, diagnosis of gait problems and the recommended treatment	
10:50-11:10	Coffee break	
11:10-11:25	Neuromuscular scoliosis	<u>Muharrem Yazici</u>
11:25-11:40	Bracing	<u>Erich Rutz</u>
11:40-11:55	Seating systems and head control	<u>Alexander Krebs</u>
11:55-12:10	Preparing a patient	<u>Elke Viehweger</u>
12:10-12:25	Growth friendly systems	<u>Muharrem Yazici</u>
12:25-12:40	PSF	<u>Muharrem Yazici</u>
12:40-12:55	Outcomes and complications	<u>Elke Viehweger</u>
12:55-13:10	Case discussion	<u>Muharrem Yazici</u>
13:10-14:00	Lunch	
14:00-14:15	Do we need to have a spine surveillance system?	<u>Erich Rutz</u>
14:15-14:30	Assessment of the foot in the gait lab	<u>Reinald Brunner</u>
14:30-14:45	Cavo-varus foot	<u>Ana Presedo</u>
14:45-15:00	Planovalgus foot	<u>Alexander Krebs</u>
15:00-15:15	Bracing	<u>Reinald Brunner</u>
15:15-15:30	Decision making	<u>Thomas Dreher</u>
15:30-15:45	Case discussion	
15:45-16:00	Coffee break	
16:00-16:30	Closing ceremony	

### Workshop Stations:

**Workshop I: Femoral Osteotomy (Proximal & Distal)** Richard King, Thomas Dreher, Guy Molenaers & Erich Rutz

**Workshop II: Spine** Mandi Tye, Graham Travis, Elke Viehweger and Muharrem Yazici

**Workshop III: Discussions on patients with gait pathologies, diagnosis of gait problems and the recommended treatment** Uri Givon, Alexander Krebs & Adam Shortland