

# 7<sup>th</sup> Pediatric Neurosurgery Symposium

**27 - 28 June 2024**

**University Children's Hospital Basel (UKBB)**





# Preamble

Dear Colleagues,

It is a pleasure to invite you to the 7th Pediatric Neurosurgery Symposium at the University Children's Hospital in Basel (UKBB). Continued medical education, for residents and pediatric specialists, is key to stay up to date with the latest developments and thoughts in the conditions and diseases we treat in our pediatric patients. The interdisciplinary discussion and exchange of knowledge is the foundation of best medical care.

This year we will discuss about the highly relevant, and sometime controversial topic, of Traumatic Brain and Spine injury in Children. We will discuss basic concepts but also novel aspects of it. This symposium will bring to you the latest thoughts on diagnosis, clinical decision-making and treatment options. Traumatic Brain and Spine injury is a very complex topic, demanding extensive teams of knowledgeable specialists in management and treatment protocols. An interdisciplinary approach in specialized clinics, like at UKBB, is key for best medical treatment. We will have a broad panel of specialists covering the most important aspects from neurosurgical, neurological, intensive-care-medicine, child protection, and radiological point of view.

On Thursday, June 27th, we are again proud to have world-renowned experts giving keynote lectures and specific talks on Traumatic Brain and Spine Injury. We believe that this session should be highly relevant and appealing to all physicians seeing those children, including neurosurgeons, pediatricians, intensive-care-physicians, emergency room physicians, pediatric surgeons, neuropediatricians, and anyone interested in pediatric medicine. The session will be closed by a round table discussion with an expert panel allowing participants to ask their burning questions.

Friday, June 28th, will be a dedicated workshop mainly, but not only, for residents that will focus on Virtual Reality on TBI and spinal trauma, hydrocephalus and shunt technology, as well as concepts of craniotomies in pediatric TBI with the help of 3D printed skulls. An interesting and dynamic discussion on difficult Traumatic Brain and Spine Injury cases, that provides understanding of the current state and looks into new approaches, will precede the workshop session.

**Participation in the symposium, as well as food and beverages during the meeting, will be free of charge thanks to our generous sponsors.**

We are looking forward to welcoming all of you to the University Children's Hospital in Basel for what we hope will be a highly educational and collegial day devoted to broadening your and our knowledge in Pediatric Neurosurgery.

Warm regards,

Prof. Raphael Guzman, chief Pediatric Neurosurgery

Prof. Jehuda Soleman, deputy chief Pediatric Neurosurgery

# Program

## Thursday 27 June 2024

- 8.20 - 8.40 Registration and Coffee in Foyer  
8.40 - 8.45 Welcome address (Prof. Raphael Guzman, UKBB, Basel)

### **Traumatic Brain and Spine Injury in Children – Background (Chair Prof. Andrea Cardia, Lugano)**

- 8.45 - 9.00 Epidemiology of Traumatic Brain and Spine Injury in Children (Dr. Isabel Fernandes, Basel)  
9.05 - 9.20 Criterias for Imaging and Classification of Traumatic Brain and Spine Injury in Children (Dr. Katharina Lutz, Bern)  
9.25 - 9.40 Radiological Features Influencing Prognosis of Traumatic Brain and Spine Injury in Children (Prof. Irina Mader, Basel)

### **9.45 - 10.15 Coffee break**

### **Traumatic Brain Injury in Children – Surgical Treatment (Chair: Prof. Ulf Schneider, Luzern)**

- 10.15 - 10.45 Surgical treatment of Skull Fractures, Intracranial Bleedings, and Elevated ICP in Children – (Prof. Jehuda Soleman, Basel)  
10.50 - 11.20 Surgical treatment of Traumatic Brain Injury in Children – Differences to the Adult Population and Challenges in Children (Prof. Raphael Guzman, Basel)

### **Keynote Lecture I (Chair: Prof. Raphael Guzman, Basel)**

- 11.25 - 11.55 Traumatic brain injury: rethinking ideas and approaches (Dr. Radek Frič, Oslo)

### **12.00 - 13.15 Lunch**

### **Traumatic Spine Injury in Children – Treatment (Chair: Prof. Carol Hasler, Basel)**

- 13.15 - 13.30 Treatment of Pediatric Cervical Trauma (Dr. Lukas Burger, Basel)  
13.35 - 13.50 Treatment of Pediatric Thoracolumbar Trauma (Dr. Maria Licci, Basel)

## **Keynote Lecture II (Chair: Dr. Andrea Bartoli, Geneva)**

13.55 - 14.40 Pediatric Traumatic Brain Injury: when to operate and when not to operate (Prof. Shlomi Constantini, Tel Aviv)

## **Non-Accidental Pediatric Brain Injury (Chair: Prof. Alexandre Datta, Basel)**

14.45 - 15.00 Diagnostic and legal considerations and challenges (Dr. Daniel Beutler, Basel)

15.05 - 15.20 Surgical Management of Non-accidental Pediatric Brain Injury (Dr. Maria Licci, Basel)

**15.20 - 15.50 Coffee break**

## **Pediatric Neuro- and Polytrauma (Chair: Prof. Michael Edwards, California)**

15.50 - 16.05 National and HSM Guidelines of Neuro- and Polytrauma in Children (Prof. Stefan Holland-Cunz, Basel)

16.10 - 16.25 Pediatric Polytrauma – An Overview on Epidemiology and Treatment (Dr. Benjamin Frei, Basel)

16.30 - 16.45 PICU Management of Neuro- and Polytrauma in Children (Prof. Daniel Trachsel, Basel)

16.50 - 17.05 Rehabilitation and outcome of Neuro- and Polytrauma in Children (Prof. Andreas Meyer, Zurich)

## **Round table discussion (Moderator: Prof. Jehuda Soleman, Basel)**

17.10 - 18.10 Traumatic Brain and Spine Injury in Children: Management and Ethical Dilemmas (Prof. Constantini, Prof. Edwards, Prof. Trachsel, Prof. Holland-Cunz, Prof. Mader, Prof. Meyer)

18.10 - 18.15 Closing remarks and introduction of Dr. Simon Fuchs (Prof. Raphael Guzman)

18.15 - 18.30 Pediatric Healthcare: Kantonsarzt und Leiter Medizinische Dienste (Dr. Simon Fuchs)

**18.30 Apéro riche**

**20.00 Network Dinner**

## Friday 28 June 2024

- 08.45 - 09.00 Registration and Coffee
- 09.00 - 09.15 Welcome (Prof. Raphael Guzman/Prof. Jehuda Soleman, Basel)
- 09.15 - 12.00 Case Discussion Traumatic Brain and Spine Injury in Children (Dr. Andrea Bartoli, Geneva; Dr. Maria Licci, Basel; Prof. Shlomi Constantini, Tel Aviv)

### 13.00 - 16.45

#### **Workshop**

Faculty: Prof. Raphael Guzman (Basel), Prof. Jehuda Soleman (Basel), Prof. Shlomi Constantini (Tel Aviv), Prof. Michael Edwards (San Francisco), PD Dr. Christian Zweifel (Chur), Dr. Andrea Bartoli (Geneva), Dr. Maria Licci (Basel)

Hands on Pediatric craniotomies: (Bifrontal craniotomy, Foramen magnum decompression, skull base/fronto-basal reconstruction)

Hydrocephalus, shunt model

Patient Positioning and Pinning Techniques in Children

Virtual Reality (VR) on Traumatic Brain Injury (TBI) and Spinal Trauma.

# Speakers



Dr. A. Bartoli,  
Geneva



Dr. D. Beutler,  
Basel



Dr. L. Burger,  
Basel



Prof. S. Constantini,  
Tel Aviv



Prof. M. Edwards,  
San Francisco



Dr. I. Fernandes,  
Basel



Dr. B. Frei,  
Basel



Dr. R. Frič,  
Oslo



Dr. S. Fuchs,  
Basel



Prof. R. Guzman,  
Basel



Prof. S. Holland-Cunz,  
Basel



Dr. M. Licci,  
Basel



Dr. K. Lutz,  
Bern



Prof. I. Mader,  
Basel



Prof. A. Meyer,  
Zurich



Prof. J. Soleman,  
Basel



Prof. D. Trachsel,  
Basel



# Session Chairs



Dr. A. Bartoli,  
Geneva



Prof. A. Cardia,  
Lugano



Prof. A. Datta,  
Basel



Prof. M. Edwards,  
San Francisco



Prof. R. Guzman,  
Basel



Prof. C. Hasler,  
Basel



Prof. U. Schneider,  
Luzern



Prof. J. Soleman,  
Basel

# Workshops



Dr. A. Bartoli,  
Geneva



Prof. S. Constantini,  
Tel Aviv



Prof. M. Edwards,  
San Francisco



Prof. R. Guzman,  
Basel



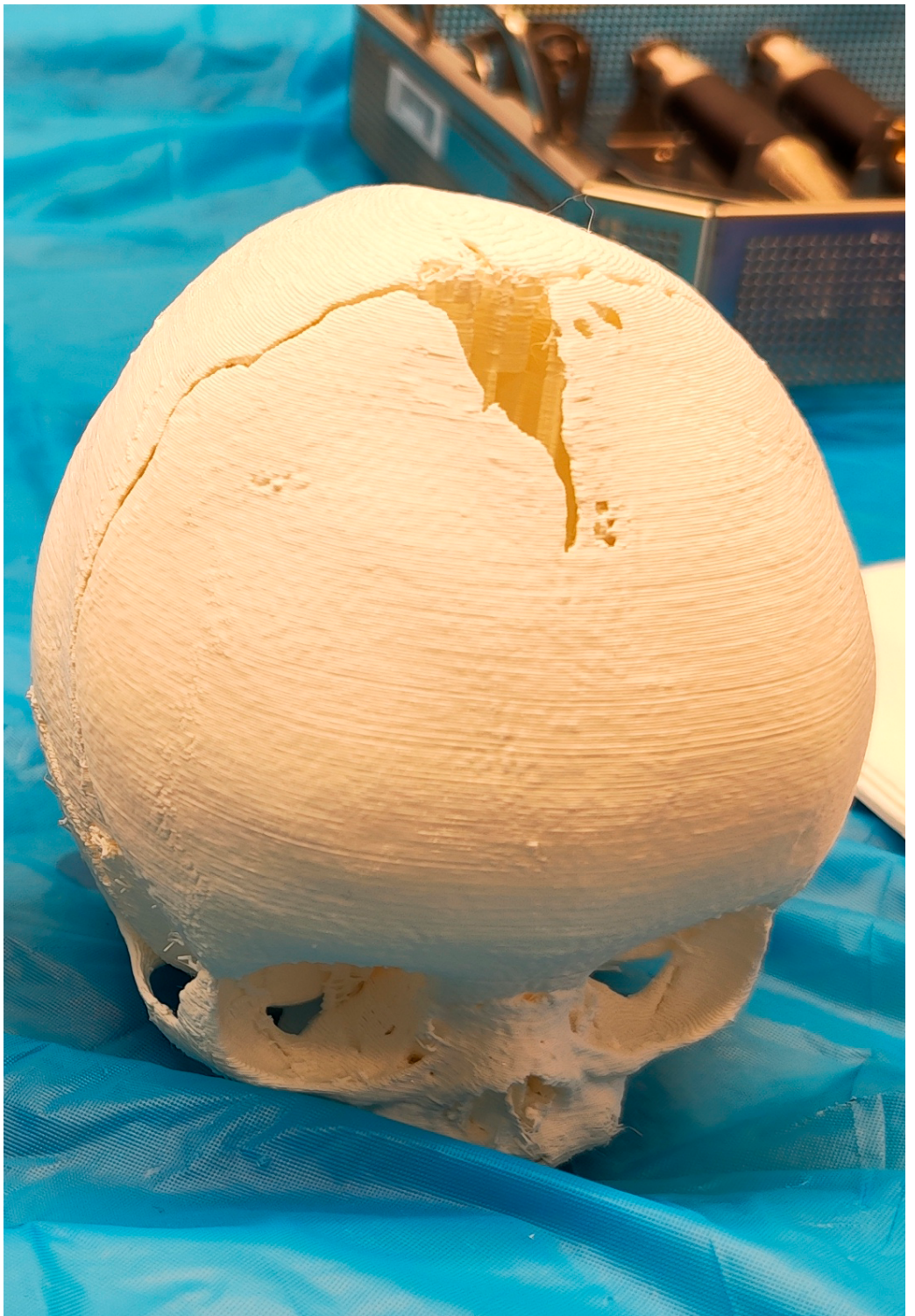
Dr. M. Licci,  
Basel



Prof. J. Soleman,  
Basel



PD Dr. Zweifel,  
Chur



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Kanton Basel-Stadt

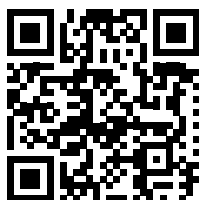


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Registration



Please register until June 17 2024

Credit points: SGNC, SGNP, SGP, SGKC

[www.ukbb.ch/symposium-neurosurgery](http://www.ukbb.ch/symposium-neurosurgery)

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