

Preliminary Program
Joint Congress of the
International Children's Continence Society (ICCS)
and The Society For Research Into Hydrocephalus And Spina Bifida (SRHSB)

June 21-24, 2017
Washington University School of Medicine
St. Louis, Missouri, USA

Locations:

Eric. P. Newman Educational Center (EPNEC)
BJC Institute of Health (BJCIH)
Farrell Teaching and Learning Center (FTLC)

Tuesday, June 20, 2017

12:00 – 17:00 ICCS Board Meeting with lunch –BJCIH 7th Floor Conference Room A/B

Wednesday, June 21, 2016

07:00 – 20:00 Registration – EPNEC Lobby

08:00 - 12:00 **ICCS Workshops**

1. ***Urodynamics I*** – EPNEC Great Room

Co-Directors: Paul Austin, MD and Mario De Gennaro, MD
8:00 - 8:05 Welcome/Introduction - Paul Austin, MD
8:05 – 8:45 Vision & Explanation of the Instruments – Christian Sager, MD
8:45 – 9:25 Non-invasive urodynamics Uroflowmetry - Israel Franco,MD
9:25 – 10:10 Urodynamics – Stephen Yang, MD
10:10 - 10:40 Break - EPNEC Lobby
10:40 – 11:15 Videourodynamics – Mario De Gennaro, MD
11:15 – 11:55 Pelvic floor Urotherapy – Anka Nieuwhof-Leppink, MD
11:55 - 12:00 Wrap-up Remarks – Paul Austin, MD

2. ***Bladder Management Program (CIC)*** – FTLC 4th floor classroom 403

Course Director: Konstatinos Kamperis, MD
8:00 - 8:05 Welcome/Introduction – Konstatinos Kamperis, MD
8:05 – 8:45 Standard Urotherapy and Role of Pelvic Floor Therapy– Anka Nieuwhof-Leppink, MD
8:45 – 9:25 Role of CIC and update on navigating catheter type and regimens – Ann Raes, MD
9:25 – 10:10 Co-morbid psychological conditons with bladder dysfunction – Alexander von Gontard, MD
10:10 - 10:40 Break - EPNEC Lobby

Wednesday, June 21, 2016 (continued)

- 10:40 – 11:15 TENS neuromodulation & bladder dysfunction – Ubirajaro Barroso, Jr., MD
11:15 – 11:55 Implantable sacral neuromodulation for refractory bladder dysfunction – Seth Alpert, MD
11:55 - 12:00 Wrap-up Remarks – Konstatinos Kamperis, MD

09:30 – 12:30 SRHSB Executive Committee meeting – BJC Institute of Health 9th floor Conference Room, with box lunch

13:00 – 17:00 ICCS Workshops

1. ***Urodynamics 2*** - EPNEC Great Room
13:00 – 17:00 Hands-on with Dry Lab Urodynamic Equipment – All Faculty
2. ***Bowel Management Program*** – FTLC 4th floor classroom 403
Course Director: Charlotte Siggaard Rittig, MD
13:00 - 13:05 Welcome/Introduction – Charlotte Siggaard Rittig, MD
13:05 – 13:45 Role of Fiber and laxatives in managing bowel dysfunction – Charlotte Siggaard Rittig, MD
13:45 – 14:25 Enema irrigations in Non –neurogenic bowel - Cecilie Voldum Siggaard, MD
14:25 – 15:10 Enema irrigations in Neurogenic bowel – Eliane Fonseca, MD
15:10 - 15:40 Break - EPNEC Lobby
15:40 – 16:15 Co-morbid conditons with bowel dysfunction – Anne Wright, MD
16:15 – 16:55 Role of neuromodulation with refractory bowel dysfunction – Seth Alpert, MD
16:55 - 17:00 Wrap-up Remarks – Charlotte Siggaard Rittig, MD

13:00 – 17:00 SRHSB Pre-meeting Sessions

1. ***Experimental Hydrocephalus*** – BJCIH 8th floor Conf. Room A/B
Director: Hazel Jones, PhD
2. ***Clinical Cases*** – BJCIH 10th floor Conf. Room A/B
Co-Directors: Marcus Pauly, MD, Roger Bayston, PhD, Mark Luciano, MD, PhD

18:00 – 20:00 **Welcome Reception** for all ICCS-SRHSB registrants – EPNEC Lobby
Welcoming Presentations by Paul Austin, MD; Pat McAllister, PhD; Dave Limbrick, MD, PhD; & Tryggve Neveus

Thursday, June 22, 2016

08:00 – 13:30 Registration - EPNEC lobby

ICCS-SRHSB Program - EPNEC Auditorium

- 08:00 – 09:30 **Special Symposium Part A: “Transition of Care in Spina Bifida”**
08:00 – 08:15 Introduction: Tryggve Nevveus, MD
Moderators: Paul Austin, MD and Andy Wynd, MBE, MIO
08:15 – 08:45 **Kelm Hjalmas Lecture** – "Back to the Future - Past Treatment and Long Term Care", Daniel N. Wood, MD; Consultant in Adolescent and Reconstructive Urology, University College London Hospitals, London, UK
08:45 – 09:15 **Special Lecture** - "Scaffolding the Future: Transition in Action", Sharon Levy, PhD; Programme Director of Nursing Studies, University of Edinburgh, Edinburgh, Scotland
09:15 – 09:30 Discussion
09:30 – 10:00 Break - Exhibitors and Poster Viewing – EPNEC Lobby

ICCS Program - EPNEC Auditorium

- 10:00 – 10:45 **Special Lecture**
Introduction: Paul Austin, MD
“Molecular Insights into Chronic and Recurrent Bladder Infections” – Thomas J. Hannan, MD, Department of Pathology and Immunology at Washington University School of Medicine, Vice President of Research at Fimbrion Therapeutics, Inc.
10:45 – 12:15 **Bladder I Session: Basic Science and Epidemiology**
Moderators: Stephen Yang, MD and Stephen Canon, MD
12:15 – 13:00 ICCS General Assembly Meeting with box lunch – EPNEC Auditorium
12:15 – 13:00 Box Lunch – EPNEC Lobby

SRHSB Program – EPNEC Seminar B

- 10:30 – 10:15 **Special Symposium Part B: “Transition of Care in Hydrocephalus”**
10:30 – 10:35 Moderators: Jack Walker, MD and Pat McAllister, PhD
10:35 – 10:50 “A Patient’s View of Transition of Care”, Olivia Maccoux, Hydrocephalus Association and Augsburg College, Minneapolis, MN, USA
10:50 – 11:20 “Transition is But the First Step in a Journey of 1000 Miles. Report of the Hydrocephalus Association Summit on Transitional Care”, Michael A. Williams, MD; Department of Neurology, University of Washington, Seattle, WA, USA
11:20 – 11:50 “Neurosurgical Comparisons between Children and Adults with Hydrocephalus”, Mark Luciano, MD, PhD; Johns Hopkins Hospital, Baltimore, USA

Thursday, June 22, 2016 (continued)

- 11:50 – 12:20 General Discussion and Questions
12:20 – 13:00 SRHSB Annual General Meeting with box lunch – EPNEC Seminar B
12:20 – 13:00 Box Lunch – EPNEC Lobby

ICCS-SRHSB Retreat– Missouri Botanical Gardens

- 14:00 Buses depart from EPNEC for the Missouri Botanical Gardens for tours & strolls
17:00 Buses depart the Missouri Botanical Gardens to return to hotels

ICCS-SRHSB Conference Dinner – The Bauernhof at Grant’s Farm

- 18:30 Buses depart hotels for Grant’s Farm
19:00 – 20:00 Beer & Wine Reception – The Bauernhof courtyard and grounds at Grant’s Farm
20:00 – 21:00 Dinner and Entertainment – The Todd Hill quintet
22:00 Buses return to hotels

Friday, June 23, 2016

- 08:00 – 18:00 Registration – EPNEC Lobby

ICCS-SRHSB Joint Program - EPNEC Auditorium

- 08:00 – 10:15 **Special Lectures:**
Moderators: David D. Limbrick, MD, PhD and ??? (ICCS officer)
08:00 – 08:45 “Evaluation and Management of Tethered Cord Syndrome in Occult Spinal Dysraphism: Recommendations from the International Children’s Continence Society”, Gerald Tuite, MD; Institute of Brain Protection Science, Division of Pediatric Neurosurgery, Johns Hopkins, All Children’s Hospital, St. Petersburg, FL, USA
08:45 – 09:30 “Fetal In-Utero Repair of Myelomeningocele in The Post-MOMS Trial Era”, Samer Elbabaa, MD; Department of Neurological Surgery, St. Louis University School of Medicine, St. Louis, MO, USA
09:30 – 09:55 General Discussion and Questions
09:55 – 10:25 Break - Exhibitors and Poster Viewing – EPNEC Lobby
10:25 – 11:00 **Panel Session 1: Transitional Care**
Moderator: Gino Vricella, MD
Panelists: Dan Wood, MD, Rosalia Misseri, MD, Gino Vricella, MD
11:00 – 11:45 **Transitional Care Session**
Moderators: Dan Wood, MD and Mario De Gennaro, MD
11:45 – 12:30 **Bladder II Session – Pathogenesis and Evaluation**
Moderators: Israel Franco, MD and Anne Wright, MD
12:30 – 13:30 Lunch – EPNEC Great Room

Friday, June 23, 2016 (continued)

- 13:30 – 14:30 **Neurogenic Bladder Session**
Moderators: Eliane Garcez da Fonseca, MD and Rosalia Misseri, MD
- 14:45 – 15:30 **Special Lecture**
Introduction: ??? ICCS officer
“Implications of the Gut Microbiome” - Jeffrey Gordon, MD, Dr. Robert J. Glaser Distinguished University Professor, Director of the Center for Genome Sciences and Systems Biology, Washington University School of Medicine
- 15:30 – 16:00 Break - Exhibitors and Poster Viewing – EPNEC Lobby
- 16:00 – 17:00 **Bowel Dysfunction (BBD) Session**
Moderators: Charlotte Siggaard Rittig, MD and Anka Nieuwhof-Leppink, MD

SRHSB Program – EPNEC Breakout Rooms 308-310

- 13:30 – 14:30 **Hands-on Demonstration:** “Understanding the Hydrodynamics, Principles, and Performance of Shunts” – Bill Sugleris, Medtronic Neurologic Technologies
- 14:45 – 15:45 **Hands-on Demonstration** (repeat): “Understanding the Hydrodynamics, Principles, and Performance of Shunts” – Bill Sugleris, Medtronic Neurologic Technologies
- 16:00 – 17:00 **SRHSB Spina Bifida & Hydrocephalus Session**
Moderators: Margareta Dahl, MD and Mikkel Rasmussen, MD
- 16:00 S1: Charlotte Rosenkrantz-Bodin et al. The national incidence, detection rate and pregnancy outcome of spina bifida in Denmark 2008-2015
- 16:10 S2: Natalie Sanford et al. Bring it on: promoting self-management through the use of a mobile application during transition in emerging adults with spina bifida and hydrocephalous
- 16:20 S3: Sharon Levy. Using Emotional Touch Points as an innovative method for collecting research data
- 16:30 S4: Elizabeth Kuhn et al. Practice Preferences for Neurosurgical Management in Spina Bifida: a survey of the American Society for Pediatric Neurosurgery- Part III: Neurosurgical Perspective on Transitional Care
- 16:40 S5: Llina Pappa et al. Exome analysis in an Estonian multiplex family with neural tube defects - a case report

Saturday, June 24, 2016

08:00 – 13:00 Registration – EPNEC Lobby

ICCS Program - EPNEC Auditorium

- 08:00 – 08:45 **Panel Session 2: Alternative Therapies for Bladder Dysfunction –**
Moderator: Israel Franco, MD
Panelists: Israel Franco, MD (Botox), Ubirajaro Barroso, Jr, MD (TENS) and Seth Alpert, MD (interstim)
- 08:45 – 09:10 **Special Lecture: “Current Update on the Pharmacology of the Bladder” –** Anne Wright MD, Evelina London Children’s Hospital, St Thomas’ Hospital, London, UK
- 09:10 – 10:00 **Bladder III Session: Treatment**
Moderators: Soren Rittig, MD and Ann Raes, MD
- 10:00 – 10:30 Break - Exhibitors and Poster Viewing – EPNEC Lobby
- 10:30 – 11:30 **Panel Session 3: New Aspects of Enuresis Care and Research**
Moderator: Soren Rittig, MD
Panelists: Soren Rittig, MD – Role of Genetics and Enuresis
Kostas Komparis, MD – Optimization of Desmopressin Response
Ann Raes, MD – Role of Sleep and Enuresis
Tryggve Neveus, MD – Therapeutic Approach in Non-monosymptomatic Enuresis.
- 12:30 – 13:30 Box Lunch – EPNEC Lobby
- 13:30 – 14:45 **Nocturnal Enuresis Session**
Moderators: Kostas Komaris, MD and Tryggve Neveus, MD
- 14:45 – 15:15 Announcement of 2018 ICCS Meeting and Adjournment – EPNEC Auditorium

SRHSB Program – EPNEC Seminar B

- 08:00 – 09:50 **Hydrocephalus 1: Experimental Hydrocephalus**
Moderators: Antonio Jimenez, PhD and Hazel Jones, PhD
- 08:00 H1: Zakia Abdelhamed et al. Defective ependymal motile cilia causes hydrocephalus in a new model of neonatal hydrocephalus, the prh mouse mutant
- 08:10 H2: Yun Yung et al. Blood-derived lysophosphatidic acid signaling alters mitotic spindle orientation and subsequent cell fates of neuroprogenitor cells in post-hemorrhagic hydrocephalus
- 08:20 H3: Leandro Castaneyra Ruiz et al. Ventricular zone disruption in a novel in vitro model of posthemorrhagic hydrocephalus: the role of cell junctions
- 08:30 H4: Leandro Castaneyra Ruiz et al. Role of ventricular zone junctional biology in posthemorrhagic hydrocephalus.
- 08:40 H5: Patricia Paez-Gonzalez et al. Developing new therapies to treat brain ventricular wall damage during hydrocephalus

Saturday, June 24, 2016 (continued)

- 08:50 H6: Pat McAllister et al. Ventricular zone disruption in a new gyrencephalic model of post-hemorrhagic hydrocephalus
- 09:00 H7: Antonio Jimenez et al. NG2 cells in an animal model of congenital hydrocephalus
- 09:10 H8: Agustin Castaneyra-Perdomo et al. Valsartan treatment effects on the choroid plexus in spontaneously hypertensive rats
- 09:20 H9: Shawn Vuong et al. Gene expression profiling analysis of the choroid plexus in a novel mouse model of pediatric hydrocephalus
- 09:30 H10: June Goto et al. Genetic characterization of a new mouse model of pediatric hydrocephalus
- 09:40 H11: Jenna Koschnitzky. Hydrocephalus Association Network for Discovery Science
- 09:50 **Casey Holter Lecture:**
Introduction: Pat McAllister, PhD
“Born with Spina Bifida – a Life to Live”, Sven Mattson, MD, PhD;
Department of Pediatrics at the University Hospital of Linköping, Sweden
- 10:20 – 10:50 Break – EPNEC Lobby
- 10:50 – 11:50 **SRHSB Guthkelch Award Finalist Presentations**
Moderators: Carolyn Harris, PhD and Jack Fletcher, PhD
- 10:50 G1: Joel Haakon Borgstedt-Bakke et al. The incidence and effect of tethered cord release for tethered cord syndrome in myelomeningocele patients - population based study
- 11:05 G2: Katherine Belfield et al - Bacterial attachment to urinary catheters: how does this affect symptom presentation?
- 11:20 G3: Maria Garcia-Bonilla et al. Effect of bone marrow-derived mesenchymal stem cells on congenital hydrocephalus in the hyh mouse
- 11:35 G4: Sulmaz Zahedi - Micro-fabricated arachnoid granulations for treating hydrocephalus
- 11:50 – 12:45 Box Lunch – EPNEC Lobby
- 12:45 – 13:35 **Hydrocephalus 2: Clinical Hydrocephalus & Biomedical Engineering**
Moderators: David Nash, MD and Mark Luciano, MD, PhD
- 12:45 H15: Pei-Yi Lin et al. Novel optical diagnostic for infant hydrocephalus in both the developed and developing world
- 12:55 H16: Brandon Baksh et al. Cerebrospinal fluid parameters alone do not inform infection management in posthemorrhagic hydrocephalus
- 13:05 H17: Ian Pople et al. Multicentre randomised trial of drainage, irrigation and fibrinolytic therapy (drift) for premature infants with posthaemorrhagic ventricular dilatation; neurodisability at school-age
- 13:15 H19: Margareta Dahl et al. Early or precocious puberty in children with shunted pre/perinatal hydrocephalus with and without myelomeningocele

Saturday, June 24, 2016 (continued)

13:25	H20: Sulmaz Zahedi – Heat shrink tubing for secure connection of valve and shunt
13:35 – 13:45	Welcome to the 2018 Annual Meeting
13:45 – 14:00	SRHSB award presentations and closing remarks
14:00	Adjourn
14:30 – 16:00	SRHSB Executive Committee meeting

Posters

P1: Hariharan, Harris. Masking shunts with monolayers of ciliated epithelial cells to impede the foreign body response in the treatment of hydrocephalus.

P2: Smith, Eskandari. Elevated intracranial pressure: modeling pressure-induced cellular injury ex vivo.

P3: McAllister, Rodriguez, Guerra, Castaneyra Ruiz, Jimenez, Dominguez-Pinos, Sival, den Dunnen, Morales, Schmidt, Limbrick. Ventricular zone disruption in human neonates with intraventricular hemorrhage.

P4: Emmert, Nakamura, Shula, Qin, Hu, Mangano. CRISPR/cas9-based development of novel transgenic rat model of x-linked hydrocephalus.

P5: Ashpole. Introducing a realistic operative workstation for educating neurosurgical apprentices, ‘Rowena’.

P6: Inagaki, Schoenwolf. Role of primary cilia in the developing chick.

P7: Blount, Hopson, Rocque. Hydrocephalus based procedures in an adult/transition Spina Bifida Clinic: a 5 year experience

P8: Blount, Safyonov, Kuhn, Rocque, Hopson, Bollo, Hankinson. Practice Preferences for Neurosurgical Management in Spina Bifida: a survey of the American Society for Pediatric Neurosurgery- Part I: Neonatal and Infancy Issues/Challenges.

P9: Blount, Safyonov, Kuhn, Rocque, Hopson, Bollo, Hankinson. Practice Preferences for Neurosurgical Management in Spina Bifida: a survey of the American Society for Pediatric Neurosurgery- Part II: Issues of Childhood through Transition