Final 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, 2017
07:30 – 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, PhD
   10:10 - 10:40 Break - EPNEC Lobby
   10:40 – 11:15 Videourodyamics – Mario De Gennaro, MD
   11:15 – 11:55 Pelvic floor Urotherapy – Anka Nieuwhof-Leppink, RN, PhD
   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, RN, PhD
   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 conditions with bladder dysfunction – Alexander von Gontard, MD
   10:10 - 10:40 Break - EPNEC Lobby
Wednesday, June 21, 2017 (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 7th floor Green 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 or FLTC TBA?
   15:40 – 16:15  Co-morbid conditions 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 10th floor Conference Room A/B
   Director: Hazel Jones, PhD

2.  **Clinical Cases** – BJCIH 8th floor Conference Room A/B
   Co-Directors: Marcus Pauly, MD, Roger Bayston, PhD
   Moderators: Ian Pople, MD and David Nash, MD

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 Nevèus
Thursday, June 22, 2017

07:30 – 13:30 Registration - EPNEC lobby

ICCS-SRHSB Program - EPNEC Auditorium

08:00 – 09:30 Special Symposium Part A: “Transition of Care in Spina Bifida”
Moderators: Paul Austin, MD and Andy Wynd, MBE, MioD
Introduction Kelm Hjälmås Lectureship: Tryggve Nevéus, MD
08:15 – 08:45 Kelm Hjälmås 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 Abstracts Session: Basic Science and Epidemiology
Moderators: Stephen Yang, MD, PhD and Stephen Canon, MD

10:45 – 10:54 44LO Luise Borch Identification of differentially expressed genes in biopsies from neurogenic bladders using RNAseq

10:55 – 11:04 79LO Catharina Wagner Identification of brain structures involved in transcutaneous electrical nerve stimulation (TENS) with functional magnetic resonance imaging (fMRI) – a preliminary report

11:05 – 11:14 51LO Alexander von Gontard Central nervous system processing of emotions in children with daytime urinary incontinence

11:15 – 11:24 73LO Anka Nieuwhof-Leppink Incontinence in children with and without ASD and sensory processing problems
Thursday, June 22, 2017 (continued)

11:25 – 11:34  87LO Claire Foster  Comparison of the characteristics of Dysfunctional and Underactive voiders in a Biofeedback clinic.

11:35 – 11:44  52LO Alexander von Gontard  Incontinence and headache in preschool children – a population-based study

11:45 – 11:51  103SO Jose Murillo Netto  Prolonged toilet training in children with down syndrome: A case-control study

11:52 – 11:59  49LO Emily Rice  Achievement of continence and associated factors – results from a population-based survey in Germany (KiGGS)

12:00 – 12:06  50SO Justine Niemczyk  Incontinence in children with Fetal Alcohol Spectrum Disorders (FASD): a South African cohort

12:07 – 12:13  68SO Justine Niemczyk  Incontinence problems in persons aged 4 to 9 years with Fetal Alcohol Spectrum Disorders (FASD): a Polish study

12:14 – 12:23  100SO Anne Wright  Bladder dysfunction in Children and Young people with Ehlers Danlos syndrome

90Poster Gabriela Hellman Dircksen  Prevalence of lower urinary tract symptoms in children between the ages of 6-12 from Brazilian public primary schools

12:30 – 13:00  ICCS General Assembly Meeting with box lunch – EPNEC Auditorium

SRHSB Program – EPNEC Seminar B

10:00 – 11:00  Special Symposium Part B: “Transition of Care in Hydrocephalus”
   Moderators: Jack Walker, MD and Pat McAllister, PhD
   “A Patient’s View of Transition of Care”, Olivia Maccoux, Hydrocephalus Association and Augsburg College, Minneapolis, MN, USA
   “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
   “Neurosurgical Comparisons between Children and Adults with Hydrocephalus”, Mark Luciano, MD, PhD; Johns Hopkins Hospital, Baltimore, USA
11:40 – 12:00  General Discussion and Questions
12:20 – 13:00  SRHSB Annual General Meeting with box lunch – EPNEC Seminar B

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, 2017
07:30 – 18:00  Registration – EPNEC Lobby

ICCS-SRHSB Joint Program - EPNEC Auditorium

08:00 – 09:55  Special Lectures:
Moderators: David D. Limbrick, MD, PhD and Mario De Gennaro, MD
Introduction of ICCS OSD Document Lecturer: Stephen Yang, MD, PhD
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

10:25 – 11:00  Panel Session 1: Transitional Care
Moderator: Gino Vricella, MD
Panelists: Dan Wood, MD, Rosalia Misseri, MD, Gino Vricella, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presentation Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Transitional Care Abstracts</td>
<td>Are the women with spina bifida satisfied with their sexual activity?</td>
<td>Eun Kyoung Choi</td>
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<td>11:09</td>
<td>Session</td>
<td>The Transition Readiness Assessment Questionnaire stratifies patients into clinical risk categories</td>
<td>John Weaver</td>
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<td>11:15</td>
<td>Urological risks of spinal cord tethering in adolescence- the importance of transitional care</td>
<td>Zdenek Dite</td>
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<td>11:21</td>
<td>Constipated adolescents at higher risk for having daytime urinary incontinence: a community-based study</td>
<td>Shang-jen Chang</td>
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<td>11:45</td>
<td>Bladder II Abstracts</td>
<td>A portable uroflowmetry device named P-Flowdiary® combined with frequency volume charts is useful in clarifying lower urinary tract symptoms in children.</td>
<td>Kazuyoshi Johnin</td>
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<td>11:54</td>
<td>Lower urinary tract dysfunction with vesicoureteral reflux is a more significant risk factor predicting recurrent UTI in infants</td>
<td>Chia Cheng Su</td>
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<td>12:03</td>
<td>A new phenomenon in the pathophysioloogy of lower urinary tract dysfunction in children: Pelvic floor dysfunction</td>
<td>Hasan Cem</td>
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<td>12:09</td>
<td>School performance and executive functions assessment in children and adolescents with Lower Urinary Tract Dysfunction and Attention Deficit Hyperactivity Disorder symptoms</td>
<td>Monica Vasconcelos</td>
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<td>12:15</td>
<td>Relation between Lower urinary symptoms and stress in children and adolescents</td>
<td>Ubirajara Barroso</td>
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<td>12:21</td>
<td>Bell and Tower Uroflowmetry Curves May Be Regarded As One Category in Healthy Adolescents</td>
<td>Shang-jen Chang</td>
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<td>12:27</td>
<td>Pelvic floor muscle activity in children with giggle incontinence</td>
<td>Hasan Cem</td>
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Friday, June 23, 2017 (continued)

12:30 – 13:30  Lunch – EPNEC Great Room

13:30 – 14:30  Neurogenic Bladder Abstracts Session
Moderators: Eliane Garcez da Fonseca, MD and Rosalia Misseri, MD


13:36 – 13:42  16SO Israel Franco Does bladder work correlate with shear wave velocity?

13:42 – 13:48  63SO John Weaver Utilization of urodynamics to predict the need for augmentation with bladder neck reconstruction

13:48 – 13:54  83SO Abby Taylor Urodynamic predictors of improvement in bladder function following pediatric tethered cord release

13:54 – 14:00  93SO Israel Franco Can a new quantitate method of measuring urodynamic work identify differences between submucosal intratrigonal vs. intramuscular trigonal sparing Botulinum Toxin A injections?

14:00 – 14:06  21SO Agata Korzeniecka-Kozerska Retinol Binding Protein and cystatin C as renal function markers in children with neurogenic bladder after meningomyelocele.

14:06 – 14:12  76SO Nibedita Gupta Efficacy and safety of solifenacin oral suspension in pediatric patients with neurogenic detrusor overactivity

14:12 – 14:18  75SO Nibedita Gupta Development of an age-appropriate treatment with mirabegron tablets or suspension in children with neurogenic detrusor overactivity or overactive bladder

14:18 – 14:24  48SO Emily Rice Efficacy and safety of transdermal oxybutynin versus oral oxybutynin in management of paediatric neurogenic bladder

Friday, June 23, 2017 (continued)

95Poster **Ubirajara Barroso** Spina bifida in children and adolescents with overactive bladder. Prevalence and treatment with parassacral TENS

32Poster **Herman Azanmasso** Neuro-urolologic monitoring of spina bifida

14:45 – 15:30 **Special Lecture**
Introduction: Paul Austin, MD
“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) Abstracts Session**
Moderators: Charlotte Siggaard Rittig, MD and Anka Nieuwhof-Leppink, RN, PhD

16:00 – 16:10 105 **Shang-jen Chang** Diagnosis and Management of Bladder Bowel Dysfunction in Children with Urinary Tract Infections: A Position Document from the International Children’s Continence Society

16:10 – 16:19 77LO **Shina Kawai** The criteria of bowel dysfunction in BBD is different from the Rome criteria


16:25 – 16:34 30LO **Joana Dos Santos** The pediatric bladder and bowel dysfunction network: an innovative initiative to improve the management of bladder and bowel dysfunction in children

16:34 – 16:40 65SO **Hirokazu Ikeda** Efficacy of lactulose plus stimulant laxatives in the first line treatment for children with bladder and bowel dysfunction.

16:40 – 16:46 25SO **Saskia Vande Velde** Two different colon enema systems are studied in children in a patient-control cross-over manner, preliminary results
Friday, June 23, 2017 (continued)


16:52 – 17:00  43SO Natalie Sikes Analysis of Biofeedback on Non-Neurogenic Bladder and Bowel Dysfunction with a History of Tethered Cord Syndrome

26Poster Saskia Vande Velde Hypertension and colon enemas, is there a link? A case report

SRHSB Program – EPNEC Breakout Rooms 308-310


16:00 – 17:00 SRHSB Spina Bifida & Hydrocephalus Session

Moderators: Margareta Dahl, MD and Mikkel Rasmussen, MD

16:00  SB1: Charlotte Rosenkrantz-Bodin et al. The national incidence, detection rate and pregnancy outcome of spina bifida in Denmark 2008-2015

16:10  SB2: 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 hydrocephalus

16:20  SB3: 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  SB5: Llina Pappa et al. Exome analysis in an Estonian multiplex family with neural tube defects - a case report
Saturday, June 24, 2017

07:30 – 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 Abstracts Session: Treatment**
Moderators: Søren Rittig, MD, PhD and Ann Raes, MD

9:10 – 9:16  88SO Luitzen Groen  Two stitch colposuspension in girls with severe therapy resistant incontinence: 25 Years Experience


9:31 – 9:37  67SO Maria Luisa Capitanucci  Is external pubo-coccygeus test (PC test) in girls feasible and useful for pelvic-floor rehabilitation?

9:37 – 9:46  56LO Luis Borch  Combining Transcutaneous Electrical Nerve Stimulation (TENS) with oxybutynin is superior to monotherapy in children with urge incontinence – a randomized, placebo-controlled study

9:46 – 9:52  92SO Ubirajara Barroso  Parasacral TENS 2 vs. 3 times a week for overactive bladder in children: A randomized clinical trial

9:52 – 9:58  91SO Ubirajara Barroso  Percutaneous parasacral neuromodulation for overactive bladder in children – A pilot study

104Poster Rita Pereira  Physiotherapy techniques in Treatment of Nocturnal Enuresis and Other Voiding Dysfunctions: a Systematic Review

9Poster MiChelle McGarry  Retinol Binding Protein and cystatin C as renal function markers in children with neurogenic bladder after meningo(myelo)cele.
Saturday, June 24, 2017 (continued)

10:00 – 10:30 Break - Exhibitors and Poster Viewing – EPNEC Lobby

10:30 – 11:50 Panel Session 3: New Aspects of Enuresis Care and Research
Moderator: Søren Rittig, MD, PhD
Panelists: Søren Rittig, MD, PhD – Role of Genetics and Enuresis
Konstatinos Komparis, MD – Optimization of Desmopressin Response
Ann Raes, MD – Role of Sleep and Enuresis
Tryggve Nevéus, MD – Therapeutic Approach in Non-monomysptomatic Enuresis.

11:50 – 12:45 Lunch – EPNEC Great Room

12:45 – 14:00 Nocturnal Enuresis Abstracts Session
Moderators: Konstatinos Komaris, MD and Tryggve Nevéus, MD

12:45 – 12:51 36SO Hasan Irkilata Pelvic floor muscle activity and pelvic floor rehabilitation in resistant enuresis nocturna

12:51 – 13:00 33LO Catharina Wagner Anxiety in children with incontinence and their parents before and after treatment

13:00 – 13:09 98LO Kathleen Kieran First Impressions matter: Opportunities to enhance the quality of internet searches about bedwetting

13:09 – 13:15 10SO Ingrid Jonson Ring Health related quality of life in children with Nocturnal Enuresis – using a Swedish version of the Paediatric Incontinence Questionnaire


13:45 – 13:51 78SO Charlotte Van Herzeele Enuresis from scientific angle to simple messaging for treating physicians in primary care
Saturday, June 24, 2017 (continued)


34Poster Rita Pereira Development of a home-based task-oriented program for parents and children with voiding dysfunction and nocturnal enuresis.

14:00 – 14:05 Announcement of 2018 ICCS Meeting and Adjournment – EPNEC Auditorium

SRHSB Program – EPNEC Seminar B

08:00 – 09:50 Hydrocephalus 1: Experimental Hydrocephalus
Moderators: Carolyn Harris, PhD and Hazel Jones, PhD

08:00 H1: June Goto et al. Genetic characterization of a new mouse model of pediatric hydrocephalus
08:10 H2: Zakia Abidhamed et al. Defective ependymal motile cilia causes hydrocephalus in a new model of neonatal hydrocephalus, the prh mouse mutant
08:20 H3: Shawn Vuong et al. Gene expression profiling analysis of the choroid plexus in a novel mouse model of pediatric hydrocephalus
08:30 H4: Agustin Castaneyra-Perdomo et al. Valsartan treatment effects on the choroid plexus in spontaneously hypertensive rats
08:40 H5: Yun Yung et al. Blood-derived lysophosphatidic acid signaling alters mitotic spindle orientation and subsequent cell fates of neuroprogenitor cells in post-hemorrhagic hydrocephalus
08:50 H6: Pat McAllister et al. Ventricular zone disruption in a new gyrencephalic model of post-hemorrhagic hydrocephalus
09:00 H7: Leandro Castaneyra Ruiz et al. Ventricular zone disruption in a novel in vitro model of posthemorrhagic hydrocephalus: the role of cell junctions
09:10 H8: Leandro Castaneyra Ruiz et al. Role of ventricular zone junctional biology in posthemorrhagic hydrocephalus.
09:20 H9: Patricia Paez-Gonzalez et al. Developing new therapies to treat brain ventricular wall damage during hydrocephalus
09:00 H10: Antonio Jimenez et al. NG2 cells in an animal model of congenital hydrocephalus
09:40 H11: Jenna Koschnitzky. Hydrocephalus Association Network for Discovery Science
Saturday, June 24, 2017 (continued)

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**
       Introduction: Carolyn Harris, PhD
       Moderators: Ian Pople, MD and Michael Williams, MD

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  Lunch – EPNEC Great Room

12:45 – 13:35  **Hydrocephalus 2: Clinical Hydrocephalus & Biomedical Engineering**
       Moderators: Antonio Jimenez, PhD, David Nash, MD and Mark Luciano, MD, PhD

12:45  H12: **Pei-Yi Lin** et al. Novel optical diagnostic for infant hydrocephalus in both the developed and developing world

12:55  H13: **Brandon Baksh** et al. Cerebrospinal fluid parameters alone do not inform infection management in posthemorrhagic hydrocephalus

13:05  H14: **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  H15: **Margareta Dahl** et al. Early or precocious puberty in children with shunted pre/perinatal hydrocephalus with and without myelomeningocele

13:25  H16: **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
Thursday, June 22, 2017 through Saturday June 24, 2017: SRHSB Posters

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


P5: Takayuki Inagaki & Gary Schoenwolf. Role of primary cilia in the developing chick.
