



Cognitive, behavioural and educational outcomes in children aged 5-11 years with Spina Bifida in Northern Ireland

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Saturday, June 29, 2019

- 09:00 - 11:20 **Session 7: Innovative Device Technology, Investigative Platforms and the Evolving Regulatory Landscape**
- 09:00 - 09:20 **Dr. John Pickard** "arriers to innovation in the care of patients with CSF disorders" (moderate session)
- 09:20 - 09:40 **Dr. Marcelo Galarza** "Bench testing: mathematical modeling of shunt designs; clinical results of the parametric catheters"
- 09:40 - 10:00 **Dr. Pat McAllister** "In vivo testing of surgical and diagnostic devices for hydrocephalus"
- 10:00 - 10:20 **Dr. David D. Limbrick** "Patient Registries - HCRN, Park-Reeves, etc."
- 10:20 - 10:40 **Dr. Roger Bayston** "Regulatory issues for approval of combination devices for shunts and EVD"
- 10:40 - 11:00 **Anuncia** "Non-invasive Ventricular Shunt Occlusion Intervention; a New Option in Hydrocephalus Management.
- 11:00 - 11:20 **Open Discussion**
- 11:20 - 11:35 **Break**
- 11:35 - 12:10 **SRHSB award presentations and closing remarks**



Acción Exterior



63RD ANNUAL MEETING OF THE **SRHSB** Society for research into Hydrocephalus and Spina Bifida

The 63st Annual Meeting of our Society will continue our traditional focus and personable approach (<http://srhsb.com>). The program will focus mainly on research in hydrocephalus, neural tube defects, and spina bifida, with the days and times designated for each topic contingent upon the abstracts submitted. We will provide leisure time to visit Tenerife Island and enjoy its rich gastronomy, and we are planning special sessions on brain development, transitional care for patients with hydrocephalus and spina bifida and new innovative technology for patients' treatment. Historically, the Canary Islands have been a meeting point between Europe, Africa, and America; therefore, we believe that Tenerife is the perfect location to bring together international knowledge about hydrocephalus and spina bifida.

Hosts at La Laguna University:

Dr. Agustin Castaneyra-Perdomo, MD, PhD - Dean of the Faculty of Health Sciences, University of La Laguna
Dr. Leandro Castaneyra-Ruiz, PhD - Postdoctoral Research Associate at Washington University in St. Louis, USA, and member of the board of the SRSHB

Members of the local organizing committee at La Laguna University:

- Emilia M. Carmona-Calero, MD, PhD - Neuroanatomist, full professor in Anatomy and embryology at La Laguna University
- Ibrahim Gonzalez-Marrero, PhD - Neuroanatomist, assistant professor in Anatomy and embryology at La Laguna University.
- Luis G. Hernandez-Abad, MS - PhD student at La Laguna University.
- Victor Garcia-Marin MD, PhD - Professor of Neurosurgery and Chief of the surgery department at Canary University Hospital
- Liberto Brage-Martin, MD - Neurosurgeon at Canary University Hospital
- Maria Dolores Mejias - Secretary of the Alumni Foundation of ULL

63RD ANNUAL MEETING OF THE **SRHSB**

Society for Research into Hydrocephalus and Spina Bifida

June 26-29
2019

Faculty of Health Sciences,
University of La Laguna
La Laguna, Canarias,
Spain

 **Universidad de La Laguna**



Detailed program

Wednesday, June 26, 2019

- 12:00 - 17:00** Registration
- 13:00 - 17:00** Pre-meetings on Experimental Hydrocephalus and Clinical Cases (Dr. Hazel Jones and Prof Roger Bayston)
- 18:00 - 19:00** La Laguna guided tour
- 19:00 - 21:00** Welcome Reception

*All the participants who want to assist to the pre-meeting will be picked up in "Plaza del Adelantado" in front of the "Hotel Nivaria" at 11:30. Check Link below.

<https://www.google.com/maps/place/Hotel+Laguna+Nivaria/@28.4872796,-16.3133406,19z/data=!4m5!3m4!1s0xc41cbb84e862081:0xf3253bbfd0f457418m2!3d28.4871075!4d-16.3132829>

Pre-meetings on Experimental Hydrocephalus will be hold in the Aula 1 (A1), chaired by Hazel Jones and Pre-meetings on Clinical Cases will be hold in the Aula 2 (A2), chaired by Prof Roger Bayston.

Thursday, June 27, 2019

- 08:00 - 13:30** Registration
- 08:45 - 09:00** Opening Remarks: Dr. Agustin Castaneyra-Perdomo and Dr. Leandro Castaneyra-Ruiz
- 09:00 - 10:20** **Symposium: Origins of Hydrocephalus and Its Outcomes in the Present.**
- 09:00 - 09:40 **Dr. Victor Garcia, PhD, MD** "Hydrocephalus; From Hippocrates to Dandy and to present. Is the future clear?"
- 09:40 - 10:20 **Dr. David D. Limbrick, Jr., PhD, MD** "Current Treatments for Hydrocephalus"
- 10:20 - 10:35** Break
- 10:35 - 12:05** **Session 1: Clinical Aspects of Hydrocephalus**
- 10:35 - 10:50 **Dr. Liberto Brage-Martin** "Current state of neuroendoscopy for the treatment of hydrocephalus"
- 10:50 - 11:05 **Dr. Ajay Choudhary** "Management of hydrocephalus due to tuberculous meningitis: controversies and evolving consensus"
- 11:05 - 11:20 **Dra. Rocio Fernandez-Mendez** "Epidemiology of cerebrospinal fluid shunt surgery in the UK and Ireland"
- 11:20 - 11:35 **Dr. Afroditi Lalou** "Global cerebral autoregulation, resistance to CSF outflow and cerebrovascular burden in Normal Pressure Hydrocephalus"
- 11:35 - 11:50 **Dra. Zofia Czosnyka** "Principles of testing hydrocephalus shunts in vivo using infusion test"
- 11:50 - 12:05 **Dra. Pat McAllister** "Correlations between brain stiffness, headaches and ventricular size using magnetic resonance elastography in children with hydrocephalus"
- 12:05 - 12:35** Society Photograph
- 12:35 - 14:00** Lunch and SRHSB Annual General Meeting
- 15:00 - 21:00** SRHSB Retreat with dinner (Trip to volcano Teide)

Friday, June 28, 2019

- 08:00 - 18:00** Registration
- 08:00 - 08:45** **Special Lecture: Transitional Care and Social Integration**
Dr. Ampar Cuxart Fina, PhD, MD "Spina bifida beyond childhood"
- 08:45 - 10:15** **Session 2: Spina Bifida a Life Style**
- 08:45 - 09:00 **Dr. Kirstein Verity** "Psychology Adding Value Through Partnership (PAVTP): Hydrocephalus screening - a mental health screening and intervention pathway for children and young people with hydrocephalus (CYPwH)"
- 09:00 - 09:15 **Dr. Trudi Edginton** "The impact of ageing on neurocognitive and emotional processing in hydrocephalus"
- 09:15 - 09:30 **Dr. Indre Bakaniene** "Functional aspects of spina bifida in childhood: a cross-sectional analysis of a nationally represented sample"
- 09:30 - 09:45 **Dr. Rahul Deo Sharma** "Quality of life (QOL) in children with spina bifida (SB) in South East Asia need not to be gloomy -as generally believed: a short report"
- 09:45 - 10:00 **Dr. Yogesh Parajuli** "cognitive, behavioural and educational outcomes in children aged 5-11 years with spina bifida in northern Ireland"
- 10:00 - 10:15 **Dr. Sven Mattsson** "What do adults with Myelomeningocele tell?"
- 10:15 - 10:30** Break
- 10:30 - 11:30** **Session 3 "Basic aspects of hydrocephalus and spina bifida"**
- 10:30 - 10:45 **Dr. Pat McAllister** "Ventriculoperitoneal shunting and endoscopic third ventriculostomy with choroid plexus cauterization in a piglet model of infantile communicating hydrocephalus"
- 10:45 - 11:00 **Dr. Jaleel Miyan** "The H-Tx rat has heritable methylation error affecting all tissues including the germline which underlies the congenital hydrocephalus of its offspring and is corrected by folate supplementation"
- 11:00 - 11:15 **Dr. Emilia M. Carmona-Calero** "IV ventricle choroid plexus study in several cases of hydrocephalus human fetuses"
- 11:15 - 11:30 **Dr. Luis Hernandez Abad** "Role of AQP4 in brain barriers and functional interfaces during systemic hypertension and ventriculomegaly"
- 11:30 - 11:45** **Dr. Kristopher T. Kahle** "Exome sequencing establishes dysregulation of neural progenitor cell fate as a critical mechanism in human congenita hydrocephalus"
- 11:45 - 13:00** Lunch
- 13:00 - 14:30** **Special Symposium: Physiopathology in Hydrocephalus and Brain Development**
- 13:00 - 13:45 **Dr. Esteban Rodriguez PhD. MD.** "Ventricular zone disruption as trigger of congenital hydrocephalus, and neural stem cell grafting as a hope"
- 13:45 - 14:30 **Dr. Gundela Meyer PhD. MD.** "How does the choroid plexus influence the development of the human cerebral cortex"

- 14:30 - 15:45** **Session 4: Hydrocephalus; a cytological disease**
- 14:30 - 14:45 **Dr. Funmilayo Olopade** "The progression of kaolin-induced hydrocephalus: light and electron microscopic features in rats"
- 14:45 - 15:00 **Dr. Maria Garcia-Bonilla** "Long-time effects of an experimental therapy with mesenchymal stem cells in congenital hydrocephalus"
- 15:00 - 15:15 **Dr. Omowumi Femi-Akinlosotu** "Temporal changes in the brain In neonatal hydrocephalic mice: structural and neurobehavioral findings"
- 15:15 - 15:30 **Dr. Monserrat Guerra** "Grafting of subcommissural organ cells improves neurological deficits in the hydrocephalic brain"
- 15:30 - 15:45 **Dr. Patricia Paez Gonzalez** "iPSC differentiation into ependymal progenitors to treat ventricular damage during hydrocephalus"

15:45 - 16:00 Break

- 16:00 - 17:15** **Session 5: Hydrocephalus as an Inflammatory Disease**
- 16:00 - 16:15 **Dr. Betsadia Ojeda-Perez** "Neuropathological events in an animal model resembling human fetal post-hemorrhagic hydrocephalus"
- 16:15 - 16:30 **Dr. Leandro Castaneyra-Ruiz** "Post-infectious and post-hemorrhagic hydrocephalus may have a common pathway that triggers ventricular zone disruption"
- 16:30 - 16:45 **Dr. Kristopher T. Kahle** "A role for inflammation: TLR-4-mediated cerebrospinal fluid hypersecretion in post-hemorrhagic and post-infectious hydrocephalus"
- 16:45 - 17:00 **Dr. Funmilayo Olopade** "Persistent ventriculomegaly in hydrocephalic rat brains: neuroinflammatory response"
- 17:00 - 17:15 **Dr. Albert Isaacs** "Quantification and differentiation of periventricular white matter injury in post-hemorrhagic hydrocephalus using diffusion basis spectrum imaging"
- 17:15 - 18:15** **Session 6: Spina Bifida: Clinical Aspects**
- 17:15 - 17:30 **Dr. Rahul Deo Sharma** "Urinary incontinence is a major factor in determining the quality of life in spina bifida patients"
- 17:30 - 17:45 **Dr. Rahul Deo Sharma** "Factors affecting outcomes of bladder augmentation surgery in spina bifida patients"
- 17:45 - 18:00 **Dr. Takayuki Inagaki** "Management of feet skin breakdown in spinal lipoma patient"
- 18:00 - 18:15 **Dr. Shazia Yasmin** "A sociological study of mothers' knowledge towards hydrocephalus and spina bifida in The Children Hospital, Lahore, Pakistan"
- 19:30 - 11:30** **Conference Banquet**