

ACTIVITY TITLE: Sidra's Second Pediatric Neuroscience Conference – A Focus on Treatable Neurological Disorders

Date: Thursday September 29th – October 1st, 2022

Venue: Virtual

Facilitators: Dr Ian Pople, Dr Husam Kayyali, Dr Ruba Benini,

Target audience: Physicians, Nurses, Allied Health Professionals

OVERALL LEARNING OBJECTIVES:

- Describe recent advances in the medical management of treatable neurological disorders in children.
- Describe recent advances in the surgical management of treatable neurosurgical disorders in children including hydrocephalus and spina bifida.
- Discuss the role of personalized medicine in neurological disorders in children.

Program Overview

Thursday September 29 th , 2022 (Day 1)			
Time	Topic	Speaker	Learning Objectives
Session 1: Hydrocephalus – Scientific Abstract Presentations of the Society for Research into Hydrocephalus and Spina Bifida (SRHSB) Session Chairs: Dr Ian Pople, Neurosurgeon, Honorary Treasurer SRHSB			
12:45 -1:00	Welcoming Remarks <i>(Dr Ian Pople, Qatar)</i>		
Hydrocephalus - Basic Science			
1:00-1:15pm	A combination of ependyma progenitors and mesenchymal stem cells reduces oedema associated with posthemorrhagic hydrocephalus	<i>Dr Luis Manuel Rodriguez-Perez, Spain</i>	
1:15-1:30pm	A sequential cell therapy to recover the ependymal cells in posthemorrhagic hydrocephalus.	<i>Javier Lopez-de San Sebastian, Spain</i>	
1:30-1:45pm	Obstruction as it correlates to etiology, length of implantation time, and revision rate	<i>Dr Carolyn Harris, USA</i>	
1:45-2:00pm	Testing and validation of reciprocating positive displacement pump for benchtop pulsating flow model of cerebrospinal fluid production in hydrocephalic patients	<i>Ahmad Faryami, USA</i>	
Hydrocephalus/Spina Bifida – Clinical Research			

2:00-2:15pm	How our hydro-warrior inspired us to help other families touched by hydrocephalus: the story behind Harry's HAT charity.	Mrs Caroline Coates, UK	
2:15-2:30pm	Experiences of paediatric hydrocephalus patients and their families during a suspected shunt failure: findings and recommendations from the U.K.	Mrs Non Hill, UK	
2:45-3:00pm	Impact of BASICS trial on ventriculoperitoneal shunt surgery practice: a UK Shunt Registry based study	Dr Rocio Fernandez-Mendez, UK	
3:00-3:15pm	Break		
3:15-3:30pm	Epidemiology of post-traumatic hydrocephalus—a registry-based study	Mr Thanasis Paschalis, UK	
3:30-3:45pm	Social and cultural factors associated with knowledge and use of folic acid in combination with other vitamins by mothers of hydrocephalus and spina bifida affected babies.	Dr Shazia Yasmin, UK	
3:45-4:00pm	Cranial reduction surgery experience in Sidra hospital	Dr Wesam Khalafallah, Qatar	
4:00-4:15pm	Overview of urinary incontinence management in Spina Bifida: State of the Art	Dr Sushma Achugatla, India	
4:15-4:30pm	Comparative effects of ventriculoperitoneal shunt and endoscopic third ventriculostomy with choroid plexus cauterization in a pig model of hydrocephalus	Dr Maria Garcia Bonilla, USA	
4:30-4:45pm	Quantitative Analysis of Flow and Pressure Changes Through Explanted Biobank Ventricular Catheters	Ahmad Faryami, USA	
4.45-5:00pm	First experiences with Miethke M.blue® valve in iNPH patients	Dr Petr Skalický, Czech Republic	

5:00-5:30pm	Rapid Fire Poster Presentations	<ul style="list-style-type: none"> • <i>Mr Frank Kaphesi, Malawi</i> • <i>Dr Naila Naz, UK</i> • <i>Dr Eric Schmidt, France</i> • <i>Dr Lisa Healy, UK</i> • <i>Ms Sneha Sawant, India</i> 	
5:30-6:05pm	Waite Student Research Presentations Harry's Hat Charity Student bursary	<ul style="list-style-type: none"> • <i>Nazrin Talibova</i> • <i>Lydia Blacklock</i> • <i>Setthasorn OOi</i> • <i>Jeremy George</i> • <i>Ahmad Faryami</i> • <i>Javier Lopez-deSan Sebastian</i> • <i>Elizabeth Walsh (Harry's Hat)</i> 	
6:05-6:30pm	Expert Panel Discussion		

Friday September 30th, 2022 (Day 2)

Time	Topic	Speaker	Learning Objectives
Session 2: Hydrocephalus & Spina Bifida Session Chairs: TBD			
1:00-1:05pm	Welcoming Remarks	<i>Dr Husam Kayyali, Division Chief, Neurology</i> <i>Dr Ian Pople, Division Chief, Neurosurgery</i>	
1:05-1:45pm	Historical principles leading to modern approaches to infection in CSF drainage <i>SRHSB Casey Holter Lecture</i>	<i>Dr Roger Bayston, UK</i>	
1:45-2:15pm	Recent advances in the understanding of pediatric hydrocephalus	<i>Dr Martina Messing-Jünger, Germany</i>	
2:15-2:45pm	The critical role of cerebrospinal fluid in development and function of the brain - can we treat hydrocephalus in utero without surgery?	<i>Dr Jaleel Miyan, UK</i>	
2:45-3:15pm	Prenatal diagnosis and in utero repair of meningomyelocele and myeloschisis	<i>Dr Luc De Catte, Belgium</i>	

3:15-3:45pm	Spina Bifida – Update on neurosurgical management	<i>Dr Khalid AlKharazi, Qatar</i>	
3:45-4:15pm	Multidisciplinary Approach to Spina Bifida – Qatari Experience	<i>Dr Bajes Yacoub/ Dr Santiago Vallasciani, Qatar</i>	
4:15-4:45pm	Role of Deep Brain Stimulation in treating pediatric neurological disorders	<i>Dr Will Singleton, UK</i>	
4:45-5:00pm	End of Session Closing Remarks		
Saturday October 1st, 2022 (Day 3)			
Session 3: Neurometabolic Disorders – Not to miss			
Session Chairs: TBD			
8:00-8:10am	Housekeeping issues		
8:10-8:40am	Overview of treatable neurometabolic disorders	<i>Dr Tawfeg Ben Omran, Qatar</i>	
8:40-9:10am	Updates on treatment of lysosomal storage disease ^{*Virtual}	<i>Dr Walla Al Hertani, USA</i>	
9:10-9:40am	Leukodystrophies – Updates on Treatment	<i>Dr Francesca Fumagalli, Italy</i>	

Session 4: Neuromuscular disorders

Session Chairs: TBD

10-10:30am	Duchenne Muscular Dystrophy – Updates on treatment	<i>Dr Mahmoud Fawzi, Qatar</i>	
10:30-11:00am	Congenital Myasthenic Syndromes – Update on Management and Outcomes	<i>Dr Abdelaziz Alsaman, KSA</i>	
11:00-11:30am	Spinal Muscular Atrophy and New disease modifiers	<i>Dr Khalid Ibrahim, Qatar</i>	
<h2>Session 5: Epilepsy</h2> <p>Session Chairs: TBD</p>			
12:00-12:30pm	Treatable epileptic encephalopathies	<i>Dr Ruba Benini, Qatar</i>	
12:30-1pm	Latest surgical technologies for treating pediatric epilepsy	<i>Dr Michael Carter, UK</i>	
1:00-1:30pm	Pediatric Epilepsy Surgery in Qatar – The Sidra Experience	<i>Dr Ian Pople, Qatar</i> <i>Dr Husam Kayyali, Qatar</i>	

Session 6: Precision Medicine in Neurological disorders Session Chairs: TBD			
1:30-2:00pm	Updates on Disease Modifying Agents in Pediatric Demyelinating Disorders	<i>Dr Cheryl Hemingway, UK</i>	
2:00-2:30pm	Towards Personalized Medicine in Autism	<i>Dr Khalid Fakhro, Qatar</i>	
2:30-3:00pm	Precision Medicine – Epilepsy or other Neurological disorders	To be determined ? Henry Houlden	
3:00-3:05pm	Closing Remarks		