

Challenges in Pediatric Hydrocephalus

Date	Monday October 5, 2026
Time	09:00 – 16:00
Venue	Children's Cancer Hospital Egypt 57357

Learning Objectives

Upon completion of this activity, participants should be able to:

- Explore the wide range of pathologies contributing to pediatric hydrocephalus.
- Learn the main surgical techniques to treat different types of hydrocephalus.
- Understand the technical nuances between shunt implants and endoscopic approaches.
- Learn to the relevant technological advances in the field.

Course Director

- **Ulrich-W. Thomale**
Charité – University Medicine Berlin
Berlin, Germany

Course Faculty

(alphabetically arranged)

Ahmed Zaher

Mansoura University Hospitals
Mansoura, Egypt

Benedetta Pettorini

Alder Hey NHS Foundation Trust
Liverpool, England

Khalid Al-Kharazi

Sidra Medicine
Al-Rayyan, Qatar

Llewellyn Padayachy

Pretoria University Hospitals
Pretoria, South Africa

Ramiro del Rio

National Pediatric Hospital Juan P. Garrahan
Buenos Aires, Argentina

Sandi Lam

Lurie Children's Hospital
Chicago, IL, USA

Volkan Etus

Kocaeli University Hospitals
İzmit, Turkey

Course Program

08:00 09:00 Registration

09:00 12:20 **Session 1 – Presentations and Discussions**

09:00	09:20	Pathophysiology of Hydrocephalus	U. Thomale
09:20	09:40	Posthemorrhagic Hydrocephalus	V. Etus
09:40	10:00	Hydrocephalus in Spina Bifida & Other Congenital Conditions	K. Al-Kharazi
10:00	10:20	Preventing and Treatment of Infections	A. Zaher
10:20	10:40	Indications and Technique for CPC in Pediatric Hydrocephalus	S. Lam
10:40	11:00	Shunt Treatments – Are All Shunts the Same?	B. Pettorini

11:00 11:20 **Coffee Break**

11:20	11:40	Neuroendoscopy to avoid or to support a shunt? - an essential tool	R. del Rio
11:40	12:00	Long-term Follow up in Hydrocephalus Patients	L. Padayachi
12:00	12:20	Discussion	

12:20 13:00 **Lunch Break**

13:00 16:00 **Session 2 – Hands-on Workshop**

Enhancing Ventricular Catheter Placement	Station I
How do valves work? - Mechanics and Physics	Station II
ICP Detection from a Shunt-implant – Telemetric Measurements	Station III
Neuroendoscopy – Fenestrations, Stenting & Biopsies	Station IV
Neuroendoscopy – Lavage for Ventriculitis & Intraventricular hemorrhage	Station V
Neuroendoscopy – Choroid Plexus Coagulation	Station VI
Neuroendoscopy – Flexible Endoscopy	Station VII