

Program



Hydrocephalus2021

Virtual | 10-13 September 2021

The Thirteenth Meeting of the Hydrocephalus Society



Hydrocephalus Society

International Society for Hydrocephalus
and Cerebrospinal Fluid Disorders

Program Overview

Friday, 10 September 2021 CEST 15:00 - 21:20

Main Hall		Parallel Hall	
15:00 - 16:00	Opening of the Congress & Hakim Lecture		
16:00 - 16:10	Break		
16:10 - 17:20	Young Investigators Awards Oral Presentations		
17:20 - 17:50	Industry Sponsored Seminar		
17:50 - 19:00	Experimental Hydrocephalus Invited Lecture & Oral Presentations	17:50 - 19:00	Technical Advances in Treatment and Diagnostics Oral Presentations
19:00 - 19:10	Break		
19:10 - 20:10	Hydrocephalus Society S & EANS Joint Session - Chiari Round Table	19:30 - 20:10	Technical Advances in Treatment and Diagnostics Oral Presentations
20:10 - 20:20	Break		
20:20 - 21:20	Adult Hydrocephalus Oral Presentations	20:20 - 21:20	Adult Hydrocephalus Oral Presentations

Saturday, 11 September 2021 CEST 06:00 - 12:10

Main Hall		Parallel Hall	
06:00 - 07:00	Neuroradiology - Invited Lecture & Young Investigators Awards Oral Presentations		
07:00 - 07:10	Break		
07:10 - 08:10	Adult Hydrocephalus - Invited Lecture & Young Investigators Awards Oral Presentations		
08:10 - 08:20	Break		

Program Overview

08:20 - 09:20	Intracranial Pressure Invited Lectures & Oral Presentations	08:40 - 09:20	Adult Hydrocephalus Oral Presentations
09:20 - 09:50	Industry Sponsored Seminar		
09:50 - 11:00	Young Scientists Session	10:10 - 11:00	Adult Hydrocephalus Oral Presentations
11:00 - 11:10	Break		
11:10 - 12:10	Intracranial Pressure Oral Presentations	11:10 - 12:20	Adult Hydrocephalus Oral Presentations

Sunday, 12 September 2021 CEST 15:00 - 20:30

Main Hall		Parallel Hall	
15:00 - 15:30	Keynote Lecture - Adult Hydrocephalus - Genetics		
15:30 - 16:00	Hydrocephalus Society Annual General Meeting		
16:00 - 17:00	Industry Sponsored Seminar		
17:00 - 18:00	Young Investigators Awards Oral Presentations		
18:00 - 18:10	Break		
18:10 - 19:10	Adult Hydrocephalus Invited Lecture & Oral Presentations	18:30 - 19:10	Adult Hydrocephalus Oral Presentations
19:10 - 19:20	Break		
19:20 - 20:30	CSF Dynamics Round Table	19:40 - 20:30	Meet the Expert

Monday, 13 September 2021 CEST 06:00 - 12:50

Main Hall		Parallel Hall	
06:00 - 07:00	Meet the Experts - Technical Advances in Treatment and Diagnostics Invited Lectures	06:20 - 07:00	Adult Hydrocephalus Oral Presentations
07:00 - 07:10	Break		

Program Overview

07:10 - 08:20	Invited Lecture & Hydrocephalus Society - Movement Disorders Society Joint Session	07:30 - 08:10	Adult Hydrocephalus Oral Presentations
08:20 - 08:40	Break 20'		
08:40 - 09:40	E-poster Session		
09:40 - 10:40	Congenital & Pediatric Hydrocephalus Invited Lecture & Oral Presentations		
10:40 - 10:50	Break		
10:50 - 12:00	Adult Hydrocephalus & Neuroradiology Invited Lecture & Oral Presentations		
12:10 - 12:50	Marmarou Lecture - Closing of the Meeting - Young Investigators Awards Announcement		

Detailed Program

Friday, 10 September 2021 CEST 15:00 - 21:20

Main Hall		Parallel Hall
15:00 – 16:00	Session 1: Opening of the Congress & Hakim Lecture Chair: Mark Hamilton	
15:00 - 15:15	President's Welcome Address Mark Hamilton	
15:15 - 16:00	Hakim Lecture: Revisit of surgically treatable dementia Etsuro Mori & Masatsune Ishikawa	
16:00 - 16:10	Break	
16:10 - 17:20	Session 2: Young Investigators Awards Oral Presentations Chairs: Mats Tullberg, Giorgio Palandri	
16:10 - 16:20	CHANGE IN CSF POCKET SIZE AFTER SHUNT PLACEMENT IN NORMAL PRESSURE HYDROCEPHALUS Emanuele Camerucci	
16:20 - 16:30	A MULTIVARIATE ANALYSIS OF 82 CONSECUTIVE PATIENTS SHUNTED FOR IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Amit Persad	
16:30 - 16:40	ESTABLISHMENT OF AGE AND GENDER SPECIFIC NORMAL CEREBRAL VENTRICLE VOLUMES Harrison Snyder	

16:40 - 16:50	THE EFFECT OF A1/A2 REACTIVE ASTROCYTE EXPRESSION ON HYDROCEPHALUS SHUNT FAILURE Fatemeh Khodadaei
16:50 - 17:00	IN VIVO EVALUATION OF MAGNETIC MICROACTUATOR- EMBEDDED SELF- CLEARING CATHETER FOR INTRAVENTRICULAR HEMORRHAGE TREATMENT Angel Enriquez
17:00 - 17:10	VENTRICULAR ZONE RESPONSE TO BLOOD EXPOSURE AT VARIOUS TIME POINTS Mira Zaranek
17:10 - 17:20	INITIAL EXPERIENCES WITH MIETHKE M.BLUE® VALVE IN INPH PATIENTS Petr Skalicky
17:20- 17:50	Industry Sponsored Seminar

Detailed Program • Friday 10/9

17:50 - 19:00	Session 3 - Experimental Hydrocephalus Invited Lecture & Oral Presentations Chairs: Carolyn Harris, Pat McAllister	17:50 - 19:00	Session 4 - Technical Advances in Treatment and Diagnostics Oral Presentations Chairs: Nana Mac Aulay, Eric Schmidt
17:50 - 18:10	CSF CIRCULATION - FROM EARTH TO THE MOON (AND BACK) Hans Ludwig		
18:10 - 18:20	IN VITRO INVESTIGATION OF THE INFLUENCE OF CERVICAL SPINAL CANAL STENOSIS ON CSF HYDRODYNAMICS Anne Benninghaus	18:10 - 18:20	MANUAL PUMPING OF A HYDROCEPHALUS SHUNT: NONSENSE OR A WORTHWHILE DIAGNOSTIC TOOL? TECHNICAL NOTE OF NON-INVASIVE SHUNT-TESTING WITH VIDEO DEMONSTRATIONS Uwe Kehler
18:20 - 18:30	NEUROINFLAMMATION, WHITE MATTER AND SUBVENTRICULAR ZONE ALTERATIONS IN JUVENILE PIGS WITH HYDROCEPHALUS Maria Garcia Bonilla	18:20 - 18:30	A NOVEL GUIDING TOOL FOR LUMBAR PUNCTURE WITH THE PARAMEDIAN APPROACH Chihiro Akiba
18:30 - 18:40	CHOROID PLEXUS-ON-A-CHIP: A MICROFLUIDIC IN VITRO MODEL TO STUDY THE EFFECT OF INFLAMMATION ON THE BLOOD-CEREBROSPINAL FLUID BARRIER Prashant Hariharan	18:30 - 18:40	THE FIRST CASE OF COMMUNICATING HYDROCEPHALUS TREATED WITH AN ENDOVASCULAR CEREBROSPINAL FLUID SHUNT Adel Malek

Detailed Program • Friday 10/9

18:40 - 18:50	ADAM 10-DEPENDENT CLEAVAGE OF CEREBRAL CADHERIN JUNCTIONS, INDUCE VENTRICULAR ZONE DISRUPTION, VESSEL IMPAIRMENTS, AND HYDROCEPHALUS. A UNIFIED MECHANISM THAT MIMICS THE PATHOPHYSIOLOGY OF ACQUIRED HYDROCEPHALUS Leandro Castaneyra Ruiz	18:40 - 18:50	INTRACRANIAL CEREBRO-SPINAL FLUID (CSF) DIVERSION FROM 4TH VENTRICLE TO CISTERNA MAGNA. Pradnya Patkar
18:50 - 19:00	SQUIRE: A NOVEL MULTI-DYE IN VIVO SYSTEM FOR TESTING REAL-TIME NEUROINFLAMMATION DURING SHUNTING Jeffrey Horbatiuk	18:50 - 19:00	TREATMENT OF HYDROCEPHALUS WITH GIT 27 TO INHIBIT IL-1B ASTROCYTE ACTIVATION Mira Zaranek
19:00 - 19:10	Break		
19:10 - 20:10	Session 5 - Hydrocephalus Society S & EANS Joint Session - Chiari Round Table Chairs: Uwe Kehler, Mansoor Foroughi, Giorgio Palandri	19:30 - 20:00	Session 6 - Technical Advances in Treatment and Diagnostics Oral Presentations Chairs: Hans Ludwig, Anne Benninghaus
19:10 - 20:00	CHIARI 1 MALFORMATION IN ADULTS - KEY PRINCIPLES, TIPS AND CONTROVERSIES Mansoor Foroughi, Andrew Brodbelt, Marcus Stoodley	19:30 - 19:40	MACHINE LEARNING-BASED ENHANCEMENT OF THE LUMBAR INFUSION TEST OUTCOME OF SHUNT-RESPONSIVENESS Petr Skalicky
		19:40 - 19:50	VENTRICULOPERITONEAL SHUNT MALFUNCTION: A SIMPLE METHOD TO SOLVE A COMPLICATED PROBLEM Morgan Broggi

Detailed Program • Friday 10/9

		19:50 - 20:00	REVERT - AN EU PROJECT TO ESTABLISH A CLINICAL NETWORK FOR TRANSFORMING THE CURRENT MANAGEMENT OF NPH IN THE UK AND FRANCE Peter Smielewski
20:00 - 20:10	DISCUSSION		
20:10 - 20:20	Break		
20:20 - 21:20	Session 7 - Adult Hydrocephalus Oral Presentations Chairs: Hazel Jones, John Pickard	20:20 - 21:20	Session 8 - Adult Hydrocephalus Oral Presentations Chairs: Benjamin Elder, Richard Edwards
20:20 - 20:30	ASSESSING THE UTILITY OF NEWLY PROPOSED EVANS' INDEX CUTOFFS FOR USE IN NORMAL PRESSURE HYDROCEPHALUS Alexander Davis	20:20 - 20:30	PREDICTION OF OUTCOME AFTER SHUNT SURGERY THROUGH CSF BIOMARKERS – THE POINT-CSF STUDY Hemin Sabir
20:30 - 20:40	INPH AND PARKINSONISM: A POSITIVE SHUNT RESPONSE WITH A NEGATIVE TAP TEST. Paolo Mantovani	20:30 - 20:40	EXPERIMENTAL CATHETER LAB; A RAPID PROTOTYPING AND IN-VITRO TESTING OF NOVEL VENTRICULAR CATHETERS AND CATHETER MODIFICATIONS Ahmad Faryami
20:40 - 20:50	EVALUATION OF THE EFFECT COMORBID PARKINSON SYNDROME ON NORMAL PRESSURE HYDROCEPHALUS ASSESSMENT Alexander Davis	20:40 - 20:50	UPPER LIMB MOTOR IMPAIRMENT IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS. A CROSS SECTIONAL DESCRIPTIVE STUDY Elena Magelli

Detailed Program • Friday 10/9

20:50 - 21:00	IMPROVEMENTS OF PHYSICAL ACTIVITY, FUNCTIONAL STRENGTH AND ENDURANCE AND INCREASED SLEEP AT NIGHT AFTER SHUNT SURGERY IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Johanna Ridja	20:50 - 21:00	NEUROENDOSCOPIC CHALLENGES IN VENTRICULAR TUMORS TREATMENT Piero Andrea Oppido
21:00 - 21:10	IMPACT OF THE COVID-19 PANDEMIC IN INPH SURGICAL PRACTICE. A CARE GIVER-BASED QUESTIONNAIRE SURVEY. Renzo Moreale	21:00 - 21:10	PANVENTRICULOMEGALY WITH A WIDE FORAMEN OF MAGENDIE AND A LARGE CISTERNA MAGNA (PAVM) – DEFINING THE PHENOTYPE Adam Nunn
21:10 - 21:20	THE VALUE OF PRE-SHUNT CSF BIOMARKERS IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: DOES IT MATTER? Roberta Gambin	21:10 - 21:20	REAL-TIME NON-INVASIVE MONITORING OF CEREBROSPINAL FLUID SHUNT FLOW Matthew Potts

Saturday, 11 September 2021 CEST 06:00 - 12:10

Main Hall		Parallel Hall
06:00-07:00	Session 9 - Neuroradiology - Invited Lecture & Young Investigators Awards Oral Presentations Chairs: Mitsuhiro Mase, Etsuro Mori	
06:00 - 06:20	MRI IN INPH: WHAT REALLY MATTERS Shigeki Yamada	
06:20 - 06:30	DNAH14 KNOCK-OUT MICE DEVELOPED ADULT-ONSET CHRONIC HYDROCEPHALUS Kaito Kawamura	
06:30 - 06:40	WIRELESS BRAIN MICRO- IMPLANTS; ASSESSING THEIR LONG TERM SAFETY DURING CHRONIC IMPLANTATION Abdel Hameed Dabbour	
06:40 - 06:50	VENTRICULAR VOLUMETRY FOR NON-INVASIVE EVALUATION OF SHUNT FUNCTION Simon Liden	
06:50 - 07:00	PERIVENTRICULAR WHITE MATTER CHANGES ARE ASSOCIATED WITH LESS IMPROVEMENT AFTER SHUNT SURGERY IN INPH PATIENTS Carl Snobohm	
07:00 - 07:10	Break	

07:10 - 08:10	Session 10 - Adult Hydrocephalus - Invited Lecture & Young Investigators Awards Oral Presentations Chairs: Uwe Kehler, Daniele Rigamonti
07:10 - 07:30	CROSSTALK BETWEEN INPH AND GERIATRICS: FROM DEMENTIA TO FRAILTY Sevil Yasar
07:30 - 07:40	USEFULNESS OF DESH IN PREDICTING OUTCOME OF EXTENDED LUMBAR DRAINAGE AND SHUNT INSERTION Adam Nunn
07:40 - 07:50	CSF BIOMARKERS REFLECTING CLINICAL SYMPTOMS IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Heikki Lukkarinen
07:50 - 08:00	INFLUENCE OF THE NEUROSURGEON'S OPERATIVE EXPERIENCE ON THE COMPLICATION RATE AFTER SHUNT SURGERY FOR IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Josefin Ohberg
08:00 - 08:10	HYDROCEPHALUS IN PAEDIATRIC POSTERIOR FOSSA TUMORS: THE ROLE OF PRE-OPERATIVE ETV AND ANALYSIS OF RISK FACTORS FOR CSF DIVERSION FOLLOWING TUMOUR RESECTION. Lucia Darie
08:10 - 08:20	Break

Detailed Program • Saturday 11/9

08:20 - 09:20	Session 11 - Intracranial Pressure Invited Lectures & Oral Presentations Chairs: Mats Tullberg, Sevil Yasar	08:40 - 09:20	Session 12 - Adult Hydrocephalus Oral Presentations Chairs: Fernando Pinto, Laurence Watkins
08:20 - 08:35	SPONTANEOUS INTRACRANIAL HYPOTENSION: CONTROVERSIES IN TREATMENT Francesco Signorelli		
08:35 - 08:50	BIOMARKERS OF RAISED INTRACRANIAL PRESSURE Linda D'Antonna	08:40 - 08:50	IMPROVEMENT IN LONG-TERM CARE BURDEN AFTER SURGICAL TREATMENT IN IDIOPATHIC NORMAL HYDROCEPHALUS Masatsune Ishikawa
08:50 - 09:00	ANALYSIS OF INTRACRANIAL PRESSURE PULSE WAVEFORMS DURING INFUSION TESTS Arkadiusz Ziolkowski	08:50 - 09:00	CSF DIVERSION IN SELECTED CHIARI MALFORMATION I PATIENTS IMPROVES THE CROWDING OF THE FORAMEN MAGNUM AND REDUCES SYRINX VOLUME Lucia Darie
09:00 - 09:10	CORRELATION OF 24 HOUR ICP MONITORING ANALYSIS AND ICP SLOW WAVES Eleanor Moncur	09:00 - 09:10	PARKINSONIANS SIGNS IN INPH PATIENTS: DESCRIPTIVE AND DYNAMIC CHANGES IN A PROSPECTIVE COHORT OF PATIENTS Francesco Tuniz
09:10 - 09:20	HAPPY-ICP: SINGLE-CENTRE COHORT OF 184 TELEMETRIC INTRACRANIAL PRESSURE MONITORS Ptolemy Banks	09:10 - 09:20	INCIDENCE OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS AMONG PATIENTS WITH BALANCE AND GAIT DISORDERS IN MEMORY CLINIC POPULATION George Razay
09:20 - 09:50	Industry Sponsored Seminar		

09:50 - 11:00	Session 13 - Young Scientists Session Chairs: Giorgio Palandri, Mark Hamilton	10:10 - 11:00	Session 14 - Adult Hydrocephalus Oral Presentations Chairs: Ahmed Toma, Madoka Nakajima
09:50 - 10:00	INTRODUCTION Giorgio Palandri		
10:00 - 10:10	DEVELOPMENT OF A CORE OUTCOME AND COMMON DATA ELEMENT SET FOR PHVD IN PRETERM INFANTS: THE DECODE-PHVD STUDY Roisin Mc Nicolas		
10:10 - 10:20	DEVELOPMENT OF AN ANIMAL MODEL TO STUDY HYDROCEPHALUS Ignacio Jusue-Torres	10:10 - 10:20	DIAGNOSTIC TEST ACCURACY OF EXTENDED LUMBAR DRAINAGE AND RECEIVER OPERATING CHARACTERISTIC (ROC) CURVE ANALYSIS OF THE OPTIMAL THRESHOLD FOR POSITIVITY Adam Nunn
10:20 - 10:30	ENHANCED HYDROCEPHALUS LITERATURE SEARCHES Norman Relkin	10:20 - 10:30	EVD MANAGEMENT WHAT'S RIGHT AND WHAT'S WRONG? Joanna Palasz
10:30 - 10:40	PUBLISHING IN HYDROCEPHALUS: TIPS FOR SUCCESS FROM THE EXPERTS Hazel Jones	10:30 - 10:40	FIRST 2-YEAR EXPERIENCE FROM A PILOT INTERDISCIPLINARY NORMAL PRESSURE HYDROCEPHALUS CLINIC Tobias Langheinrich
10:40 - 10:50	PUBLISHING IN HYDROCEPHALUS: TIPS FOR SUCCESS FROM THE EXPERTS Spyros Sgouros	10:40 - 10:50	QUANTIFIED ANALYSIS OF AB PLAQUES AND MICROGLIA FROM IN VIVO COHORT OF PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS. Antti Luikku

Detailed Program • Saturday 11/9

10:50 - 11:00	Q & A	10:50 - 11:00	HIGHER LEVELS OF NEUROFILAMENT LIGHT CHAIN AND TOTAL TAU IN CSF ARE ASSOCIATED WITH NEGATIVE OUTCOME AFTER SHUNT SURGERY IN PATIENTS WITH NORMAL PRESSURE HYDROCEPHALUS Madelene Braun
11:00 - 11:10 Break			
11:10 - 12:10	Session 15 - Intracranial Pressure Oral Presentations Chairs: Madoka Nakajima, Masatsune Ishikawa	11:10 - 12:10	Session 16 - Adult Hydrocephalus Oral Presentations Chairs: Spyros Sgouros, Richard Edwards
11:10 - 11:20	TRANSORBITAL ULTRASOUND AND LUMBAR INFUSION TEST IN IDIOPATHIC INTRACRANIAL HYPERTENSION Francesco Tuniz	11:10 - 11:20	DEVELOPING A MULTIDISCIPLINARY NORMAL PRESSURE HYDROCEPHALUS SERVICE: A QUALITY IMPROVEMENT INITIATIVE Samuel Jeffery
11:20 - 11:30	INTERCOMPARTMENTAL COMMUNICATION IN THE CEREBROSPINAL FLUID SYSTEM IN AN ACUTE OVINE IN-VIVO TRIAL: FIRST IMPRESSIONS Anthony Podgorsak	11:20 - 11:30	DUAL TASKING IN POSSIBLE INPH Otto Lilja-Lund
11:30 - 11:40	FIRST INSIGHTS OF POSTURE RELATED PRESSURE DYNAMICS IN AWAKE AND FREELY MOVING RATS Simone Schwander	11:30 - 11:40	CLINICAL PREDICTORS OF SHUNT RESPONSE IN THE DIAGNOSIS AND TREATMENT OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: A SYSTEMATIC REVIEW AND META-ANALYSIS Mark Rea

Detailed Program • Saturday 11/9

11:40 - 11:50	INTRACRANIAL PRESSURE DYNAMICS WHEN MOVING FROM SITTING TO STANDING Matthew Bancroft	11:40 - 11:50	PREVALENCE OF FECAL INCONTINENCE IN PATIENTS WITH NORMAL PRESSURE HYDROCEPHALUS (NPH) Uwe Kehler
11:50 - 12:00	ASSOCIATION OF PULSATILE INTRACRANIAL PRESSURE WITH TONSILLAR DESCENT AND SYRINGOMYELIA IN CHIARI MALFORMATION I Jonathan Funnel	11:50 - 12:00	PRO-HYDRO-GER: A GERIATRIC APPROACH TO DEFINE COMPLEXITY AND FRAILITY IN INPH PATIENTS. Liliana Mazza
12:00 - 12:10	PATIENT GENERATED CEREBROSPINAL FLUID RECIPROCATING PUMP FOR IN-VITRO HYDROCEPHALUS FLUID ANALYSIS AND LONG-TERM CELLULAR RESPONSE STUDIES Ahmad Faryami	12:00 - 12:10	MENINGOENCEPHALOCELE OF THE ANTERIOR SKULL BASE AND RELATIONSHIP WITH CSF RESORPTION PROBLEM Rik Demaerel
		12:10 - 12:20	PILOT STUDY OF A MULTI-CENTER, RANDOMIZED CONTROLLED TRIAL OF SHUNT SURGERY IN INPH ORAL Jan Malm

Sunday, 12 September 2021 CEST 15:00 - 20:30

Main Hall		Parallel Hall
15:00 – 15:30	Session 16: Keynote Lecture - Adult Hydrocephalus - Genetics Chairs: Mark Hamilton, Giorgio Palandri	
15:00 - 15:30	INPH AND GENETICS: LESSONS LEARNED FROM THE LAB Mark D. Johnson	
15:30 - 16:00	Hydrocephalus Society Annual General Meeting	
16:00 - 17:00	Industry Sponsored Seminar	
17:00 - 18:00	Session 17: Young Investigators Awards Oral Presentations Chairs: Richard Edwards, Harold Rekate	
17:00 - 17:10	VARIANTS IN SWI/SNF COMPLEX COMPONENT SMARCC1 LEAD TO DEVELOPMENTAL HYDROCEPHALUS AND OTHER SYNDROMIC FEATURES Amrita Singh	
17:10 - 17:20	INTRACRANIAL PRESSURE AND PERFUSION CHANGES WITH DIFFUSE OPTICAL MEASUREMENTS IN NEONATAL HYDROCEPHALUS Tracy Flanders	

17:20 - 17:30	BIOCHEMICAL PROFILE OF HUMAN INFANT CEREBROSPINAL FLUID IN INTRAVENTRICULAR HEMORRHAGE AND POST-HEMORRHAGIC HYDROCEPHALUS OF PREMATURITY Ayodamola Otun		
17:30 - 17:40	TRIM71 MUTATIONS CAUSE CONGENITAL HYDROCEPHALUS BY IMPAIRING PRENATAL NEURAL STEM CELL REGULATION Duy Phan		
17:40 - 17:50	A NOVEL MODEL OF ACQUIRED HYDROCEPHALUS FOR EVALUATION OF NEUROSURGICAL TREATMENTS Sarah Zwick		
17:50 - 18:00	THE FLOW LIMITING OPERATOR (FLO): A HIGH THROUGHPUT BIOREACTOR DESIGNED TO TEST FULL SIZED SHUNTS IN DYNAMIC ENVIROMENTS Jeffrey Horbatiuk		
18:00 - 18:10	Break		
18:10 - 19:10	Session 18 - Adult Hydrocephalus Invited Lecture & Oral Presentations Chairs: Mansoor Foroughi, Carolyn Harris	18:30 - 19:10	Session 19 - Adult Hydrocephalus Oral Presentations Chairs: Laurence Watkins, Ignacio Jusue-Torres
18:10 - 18:30	OUR BRAINS ARE FULL OF WATER – BUT HOW DOES IT ENTER? Nanna Mac Aulay		

Detailed Program • Sunday 12/9

18:30 - 18:40	<p>CHANGE IN PITUITARY SIZE AS AN INDICATOR OF DISORDERED CSF DYNAMICS IN NORMAL PRESSURE HYDROCEPHALUS Emanuele Camerucci</p>	18:30 - 18:40	<p>OUTCOMES ASSOCIATED WITH A STANDARDIZED ASSESSMENT AND TREATMENT PROTOCOL FOR 298 PATIENTS WITH SUSPECTED IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH) Mark Hamilton</p>
18:40 - 18:50	<p>MATHEMATICALLY DESIGNED VENTRICULAR CATHETER, OPTIMIZED TO REDUCE ASTROCYTE ACTIVATION THROUGH SHEAR REDUCTION AND FLOW REDISTRIBUTION Ahmad Faryami</p>	18:40 - 18:50	<p>VERY RARE VENTRICULAR ARACHNOID CYSTS IN ADULTS MIMICKING NPH SYNDROME Pierro Andrea Oppido</p>
18:50 - 19:00	<p>INTRA-ABDOMINAL FIXATION OF LUMBOPERITONEAL SHUNT TO PREVENT PROXIMAL MIGRATION IN CASES OF IDIOPATHIC INTRACRANIAL HYPERTENSION: TECHNICAL NOTE Ahmed Rizk</p>	18:50 - 19:00	<p>IS THERE AN EXPIRY DATE FOR SHUNTS IN NPH? Aida Kafai Golahmadi</p>
19:00 - 19:10	<p>IS HYDROCEPHALUS SHUNTING FUNCTIONAL NEUROSURGERY? Eric Schmidt</p>	19:00 - 19:10	<p>CEREBROSPINAL FLUID PRODUCTION RATE IN VARIOUS PATHOLOGICAL CONDITIONS: A PRELIMINARY STUDY Kanza Tariq</p>
19:10 - 19:20	Break		
19:20 - 20:30	<p>Session 20 - CSF Dynamics Round Table Chairs: : Dominik Zieglgänsberger & Mats Tullberg</p>	19:40 - 20:30	<p>Session 21 - Meet the Expert Chair: Pat McAllister</p>
19:20 - 19:35	<p>CSF AND ICP: ITS PHYSIOLOGY, ITS PATHOLOGY Ahmed Toma</p>	19:40 - 19:50	<p>SHUNT TECHNOLOGY AND MULFUNCTION: WHAT SHOULD WE KNOW? Carolyn Harris</p>

Detailed Program • Sunday 12/9

19:35 - 19:50	BRAIN PHYSICS IN DIAGNOSTICS OF HYDROCEPHALUS Marek Czosnyka	19:50 - 20:00	MEET THE EXPERT HARRIS
19:50 - 20:05	ICP DYNAMICS IN IDIOPATHIC INTRACRANIAL HYPERTENSION Zofia Czosnyka	20:00 - 20:10	MEET THE EXPERT HARRIS
20:05 - 20:30	Round table discussion and questions from the audience: Controversies in CSF Dynamics	20:10 - 20:20	MEET THE EXPERT HARRIS

Monday, 13 September 2021 CEST 06:00 - 12:50

Main Hall		Parallel Hall	
06:00-07:00	Session 22 - Meet the Experts - Technical Advances in Treatment and Diagnostics Invited Lectures Chairs: Shigeki Yamada, Daniele Rigamonti		
06:00 - 06:20	IS CSF CIRCULATING? AN MRI EXPERIENCE Shinya Yamada		
06:20 - 07:00	LP SHUNTS: WHY AND HOW Madoka Nakajima		
07:00 - 07:10	Break		
07:10 - 07:25	Session 23 - Keynote Lecture Chairs: Mats Tullberg, Eric Schmidt		
07:10 - 07:25	CHRONIC OVERDRAINAGE IN SHUNTED PEDIATRIC HYDROCEPHALUS: HUMAN AND EXPERIMENTAL OBSERVATIONS. Bermans Iskandar		
07:25 - 08:20	Session 24 – Hydrocephalus Society & Movement Disorders Society Joint Session Chairs: Mats Tullberg, Eric Schmidt	07:30 - 08:30	Session 25 - Adult Hydrocephalus Oral Presentations Chairs: Francesco Signorelli, Marek Czosnyka
07:25 - 07:35	DOPAMINERGIC FUNCTION IN NPH. INTRODUCTION TO THE LANDSCAPE OF INPH AND MOVEMENT DISORDERS Eric Schmidt	07:30 - 07:40	FREQUENCY OF ABDOMINAL PAIN RELATIVE TO VARIOUS TYPES OF SHUNT TUBING Kanza Tariq

07:35 - 07:50	MOVEMENT DISORDERS Alfonso Fasano	07:40 - 07:50	COMPARISON OF FAMILIAL IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS PATIENTS AND THEIR FAMILY MEMBERS Joel Rasanen
07:50 - 08:10	CONVERGENT APPROACHES BETWEEN MOVEMENT DISORDER SOCIETY AND HYDROCEPHALUS SOCIETY Panel discussion	07:50 - 08:00	SUBDURAL COLLECTIONS AFTER VENTRICULAR-PERITONEAL SHUNT IMPLANTATION: COMPARISON BETWEEN TYPE OF VALVE Hugo Pereira
		08:00 - 08:10	LUMBAR AND VENTRICULAR CSF CONCENTRATIONS OF EXTRACELLULAR MATRIX PROTEINS BEFORE AND AFTER SHUNT SURGERY IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Karolina Minta
08:10 - 08:20	CONCLUSION AND TAKE HOME MESSAGE Mats Tullberg	08:10 - 08:20	COLLABORATION WITH LOCAL PHYSICIANS IS ESSENTIAL TO RECRUITING UNDIAGNOSED IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS Hisayuki Murai
		08:20 - 08:30	EVD-DEPENDENT HYDROCEPHALUS? AN UNCONVENTIONAL BARGAIN WITH ICP Surabhi Krishnamurthy
08:30 - 08:40		Break	

Detailed Program • Monday 13/9

08:40 - 09:40	E-poster Session
	<p>ASSESSMENT OF THERMAL TRANSCUTANEOUS FLOW PERFORMANCE CHARACTERISTICS IN PATIENTS WITH NORMAL PRESSURE HYDROCEPHALUS Naomi Abel</p>
	<p>CEREBROSPINAL FLUID BIOMARKERS IN IDIOPATHIC VS SECONDARY NORMAL PRESSURE HYDROCEPHALUS Andreas Eleftheriou</p>
	<p>VASCULAR STIFFNESS IN NORMAL PRESSURE HYDROCEPHALUS Joon Shim</p>
	<p>THE VARIATION OF OPTIC NERVE SHEATH DIAMETER (ONSD) MEASURED BY ULTRASOUND BEFORE AND AFTER THE SURGERY FOR HYDROCEPHALUS Mindaugas Urbonas</p>
	<p>OVERDRAINAGE IN AN ISOLATED FOURTH VENTRICLE Borja Sanz</p>
	<p>ADULT EXTERNAL HYDROCEPHALUS PRESENTING AS SUBDURAL HAEMATOMA FOLLOWING SINUS VENOUS THROMBOSIS Lucia Darie</p>

	<p>INTRACRANIAL PRESSURE IS AFFECTED BY SEDATION IN THE FIRST 24 HOURS OF MONITORING</p> <p>Melissa De Fouveia</p>
	<p>HEMO AND CEREBROSPINAL FLUID DYNAMICS IN PREMATURE NEWBORN WITH INTRAVENTRICULAR HEMORRHAGE</p> <p>Baptiste De Waele</p>
	<p>REFERRED SHOULDER TIP PAIN FROM LUMBO-PERITONEAL SHUNT'S DISTAL CATHETER; UNCOMMON NEUROSURGICAL COMPLICATION</p> <p>Oyeleye Egunjobi</p>
	<p>A REVIEW OF THE CHANGING USE OF COGNITIVE ASSESSMENT AS PART OF THE NORMAL PRESSURE HYDROCEPHALUS (NPH) DIAGNOSTIC PATHWAY</p> <p>Cathryn Harries</p>
	<p>SAFETY OF TLP-MODIFIED SHUNT CATHETERS USED TO TREAT HYDROCEPHALUS</p> <p>Simran Hehar</p>
09:40 - 10:40	<p>Session 26 - Congenital & Pediatric Hydrocephalus Invited Lecture & Oral Presentations</p> <p>Chairs: Giorgio Palandri, Mats Tullberg</p>

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09:40 - 10:00	PEDIATRIC HYDROCEPHALUS IN TANZANIA: BUILDING A HOUSE OF HOPE Theresa Harbauer
10:00 - 10:10	VERY LONG-TERM OUTCOMES IN PATIENTS WITH SHUNTED PEDIATRIC HYDROCEPHALUS: MORTALITY AND NEUROCOGNITIVE OUTCOME Matthias Gmeiner
10:10 - 10:20	PREDICTING SHUNT SUCCESS AFTER PERINATAL POST-HAEMORRHAGIC HYDROCEPHALUS Saeed Kayhanian
10:20 - 10:30	CHOROID PLEXUS TIGHT JUNCTION DISRUPTION IN AN EXPERIMENTAL MODEL OF INTRAVENTRICULAR HEMORRHAGE AND POST-HEMORRHAGIC HYDROCEPHALUS Ayodamola Otun
10:30 - 10:50	Break
10:50 - 12:00	Session 27: Adult Hydrocephalus & Neuroradiology Invited Lecture & Oral Presentations Chairs: Theresa Harbauer, Karin Kockum
10:50 - 11:10	SHUNT INFECTION: HOW I PREVENT IT, HOW I MANAGE IT Richard Edwards

11:10 - 11:20	<p>PREDICTION OF OUTCOME IN INPH THROUGH CLINICAL SIGNS AND SYMPTOMS (POINT-C): A PROSPECTIVE STUDY OF 143 PATIENTS</p> <p>Kerstin Andren</p>
11:20 - 11:30	<p>QUALITY OF LIFE AND DEPRESSIVE SYMPTOMS IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: REPORTS FROM A POPULATION-BASED STUDY</p> <p>Katarina Laurell</p>
11:30 - 11:40	<p>LONGSTANDING OVERT VENTRICULOMEGALY IN ADULTS (LOVA) WITH PATENT AQUEDUCT: ETIOPATHOGENESIS AND SURGICAL OUTCOME OF DIFFERENT TREATMENT OPTIONS.</p> <p>Alessandro Carretta</p>
11:40 - 11:50	<p>SEVERE CHRONIC HYDROCEPHALUS: AN OVERLOOKED PATHOLOGY?</p> <p>Hugo Pereira</p>
11:50 - 12:00	<p>IMAGING FEATURES ASSOCIATED WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS HAVE HIGH SPECIFICITY EVEN WHEN COMPARING WITH VASCULAR DEMENTIA AND ATYPICAL PARKINSONISM</p> <p>David Falmar</p>

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12:00 - 12:10	CHANGES IN APPARENT DIFFUSION COEFFICIENT (ADC) DURING CARDIAC CYCLE OF THE BRAIN IN INPH BEFORE AND AFTER CSF DRAINAGE Mitsuhito Mase
12:10 - 12:50	Session 28: Marmarou Lecture - Closing of the Meeting - Young Investigators Awards Announcement Chair: Uwe Kehler
12:10 - 12:40	MARMAROU LECTURE: SOME CSF RELATED EXPERIMENTS OF NATURE - OLD AND NEW John Pickard
12:40 - 12:50	Closing of the Meeting - Young Investigators Awards Winners Announcement



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