

CDH22

Congenital Diaphragmatic Hernia International Symposium 2022

27th - 29th April 2022

The University of Strathclyde Technology and Innovation Centre,
99 George St, Glasgow G1 1RD *and online*



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Platinum  **cdh UK** The Congenital Diaphragmatic Hernia Charity Gold **Medtronic** Engineering the extraordinary

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CDH 2022 is organised by the team at the Royal Hospital for Children, Glasgow, in partnership with Glasgow Children's Hospital Charity, and supported by the Office for Rare Diseases and SCANS (Surgical Conditions Affecting Newborns Scotland).


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DAY 1: Wednesday 27 th April 08.30 - 17.30 BST		
08.00 - 08.30	Registration	
08.30 - 08.45	Welcome	Dr Neil Patel and Mr Carl Davis
08.45 - 11.00	Session 1: Models, Mechanisms and Experimental Therapies	Co-chairs: Dr Matthew Harting Dr Richard Keijzer
08.45 - 09.00	Introduction of the pathophysiological trifecta in CDH	Dr Matthew Harting
09.00 - 09.20	The pulmonary vasculature in CDH	Prof Robbert Rottier
09.20 - 09.35	Respiratory development in CDH and new therapeutic avenues	Dr Augusto Zani
09.35 - 09.50	Disease in a dish: Experimental models of the CDH lung	Dr Shaun Kunisaki
09.50 - 10.05	Whole or hole? Development of the diaphragm and CDH	Dr Gabrielle Kardon
10.05 - 10.42	Oral abstract presentations	
	Amniotic fluid stem cell extracellular vesicles restore normal vascular development in a novel human fetal model of pulmonary hypoplasia	Dr. Rebeca Figueira
	Transcriptome Analysis of Umbilical Vein Endothelial Cells: A Patient-Derived Cellular Model of Studying CDH Endothelial Dysfunction	Dr. Walker Short
	In vivo administration of amniotic fluid stem cell extracellular vesicles rescues the transcriptomic profile of fetal lungs in rats with CDH	Lina Antounians
	SIN3A is required for epigenetic regulation of diaphragm and lung development	David McCulley
10.42 - 11.00	Interactive Panel Discussion: Future research priorities	Co-chairs: Dr Matthew Harting Dr Richard Keijzer
11.00 - 11.30	Morning break	
11.10 - 11.25	Coffee break E-Poster presentations - Screen 1 and 2 in Foyer (in- person delegates only)	
11.30 - 13.15	Session 2: What Matters to Us: Personalising Support for people with CDH	Co-chairs: Prof Laurent Storme
11.30 - 11.45	Philosophy of Care in CDH	Prof Laurent Storme
11.45 - 12.05	Personalising Care for patients and families with CDH	Dr Kelly Saint Denny
12.05 - 12.20	FICare for critically ill newborns	Prof Karel O' Brien
12.20 - 12.30	Implementing Family Integrated Care in CDH	Mrs Carolyn McConnell
12.30 - 12.50	Oral abstract presentations	
	The CDH Patient Journey	Mrs Beverley Power
	Prenatal Counseling for Congenital Diaphragmatic Hernia: A Qualitative Study of Provider Perspectives	Dr. Howard Jen
	Congenital Diaphragmatic Hernia: Patient Parents As Partners	Ms Dawn Ireland



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12.50 - 13.15	Interactive Panel Discussion: What matters to CDH Families and Patients	Professional and Parent Representatives
13.15 - 14.00	Lunch	
13.30 - 13.55	Parallel oral presentations - Main Auditorium and Conference Room	
13.30 - 13.55	Lunchtime E-Poster presentations - Screen 1 and 2 in Foyer (in- person delegates only)	
14.00 - 15.00	Interactive Workshops (In person attendance only) and Oral abstract presentations	
15.00 - 15.30	Afternoon Break and refreshments	
15.10 - 15.25	Afternoon coffee break E-Poster presentations - Screen 1 in foyer (in-person delegates only)	
15.30 - 17.30	Session 3: The Fetus with CDH: Assessment and management	Co-chairs: Prof Alexandra Benachi Dr Anthony Johnson
15.30 - 15.50	Old and new predictors of outcome in CDH	Dr Tim Jancelewicz
15.50 - 16.10	FETO and the TOTAL Trial, what have we learnt?	Prof Jan Deprest
16.10 - 16.30	Implementing FETO - what you need to know	Prof Alexandra Benachi
16.30 - 17.00	Oral abstract presentations	
	Prenatal Brain Maturation in Neonates with Congenital Diaphragmatic Hernia (CDH)	Sandy Johng
	Fetoscopic Endoluminal Tracheal Occlusion Balloon Related Complications	David Basurto
	Ultrasound prediction of survival in CDH: validation of the current algorithm in the TOTAL trial population	Dr Francesca Russo
	A core outcome set for perinatal interventions for congenital diaphragmatic hernia	Dr. Simen Vergote
17.00 - 17.30	Interactive Panel and Audience Discussion: What next for fetal therapy in CDH?	
18.15 – 19.30	Civic Welcome by Lord Provost, Trades House, Glasgow	
19.30 - 23.00	Conference Reception and Dinner	



27th - 29th April 2022

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Day 2: Thursday 28th April | 08.30 - 17:45 BST

08.00 - 08.30	Registration, tea and coffee	
08.30 - 10.30	Session 4: The First Minutes	Co-chairs: Dr Natalie Rintoul Dr Anne Ades
08.30 - 08.50	Transitional physiology in CDH	Prof Stuart Hooper
08.50 - 09.05	The First Breaths	Dr Suzan Cochius den Otter
09.05 - 09.20	The First Beats	Dr Jason Gien
09.20 - 09.40	Supporting the transition at birth: practical challenges and current trials	Dr Sebastien Mur and Dr Philip Dekoninck
09.40 - 10.10	Oral abstract presentations	
	Umbilico-placental hemodynamics and transplacental O ₂ exchanges during Intact Cord Resuscitation in newborn lambs with congenital diaphragmatic hernia (CDH)	Dr Kevin Le Duc
	Spontaneous Breathing Approach in Mild Congenital Diaphragmatic Hernia	Denise Oudshoorn
	Spontaneous breathing during delivery room management in CDH neonates with very mild CDH – a case-control study	Bartolomeo Bo
	Lung Recruitment After Birth in Infants with Congenital Diaphragmatic Hernia	K. Taylor Wild
	Delivery Room Resuscitation of Neonates with Congenital Diaphragmatic Hernia; Lessons Learned through Video Review	K. Taylor Wild
10.10 - 10.30	Interactive Panel Discussion: Unanswered questions and future priorities in the transitional period	
10.30 - 11.00	Morning break and oral poster presentations	
10.40 - 10.55	Coffee break E-Poster presentations - Screen 1 in Foyer (in- person delegates only)	
11:00 - 13:05	Session 5: Pathophysiological Phenotypes in neonatal CDH	Chair: Dr Florian Kipfmueller
11.00 - 11.10	Overview of early clinical phenotypes in CDH	Dr Florian Kipfmueller
11.10 - 11.30	Pulmonary Hypertension in CDH	Prof Satyan Lakshminrusimha
11.30 - 11.50	Respiratory Management in CDH: do we still have the answers?	Prof David Tingay
11.50 - 12.10	Cardiac phenotypes in CDH	Dr Gabriel Altit



27th - 29th April 2022

The University of Strathclyde Technology and Innovation Centre, Glasgow and online

	Oral abstract presentations	
12:10 - 12:40	Ductus arteriosus flow pattern and outcome prediction in CDH neonates.	Bartolomeo Bo
	Pathophysiological phenotypes in CDH: frequency and relationship to disease severity	Dr Abhijit Bhattacharya
	Clinical and Cellular Sexual Dimorphism in Congenital Diaphragmatic Hernia	Oluyinka Olutoye II
	Impact of Early Echocardiographic Characteristics on Survival and Extracorporeal Life Support Utilization in Neonates with Congenital Diaphragmatic Hernia	Caroline Yeon-Kyeong Noh
	Left ventricular hypoplasia and ventricular disproportion in neonates with congenital diaphragmatic hernia	Flaminia Pugnali
12:40 - 13:05	Panel Discussion: Including interactive case presentations	
13:05 - 14:00	Lunch	
13.30 - 13.55	Parallel oral presentations - Main Auditorium and Conference Room	
13.30 - 13.55	Lunchtime E-Poster presentations - Screen 1 and 2 in Foyer (in- person delegates only)	
14.00 - 15.00	Interactive Workshops (in person attendance only) and Oral abstract presentations	
15.00 - 15.30	Afternoon break	
15:30 - 17:45	Session 6: Optimising Intensive and Surgical Care in CDH	Chairs: Dr Irma Capolupo Prof Krisa van Meurs
15.30 - 15.45	Standardisation of Care in CDH: are we there yet?	Dr Gregor Walker
15.45 - 15.55	Standardising decision-making in CDH Care: The Japanese Experience	Dr Kouji Nagata
15.55 - 16.15	Update on surgical techniques and materials in CDH	Dr Katrin Zahn
16.15 - 16.35	Approaches to ECLS in CDH	Dr Matthew Harting
16.35 - 17.10	ECLS: My personal philosophy and panel discussion	Dr Kevin Lally, Mr Carl Davis, Prof Dick Tibboel
	Oral Abstract Presentations	
17.10 - 17.45	Utility of neurally adjusted ventilatory assist (nava) in weaning and extubation of neonates with congenital diaphragmatic hernia (CDH)	Dr Ana María Sánchez Torres
	Treprostinil in children with congenital diaphragmatic hernia-related pulmonary hypertension	Felix R DeBie
	Heart rate control with landiolol hydrochlorid in CDH infants with ventricular dysfunction	Dr. Lukas Schroeder
	Early pre- and postoperative enteral nutrition in infants with symptomatic congenital diaphragmatic hernia	MD Ulla Lei Larsen
	Anti-reflux surgery in children with congenital diaphragmatic hernia: A prospective cohort study on a controversial practice	Dr Louise Montalva



27th - 29th April 2022

The University of Strathclyde Technology and Innovation Centre, Glasgow and online

Day 3: Friday 29th April | 09.00 - 12.50 BST

08.30 - 09.00	Registration, tea and coffee	
09.00 - 11.00	Session 7: Transition to Adulthood and longer-term Care	Chair: Dr Hanneke IJsselstijn
09.00 - 09.15	Introduction to the transition to adulthood	Dr Hanneke IJsselstijn
09.15 - 09.35	Clinical Challenges for Adults with CDH	Dr Ulrike Kraemer
09.35 - 09.55	Setting up an Adult CDH Service	Dr Lieke Kamphuis
09.55 - 10.10	Perinatal Care for Women with CDH	Prof Alexandra Benachi
10.10 - 10.45	Oral Abstract Presentations	
	High Altitude Simulation Testing in Patients with Congenital Diaphragmatic Hernia	Dr. Terry L Buchmiller
	Longitudinal evaluation of health status and quality of life in school-aged children with congenital diaphragmatic hernia	Isabel Sreeram
	Pre-school cognitive and social outcomes in CDH survivors	Dr Laura Valfrè
	Self-Reported Respiratory and Gastrointestinal Outcomes in Children Managed at Fetal Treatment Centers with Isolated Congenital Diaphragmatic Hernia	Dr Patrice Eastwood
	Cardio-pulmonary Exercise Testing in Scottish children and adolescents with repaired congenital diaphragmatic hernia	Mr Paul Burns
10.45 - 11.15	Neuropsychological outcome at five years of age in survivors of congenital diaphragmatic hernia	Sophie De Munck De Munck
	Interactive Panel Discussion: Developing improved long-term follow up	Dr Jonathan Coutts
11.15 - 11.40	Morning Break and refreshments	
11.40 - 12.40	Session 8: Future priorities in CDH Research and Care: where next?	Chair: Mr Carl Davis Dr Neil Patel
11.40 - 12.40	Perspectives from leaders in CDH care and research	Prof Pietro Bagolan, Dr Holly Hedrick, Dr Kevin Lally, Prof Dick Tibboel
12.40 - 12.50	Closing Remarks and Invitation to CDH 2024	Dr Neil Patel, Prof Alexandra Benachi and Dr Laurent Storme

14.00 - 16.00 CDH Research Interest Group Meetings

Workshops:

Wednesday 27th and Thursday 28th April Interactive workshop sessions will include:

- Fetal assessment in CDH
- Neonatal management, including pulmonary hypertension therapies
- Management of recurrence in CDH
- Optimising decision-making in CDH
- Postnatal risk assessment
- Optimising ELCS in CDH



27th - 29th April 2022

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Faculty list

Lead organising committee

Mr Carl Davis, Royal Hospital for Children, Glasgow
Dr Neil Patel, Royal Hospital for Children, Glasgow
Dr Gregor Walker, Royal Hospital for Children, Glasgow

Dr Anne Ades, Neonatologist, Children's Hospital of Philadelphia
Dr Gabriel Altit, Montreal Children's Hospital, Montreal
Prof Pietro Bagolan, Bambino Gesù Hospital, Rome
Prof Alexandra Benachi, Hôpital Antoine-Béclère – Hôpitaux universitaires, Paris-Sud
Dr Irma Capolupo, Bambino Gesù Hospital, Rome
Dr Suzan Cochius den Otter, Sophia Children's Hospital, Erasmus Medical Centre, Rotterdam
Dr Jonathan Coutts, Royal Hospital for Children, Glasgow
Prof Jan Deprest, University of Leuven, Leuven
Dr Jason Gien, Children's Hospital of Colorado, Colorado
Dr Holly Hedick, Children's Hospital of Philadelphia, Pennsylvania
Dr Matthew Harting, McGovern Medical School at the University of Texas, Houston
Prof Stuart Hooper, Hudson Institute for Medical Research - Monash University, Melbourne
Dr Hanneke IJsselstijn, Sophia Children's Hospital, Erasmus Medical Centre, Rotterdam
Dr Tim Jancelewicz, Le Bonheur Children's Hospital, Tennessee
Dr Anthony Johnson, The University of Texas Health McGovern Medical School/ The Fetal Center at Children's Memorial Hermann Hospital, Texas
Dr Lieke Kamphuis, Sophia Children's Hospital, Erasmus Medical Centre, Rotterdam
Dr Gabrielle Kardon, The University of Utah School of Medicine, Utah
Dr Richard Kunisaki, University of Manitoba and the Children's Hospital Research Institute of Manitoba
Dr Florian Kipfmueller, University Children's Hospital, Bonn
Dr Ulrike Kraemer, Sophia Children's Hospital, Erasmus Medical Centre, Rotterdam
Dr Shaun Kunisaki, The Johns Hopkins University, Maryland
Prof Satyan Lakshminrusimha, UC Davis Children's Hospital, California
Dr Kevin Lally, McGovern Medical School at UTHealth and Children's Memorial Hermann Hospital, Texas
Dr Matias Luco, Pontificia Universidad Catolica de Chile, Santiago
Mrs Carolyn McConnell, Royal Hospital for Children, Glasgow
Dr Francesco Morini, Meyer Children's Hospital, Florence
Dr Kouji Nagata, Kyushu University Hospital, Fukuoka
Prof Karel O'Brien, Mount Sinai Hospital and University of Toronto, Toronto
Dr Natalie Rintoul, Children's Hospital of Philadelphia, Philadelphia
Prof Robbert Rottier, Erasmus Medical Centre, Rotterdam
Dr Kelly Saint Denny, Lille University Hospital, Lille
Dr Judith Simpson, Royal Hospital for Children, Glasgow
Prof Laurent Storme, Lille University Hospital, Lille
Prof Dick Tibboel, Sophia Children's Hospital, Erasmus Medical Centre, Rotterdam
Prof David Tingay, Murdoch Children's Research Institute and Royal Children's Hospital, Melbourne
Prof Krisa van Meurs, Stanford School of Medicine
Dr Katrin Zahn, University Medical Center Mannheim, Germany
Dr Augusto Zani, Hospital for Sick Children, Toronto



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[More info](#)

Registration

Live Registration: £300 inc VAT
Virtual Registration: £150 inc VAT

Recordings of all plenary sessions will be available to view after the symposium has ended at www.cdh2022.com

Conference Secretariat

CFS Events Ltd
Mindenhall Court
17 High Street
Stevenage
Herts
SG1 3UN

Primary: +44 (0) 1438 751519
georgee@cfsevents.co.uk or
info@cdh2022.co.uk

COVID-19 mitigation

Due to the changing nature of the pandemic there is a possibility that we may have to postpone or cancel the event. We will aim to give you as much notice as possible. Unfortunately we cannot be liable for any costs incurred due to cancellation or postponement of the meeting.