

CDH 2024

Congenital Diaphragmatic
Hernia Symposium

April 24 - 26, 2024

Le Nouveau Siècle, Lille, France & online

PROGRAMME

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DAY 1 WEDNESDAY, APRIL 24, 2024

7:45 Welcome speeches

8:00-10:00 THE DYSFUNCTIONAL HEART

Co-chairs: Matthew Harting - Florian Kipfmüller - Neil Patel

8:00-8:15 **The role of the heart in CDH pathophysiology: a brief history***Neil Patel, The Royal Hospital for Children, Glasgow, UK*8:15-8:30 **CDH-cardiac dysfunction – what are the molecular, cellular, and mechanistic underpinnings?***Matthew Harting, University of Texas/Children's Memorial Hermann Hospital, Houston, TX, USA*8:30-8:45 **Clinical assessment of the neonatal heart in CDH: when, who and how?***Shazia Bhombal, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA*8:45-9:00 **Pathophysiology-based cardiorespiratory therapy in CDH: State of the art***Florian Kipfmüller, University Children's Hospital, Bonn, Germany*9:00-9:56 **Oral abstract presentations** (click on  to read the abstract)**Prenatal liposomal siHIF-2a protects against cardio-metabolic remodelling and dysfunction in CDH***Siqinzhaorigetu Saljuud, University of Texas Health Science Center, Houston, TX, USA***Reduced Left Atrial Strain is associated with adverse outcome in CDH***Abhijit Bhattacharya, The Royal Hospital for Children, Glasgow, UK***Impaired left ventricular transition in CDH: cardio-respiratory consequences and new therapeutic implications***Abhijit Bhattacharya, The Royal Hospital for Children, Glasgow, UK***Intra-amniotic administration of amniotic fluid stem cells extracellular vesicles rescues altered right and left ventricular morphology in the nitrofen model of CDH in rats***Rebeca Figueira, The Hospital for Sick Children, Toronto, ON, Canada***Definitions of Pulmonary Hypertension and Cardiac Dysfunction in CDH: a Systematic Review***Srirupa Hari Gopal, Baylor College of Medicine/Texas Children's Hospital, Houston, TX, USA***Continuous vital signs as predictors for pulmonary hypertension and cardiac dysfunction in neonates with CDH***Eris Van Twist, Erasmus MC Sophia Children's Hospital, Rotterdam, Netherlands***Postnatal cardiopulmonary adaptation in CDH neonates following fetal endoluminal tracheal occlusion***Bartolomeo Bo, University Children's Hospital, Bonn, Germany*9:56-10:00 **Closing surprise**

10:00-10:30 Coffee break

10:30-12:30 THE LUNGS

Co-chairs: Hanneke IJsselstijn - Florian Kipfmüller

10:30-10:48 **Translating science for better outcomes in CDH***Richard Keijzer, University of Manitoba/Children's Hospital Research Institute, Winnipeg, MB, Canada*10:48-11:06 **Mechanical ventilation in CDH: do we really understand it?***David Tingay, The Murdoch Children's Research Institute/The Royal Children's Hospital, Melbourne, VIC, Australia*11:06-11:38 **Oral abstract presentations** (click on  to read the abstract)**Physiologic and histologic outcomes of partial liquid ventilation in Pumpless Extracorporeal Membrane Oxygenation (p-ECMO)-supported CDH model lambs***Emily Partridge, Children's Hospital of Philadelphia, Philadelphia, PA, USA***Cyfra 21-1 as a Novel Biomarker to Assess Poor Outcome in Neonates with CDH***Hannah Lagos Kalhoff, University Children's Hospital, Bonn, Germany***The Cardiopulmonary Benefits of Physiologically Based Cord Clamping (PBCC) Persist for at least 8 hours in Lambs with a Diaphragmatic Hernia***Philip Dekoninck, The Ritchie Centre/Hudson Institute of Medical Research, Clayton, VIC, Australia & Erasmus University Medical Center/Sophia Children's Hospital, Rotterdam, Netherlands***Spirometry in the VICI population; long term outcome after randomization for ventilation mode***Suzan Cochius-Den Otter, Erasmus University Medical Center, Rotterdam, Netherlands*11:38-11:55 **Randomized controlled trials; still the Holy Grail?***Dick Tibboel, Erasmus MC University Medical Center/Sophia Children's Hospital, Rotterdam, Netherlands*11:55-12:30 **Discussion with panellists**

12:30-13:30 Lunch

12:45-13:15 **The use of lung ultrasound for the diagnosis of CDH**
Danièle De Luca, Paris, France

13:30-15:30 **NON-ISOLATED CDH**


Co-chairs: Matthew Harting - Natalie Rintoul


CDH plus congenital heart disease

13:30-13:50 **The heart in CDH: Perspectives from a cardiac intensivist**

Peta M.A. Alexander, Harvard Medical School/Boston Children's Hospital, Boston, MA, USA

13:50-14:20 **Oral abstract presentations** (click on  to read the abstract)

 **The Impact of Congenital Heart Disease on CDH: Survival, Length of Stay, and Discharge Outcomes**
Sarah Keene, Emory University School of Medicine/Children's Healthcare of Atlanta, Atlanta, GA, USA

 **Impact of a congenital heart disease diagnosis on CDH survival – the implication of surgical intervention**
Kylie Holden, Children's Memorial Hermann Hospital, Houston, TX, USA

 **Congenital heart disease and arrhythmia disorders in newborns with CDH – A 23-year experience at a university pediatric surgical center**
Paul Losty, Alder Hey Children's Hospital, Liverpool, UK

14:20-14:40 **Panel discussion & Audience response**

CDH plus syndrome/genetic difference

14:40-15:00 **Mapping the Genetic Contributors to CDH**

Katherine T. Wild, Children's Hospital of Philadelphia, Philadelphia, PA, USA

15:00-15:10 **Oral abstract presentation** (click on  to read the abstract)

 **CDH with associated Hydrops: Analysis of the CDHSG Registry**

Carmen Mesas Burgos, Karolinska University Hospital, Karolinska, Sweden

15:10-15:30 **Panel discussion & Audience response**

Parallel abstract sessions

15:30-17:00

Surgery (Main conference room)

Basic science (Room A)

Ventilation and PHT drugs (Room B)

Long term outcome (Room C)

Organization of care (Room D)

17:00-17:30 Coffee break

Parallel workshops

17:30-19:00

Delivery room management and strategies (Main conference room)

Moderators: Natalie Rintoul - Philip DeKoninck - Anne Ades

ECMO treatment (Room A-B)

Moderators: Matthew Harting - Florian Kipfmüller - Katrin Zahn

Cardio-pulmonary interactions (Room C-D)

Moderators: Neil Patel - Florian Kipfmüller






19:00-20:00 Welcoming cocktail



DAY 2 THURSDAY, APRIL 25, 2024

8:00-10:00 THE FETUS WITH CDH





Co-chairs: Alexandra Benachi - Carmen Mesas Burgos

- 8:00-8:15 **Tracheal aspirate derived basal stem cells, epithelial model in CDH**
Richard Wagner, University Hospital, Leipzig, Germany
- 8:15-8:30 **Fetus heart in CDH, what can we expect?**
Daniela Laux, Hôpital Universitaire Necker Enfants Malades, Paris, France
- 8:30-8:45 **SMART-Balloon**
Alexandra Benachi, Université Paris Saclay/Hôpital Antoine Bécélère, Clamart, France
Jan Deprest, KU Leuven/UZ Leuven, Leuven, Belgium & University College London/King's College Hospital & Institute for Women's Health, London, UK
- 8:45-9:00 **Third trimester management**
Roland Devlieger, KU Leuven/UZ Leuven, Leuven, Belgium
- 9:00-9:15 **Lung organoid isolation from amniotic and tracheal fluids**
Paolo De Coppi, University College of London/Great Ormond Street Hospital, London, UK
- 9:15-9:20 **Panel discussion**
- 9:20-9:45 **Oral abstract presentations** (click on  to read the abstract)
-  **Chorionic membrane separation after FETO: is it clinically relevant?**
Francesca Russo, KU Leuven/UZ Leuven, Leuven, Belgium
-  **Biodistribution of labeled amniotic fluid stem cell extracellular vesicles in a CDH lamb model**
Marianna Scuglia, KU Leuven, Leuven, Belgium & University College London/Great Ormond Street Institute of Child Health, London, UK
-  **Innovative model of endotracheal catheter balloon for fetoscopic intrauterine tracheal occlusion in fetus with CDH**
Artem Burov, National Medical Research Center of Obstetrics, Moscow, Russian Federation
-  **Whole exome sequencing in fetuses with (isolated) CDH in a nationwide cohort**
Katinka Weller, Erasmus University Medical Center, Rotterdam, Netherlands
- 9:45-10:00 **Discussion with panellists**

10:00-10:30 Coffee break

10:30-12:30 THE BRAIN

Co-chairs: Jan Deprest - Hanneke IJsselstijn

- 10:30-10:50 **In utero brain development and relationship to severity indicators**
Francesca Russo, KU Leuven/UZ Leuven, Leuven, Belgium
- 10:50-11:10 **Peri-operative events and critical illness**
Katherine Brown, University College London/Children's Institute of Cardiovascular Science, London, UK
- 11:10-11:30 **Long-term consequences of CDH for (neuro)psychological function and quality of life**
Andre Rietman, Erasmus University Medical Center, Rotterdam, Netherlands
- 11:30-12:00 **Oral abstract presentations** (click on  to read the abstract)
-  **The Cerebellum in children born with CDH – Involved in impaired neurodevelopment?**
Sophie De Munck, Erasmus University Medical Center, Rotterdam, Netherlands
-  **Neurodevelopment in CDH survivors with and without FETO: a cohort study**
Francesca Russo, KU Leuven/UZ Leuven, Leuven, Belgium
-  **A Novel Neonatal Brain Injury Score for Infants with CDH**
Sandy Johng, University of Washington/Children's Hospital of Philadelphia, Philadelphia, PA, USA
-  **Associations between ECMO and neuroimaging and neurodevelopmental outcomes in infants with CDH: a propensity score-matched analysis**
Sandy Johng, University of Washington/Children's Hospital of Philadelphia, Philadelphia, PA, USA
- 12:00-12:30 **Discussion with panellists**

12:30-13:30 Lunch

12:45-13:15 **Screening of short videos presenting CDH**
(France, The Netherlands, ERNICA, CDH UK, CDH Australia, CDH USA)

- 13:30-13:45 **Genetics of CDH**
Florence Petit, Lille University Hospital, Lille, France
- 13:45-14:00 **What future for materials to patch CDH defects?**
Isabelle Talon, Hôpitaux Universitaires de Strasbourg, Strasbourg, France
- 14:00-14:15 **Muscle flaps for CDH**
Holly Hedrick, Children's Hospital of Philadelphia, Philadelphia, PA, USA
- 14:15-14:55 **Oral abstract presentations** (click on  to read the abstract)
 -  **Single cell transcriptomic analysis of the developing diaphragm: significance for CDH**
Robin Clugston, University of Alberta, Edmonton, AB, Canada
 -  **Multi-Centre Prospective Cohort Study of Diaphragmatic Defect Phenotype and Repair in Neonates with CDH: "The Defect Study"**
Mary Patrice Eastwood, Wellcome-Wolfson Institute of Experimental Medicine/Royal Belfast Hospital for Sick Children, Belfast, UK
 -  **Long-Term Evaluation of the Shape of the Reconstructed Diaphragm in Patients with left-sided CDH using Serial Chest Radiographs and Correlation to further Complications**
Christoph Von Schrottenberg, University of Heidelberg/University Children's Hospital, Mannheim, Germany
 -  **Long term Effectiveness of Transversus Abdominis Single Muscle Flap Repair for Large CDH**
Camille Duchesne, Centre Hospitalier Universitaire, Rennes, France
 -  **Outcomes of right versus left CDH: a single center experience over two decades**
Sam Han, University of Toronto/Hospital for Sick Children, Toronto, ON, Canada
- 14:55-15:30 **Discussion with panellists**

Parallel abstract sessions

15:30-17:00	Digestive and neurological outcomes <i>(Main conference room)</i>	Fetus with CDH <i>(Room A)</i>	Hemodynamics in CDH <i>(Room B)</i>	Prognosis assessment and outcome <i>(Room C)</i>	Informative clinical cases and feedback from patients <i>(Room D)</i>
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17:00-17:30 Coffee break

Parallel workshops

17:30-19:00	Postnatal surgery: the detail of surgical intervention <i>(Main conference room)</i> <i>Moderators: Carmen Mesas Burgos - Matthew Harting - Katrin Zahn</i>	Prenatal management in CDH <i>(Room A-B)</i> <i>Moderators: Alexandra Benachi - Hanneke IJsseltijn - Natalie Rintoul</i>	Holistic care for CDH patients and their families <i>(Room C-D)</i> <i>Moderators: Fanny Cauvet - Laurent Storme - Sébastien Mur</i>
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DAY 3 FRIDAY, APRIL 26, 2024

8:00-10:00 HELPING PARENTS AND HEALTHCARE PROVIDERS TO COPE WITH UNCERTAINTY
Co-chairs: Fanny Cauvet - Laurent Storme

- 8:00-8:12 **Introducing a new way to explain CDH**
Fanny Cauvet, Family representative, France
- 8:12-8:36 **Tips to improve communication skills with the parents: role of perceived risk and vulnerability**
Kelly Saint Denny, Lille University Hospital, Lille, France
- 8:36-9:00 **Risk perception and vulnerability during adolescence – How to support families during that time period?**
Silja Kosola, University of Helsinki, Helsinki, Finland
- 9:00-9:35 **Oral abstract presentations** (click on  to read the abstract)
-  **Providing individualized support to CDH families transitioning from hospital to home with a dedicated team of providers**
Renee Ebbert & Lisa Herkert, Children's Hospital of Philadelphia, Philadelphia, PA, USA
-  **Gaps in the CDH Journey: Research Priorities for CDH**
Leah Hickey, The University of Melbourne/The Murdoch Children's Research Institute/ the Royal Children's Hospital, Melbourne, VIC, Australia
-  **Disease severity impacts perceived quality of life in CDH: A prospective observational study**
Alexandra Dimmer, McGill University/Montreal Children's Hospital, Montreal, QC, Canada
-  **Development of recommendations for prenatal counselling in CDH**
Leonie Lof, Amalia Children's Hospital/Radboud University Medical Center, Nijmegen, Netherlands
- 9:35-10:00 **Discussion with panellists & family representatives**

10:00-10:30 Coffee break
10:30-12:30 NUTRITION AND FEEDING
Co-chairs: Sébastien Mur - Katrin Zahn

- 10:30-10:35 **Introduction**
- 10:35-10:55 **Feeding CDH babies: from physiology to practical management**
Madeleine Aumar, University of Lille/University Hospital of Lille, France
- 10:55-11:05 **Nutritional needs and practical implications**
Elsa Kermorvant, Hôpital Universitaire Necker Enfants Malades, Paris, France
- 11:05-11:15 **Gastroesophageal reflux in CDH**
Katrin Zahn, University Hospital Mannheim, Mannheim, Germany
- 11:15-11:35 **Standardised tube weaning in a large sample of young children with CDH: learnings and results**
Marguerite Dunitz-Scheer, Graz Regional Hospital /NoTube, Graz, Austria
- 11:35-12:05 **Oral abstract presentations** (click on  to read the abstract)
-  **A Clinical Consensus Guideline for Nutrition in Infants with CDH from Birth through Discharge**
Patrick Sloan, Washington University School of Medicine, Saint Louis, MO, USA
-  **Preventing oral aversion in infants with CDH using an improvement science approach**
Ann Hickey, Children's Health Ireland, Dublin, Ireland
-  **The progression of gastroesophageal reflux disease (GERD) in CDH survivors: management proposal from infancy to adulthood**
Rebecca Pulvirenti, Hospital-University of Padua, Padova, Italy & Erasmus University Medical Center, Rotterdam, Netherlands
-  **Improving oral feeding in infants with CDH receiving NCPAP or HHHFNC**
Leenke Van Haften, Radboud University Medical Center, Nijmegen, Netherlands
- 12:05-12:30 **Questions, discussions with the audience**

12:30-12:45 Closing remarks to end the meeting

ABSTRACT SESSIONS















by order of presentation

DAY 1 WEDNESDAY, APRIL 24, 2024 - 15:30-17:00

Abstract session 1 **SURGERY**

Moderators: Nicoleta Panait - Emily Partridge


Main conference room














-  [Can tension-free thoracoscopic repair of CDH prevent a recurrence? - Okuyama Hiroomi](#)
-  [Management of recurrent CDH: a plea for standardization - Pulvirenti Rebecca](#)
-  [Mini-invasive thoracoscopic repair of CDH: a single Center 1-year follow-up - Valfre Laura](#)
-  [Thoracoscopic vs. Open Repair of Recurrence in CDH - Preliminary data from a Single-Centre - Beck Lydia](#)
-  [Robotic assistance for enhanced dexterity in thoracoscopic repair of recurrent CDH - Caputo Maria Rita](#)
-  [Long-Term Assessment of Recurrence in CDH: A Study of 1,250 Consecutive Cases at a Single Institution - Elrod Julia](#)
-  [Surgical morbidities following CDH repair - Hedrick Holly](#)
-  [Decreasing diaphragmatic hernia recurrence through the application of a patch overlay - Holden Kylie](#)
-  [VIRTUAL - Muscle Flap Technique Safe for On-ECMO CDH Repair - Lyttle Bailey](#)
-  [Early removal of the abdominal wall patch is superior to late removal in children with CDH - Riebesell Kaja](#)
-  [Intraoperative complications of open surgery for CDH: a multicenter observational study in Japan. - Terui Keita](#)
-  [Laparoscopic diaphragmatic hernia repair in children: Tips and Tricks - Thamri Fatma](#)
-  [Recurrence rate in patients with CDH corrected with muscle flap vs prosthetic mesh at the Hospital Italiano de Buenos Aires - Urquiza Lino Marcelo Mauricio](#)
-  [Outcomes of a Hybrid Model for Repair of Infants with CDH Requiring Extracorporeal Life Support - Lotakis Dimitra](#)

Abstract session 2 **BASIC SCIENCE**

Moderators: Richard Keijzer - Paolo De Coppi

Room A















-  [Mesenchymal retinoid signaling is required for normal diaphragm development in mice - Applin Nicole](#)
-  [Single cell-guided prenatal derivation of primary fetal epithelial organoids from the human amniotic and tracheal fluids of healthy and CDH pregnancy - Calà Guiseppe](#)
-  [Prenatal derivation of lung organoids from the fetal fluids of healthy and CDH patients - D'Ariano Giorgia](#)
-  [Targeting fetal lung macrophage dysregulation in CDH with amniotic fluid stem cell extracellular vesicle therapy - Figueira Rebeca](#)
-  [Human amniotic fluid stem cell extracellular vesicles rescue features of lung development in human hypoplastic fetal lungs - Figueira Rebeca](#)
-  [VIRTUAL - An application of machine learning for three-dimensional morphometric analysis of hypoplastic fetal murine lungs - Halbert-Elliott Kyra](#)
-  [Proteomic Profiling for Congenital Diaphragmatic Hernia \(pro-CDH\)- Hild Olivier](#)
-  [Ptpn11 is required for diaphragm, lung, and pulmonary vascular development - McCulley David](#)
-  [MicroRNA miR-10a is dysregulated in the nitrofen model of lung hypoplasia and CDH - Miyake Yuichiro](#)
-  [Nuclear YAP inhibition impairs fetal lung development in an ex vivo murine model - Sescleifer Anne](#)
-  [Tracheal ligation of hypoplastic fetal lungs induces nuclear Yap activation in airway epithelium - Sescleifer Anne](#)
-  [Physiologically Based Cord Clamping \(PBCC\) Attenuates Endothelium-Dependent Arterial Dysfunction in an Ovine Model of CDH - Stainsby Andrew](#)
-  [CircularRNA expression profile to identify novel markers for abnormal lung development in the nitrofen rat model of CDH - Jank Marietta](#)















-  **Lymphocyte subpopulations and immunoglobulins in pleural liquid and blood of neonates with CDH and chylothorax - Pugnaroni Flaminia**
-  **Association Between Initial Mode of Ventilation and NICU Outcomes for Infants with Severe CDH - Wild K. Taylor**
-  **VIRTUAL - The World's first nitric oxide generator tianoks in the treatment of pulmonary hypertension in newborns with CDH - Burov Artem**
-  **Patterns and Outcomes of Epoprostenol Use in Infants with CDH Requiring Extracorporeal Life Support - Lotakis Dimitra**
-  **Intravenous sildenafil versus inhaled nitric oxide for the treatment of pulmonary hypertension in neonates with CDH. The CoDiNOS trial. - Cochius Den Otter Suzan**
-  **Association of Early Ventilator Management with Survival for Infants with CDH - Lichtsinn Katrin**
-  **Clinical variables and outcomes associated with iNO use in patients with CDH: A single center experience - Lichtsinn Katrin**
-  **The spontaneous breathing approach in CDH infants - an update on the VeSBA consortium. - Oudshoorn Denise**
-  **Volume reduction surgery in emphysematous left lung after left CDH: a clinical case study - Proesmans Marijke**
-  **Use of neutrally adjusted ventilatory assist (NAVA) in weaning and post-extubation support of neonates with CDH - Sanchez Torres Ana Maria**
-  **Development of a Biodegradable Porous Hybrid Material to be used as a Patch for Diaphragmatic Hernia Closure - Van Dommelen Lieke**
-  **Concurrent bronchopulmonary sequestration in CDH: Is frequency increasing or are we better at diagnosis? - Yang Michelle**
-  **Inter-institutional comparative prospective study of initial ventilation modes in CDH: Conventional Mechanical Ventilation vs. High-frequency Oscillation - Okuyama Hiroomi**















-  **Postoperative mortality and morbidity trends in CDH: A report on 2,807 cases from the American College of Surgeons Pediatric National Quality Improvement Program - Chidiac Charbel**
-  **Does the long term follow-up population in a multi-disciplinary CDH clinic reflect disease severity and social characteristics of all CDH survivors? - Cimbak Nicole**
-  **Long-term respiratory outcome of children undergoing diaphragmatic hernia surgery - Guiddir Tama**
-  **Long-term outcomes of CDH survivors with or without hernia sac - Jank Marietta**
-  **Long-term outcomes of male and female CDH survivors - Jank Marietta**
-  **Defining outcomes for CDH – Experience over three decades – A comprehensive report from a university paediatric surgical centre - Losty Paul**
-  **A physiologic resilience of the prenatally diagnosed left isolated CDH - a perspective from the 1.5-year follow-up study - Nagata Kouji**
-  **CDH and risk factors of further interventional or surgical procedures after primary repair - Olland Adèle**
-  **Fertility and pregnancy in CDH survivors: a patient-targeted European survey. - Pulvirenti Rebecca**
-  **Chest Wall Deformities in CDH Survivors: Observations from a Single Institution - Riemer Carolin**
-  **Current Status and Challenges in the Psychosocial Development of CDH Patients in Japan - Terakawa Yumi**
-  **Enduring effects of patching the diaphragm: a long-term prospective study in high-risk CDH survivors - Valfre Laura**
-  **Lung-to-head ratio observed to expected (LHR O/E) as a predictor of long-term morbidity in patients with left side CDH: longitudinal prospective study - Valfre Laura**


-  **Right CDH: Can we do better in differentiating disease severity?** - Ades Anne
Fetoscopic endoluminal tracheal occlusion versus expectant management for fetuses with severe left-sided CDH - Dütemeyer Vivien
-  **Incidence of acute kidney injury (AKI) and longitudinal measurements of serum retention parameters in CDH newborns** - Gerschlauer Jana
-  **Organization of Care - One size Does Not Fit All: Comparing CDH Team Structure Across Children's Hospitals in North America** - Gowda Sharada
-  **The effect of extracorporeal life support experience and center volume on survival in CDH** - Jancelewicz Tim
-  **It takes a village: A toolkit for success in the delivery room and neonatal intensive care unit (NICU)** - Kesler Erin & Van Hoose Quirk Taylor
-  **Improving patient care through standardized guidelines for the treatment of CDH** - Klueh Saev Mary & Nadernejad Claudia
-  **Utility of the oxygenation index in management of CDH – A report from a Thai University surgical centre** - Kulngamnetr Issariyaporn
-  **VIRTUAL - Four phenotypes of CDH. Russian variant** - Burov Artem
-  **Monitoring tissue oxygen saturation with near infrared spectroscopy (NIRS) in CDH newborns** - Pugnaloni Flaminia
-  **A Team Sport: Multidisciplinary Simulation Improves Clinician Confidence in Caring for Patients with CDH** - Sloan Patrick
-  **The Delivery Room Resuscitation of Infants with CDH Treated with Fetoscopic Endoluminal Tracheal Occlusion: Beyond the Balloon** - Wild K. Taylor















DAY 2 THURSDAY, APRIL 25, 2024 - 15:30-17:00

-  **VIRTUAL - CDH with pyloric stenosis causing gastric outlet obstruction - case report** - Urquizo Lino Marcelo Mauricio
-  **Gastric perforation in the setting of a large diaphragmatic hernia: Case report and literature review** - Thamri Fatma
-  **Stomach Location Pre-Operatively Predicts Feeding Difficulties In Infants Born With CDH** - Gilley Jamie
-  **Parents-reported nutrition and feeding difficulties in infants with CDH after hospital discharge** - Leyens Judith
-  **Progenitor apoptosis is increased in neurogenic regions of the fetal brain in babies with CDH** - Biouss George
-  **Neonatal gastric volvulus associated with CDH: a rare surgical emergency** - Chicoine Nicole
-  **Long-Term Assessment of Growth Outcomes in CDH: An Analysis of Weight, Height, and Head Circumference in 1,250 Consecutive Cases at a Single Institution** - Elrod Julia
-  **Reconstruction of the Carotid Artery after Extracorporeal Membrane Oxygenation in Neonates** - Endlein Jonathan
-  **Use of Therapeutic Hypothermia (TH) in Three Infants with CDH: A Case Series** - Melemed Abigail
-  **Predictors of Prolonged Feeding Tube Use in CDH Survivors** - Ulmer Anna
-  **Risk factors of undescended testis in CDH: a multi-center study in Japan** - Umeda Satoshi
-  **VIRTUAL - Cerebral Oxygenation and Cortical Electrical Activity during CDH Surgery** - Yuan Ian
-  **Long-term neurodevelopmental outcome following open repair of CDH with and without ECMO support - a longitudinal study of 281 patients** - Zahn Katrin
-  **Addressing Complex Post-CDH Repair Complications: The Challenge of Malrotated Stomach in a Pediatric Patient** - Ireland Dawn

-  **Timing of magnetic resonance imaging in pregnancy for CDH** - Dütemeyer Vivien
-  **Which O/E LHR should be used to identify fetuses with severe right CDH** - Gebb Juliana
-  **Fetoscopic endoluminal tracheal occlusion: response and prematurity are key factors** - Holden Kylie
-  **Severity misclassification in prenatally diagnosed CDH: how often are we wrong?** - Jancelewicz Tim
-  **Evaluation of various ultrasound (US) and magnetic resonance imaging (MRI) indicators in predicting perinatal mortality among fetuses with left-sided CDH (L-CDH)** - Johnson Anthony
-  **Congenital Diaphragmatic Hernia: antenatal diagnosis** - Thamri Fatma
-  **Discordant Prenatal US and MRI Measures in CDH - Does observed/expected LHR or observed/expected TLV Correlate Better with Postnatal Survival?** - Oliver Edward
-  **Variability in fetal magnetic resonance imaging prognostication of prenatal CDH predictors via fetal across the North American Fetal Therapy Network (NAFTNet)** - Perrone Erin
-  **VIRTUAL - Fetal tracheoscopy. The last frontier experience in a tertiary-level center** - Urquizo Lino Marcelo Mauricio
-  **VIRTUAL - Prenatal prediction of neonatal survival of isolated left CDH at the Hospital Italiano de Buenos Aires, Argentina** - Urquizo Lino Marcelo Mauricio
-  **Fetal MRI Defect-Diaphragmatic Ratio (fMRI-DDR) as a prenatal prognostic index in CDH** - Pagliara Camilla
-  **Fetal MRI Defect-Diaphragmatic ratio (fMRI-DDR): feasibility and reproducibility of this novel tool in the evaluation of diaphragmatic defect.** - Pagliara Camilla
-  **Fetal MRI diaphragmatic reconstruction: survey on the interpretation of the 3D reconstruction and its correlation with post-natal finding** - Pagliara Camilla
-  **Prediction of early neonatal morbidity in isolated left-sided CDH** - Russo Francesca

-  **VIRTUAL - Experience in the use of fetal-maternal hyperoxygenation for diaphragmatic hernia in the fetus** - Burov Artem
-  **VIRTUAL - Levosimendan in the structure of intensive care of newborns wit CDH – Is everything so simple?** - Burov Artem
-  **Course of pulmonary hypertension up to one year of age in infants with CDH operated in the neonatal period** - Dirickx Alice
-  **Pulmonary hypertension in CDH: Prenatal prognostic markers and long-term cardiopulmonary outcomes** - Lee Byong Sop
-  **Fetal brain dimensions in CDH: relationship with fetal cardiac dimensions** - Pugnalone Flaminia
-  **Longitudinal changes of ventricular disproportion in a large cohort of CDH newborns** - Pugnalone Flaminia
-  **Cardiac hemodynamics changes during the transition to extrauterine life in a lamb model of CDH.** - Teillet Baptiste
-  **VIRTUAL - CDH outcomes with routine prostaglandin therapy** - Weems Mark
-  **ECMO Exclusion Criteria for Infants with CDH: A Multicenter Practice Survey** - Yang Michelle
-  **Early Use Of Hydrocortisone; An Avenue To Minimize Vasopressor Exposure In Neonates With CDH** - Gilley Jamie
-  **Are early, frequent echocardiograms necessary to improve CDH outcome?** - Yoder Bradley
-  **Timing of first preop ECHO and key cardiac function and blood pressure measurements** - Yoder Bradley
-  **Retrospective observational study - Adding vasopressin improves hemodynamics in CDH** - Zoeteweij - Van Hensen Van Uningen Mireille
-  **Prognostic value of Endothelin-1 as a biomarker for ECMO and mortality in newborns with CDH** - Leyens Judith

-  [Clinical characteristics and outcomes of infants with non-isolated CDH admitted to CDH-Qatar Program](#) - Alhamad Moath
-  [VIRTUAL - CDH Management: A 13-Year Single Centre Analysis of Survival Rates and Outcome Predictors](#) - Ali Hisham
-  [Evaluating the epidemiology and regional variations in additional surgical interventions for children with CDH: a multi-institutional analysis](#) - Cimbak Nicole
-  [Understanding the effect of prematurity on morbidity and survival in neonates with CDH](#) - Cimbak Nicole
-  [Does Placental Weight Impact the Outcome of CDH?](#) - Di Pede Alessandra
-  [VIRTUAL - Morbidity and mortality and associated perinatal risk factors in patients with CDH born at the Hospital Italiano de Buenos Aires, Argentina](#) - Urquizo Lino Marcelo Mauricio
-  [Identifying causes of mortality in infants and children with CDH](#) - Eubanks Alicia
-  [VIRTUAL - Converging Evidence from Three Databases: Quality Improvement Pathways for CDH Care](#) - Guner Yigit
-  [Defect size is the primary predictor of outcome in patients with CDH and a sac](#) - Holden Kylie
-  [Three months and stuck - understanding prolonged lengths of stay in CDH](#) - Holden Kylie
-  [VIRTUAL - Perinatal outcome and childhood respiratory follow-up in a consecutive series of CDH patients at a single center](#) - Lanna Mariano
-  [A Nationwide prospective cohort of CDH in Korea: the first-year report](#) - Lee Byong Sop
-  [Prematurity and CDH - Revisiting outcomes in a contemporary cohort from the CDHSG-registry](#) - Mesas Burgos Carmen
-  [Outcomes of CDH in a Low-Volume Center](#) - Stephens Mark
-  [Preductal arterial blood gases as early predictors for survival in patients with CDH](#) - Suominen Janne

-  [Unveiling the Hidden Dangers of Undiagnosed CDH: A Tragic Case](#) - Ireland Dawn
-  [Comparative Analysis of Two Male Patients with CDH and Six Reherniations](#) - Ireland Dawn
-  [Comparative Study of Long-Term Morbidities in Two Young Adult Females with CDH: A Cross-Border Perspective](#) - Ireland Dawn
-  [A Mother-Daughter Journey with CDH: From Undiagnosed Case to Inherited Challenges](#) - Ireland Dawn
-  [Navigating Uncertainties: An Adult Female's Journey with CDH](#) - Ireland Dawn
-  [Introducing The Global Research Alliance for Congenital Anomalies \(GRACA\)](#) - Ireland Dawn
-  [Unraveling Familial Patterns: Insights into the Natural History and Genetic Influences of CDH through a Comprehensive Questionnaire Study](#) - Ireland Dawn
-  [Incidence of COVID-19 was lower in children with CDH compared to controls during the pandemic](#) - Miyake Yuichiro
-  [Is CDH with additional anomalies worth it? A Case Study](#) - Perkins Joy
-  [Case Report of a CDH in a Premature Infant Born at 26 Weeks Gestation](#) - Silverman Trishelle & Sloan Patrick
-  [Neonatal CDH: Epidemiology, management and outcome](#) - Thamri Fatma
-  [Late-presenting CDH in children: one-center experience](#) - Thamri Fatma
-  [CDH and thoracic kidney: Case reports and literature review](#) - Thamri Fatma
-  [VIRTUAL - Right CDH with lung agenesis - case report](#) - Urquizo Lino Marcelo Mauricio

CDH 2024 Congenital Diaphragmatic Hernia Symposium

April 24 - 26, 2024

Le Nouveau Siècle, Lille, France & online

Lead organising committee

Alexandra Benachi, Hôpital Antoine-Béclère – Hôpitaux universitaires, Paris-Sud
Sébastien Mur, Lille University Hospital, Lille
Rachel Pamart, Lille University Hospital, Lille
Nicoleta Panait, Assistance Publique - Hôpitaux de Marseille, Marseille, France
Thameur Rakza, Lille University Hospital, Lille
Céline Rousset, Lille University Hospital, Lille
Laurent Storme, Lille University Hospital, Lille
Perspectives & Organisation, Villeneuve d'Ascq

Scientific committee

Alexandra Benachi, Hôpital Antoine-Béclère – Hôpitaux universitaires, Paris-Sud
Fanny Cauvet, Family representative, France
Jan Deprest, KU Leuven/UZ Leuven, Leuven, Belgium & University College London/King's College Hospital & Institute for Women's Health, London, UK
Matthew Harting, University of Texas/Children's Memorial Hermann Hospital, Houston, TX, USA
Hanneke IJsselstijn, Erasmus MC - Sophia Children's Hospital, Rotterdam, The Netherlands
Florian Kipfmüller, University Children's Hospital, Bonn, Germany
Carmen Mesas Burgos, Karolinska Institutet, Stockholm, Sweden
Neil Patel, The Royal Hospital for Children, Glasgow, UK
Natalie Rintoul, Children's Hospital, Philadelphia, PA, USA
Laurent Storme, Lille University Hospital, Lille
Katrin Zahn, University Hospital Mannheim, Mannheim, Germany

Invited speakers

Peta M.A. Alexander, Harvard Medical School/Boston Children's Hospital, Boston, MA, USA
Madeleine Aumar, University of Lille/University Hospital of Lille, France
Shazia Bhombal, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA
Katherine Brown, University College London/Children's Institute of Cardiovascular Science, London, UK
Paolo De Coppi, University College of London/Great Ormond Street Hospital, London, UK
Roland Devlieger, KU Leuven/ UZ Leuven, Leuven, Belgium
Marguerite Dunitz-Scheer, Graz Regional Hospital/NoTube, Graz, Austria
Holly Hedrick, Children's Hospital, Philadelphia, PA, USA
Richard Keijzer, University of Manitoba/Children's Hospital Research Institute, MB, Canada
Elsa Kermorvant, Hôpital Universitaire Necker Enfants Malades, Paris, France
Silja Kosola, University of Helsinki, Helsinki, Finland
Daniela Laux, Hôpital Universitaire Necker Enfants Malades, Paris, France
Florence Petit, Lille University Hospital, Lille, France
Andre Rietman, Erasmus University Medical Center, Rotterdam, Netherlands
Francesca Russo, UZ Leuven, Leuven, Belgium
Kelly Saint Denny, Lille University Hospital, Lille, France
Isabelle Talon, Hôpitaux Universitaires de Strasbourg, Strasbourg, France
Dick Tibboel, Erasmus MC University Medical Center/Sophia Children's Hospital, Rotterdam, Netherlands
David Tingay, The Murdoch Children's Research Institute/The Royal Children's Hospital, Melbourne, VIC, Australia
Richard Wagner, University Hospital, Leipzig, Germany
Katherine T. Wild, Children's Hospital, Philadelphia, PA, USA