cht 2022

childhealthtechnology
CONFERENCE

ONLINE   11-12 MAY 2022

Building a Global Child Health Technology Community

FULL PROGRAMME

NIHR | Children and Young People MedTech Co-operative

Marketing Sheffield

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Welcome

It is my pleasure to welcome you to the second Child Health Technology Conference, Child Health Technology 2022 (CHT2022).

We were delighted by the positive response to last year's inaugural CHT conference. We were joined by 238 delegates from 16 countries across the world, with both live and pre-recorded content stimulating conversations and connections that continue today.

Building on the success of CHT2021, we have reached out to colleagues from around the world to increase the reach of the child health technology community. This is reflected in the CHT2022 programme, where speakers from eleven countries are delivering an exciting two days of keynotes,

seminars, technology demonstrations, abstract presentations and live Q&A.

As we find ourselves in continued challenging circumstances, we will be drawing on the unique benefits of an online format to further our aim of creating a global CHT community. Furthermore, we will be adding to the conference activities and inviting delegates to participate in two sessions new to the CHT conference: a panel discussion with leading experts in artificial intelligence and data science, and an online networking session after our first day.

It is my sincere hope that by creating and strengthening these networks, we can work together towards much needed innovations to improve the lives of children and young people across the world.

Professor Paul Dimitri
Founder of the Child Health Technology conference

Wednesday 11th May

ON DEMAND CONTENT

Global CHT Centres of Expertise, Posters and Sponsors are available any time.

LIVESTREAM CONTENT

Time (GMT)	Session	Details
08.30 - 08.35	Welcome	**Professor Paul Dimitri** Director, *NIHR Children & Young People MedTech Co-operative*
08.35 - 09.25	Breakfast Seminar	**'Defining a Framework for the Future of Digital Health in Pediatric Growth Hormone Disorders'** Professor Paul Dimitri Director, *NIHR Children and Young People MedTech Co-operative* **'Measuring Children's Growth at Home using Augmented Reality Technology'** Professor Michael Hermanussen Professor of Pediatrics, *University of Kiel, Germany*
09.25 - 09.30	BREAK	
09.30 - 09.35	Welcome to the conference	**Professor Paul Dimitri** Director, *NIHR Children & Young People MedTech Co-operative*
09.35 - 10.05	Keynote	**'Technologies for health systems in low-resource settings – too much wishful thinking?'** Professor Mike English Professor of International Child Health, *Health Systems Collaborative, University of Oxford and the KEMRI-Wellcome Programme, England and Kenya*
10.05 - 10.35	Technology Demonstration	**'TytoCare'** Nicola Chicken Programme Manager, *Yorkshire and Humber Academic Health Science Network (YHAHSN)* Ellen Barnes Programme Manager, *Yorkshire and Humber Academic Health Science Network (YHAHSN)*

Wednesday 11th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
10.35 - 11.20	Seminar	**The potential of robotics for the development and wellbeing of children with disabilities** Professor Luc de Witte Head of the Research Group Technology for Health, *The Hague University of Applied Sciences, The Netherlands*
11.20 - 11.35	BREAK	
11.35 - 12.05	Keynote	**'Recipes for Engagement with Children and Young People'** Emma Sparrow Head of Children, Young People, and Engagement, *Royal College of Paediatrics and Child Health, England*
12.05 - 12.35	Abstract Presentations	**'Co-creation and dissemination of accessible, age-appropriate coronavirus explanatory information materials for children and families'** Dr Chris Evans Anaesthetic Doctor and Research Fellow, *University College London, England* **'Co-designing a Mixed Realities Playkit to prepare Children for an MRI Scan without a GA'** Dr Dylan Yamada-Rice Senior Research Manager, *Dubit* Dr Jill Thompson Senior Lecturer, *Sheffield Hallam University, UK* **'A Digital System of Care: Supporting Children with Mental Health Issues and Their Caregivers'** Professor Keith M. Owens & Professor Michael R. Gibson *The Department of Design,* *The University of North Texas, USA* **'PPI-driven development of novel devices and protocols for therapeutic drug monitoring in paediatric oncology'** Lisa Pfaffenrath *The Department of Chemical Engineering,* *University College London, UK*
12.35 - 13.00	LUNCH BREAK	

Wednesday 11th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
13.00 - 13.45	Seminar	**'Child Health Technology: Overlooked Opportunity'** John Parker Managing Parner, *Springhood Ventures, USA*
13.45 - 14.15	Keynote	**'Use of technology to support the repurposing of medicines for rare diseases in children'** Dr Georgia Tsiliki Chief Operating Officer, *Purposeful, Greece*
14.15 - 15.00	Seminar	**'Our story, the realities of medical device development and how clinicians can help'** James RobertsCo-founder and CEO, *mOm Incubators, England*
15.00 - 15.15	BREAK	
15.15 - 15.45	Keynote	**'Finding the Ladders and Avoiding the Snakes on the Technology Path in Child Health'** Dr Ian Newington Head of Special Projects, Innovation Programmes and Intellectual Property, *National Institute for Health and Care Research, England*
15.45 - 16.15	Abstract Presentations	**'Participatory design of a communication aid for pediatric emergencies: Learning from migrant patients and nurses'** Professor Dr Kerstin Denecke *Bern University of Applied Sciences, Switzerland* **'Non-contact neonatal monitoring and respiratory rate measurement using a 3D camera'** Alex Grafton**,** *The Department of Engineering, University of Cambridge, UK* **'Chatbot for Facilitating Family Conversations about Genetic Risk'** Susan Wakefield & Richard Moore *Sheffield Hallam University, UK* **'An end-to-end real-time situation awareness solution for in-patient deterioration for children in hospital: DETECT study'** Dr Gerri Sefton *Alder Hey Children's Hospital, UK*

Wednesday 11th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
16.15 - 17.00	Panel Discussion	**'Moon Shot Mission: Panel discussion on the transformative power of healthcare data sharing'** David Cole (Chair) Co-Founder, *Thinking of Oscar,* Europe, Middle East, and Africa Leader, *IBM Healthcare Consulting, England* Dr Timothy Chou BevelCloud Founder and Lecturer on Cloud Computing, *Stanford University, USA* Dr Alberto Tozzi Paediatrician and Epidemiologist, *Bambino Gesù Children's Hospital, Italy*
17.00 - 17.30	Keynote	**'The importance of diversity in child health technology'** Richard Stubbs CEO, *Yorkshire and Humber Academic Health Science Network, England*
17.30 - 17.45	BREAK	
17.45 - 18.30	Online Networking Session Please follow the link in the conference portal.	

Thursday 12th May

ON DEMAND CONTENT

Global CHT Centres of Expertise, Posters and Sponsors are available any time.

LIVESTREAM CONTENT

Time (GMT)	Session	Details
08.30 - 08.35	Welcome	**Professor Paul Dimitri** Director, *NIHR Children & Young People MedTech Co-operative*
08.35 - 09.25	Breakfast Seminar	**'Technology for Child and Adolescent Mental Health'** Dr Terry (Theresa) Fleming Associate Professor, *Victoria University of Wellington, New Zealand* **'Digital models of care for child and adolescent anxiety'** Professor Sonja March Professor of Psychology and Director of the *Centre for Health Research, University of Southern Queensland, Australia*
09.25 - 09.30	BREAK	
09.30 - 09.35	Welcome	**Professor Paul Dimitri** Director, *NIHR Children & Young People MedTech Co-operative*
09.35 - 10.20	Seminar	**'Creating a Learning Televillage with a Data-Driven Child Health Ecosystem In Singapore & Beyond'** Associate Professor Ng Kee Chong Senior Consultant, Chairman Medical Board, *KK Women's and Children's Hospital, Singapore*
10.20 - 10.50	Abstract Presentations	**'"Moving On Asthma", an educational video resource for young people with asthma'** Professor Heather Elphick Consultant in Paediatric Respiratory Medicine, *Sheffield Children's Hospital, UK*

Thursday 12th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
10.20 - 10.50	Abstract Presentations, *continued*	**'HYPO-CHEAT: Improving the efficacy, cost and global scope of CGM for hypoglycaemia prevention'** Dr Chris Worth, *Royal Manchester Children's Hospital & University of Manchester, UK* **'Personalised healthcare monitoring platform for improving care-pathways & QOL outcomes in children & young people with disabilities'** Saran Muthiah, Founder/CEO, *EnrichMyCare, UK* **'Adoption of rehabilitation technology: Using a participatory design to identify Strengths, Weaknesses, Opportunities and Threats'** Professor Patrice L. (Tamar) Weiss Director, *Laboratory for Innovations in Rehabilitation Technology (LIRT) at the University of Haifa, Isreal*
10.50 - 11.20	Keynote	**'The role of YPAGs in Med Tech development - advantages, challenges and limitations of involving CYP and the barriers to ensuring diversity in PPI groups.'** Dr Pamela Dicks Young Person's Advocacy Lead and Network Manager, *NHS Scottish Children's Research Network, Scotland*
11.20 - 11.35	BREAK	
11.35 - 12.05	Keynote	**'Child Healthtech Innovation: UK & Global Perspectives'** Richard Hebdon Director for Health and Life Sciences, *Innovate UK, England*
12.05 - 12.50	Seminar	**'National Institute for Health and Care Research Children and Young People MedTech Co-operative: Creating a CHT Community'** Jacob Branchflower, Mr Iain Hennessey, Professor Don Sharkey and Jennifer Preston *National Institute for Health and Care Research Children and Young People MedTech Co-operative*

Thursday 12th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
12.50 - 13.30	LUNCH BREAK	
13.30 - 13.45	Keynote	**'Building Global Partnerships between Digital Health Startups and Children's Hospitals'** Dana Le Accelerator Lead, *KidsX, USA*
13.45 - 14.20	Technology Demonstration	**'vCreate Neuro'** Professor Sameer Zuberi Co-Designer, *vCreate*
14.20 - 15.00	Seminar	**'Involving children and young people in health technology: lessons learned and pending subjects'** Begoñya Nafría Escalera Patient Engagement in Research Coordinator, *Sant Joan de Déu Children's Hospital, Spain*
15.00 - 15.30	Keynote	**'The Starworks Child Prosthetics Research Network: Collaboration and community-building for innovative technology development'** Nathaniel Mills, Abigail Needham, Dr Joe Langley and Dr Gemma Wheeler *The Starworks Network*
15.30 - 15.45	BREAK	
15.45 - 16.30	Seminar	**'Lab4Living: Co-designing Child Health Technology'** Ursula Ankeny (Presenter) Dr Joe Langley, Dr Rebecca Partridge, Chris Redford (Live Q&A) *Lab4Living, Sheffield Hallam University, UK*
16.30 - 17.00	Abstract Presentations	**'Using Machine Learning to Predict the Risk of Children Not Being Brought to Booked Appointment'** Dr Olufemi Olajide Senior Data Scientist, *Alder Hey Children's Hospital, Liverpool, UK*

Thursday 12th May

LIVESTREAM CONTENT, continued

Time (GMT)	Session	Details
16.30 - 17.00	**Abstract Presentations,** *continued*	**'Co-creating innovative animations to communicate child health services to families and providers'** Dr Emily Wright & Professor Sonja Pedell *Swinburne University of Technology, Melbourne, Australia*
		'Development and Control of a Robotic Simulator for Peristaltic Motion' Jarrett Ten *Automatic Control and Systems Engineering Department, University of Sheffield, UK*
		'Co-developing a text message-based bedtime routines intervention for families with young children' Dr George Kitsaras *University of Manchester, UK*
17.00 - 17.45	Seminar	**'Environmental Sustainability in Health Care'** Dr Jodi Sherman Associate Professor of Anaesthesiology, and Epidemiology in Environmental Health Sciences, *Yale University, USA*
17.45 - 17.50	Close	**Professor Paul Dimitri** Director, *NIHR Children & Young People MedTech Co-operative*

Conference closes

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