



I have been in paediatrics for over 30 years, having undertaken 8 years of general paediatrics in India and UK before jumping ship to the dark side (cardiology) in the late 90s. I did my initial cardiology training at Glenfield, and came to Birmingham (BCH) in 2003, and have never moved from there.

I am a paediatric cardiologist with interests in cardiac imaging (cardiac ultrasound, MRI/CT & dynamic assessments) and assessment of heart function. Currently, we are starting to develop 3D modelling and the use of VR in complex congenital hearts.

I am developing an Inherited & Acquired Heart Diseases Programme in Paediatrics with particular interests in Aortopathy, cardiomyopathy, metabolic & neuromuscular conditions; two of my other colleagues are helping cover the heart transplant, arrhythmia and devices aspect. I also

have an interest in cardiac screening.

During the pandemic, I took a lead role in looking at children & young people with PIMS-TS & Covid with a particular focus on cardiovascular involvement.

I have been instrumental in driving for a highly developed paediatric cardio-oncology service in our region; this new specialty needs further development and exposure, and we are at the front of this.

Within structural heart defects, I have a particular interest in congenitally corrected Transposition and the Fontan circulation.

I have published 15 papers in the last 4 years in peer reviewed journals focusing on my interests.

I am part of a core team working with our colleagues at Serdang Hospital, KL, Malaysia to support and develop a single ventricular programme there and have regular multi-disciplinary meetings to discuss complex cases.

I was the Clinical Lead for Cardiac Services at Birmingham Children's Hospital till 2019 when I took over as the Director of Congenital Heart Disease (CHD) across the West Midlands. I have been involved in training & developing cardiology across the network work closely with NHS England to maintain our standards & support other Networks across the country.

I am driving transformation to bring us out of traditional silos and increase the participation of cardiac nurses, physiologists & other healthcare professionals in taking on independent roles within service provisions coming in line with international & adult practices.

Publications:

In print:

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2. Bourke, J et al. Cardiac care of young people with dystrophinopathy and females carrying DMD-gene variations. *Open Heart* 2022

Published articles:

1. Syrimi E, Fennell E, Richter A, Vrljicak P, Stark R, Ott S, Murray PG, Al-Abadi E, Chikermane A, Dawson P, Hackett S, Jyothish D, Kanthimathinathan HK, Monaghan S, Nagakumar P, Scholefield BR, Welch S, Khan N, Faustini S, Davies K, Zelek WM, Kearns P, Taylor GS. The immune landscape of SARS-CoV-2-associated Multisystem Inflammatory Syndrome in Children (MIS-C) from acute disease to recovery. *iScience* 2021 Nov 19;24(11):103215. (Epub 2021 Oct 2)
2. Middelburg JG, Crijnen TEM, D'Antiga L, Verdoni L, Chikermane A, Garg P, Acharyya BC, Pruccoli G, Schnapp A, Rauf A, Middelburg RA. *Pediatr. Association of Ethnicity With Multisystem Inflammatory Syndrome in Children Related to SARS-CoV-2 Infection: An International Case-Referent Study.* 2021 Oct 15;9:707650.
3. Perez-Toledo M, Faustini SE, Jossi SE, Shields AM, Marcial-Juarez E, Kanthimathinathan HK, Allen JD, Watanabe Y, Goodall M, Willcox BE, Willcox CR, Salim M, Wraith DC, Veenith TV, Syrimi E, Drayson MT, Jyothish D, Al-Abadi E, Chikermane A, Welch SB, Masilamani K, Hackett S, Crispin M, Scholefield BR, Cunningham AF, Richter AG. SARS-CoV-2-specific IgG1/IgG3 but not IgM in children with Pediatric Inflammatory Multi-System Syndrome. *Pediatr Allergy Immunol* 2021 Jul; 32(5):1125-1129.(Epub 2021 Apr 18)
4. Gucht IV et al. A human importin- β -related disorder: Syndromic thoracic aortic aneurysm caused by bi-allelic loss-of-function variants in IPO8. *Am J Hum Genet.* 2021 Jun 3;108(6):1115-1125. (Epub 2021 May 18).
5. Harwood R et al. A national consensus management pathway for paediatric inflammatory multisystem syndrome temporally associated with COVID-19 (PIMS-TS): results of a national Delphi process. *Lancet Child Adolesc Health* 2021; 5:133-41 (pub online 2020 Sep 18)
6. Perez-Toledo M, Faustini SE, Jossi SE, Shields AM, Marcial-Juarez E, Kanthimathinathan HK, Allen JD, Watanabe Y, Goodall M, Willcox BE, Willcox CR, Salim M, Wraith DC, Veenith TV, Syrimi E, Drayson MT, Jyothish D, Al-Abadi E, Chikermane A, Welch SB, Masilamani K, Hackett S, Crispin M, Scholefield BR, Cunningham AF, Richter AG. SARS-CoV-2-specific IgG1/IgG3 but not IgM in children with Pediatric Inflammatory Multi-System Syndrome. *Pediatr Allergy Immunol* 2021 Jul; 32(5):1125-1129.(Epub 2021 Apr 18)
7. Darren A, Osman M, Masilamani K, Habib Ali S, Kanthimathinathan HK, Chikermane A, Al-Abadi E, Welch SB, Hackett S, Scholefield BR, Uday S, Jyothish D. Vitamin D status of children with Paediatric Inflammatory Multisystem Syndrome Temporally associated with Severe acute respiratory syndrome coronavirus 2 (PIMS-TS). *Br J Nutr* 2021 May 12;1-26.

8. Valverde I et al. Acute Cardiovascular Manifestations in 286 Children With Multisystem Inflammatory Syndrome Associated With COVID-19 Infection in Europe. *Circulation*. 2021 Jan 5;143(1):21-32. (Epub 2020 Nov 9)
9. Perez-Toledo M, Faustini SE, Jossi SE, Shields AM, Kanthimathinathan HK, Allen JD, Watanabe Y, Goodall M, Wraith DC, Veenith TV, Drayson MT, Jyothish D, Al-Abadi E, Chikermane A, Welch SB, Masilamani K, Hackett S, Crispin M, Scholefield BR, Cunningham AF, Richter AG. Serology confirms SARS-CoV-2 infection in PCR-negative children presenting with Paediatric Inflammatory Multi-System Syndrome. *medRxiv*. 2020 Jun 7:2020.06.05.
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