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Assessment of the prevalence of neurodevelopmental defects in patients with CHD patients in Wad Madani heart center, July 2018

Background: It is now well-appreciated that impaired fetal brain development and circulation, coexisting genetic syndromes, and pre-and postsurgical hemodynamic instability are equally important factors contributing to brain injury and neurodevelopmental outcome. Distinctive neurodevelopmental profiles in children with CHD are now recognized and include problems. With great advancements in the medical field and surgery, an impressive 90 percent of infants born with a congenital heart condition are able to survive until adulthood. The majority of these infants, however, often suffer from health problems including heart arrhythmia, neurodevelopmental deficiencies, autism and respiratory issues.

Method: We have started to work in Pediatric Cardiology clinic, checking the patients there, using cross-sectional study method after ethical approval from The Wad Madani heart center based on ethical committee of University of Gezira, Faculty of Medicine and Ministry of Health, which it may upgraded to large-scale longitudinal study and the measures will include behavioral data from 4-year-old neurodevelopmental evaluations and parent-report data from a later annual follow-up. We started to collect information from patients and co-patients after taking their permissions with a written consent.

Result: The results still under analysis and continuous collection of data.

Conclusion: With general positive results regarding the spreading of neurodevelopmental defects and Autism spectrum disorders which need focus from the medical teams throughout the world.

Biography

Anmar Homeida is Graduated from Gezira University, Faculty of Medicine. He is the Founder, Team Leader, Executive Director of Sudanese Medical Innovation Community-Medical Education Development and Research Centre-Faculty of Medicine-University of Gezira. He is also the Facilitator, Organizer and Founder of Startup Weekend Health, Wad Medani. He is the Founder, Curator and Primary Organizer of TEDxGeziraUniversity.

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