

## Association of consanguinity with congenital heart diseases in a teaching hospital, Western Iraq

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Congenital heart diseases (CHD) are one of the most common congenital anomalies. Consanguineous parents had significantly higher incidence of CHD affected children than non-consanguineous families. Incidence ranges from 0.5-0.8% in live births, and more in abortions, stillbirths and premature deliveries. This research planned to study the types of CHDs, causes of hospital admission, and the risk of consanguinity for these anomalies, applied in Al-Ramadi MCH teaching hospital, western Iraq, from January 2009 to 2010. Data included the patient's name, age, gender, cause of admission, and type of CHD, parent's age, residence, degree of consanguinity, and history of recurrent CHDs. Recorded cases were 86 different CHDs, selected controls were 258 non-CHD cases. Consanguinity recorded in 78% of cases and 43.3% controls. First cousin consanguinity comprised 66.2% of cases and 35.6% controls. The prevalence of CHD was 10.1/1000 of hospital admissions, affecting 58.1% males and 41.9% females, 79% of cases found acyanotic and 21% cyanotic CHDs, 17% presented with more than one CHD, 59.3% admitted for chest infections, and 18.7% were undiagnosed cases admitted for another disease, with 94% found having subtle acyanotic CHD. The most common recorded cases were VSD, ASD and ToF. and 22% of cases, mainly ASD & VSD types, found associated with family recurrence of another CHD. Consanguinity found more with ASD, then with VSD, PS, Ebstein's and ToF anomalies, and was found a significant risk factor for VSD and ASD, but not ToF anomalies, while parental age and infant's gender found not risk factors for these anomalies.

### Biography

Zaid Rasheed Al-Ani has completed his Bachelor of Medicine at age of 24 from Al-Basrah University, Iraq, in 1978, and candidates for Arabic Board of Pediatrics (CABP) from Baghdad University in 1992. He is the Head of Department of Pediatrics of the Medical College, Al-Anbar University, Iraq, and the Senior Teaching Staff for Undergraduates and DCH & Arabic Board Postgraduates, and Senior Consultant Pediatrician in Al-Ramadi MCH Teaching Hospital, and the Director of the "Western Iraq Center for Congenital Anomalies Registry and Surveillance" (WICCARS). He has published more than 10 papers in reputed journals on different topics in pediatrics.

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