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Congenital anomalies and genetic diseases are common association of pediatric pulmonary hypertension (PH) in a tertiary care center in Saudi Arabia

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Objective: To identify the different congenital anomalies that are associated with in referred cases to the Pediatric Pulmonary clinic in a tertiary care center in Saudi Arabia.

Methods: Retrospective chart review of all referred patients to pulmonary clinic with documented PH based on cardiac catheterization and or Echocardiogram during 10 years period (Jan 2001- Dec 2011).

Results: A total of 150 patients with confirmed PH. Mean age at diagnosis 3.2 years. 141 (94%) patients were PH and associated disease and 9 patients (6%) due to idiopathic PH. PH in association with Congenital anomalies and Genetic diseases were found in 95 (63%) of patients. Of the most common genetic diseases were: Down syndrome in 63 (42%) of the total PH population, Known syndrome in 15 (10%), as Holt-Oram syndrome, CHARGE association, and maple syrup urine disease. un- known syndrome were found in 17 (11%) such as patients with multiple congenital anomalies, Skeletal Dysplasia, chromosomal abnormalities and central nervous system diseases. 34 patients (23%) due to lung diseases and lung anomalies such as lung hypoplasia, congenital lobar emphysema and diaphragmatic hernia. Combination of Gastrointestinal anomalies and kidney diseases in 6(4%) patients and malignancies in 6(4%).

Conclusions: Congenital anomalies are common association in patients with pulmonary hypertension. Recent classification should include congenital anomalies as part of the Pediatric classification.

Biography

Hanaa Banjar is an Associate Professor of Pediatrics and Pediatric Pulmonology, Al-Faisal University, Saudi Arabia. He is also a Consultant of Pediatric Pulmonology, Department of Pediatrics at King Faisal Specialist Hospital and Research Centre. He had done his MD during 1983 in Saudi Arabia, and 4 years Pediatric residency from Ottawa University, Canada during 1989, and Pediatric Pulmonary fellowship from McGill University, Canada in 1992. He is working as a Consultant Pediatric Pulmonology from 1993- till date. His main research interest is lung diseases and pulmonary hypertension. He has chaired many conferences on this subject and he is an active fellow of the Pulmonary vascular Institute based in UK from the year 1997.

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