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The most common genetic disease in Hail and diseases related to consanguinity

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Background & Objective: There are common genetic diseases in Hail, but the information about them are still limited. The objective of this cross-sectional study was to detect the most common genetic disease and the risk factor of consanguinity on genetic diseases in Hail.

Subjects & Methods: The study samples were determined by multistage probability random sampling procedure in Hail city was about personal information, family history and questions about diseases if found. Genetic diseases were obtained from 500 papers and electronic questionnaires. The data was analyzed by using SPSS and calculator.

Results: The proportions of genetic diseases were ordered from highest to lowest as follows: type 1 diabetes mellitus (20%), congenital heart disease (9%), breast cancer (8.2%), Down syndrome (6.4%), sickle cell disease (3.8%), muscular dystrophy (1.8%) and thalassemia (1%). However, 49.6% of samples was showed about consanguineous. The proportions showed thalassemia was the highest disease affected by consanguinity relationship (100%, $p=0.023$), followed by sickle cell disease (73.68%, $p=0.032$) and breast cancer (34.14%, $p=0.039$).

Conclusion: The data suggested that the most common genetic disease in Hail is type1 diabetes mellitus and consanguinity is one of the risk factor in some of these genetic diseases such as thalassemia, sickle cell disease and breast cancer.

Biography

I am Kholoud Mokhtar Al-Azmi is from the College of Medicine, University of Hail, Hail, Saudi Arabia. I have 22 years old. I still a student at colleage of Medicine in 5th year, I have done research in genetics and diseases related to consanguinity and I submitted an article on this topic and the most common genetic disease in Hail is Type 1 Diabetes Mellitus and consanguinity is one of the risk factor on some of these genetic diseases as Thalassemia.

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