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DNA Banking of Primary Immunodeficiency Disorders in Iran

"Anna Isaian, Mostafa Moin, Zahra Pourpak, Nima Rezaei, Asghar Aghamohammadi, Masoud Movahedi, Mohammad Gharagozlou, Javad Ghaffari, Fariborz Zieh, Mahboubeh Mansouri, Abolhassan Farhoudi "

Abstract:

Primary immunodeficiency disorders are a heterogeneous group of genetic disorders, with different modes of inheritance, consisting of more than 100 different types. We constructed the DNA banking of primary immunodeficiency disorders for the first time in Iran. The DNA of 31 immunodeficient patients and their families (total of 92 samples) were collected, as the first step for construction of DNA banking. DNA was isolated from whole blood by salting out method. Among our patients, Common variable immunodeficiency was the most common disorder, followed by X-linked agammaglobulinemia, Ataxia-telangiectasia, Chronic granulomatous disease, Severe combined immunodeficiency, Hyper IgM syndromes, and Leukocyte adhesion defects. DNA banking is a useful method for further detection of mutation in immunodeficient patients and prenatal diagnosis for presence or absence of the disorder in the fetus which can be confirmed by molecular genetics testing.

Keywords:

[DNA banking](#) . [Primary Immunodeficiency Diseases](#)

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