Risk genes and autoantibodies in Egyptian children with type 1 diabetes—low frequency of autoantibodies in carriers of the HLA-DRB1* 04: 05–DQA1* 03–DQB1* 02 risk haplotype

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Abstract:

Background The study aimed to define the frequencies of type 1 diabetes-associated gene polymorphisms and their associations with various diabetes-associated autoantibodies in Egyptian children. Methods One hundred and one children with type 1 diabetes and 160 healthy controls from the same region were studied for HLA-DQB1, HLA-DQA1, and HLA-DRB1 (DR4 subtypes) alleles; for INS and protein tyrosine phosphatase, non-receptor type 22 gene polymorphisms (rs689 and rs2476601); and for diabetes-associated

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