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The profile of anti-glutamic acid decarboxylase autoantibodies in type 1 diabetes mellitus children in Dr. Soetomo Hospital Surabaya

Muhammad Faizi, Nur Rochmah, Agus Budiarto and Priya Arrachman
Airlangga University- Dr. Soetomo Hospital Surabaya, Indonesia

Background: Mostly, type 1 diabetes mellitus (T1DM) is caused by pancreatic beta cell damage by autoimmune process which leads to reduced insulin production. Autoantibodies related to T1DM are islet-cell antibodies (ICA), insulin autoantibodies (IAA), tyrosine phosphatase autoantibodies (IA-2A) and glutamic acid decarboxylase (GAD). The profile of anti-glutamic acid decarboxylase autoantibodies in type 1 diabetes mellitus children in Dr. Soetomo Hospital Surabaya is still unknown.

Objective: The objective of the study is to determine the profile of anti-glutamic acid decarboxylase autoantibodies in type 1 diabetes mellitus children in Dr. Soetomo Hospital Surabaya.

Methods: This cross sectional study evaluated children with T1DM in Pediatric Endocrinology Outpatient Clinic of Dr. Soetomo Hospital during January-March 2017. We diagnosed T1DM based on consensus of Pediatric Endocrinology Working Group, Indonesian Pediatric Society. The presence of anti-GAD in serum was detected by anti-GAD65 commercial kit. Duration of illness referred to time from T1DM diagnosed until anti-GAD examination.

Results: There were 32 children with T1DM, 50% males. The mean age at diagnosis was 9.75 (SD 2.52, range 4-14) years. The median of duration of illness was 3.5 (range 1-11) years. The anti-GAD was positive in 30 (93.8%).

Conclusions: Anti-GAD test is positive in majority children with T1DM and still persist for long periods since T1DM diagnosed.

Biography

Muhammad Faizi is currently working as Lecturer at the Department of Pediatrics, Faculty of Medicine, Airlangga University- Dr Soetomo Hospital. Surabaya, Indonesia.

dr.fayzi@gmail.com
muhammad_faizi@yahoo.com

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