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Clinical characteristics of Japanese patients with autoimmune polyglandular syndrome type 3a

Autoimmune polyglandular syndrome (APS) is an autoimmune disease that involves multiple organ failure. In APS type 3 (APS3), autoimmune thyroid disease occurs with other autoimmune diseases, but not with Addison disease. APS3a is defined as APS3 including autoimmune diabetes. The information about clinical backgrounds of APS3a is very limited. We retrospectively picked up and studied patients with type 1 diabetes and autoimmune diabetes, who showed the positivity for anti-glutamic acid decarboxylase antibody (anti-GAD ab) or anti-islet antigen 2 antibody (anti-IA2 ab) or anti-thyroglobulin antibody (anti-TG ab) or anti-thyroid peroxidase antibody (anti-TPO ab) or anti-thyroid stimulating hormone receptor antibody (anti-TR ab) between January 2010 and January 2016. Present study revealed a remarkable female predominance in APS3a. Among patients with autoimmune diabetes, slowly progressive insulin-dependent diabetes mellitus (SPIDDM) was the most common type of diabetes, and almost 80% of patients with APS3a showed the positivity for anti-GAD ab. Among patients with autoimmune thyroid diseases, almost 80% of patients had possible Hashimoto thyroiditis. Almost 70% of patients with APS3a showed the positivity for anti-TPO ab. Almost 20% of APS3a patients had possible Grave's disease and 83% of patients with possible Grave's disease showed overt Grave's disease. In patients with possible Grave's disease, the positive rate of anti-TR ab was 100%. In conclusion, we revealed clinical, endocrinological and immunological characteristics of patients with APS3a in Japan.

Biography

Hidekatsu Yanai, MD, PhD, Fellow of American College of Physicians (FACP), is the Director of the Department of Internal Medicine and Clinical Research and Trial Center, National Center for Global Health and Medicine Kohnodai Hospital, Japan. He obtained his MD and PhD degrees in National Defense Medical College and Hokkaido University School of Medicine, respectively. He studied as Invited PhD Research Fellow in the National Institutes of Health (NIH), USA (2002-2004). He is the Editor-in-Chief of *Journal of Endocrinology and Metabolism* and also an Editorial Board Member of ten medical journals. He has 153 published papers in refereed medical journals.

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