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Examination of co-existence and connection of thyroid autoantibodies with the antinuclear antibody (ANA) positivity

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Aim: This study was aimed to examine co-existence and connection of the thyroid autoantibodies such as anti-tiroglobulin (Anti-Tg), anti-peroxidase (Anti-TPO) and anti TSH receptor antibody (TRab) with the ANA positivity.

Methods: 42 samples which anyone of the thyroid autoantibodies positive and also evaluated for ANA test status for routinely in Microbiology Laboratory of Afyon Kocatepe University, ANS Research and Practice Hospital between June 2013 and May 2014 were included in the study. ANA test studied by using indirect immunofluorescence antibody test method (EUROIMMUN) and anti-Tg and anti-TPO were investigated by using immunoblotting method (EUROIMMUN) and TRab was by using enzyme linked immunosorbent assay (DiaMetra).

Results: In this study; 42 patients with one or more thyroid autoantibody test positive and ANA test applied were included. Half of the totally included patients (21, (50%)) were ANA negative and the other half (21, (50%)) were positive. Homogen pattern was founded as the most frequent pattern (38.1%) and nuclear granular pattern was as 33.4%. Of the anti-TPO studied 42 patients; 18 were the both together positive with ANA, 41 anti-Tg6 and 21 TRab 4 were both positive with ANA. When we compare ANA positivity rate in the any one of the thyroid autoantibody positive group (50%) with normal population (23.8%), there was no statistically significance (Fisher test $p>0.005$).

Conclusions: Accomplishment possibility of the other ANA positive systemic collagen diseases to diagnose autoimmune thyroiditis ANA profiles should be monitored in surviving the autoimmune thyroid diseases.

Biography

Recep Kesli was graduated from Erciyes University, Faculty of Medicine. He has obtained Microbiology Specialist title in 2001. He is working at Afyon Kocatepe University, School of Medicine as an Associate Professor and Chair. He has published a book and wrote many book chapters. His areas of interests are diagnostic techniques of HCV, *Helicobacter pylori* and anaerobic bacteria. He has also published articles in international SCI/SCIE and national journals (more than 60) in Turkish and English.

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