INTRODUCTION

The evolution of Hashimoto Thyroiditis (HT) has been investigated by several studies both in pediatric and adult age. However, there are limited data on the progression of the disease from childhood to adulthood.

AIM

Aim of the study was to describe the evolution of thyroid function in children with HT from childhood to young adulthood.

METHOD

The diagnosis of HT was defined by the presence of anti-thyroid peroxidase antibodies (AbTPO) and/or anti-thyroglobulin antibodies (AbTg), and the typical hypoechoic ultrasound pattern. Patients with chromosomal abnormalities were excluded. We reviewed the medical charts of 131 children (median age 10.5 (3.33-17.5) years, 104 females) seen for HT in 2006 at the Pediatric Endocrine Unit of the Pediatric Hospital Microcitemico in Cagliari. Personal and medical history, clinical evaluation and laboratory data collected during the first visit were reported as well as data referring to the follow-up and the last visit (median age: 18 years (10.33-33.5)). Then, all the patients, that had reached adult age by that time, were called by Endocrine Adult Clinic and for 50 of them data regarding their last endocrinological visit were reported (median age: 18 years (10.33-33.5)).

Between the last pediatric visit and the last endocrinological visit (table 1), 70.4% of 27 young adults were still euthyroid, while 25.9% developed OH (figure 2).

Considering the interval (table 1) between the first pediatric visit and the last available endocrinological visit, 58.6% of 29 euthyroid children and adolescents were still in this condition while 38% have developed OH. In contrast, 82.4% of the 17 patients with initial SH have developed OH (figure 3).

Euthyroidism was maintained in 82.5% of patients during the pediatric age, in 70.4% after pediatric age and in 58.6% of patients after a long-term follow-up. Euthyroidism and SH progressed to OH in 38% and 82.4% of cases respectively. Further studies are required to define possible HT progression predictive factors.

CONTACT INFORMATION

Dr. Francesco David
francescodavid14@gmail.com