

ABSTRACT

Diabetes mellitus (DM) and thyroid function disorders are two endocrinopathic abnormalities that often cause typical and mild symptoms so that the determination of the diagnosis of functioning disorders requires laboratory tests. It is important in determining the diagnosis of thyroid disorders Among other things include the levels of thyroid hormone (T4) and thyroid stimulating hormone (TSH) with an examination of HbA1c blood glucose levels. The purpose of this study is to determine the relationship of thyrosin levels (T4) and thyroid stimulating hormone on Hypotheliroid patients with accompanying DM.

Methods This research uses a cross sectional correlative method. Analysis of the data collected were 21 respondents. Serum T4 and TSH levels were checked using the ECLIA method and EDTA blood HBA1c examination using the HPLC method. Data collection was carried out at the Clinical Pathology Laboratory of RSPAL Dr.Ramelan Surabaya, with a period of January - March 2022 by purposive sampling.

The results showed that the respondents were female 17 and male 4. Based on the sperm correlation test, it was found that Sig $r = 0.251$ ($p > 0.05$) between T4 and TSH levels. H1: Rejected means that there is no relationship between the variables of T4 levels and TSH levels with HBA1c in Hypothyroid patients with DM at the RSPAL Dr. Ramelan Surabaya.

Keywords: Serum T4, TSH levels, HBA1c blood levels of EDTA patients with hypothyroidism