



TSH LEVELS IN POLYCYSTIC OVARIAN SYNDROME ACCORDING TO BODY MASS INDEX

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It has been suggested that there is possible relationship between thyroid hormones and adipose tissue metabolism in humans. This association in women with polycystic ovarian syndrome is not well documented so far. The aim of this study is to evaluate thyroid function and its possible association with body mass index (BMI) according normal <25, overweight 25-29.9 and obese ≥ 30 euthyroid PCOS women. One-hundred and three patients from a gynecologic outpatient clinic with PCOS diagnosis were studied, and their TSH were measured. The study was approved by our IRB in Hospital de Clínicas de Porto Alegre-Brazil. The mean age among the groups were 27.9 (6.5), 28.5(5.4) and 27.8(6.2) ($P=0.8$ ANOVA). The median TSH levels per BMI group (normal, overweight and obese) were 1.63 (0.5-3.2), 1.9 (0,65 and 2.9) and 2.3 (1-15) respectively. [Kruskal Wallis test ($P=0.009$) (difference on normal vs obese)]. In conclusion, obese PCOS patients have a higher median levels of TSH, compared to normal BMI in PCOS women.