



International Conference on Modern Science and Scientific Studies

Hosted online from Madrid, Spain

Website: econfseries.com 20th February, 2025

CHANGES IN THYROID TISSUE IN WOMEN OF CHILDBEARING AGE WHO HAVE HAD SARS-COV-2 INFECTION

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Abstract

Fergana region is an area with severe iodine deficiency and has one of the highest rates of thyroid diseases in the country. Various complications affecting the thyroid gland have been observed following SARS-CoV-2 infection. This study aims to examine changes in the thyroid tissue of women of childbearing age residing in the Fergana region after recovering from COVID-19.

Materials and Methods

The study involved 100 women of childbearing age who were under medical supervision at the Fergana Regional Endocrinology Dispensary. Clinical, laboratory, hormonal, ultrasound, and histological examinations were conducted, and the results were analyzed.

Results and Discussion

Ultrasound examinations of the thyroid gland in women who had COVID-19 revealed the following changes: 20% had diffuse thyroid enlargement (Grade I-II), 33% had autoimmune thyroiditis (AIT), 15% had nodular goiter, 17% had diffuse toxic goiter, and 9% had multinodular goiter. Among 48 women with nodules detected by ultrasound, 52% were classified as TIRADS 2, 25% as TIRADS 3, 18% as TIRADS 4, and 2 cases were classified as TIRADS 5. Fine-needle aspiration biopsy (FNAB) was performed on all 23 patients with nodules classified as TIRADS 3 or higher. FNAB results showed that 12 patients (52%) fell under Bethesda category 3, 10 patients (43%) under Bethesda category 4, and 2 patients (8%) under Bethesda category 5.

Conclusion

In women of childbearing age residing in the Fergana region who had COVID-19, ultrasound examinations revealed an increase in the prevalence of nodular and





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multinodular goiter. Histological analysis of the nodules showed that two patients (Bethesda category 5) were diagnosed with thyroid cancer following COVID-19 infection. These findings suggest that COVID-19 may contribute to the progression of thyroid nodules and the development of thyroid cancer.

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