

## Thyroid Dysfunction in Patients with Chronic Hemodialysis

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**Abstract :** Thyroid dysfunction in hemodialysis subjects is represented mainly by hypothyroidism. The objective of our work is to determine the thyroid profile of our hemodialysis patients and to highlight the prevalence of different thyroid disorders. Methods: This is a retrospective study performed on a mono centric 2 months (February and March 2013) on 42 hemodialysis patients (11 male and 31 female). We made the dosage of thyroid hormones Thyrotropin (TSH) ((free thyroxin ) FT4 and free Triiodothyronin ) FT3) by chemiluminescence immunoassay method on cobas 6000 Roche Diagnostics. The results: The prevalence of biological hypothyroidism was 18% (7% with a high TSH isolated and a mean  $\pm$  SD 9.44  $\pm$  6.29, 5% with high TSH, and with low FT4 a mean  $\pm$  SD is 8.18  $\pm$  0.53 for TSH and 9.69  $\pm$  0.22 for FT4, One patient with a high TSH, and low FT4, FT3. 4% of patients with a low T3 syndrome with a mean  $\pm$  SD of 3.93  $\pm$  0,3 for FT3), we notice that 5% of patients with hyperthyroidism TSH collapsed and mean  $\pm$  SD of TSH is 0.017  $\pm$  0,001. Conclusion: The biological Hypothyroidism is a common endocrine disorder in chronic hemodialysis.

**Keywords :** hypothyroidism, hemodialysis, thyreostimulin, free thyroxin, triiodothyronin

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