

# **Evaluation the effects of Levothyroxin on patients with chronic pruritus and anti-TPO+**

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## **Introduction:**

Urticaria was a skin lesions of varying size that are characterized with erythematous plaque with regular or irregular margins in the red, sometimes with a red pressure goes away. The aim of this study was evaluation the effects of Levothyroxin on patients with chronic oruritus and anti-TPO<sup>+</sup>.

## **Methods:**

In a clinical trial study tha performed in departmet of edocrinloghy and metabolism of Tabriz University of Medical Sciences on patients with chronic pruritus, the effects of Levothyroxin on patients with chronic oruritus and anti-TPO<sup>+</sup> evaluated.

## **Results:**

Mean age of case groups patients was  $32.30 \pm 9.99$  year and mean age of control groups patients was  $36.83 \pm 11.92$  ( $P=0.085$ ). Two patients of case group and 3 patients of control group were male and 34 patients of case group and 33 patients of control group were female ( $P=0.500$ ). Before of study; in case group, 12 of patients had mild pruritus, 18 of them had moderate pruritus and 6 of them had sever pruritus. In control group, 6 of patients had mild pruritus, 22 of them had moderate pruritus, 7 of them had sever pruritus and one of them had very sever ptutitus. Significant difference was not found between pre-study pruritus severity of patients and two groups was matched in pre-study pruritus severity ( $P=0.142$ ). At the end of study; in case group, 20 of patients had mild pruritus, 6 of them had moderate pruritus and 10 of them had no pruritus. In control group, 16 of patients had mild pruritus, 11 of them had moderate pruritus and 9 of them had no pruritus. Significant difference was not found between post-study pruritus severity of patients of two groups ( $P=0.327$ ).

Mean TSH level of case group patients was  $5.86 \pm 7.23$  and mean TSH level of control group patients was  $4.23 \pm 2.41$  ( $P=0.210$ ). Mean anti-TPO level of case group patients was  $816.67 \pm 681.79$  and mean anti-TPO level of control group patients was  $920.43 \pm 1953.32$  ( $P=0.764$ ).

**Conclusion:**

In patients of case and control groups, pruritus severity was significantly decrease at post-study than pre-study and results indicate that, both treatment was effective in decrease of pruritus severity of patient, but, treatment with Levothyroxin was more effects due to routine treatment.

**Key Words:**

Urticaria, Pruritus, Levothyroxin