

Increased exposure to lead from environmental and industrial pollution have negative impact on health. Green tea has become object of study because of its subservient effects on human health.

Thirty-two female rats Sprague Dawley, share out with four groups ,8 rats in every group. Group 1 was given distilled water (control), group 2 was given green tea, group 3 was given lead and group 4 was given Lead and green tea, the dose were given orally to the rats for 8 weeks, hormonal levels was estimated after collecting blood samples .

The study found that estradiol, Tri-iodothyronine T3 and cortisol decrease significantly ($p \leq 0.05$) in rats administered green tea alone and rats administered lead nitrate alone. While; level of estradiol and tri-iodo thyronineT3 increase significantly ($p \leq 0.05$) when the rats treated with both lead and green tea.

We conclude that there was a significant decrease in the level of estradiol, Tri-iodothyronine and cortisol hormones in the female rats treated with lead nitrate. While the study showed a significant increase in the level of both estradiol and triiodothyronine after the treatment of animals with green tea, while there was no significant difference in the level of cortisol after treatment when compared with control group.