



## 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON GLOBAL HEALTHCARE AND NUTRITION

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### TITLE:

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### ABSTRACT (upto 300 words)

**Aims:** Methimazole (MMI) is widely used in experimental thyroidology. However, the effect on thyroid function can vary widely depending on the route of administration and doses of the antithyroid drug. In some cases, it is difficult to determine whether the results obtained are a manifestation of thyroid dysfunction or a direct toxic effect of xenobiotic. The aim of the study was to establish the optimal dose of methimazole for the induction of hypothyroidism with minimal toxic effects on tissues. **Study design:** The effect of various doses of MMI administered intragastrically to rats on thyroid status, histological structure of thyroid, liver and kidney was studied.

**Results.** Hormonal profile of rats received MMI in the dose 2,5 mg/100 g of body weight. for 3 weeks revealed decrease in mean free T<sub>4</sub> (10,8±2,14 against 16,2±0,57 in control,  $P<0,001$ ), total T<sub>3</sub> (3,12±0,57 against 2,36±0,19,  $P<0,001$  with the increase of TSH (0,12±0,01 against 1,96±0,18,  $P<0,001$ ). The hypothyroid state in this group of animals is also confirmed by decrease in the arithmetic mean values of body temperature. **Conclusion.** The results obtained indicate that a dose of 2.5 mg/100 g of b. w. for 3 w. leads to the development of symptoms characteristic of endemic thyroid dysfunction, and is accompanied by minimal toxic effects on tissues.

### BIOGRAPHY (upto 200 words)

Guzel Abdullina has completed her PHD at the age of 26 years from Bashkir State Medical University, Russia. She is assistant professor of Biochemistry department and Vice -Dean for international students at Bashkir State Medical University, Russia. She has over 100 publications, her publication h-index is 3. Scope of scientific interests: molecular mechanisms of toxicity of organochlorine compounds, phytochemicals with antiaggregant activity, thyroid system and hypothyroidis

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**Mode of Presentation:** Oral or Poster.

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