







IFCC WORLDLAB ISTANBUL 2014

22nd International Congress of Clinical Chemistry and Laboratory Medicine (IFCC Worldlab 2014)

22nd Balkan Clinical Laboratory Federation Meeting (BCLF 2014)

26th National Congress of the Turkish Biochemical Society (TBS 2014)

22-26 June 2014
ISTANBUL, TURKEY
ISTANBUL CONGRESS CENTER

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The Final Program has been released on June 6^{th} , 2014



Exhibition area map

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POSTERS

The Poster Area is located on Level B5 and it is properly signposted.

Poster are arranged by topics and must be on display from 23 to 25 June according to the following timetable:

> from 10:00 June 23rd □ setup

10:00-17:30 June 23rd, 24th and 25th □ display June 25th ■ withdrawal 17:30-18:00

The Organizing Secretariat takes no responsibility for posters left on display afterwards.

Each poster is numbered and the poster board number corresponding to its poster code is shown on the board.

In order to encourage discussions about posters, the presenting author must be at the assigned poster panel from 13:00 to 14:00.

TOPICS DISPLAYED

Advanced technology

Ageing Allergy

Atherosclerosis and vascular markers

Autoimmune disease

Bioinformatics

Biological variation

Blood gases

Bone metabolism and osteoporosis

Cancer and tumor markers Cardiovascular disease Clinical microbiology

Critical care/Emergency Lab

Data generation - Data mining and information

technology Decision making

Diabetes mellitus and metabolic syndrome

Distance education/e-learning

Education and training in laboratory medicine

Endocrinology

Environment and Health

Epigenetics

Evidence based laboratory medicine

Flow cytometry Genetic testing Haematology Haemostasis

Herbal medicine

Infectious disease Inflammation

Inherited disorders

ISO 15189 and accreditation in laboratory medi-

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Laboratory errors and patient safety

Laboratory medicine practice guidelines

Laboratory safety

Laboratory statistics/Biostatistics

Lipids and lipoproteins

Liver and gastrointestinal diseases

Mass spectrometry Metabolic disorders Miscellaneous Molecular diagnostics

Neurological/Neurodegenerative diseases

New biomarker discovery

Obesity

Oxidative stress

Paediatric laboratory medicine

Patient and laboratory management

Pharmacogenetics/pharmacogenomics/ Personalized medicine

Point-of-care testing

Prenatal and postnatal testing

Quality assessment

Reference ranges and decision levels

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Toxicology and therapeutic drug monitoring

Trace elements

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Cod: 0605

EFFECTS OF HYPERTHERMIC STRESS IN DIFERENT DEVELOPMENTAL STAGES IN WHITE RAT ON THE TABLE

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BACKGROUND: High environmental temperature of 40°C, applied in different developmental stages in White laboratory

rat, is a stress on the body that load the adrenal glands. In terms of hypertermic stress adrenal glands work faster, producing increased amounts of adrenaline, noradrenaline and cortisol. In terms of long-term stress, and load of the glands are entering a phase of temporary hypofunction.

METHODS: We were examined the effect of hyperthermic stress in the White laboratory rat strain Wistar, the temperature

of 40_oC, applied for two hours daily. The animals were divided into five groups: control, which resides at room temperature, exposed during pregnancy, exposed during lactation in exposed after the period of lactation and exposed

continuously from pregnancy until the 50th day of life. After the sacrifice of young animals examined were the mass, total protein, content of DNA, and RNA content of the adrenal glands .

RESULTS: Hyperthermic stress applied during pregnancy is not or has little effect on the parameters examined, because

of the protective effect of the placenta. During lactation hyperthermic stress causes the adrenal gland hyperplasia, that is why it comes to increasing the value of all tested parameters. Hyperthermic stress applied after the period of lactation doesn't cause special effects on the examined parameters, because the body is recovering and the values are

almost back to those values in the control group of animals. Continued hyperthermic stress (animals exposed from pregnancy until the 50th day of life) causes a significant increased values of all examined parameters, because of the increased levels of ACTH and cortisol in serum.

CONCLUSIONS: During pregnancy hyperthermic stress has a small effect, but it is much higher during lactation. This is

due to hyperplasia and adrenal hyperfunction. Due to continuous hyperthermic stress applied during the entire experimental

period comes to a significant increase in all parameters examined for irreversible impairment of the function of the adrenal glands (chronic hypofunction).