THE EFFECT OF ROYAL JELLY ON SPERMATOGENESIS IN RATS WITH ACUTE HEAT STRESS

Krylov V.N., Sokolsky S.S., Krylova E.V.

Nizhny Novgorod State University
to them. N.I. Lobachevsky;
“Krasnopolyanskaya” Beekeeping station (Sochi)
Group of intact animals (1)

Control groups:
• acute heat stress (2)
• with feeding of Royal jelly in physiological conditions (3)

Experience groups:
• with preventive feeding of Royal jelly (4)
• with therapeutic feeding of Royal jelly (5)

Scheme of the experiment:
80 mongrel mature rats in the age from 4 months to 1 year.
Methods of experience:

- Model of acute heat stress created by putting rats in a thermostat with the temperature of +40°C for 30 minutes
- Feeding native Royal jelly daily by oral for 10 days at a dose of 100 mg/kg
- Method of stimulation ejaculation by 2% oxytocin solution administered to male rats intramuscularly in a dose of 0.2 ml
- Light microscopy in a drop of native ejaculate on glass
Dynamics of rats semen in acute thermal exposure, prevention and correction of its consequences by Royal jelly.
Thank you for your attention