

## **ABSTRAK**

### **PENGARUH PEMBERIAN KOMBINASI ZINK DAN TOMAT TERHADAP SEL SPERMATOSIT PRIMER PADA TIKUS PUTIH GALUR *Sprague dawley* DIINDUKSI GELOMBANG ELEKTROMAGNETIK PONSEL**

**Oleh**

**Tara Aulianova**

Pengguna ponsel laki-laki biasanya menyimpan ponsel di saku celana. Sedangkan banyak penelitian epidemiologi yang menyimpulkan penggunaan ponsel berperan dalam menyebabkan infertilitas pria. Radiasi gelombang elektromagnetik ponsel dapat menimbulkan stres oksidatif yang mempunyai pengaruh terhadap fungsi dan struktur testis berupa berkurangnya jumlah sel spermatogenik. Dalam penelitian ini terdapat 25 sampel yang dibagi menjadi 5 kelompok. Kelompok kontrol positif (K+) hanya diberi pakan dan minum, kelompok kontrol negatif (K-) diberi pakan dan minum serta diberi induksi paparan ponsel (SAR 1,56 W/kg), perlakuan 1 (P1) diberikan dosis tomat 1,85 g dan zink 0,54 mg dan diinduksi paparan ponsel (SAR 1,56 W/kg), perlakuan 2 (P2) diberikan dosis tomat 3,4 g dan zink 0,27 mg dan diinduksi paparan ponsel (SAR 1,56 W/kg), perlakuan 3 (P3) diberikan dosis tomat 7,4 g dan zink 0,135 mg dan diinduksi paparan ponsel (SAR 1,56 W/kg). Perlakuan diberikan selama 35 hari. Diperoleh pada P1, P2 dan P3 sel spermatosit primer berpengaruh nyata.

**Kata Kunci** : Sel Spermatosit Primer, Tomat, Zink

## **ABSTRACT**

### **THE EFFECT OF THE COMBINATION OF ZINC AND TOMATO TO THE NUMBER OF PRIMARY SPERMATOCYTE CELLS IN *Sprague dawley* RATS INDUCED BY HANDPHONE'S ELECTROMAGNETIC WAVES**

**By**

**Tara Aulianova**

Cell phone users are men usually keep the phone in his trouser pocket. While Many epidemiological studies have concluded USE The phone plays hearts causing male infertility. Electromagnetic waves radiation phones can be cause oxidative stress has an influence against the functions and structure of the testes form of reduced period spermatogenic cells. In the study 25 samples singers are divided into 5 groups. Positive control group (K +) is only given food and water, the negative control group (K) were fed and given water to drink And Induction exposure to cell phones (SAR of 1.56 W / kg), treatment 1 (P1) is given a dose of tomato 1, 85 g and 0,54 mg zinc and induced cell phone exposure (SAR of 1.56 W / kg), treatment 2 (P2) is given a dose of 3.4 g tomatoes and zinc 0,27 mg and induced cell phone exposure (SAR 1.56 W / kg), treatment 3 (P3) is given a dose of 7,4 g tomatoes and zinc 0,135 mg and induced cell phone exposure (SAR of 1.56 W / kg). Treatment was given for 35 days. Obtained at P1, P2 and P3 primary spermatocytes cells significantly.

Key Words : Primary Spermatocyte Cells, Tomato, Zinc.