

ABSTRACT

COMPARISON OF THE HISTOLOGY OF MICE (MUS MUSCULUS)

KIDNEY INDUCED BY 3G AND 4G CELLULAR PHONE

ELECTROMAGNETIC RADIATION

*Exposure to cell phone electromagnetic radiation may cause oxidative stress to the kidneys. Radiation emitted may be more absorbed by the kidneys because cell phones are often carried in a belt / trouser pocket. The aim of this study is to determine the comparison of the kidney histological features of mice (*Mus musculus*) induced by 3G and 4G cellular phone electromagnetic radiation. Histological features that measured are the areas of glomerulus and bowman's capsule space. We observed that there is no difference between 3G and 4G groups in the area of glomerulus ($p>0,05$) and bowman's capsule space ($p>0,05$). In conclusion, there is no difference in the histology of the mouse (*Mus musculus*) kidney induced by 3G and 4G cellular phone electromagnetic radiation.*

Keywords: Electromagnetic, Radiation, Kidney, Mus musculus, Oxidative stress