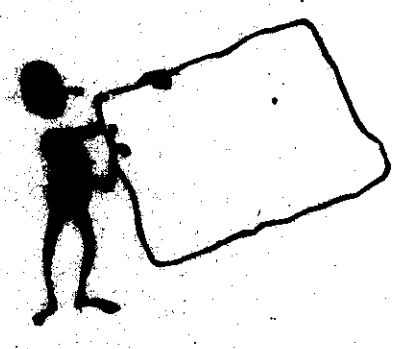
INTRODUCTION AND AIM OF WORK



Introduction

Because we use electric power through our homes and work places, we are all subjected to electric and magnetic fields (EMF), that are created by the voltages and currents present in the electrical conductors and electrical equipment *(Valberg, 1996)*.

Electromagnetic fields (EMF) are invisible and can penetrate living tissue *(Linet et al; 1997)*.

How cells respond to EMF exposure remains an unanswered question *(Hinsenkamp; 1997)*.

Low frequency electromagnetic radiation had previously been thought to cause human injury only by generation of excess heat or by shock from direct contact with electric current. Information accumulating over the past few decades, however, suggests that non-ionizing electric and magnetic fields associated with this radiation may be an environmental etiology in human disease. Human being are affected not only by natural background non-ionizing electromagnetic fields produced by the earth, but also by a host of man made sources *(Salvatore et al; 1996)*.

Aim of the Work

The aim of this study is finding out the effect of low frequency electromagnetic field on pituitary gonadal axis (sex hormones) and testicular histopathology in male rats.