



## **Original article**

### **Utilization of diode laser therapy with wavelength 904nm during pregnancy:**

#### **A preliminary study**

\*Dunniya A. Barakat, \*\*Gesoon Al-Abbas & \*\*\*Zahra J.M.A. Al-Timimi

\*College of Science – Al- Qadisiyah University, \*\*Dept. of Computer – Al- Muthanna University & \*\*\*Laser Physics -  
College of Science for Women, Babylon University, Iraq

## **Abstract**

The wide use of laser in medicine and surgery make it a well - known tool in all fields of medicine, which lead the physicians to put quires whether it may have side effects on the body as a whole and on the gestation and the fetus especially. The purpose of the being study is to explore the accessible confirmation to delimit the protection of laser therapy during the pregnancy and supporting of utilising the diode laser when selected in the therapy of cases followed the gestation.

Twenty-eight local adult females' rabbits employed in the present study, they were preserved naturally, furthermore formerly divided into four groups. For each group seven rabbits. The laser sours used was a diode laser with wavelength 904nm, Continuous operations, power density ( $2 \times 10^{-3}$  watt/mm<sup>2</sup>). The period of radiation was 15 min/session by direct contact of the window of the laser sours to the area of the pelvis.

The 1st.group radiated during the 1st.week of gestation after the copulation directly, 2nd.group radiated at the beginning of the 2nd.week of gestation, 3rd.group radiated at the beginning of the 3rd.week of gestation and 4th.group was radiated at the beginning of 4th.week of gestation. The average length of gestation for the females' rabbits employed in this study was between 29–32 days and they gave birth to 2–6 litters in a sex average between males and females.

The outcomes revealed that the laser irradiation didn't create any side effect or clinical symptoms during the period of a whole gestation. It was found that the laser radiation didn't elongate or shorten the course of gestation, on the reverse it remains at its normal limits. In addition, the numbers of litters remain at normal limits. There were no abortions or abnormalities in the litters. The percentage of males compared with females outlive at normal values.

A conclusion can be progressed that the diode laser is innocuous enough to be applied if needed to treat pregnant female throughout the period of gestation externally any fear of abortion or deformities.

**Key words:** Diode Laser, Gestation, Irradiation, Pelvis, Litters

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