|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| University of Baghdad | | | | |
| Veterinary Medicine | | | | College Name |
| Surgery & Theriogenology | | | | Department |
| Ali Fadel Alwan | | | | Full Name as written in Passport |
|  | | | | e-mail |
| **Professor** | **Assistant Professor** | **Lecturer** | **Assistant Lecturer** | Career |
| PhD | | Master | |  |
| The development of thyroid and adrenal function in fetal and newborn Guinea pig | | | | Thesis Title |
| 1987 | | | | Year |
| Effect of Propylthiouracelon (PTU)foetal development and T4,T3 hormones levels were studied . Oral feeding of PTU to pregnant guinea pigs were begin as early as possible after female insemination . Blood samples were taken from 40 ,45,50,55,60,62, and 65 days old foetuses as well as, new borne G.pigs and their maternal . The T3andT4 hormones levels of control fetuses were increased steadily from day 40 to55 of intrauterine life and then decreases until birth .IN neonatal G. Pigs the levels of those hormones ewer increased in the first 2 weeks. The cortisol Hormone shows steadily increases during intrauterine life and after birth. Maternal levels of T3 andT4 hormones not effected by PTU treatment While the cortisol hormones shows higher levels than that of the fetuses. And newborn animals .  The decreases in treated fetal body weight were recorded compared to that of normal one .The treated G.Pigs had fetuses with large thyroid gland ( goiter) the size of goiteric gland was increased with fetal age with weight reach about 140% than that of normal thyroid glands, with red congested colors ,the maternal thyroid glands were also, had congested red coloures.  Histological study of fetal g. pigs were showed an steadily increases in follicle size as wellas thire hormones contained was also, increases with age. Treated Maternal thyroid glands showed large follicles contained collide material .While the fetal gland had large follicles compared to that of the same age the follicles sizes were increased with fetal age .The histological sections of treated fetuses over 55 days had opened follicle with little colloid and bigger nucleuses in the follicle wall. This indicated the thyroid activity. After that the papillary cells shapes were seen in thyroid gland of fetal G.piges.  In conclusion : the Pituitary -Thyroid and adrenal system was working at about 40 days of intra uterine life and these glangs play roles in fetal growth and development .and new borne G. pige borne as mini G.pigs. | | | | Abstract |