



## **The effects of Anemia on Morphohistological of placenta in AL-Najaf city**

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**Abstract :** Anemia in pregnancy is related with viable histomorphological changes in placenta . The present study aims to clear the extent of structural changes on the efficiency of the placenta to support the growth of fetus . The study included 100 placenta taken from 100 delivery which have been collected at birth from women attended Obestatric Department in AL-Zahra Education Hospital for Maternity and children and the middle Euphrate Hospital in AL-Najaf city –Iraq at the period from October 2015 to April 2016 . The result of this study explor that the maternal age distribution predomination at the age group 36 year . The anemia in multigravida was found to be more than number in primigravida . The anemic pregnant mother give birth with fluctuation from normal babies to low birth weight . The gross observation of the placenta revealed a slight decrease in placental weight in anemic pregnant mothers .with irregular in shape and decrease mean diameter of placenta , while the green color observed only in anemic group and absent in non-anemic . In the present study the placental < 330 gm observed only in anemic group .The gross observation of umbilical cord showed umbilical cord thrombosis in 20 % of anemic group and absent in non-anemic group. Anemic in the pregnancy alters the Histological structural of placenta . The present study showed significant microscopic change in placenta of anemic group as compared to the non-anemic . Placenta in anemia showed excessive syncytial knots fibrinoid necrosis of the villi , increase villous stromal fibrosis.

**Keyword :** Placenta , Pregnancy anemia , Brith weight , Preterm , Neonatal outcome , Apar score.