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**Title: The incidence of anemia in pregnant women with iron supplementation**

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**Abstract:** Introduction: Anemia in pregnancy is a serious condition, contributing to maternal mortality and fetal morbidity. Iron deficiency is the most common cause of maternal anemia so iron supplementation during pregnancy is a primary component of prenatal care. Almost all supplemental programs in developing countries focus exclusively on iron supplementation, but how much iron can meet the needs of this period always is a controversial issue. Materials and Methods: In this study, 108 healthy pregnant women with GA=10-14 weeks and Hb≥11g/dl, chosen by cluster random sampling, were included and they were followed to delivery. All of women received 50mg ferrous sulfate daily as a routine program. Hb concentration was checked in the end of second and third trimesters. Hemoglobin less than10.5g/dl in the second trimester and less than 11g/dl in the third trimester was considered as anemia. For statistical analysis SPSS software was used. Results: The incidences of anemia in the second and third trimester were 12.7%, 27.9% respectively; Of course 92 % of cases were mild and moderate. 29/1% of women in the second trimester and 5.8% of them in the third trimester had Hb>13.2g/dl but no cases found in third trimester. Inadequate weigh gain in the first trimester (p<0.009) and nausea vomiting (p<0.02) were maternal predictors of Hb concentration during pregnancy. Conclusion: Our findings indicated that despite the routine iron supplementation the prevalence of anemia was high, so it is recommended in addition to routine supplementation, women at risk should be identified to receive intensive care at the first trimester.

**Key words:** Hemoglobin, Pregnancy, Iron supplementation

**Presentation:** Poster