EVALUATION OF INTRAVENOUS GLUCOSE TOLERANCE TEST AS AMETHOD OF PREDICATION OF INTRAUTERINE GROWTH RET ARDATION

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The aim of this work is to evaluate maternal hypoglycaemiaas a causative factor of IUGR and the value of intravenous glucosetolerance test as a method of prediction of IUGR. One hundred two cases in the third trimester of pregnancy attending Kafr EI Shikh general hospital antenatal clinic were studied. Patientschoosen for the study had a high risk of developing IUGR. Cases included in the study: 71 patients had a single risk factors for IUGR including:Preeclampsia (50 cases), Eclampsia (6), anaemia (9) and Cardiac disease (6).2) 31 patients had multiple risk factor for IUGR including.Preeclampsia + anaemia (17), preeclampsia + cardiac d. (5). Preeclampsia+anaemia + cardiac disease (one case), Eclampsia + anaemia (5) andcardiac disease + anaemia (3 cases).:IV.GTT was performed.Fasting blood sugar and 10 minutes and 60 minutes blood glucoseafter IV. glucose injection was analized by using glucometer apperatus. Newly born infants' weight was recorded and IUGR could be diagnosed(birth weight below the 10 percentile according to gestational age.assessment of anatomical features that indicates maturity in thenewly born was also performed. IUGR babies were compared to hypoglycaemia and statistical evaluation of the significance of hypoglycaemia as a cause of IUGR wasstudied in all cases.- 81 -- 82 -There was a significant correlation between maternal hypoglycaemiaand IUGR in the studied group. Also there was a tendency towardslowering blood sugar level I in growth retarded newly born infants. Fasting blood sugar level and at 10 minutes and 60 minutes afterIV. glucose load were silgnificantly lower in cases with IUGR thanin cases with no IUGR. In patients with a single risk factor for IUGR there was no statistically significant difference between the number of IUGR in those withhypoglycaemic compared to those with normoglycaemic mothers(P> 0.05). In patients with multiple risk factors for IUGR, the number of IUGRinfants was statistically higher in hypoglycaemic patients .(P < 0.0001)In patients with pregnancy toxaemia only; there was no statistical difference between the number of IU.GR infants in hypoglycaemicIX normoglycaemic groups P