

GLUCOSE TOLERANCE TEST IN DIFFERENT TRIMESTERS OF PREGNANCY AND PUERPERIUM

N. C. Panda, Manju Shree Chopdar and U.K. Nanda*

In the present series 51 cases attending Obstetrics and Gynaecology Department of the V.S.S. Medical College Hospital, Burla have been investigated for their oral standard GTT at different trimesters of pregnancy and puerperium.

There were 28 cases of normal pregnancy, 15 cases of normal pregnancy with abnormal obstetric history and 8 cases of abnormal pregnancy.

GTT pattern in normal pregnancy did not show glucose intolerance at any of the trimesters. The mean blood sugar values of 1st, 2nd and 3rd trimesters at Fasting, 1st hour, 2nd hour and 3rd hour are 73.6, 105.6, 91.3, 83.6 mg/100 ml respectively.

The mean value of glucose tolerance in 1st trimester was found to be higher than in later pregnancy.

GTT patterns in different trimesters in the normal pregnancy (N), normal pregnancy with abnormal obstetric history (NH) and abnormal pregnancy (A) groups have been compared. No significant difference has been observed.

In puerperium though certain degree of impairment has been observed in NH and A group in comparison to N group, the blood sugars have not exceeded the maximum GTT values for pregnancy.

In two cases of diabetic patients a greater degree of glucose intolerance has been noticed in both 3rd trimester and puerperium.

Under the present set up the GTT pattern of the normal pregnant cases at different trimesters shows normal glucose tolerance, a gross intolerance was noticed in two diabetic patients. Hence it is concluded that all cases showing glucose intolerance in different trimesters of pregnancy and puerperium must be investigated further for definite diagnosis of diabetes.

* Dr. N.C. Panda, Prof. & Head of Biochemistry, SCB Medical College, Cuttack.