CONTINUOUS GLUCOSE MONITORING SYSTEM AND PREDICTION OF PREGNANCY OUTCOMES IN PATIENTS WITH GESTATIONAL DIABETES MELLITUS: A PROSPECTIVE COHORT STUDY.

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INTRODUCTION

Gestational diabetes mellitus (GDM) is associated with an increase of maternal-fetal complications. Continuous glucose monitoring system (CGMS) detects parameters of glycemic variability through which it could be predicted the appearance of maternal-fetal complications.

METHODS

Women with GDM at 26-32 gestational weeks were allocated a 6-day CGM system (Ipro[™]2) right after diagnosis in an observational prospective study. It was analysed:

CGMS: mean glucose and standard deviation (SD), mean amplitude of glycemic excursions (MAGE), mean of daily differences (MOOD), continuous overlapping net glycemic action (CONGA). Expressed: mg/dL.

Maternal and neonatal outcomes: Caesarean, gestational age at delivery 39 week, macrosomia, large for gestational age (LGA), neonatal hypoglycaemia, neonatal hyperbilirubinemia and need for supplemental oxygen in the neonatal.



CONCLUSIONS

There is a correlation between MAGE at diagnosis of GDM and LGA. The use of CGMS could identify patients with more risk of maternal-fetal complications. These patients should have a close surveillance in order to prevent complications. However, further studies with a larger number of patients are required.