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Mean difference of transcerebellar diameter on ultrasound in third trimester of pregnancy: Useful indicator of growth retardation

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To determine the mean difference of Trans cerebellar diameter between normal and growth restricted fetuses as a useful indicator of growth retardation.

STUDY DESIGN: Cross sectional study**STUDY PLACE AND DURATION:** Department of Obstetrics & Gynaecology in collaboration of Department of Radiology, Sir Syed Hospital Karachi, a private tertiary care center. Over six months from 15th June 2016 to 15th December 2016.**PATIENTS AND METHODS:** Total 120 pregnant women were recruited in the study referred for ultrasound scan between 28-40 weeks of gestation during the antenatal period (60 normal fetuses and 60 growth restricted fetuses) were included. All the observations included maternal age, parity, history of any medical disorder, gestational age, last menstrual period, ultrasonographic findings (i.e. Normal growth or IUGR) and transcerebellar diameter were recorded on proforma. SPSS version 20.0 was used for data analysis. All continuous response variables like maternal age, gestational age, parity and transcerebellar diameter were presented as Mean±SD. Unpaired T-test was applied to see mean difference of maternal age, parity, gestational age, transcerebellar diameter between normal and growth restricted fetuses.**RESULTS:** Overall mean maternal age was 28.61±4.72 years and mean gestational age was 33.8±2.93 weeks. Mean transcerebellar diameter of fetus by scan of Normal group was 34.40±3.70cm and 32.93±2.47 cm of IUGR group (p=0.012). In the gestational age 37-40 weeks, mean TCD 36.11±1.537 of IUGR group was less than 38.93±2.086 of normal growing fetus group (p=0.001). Pearson's correlation (r=0.892) between TCD and actual gestational age. The correlation between gestational age and TCD in normal growth fetus was r = 0.876 and in IUGR group was r = 0.901.**CONCLUSION:** Measurement of TCD with expert hands is a useful indicator of growth retardation with regards to strong correlation between TCD & GA and mean difference of TCD of normal growth versus intrauterine growth restricted fetuses, particularly in gestational age group 37-40 weeks.**KEYWORDS:** Transcallebral diameter, growth retardation, gestational age, biometric measurement,

Biography

Dr. Sonia Naqvi is a graduate of Dow Medical College Karachi. She has done M.R.C.O.G. From Royal College of Obstetricians & Gynecologists in 2001. She has also done FRCOG in 2013 from London. She has done various Courses including Laparoscopy, Hysteroscopy, Colposcopy, Family Planning etc. At present she is working as Consultant Gynecologist & Infertility Specialist at Australian Concept Infertility Medical Center Karachi. She has special interest in reproductive endocrinology, Assisted Reproductive Techniques (ART), Laparoscopy, Hysteroscopy. She has previously worked as Consultant gynecologist in various hospitals. She was a senior registrar at Dow Medical College Civil Hospital, Karachi. She was involved in organizing MRCOG courses and seminars in Karachi and Islamabad at various hospitals. She was an Assistant Professor at Baqai Medical University Karachi. She was Demonstrator /Lecturer in department of OBS & Gynae at Civil Hospital Karachi. She Presented papers in National and international conference also she was master Trainer of JPELGO project of PPIUCD.

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