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### Efficacy of 1<sup>st</sup> trimester ultrasound parameters for prediction of early miscarriage

**Objective:** To study the efficacy of 1<sup>st</sup> trimester ultrasound parameters for prediction of early miscarriage.

**Method:** A prospective observational study was undertaken to study the efficacy of early ultrasound parameters for prediction of early miscarriage in Tata Main Hospital, Jamshedpur, India.

**Result:** Of the 800 pregnancies studied, 140 had early miscarriage. Crown Rump length (CRL), Gestation Sac Diameter (GSD), Fetal Heart Rate (FHR) values less than 5th percentile (OR: 26.48, 26.94, 100.63, respectively) and Yolk Sac Diameter (YSD) more than 95th percentile (OR: 1.04) were significant predictors of early miscarriage. When these abnormal parameters coexisted in any pregnancy, the miscarriage risk was significantly high (OR: 35.27). A normal YSD could not significantly reduce the risk of miscarriage, if the other three parameters were below the 5th percentile (OR: 35.27). Every 10 beats per minute (bpm) decrease in FHR below 130, there was a 26.73% increase in risk of miscarriage. GSD-CRL difference <5 mm was associated with significantly increased miscarriage risk (OR: 4.88).

**Conclusion:** Early ultrasound measurements of CRL, GSD, FHR and YSD are good predictors of early miscarriage and tables using various combinations of abnormal parameters may improve the prediction rates.

### Biography

Mamta Rath Datta is the Head Consultant of the Department of Obstetrics and Gynecology at Tata Main Hospital, Jamshedpur, India since 1996. She was also the Past President of Jamshedpur ObGyn Society. She qualified MD in Obstetrics and Gynaecology (1994), FICMCH, FICOG and FMAS. Her area of interest includes laparoscopy. She has also contributed a chapter titled: 'Thyroid diseases in Obstetrics and Gynecological Practice' in the book Management of Thyroid Disorders published by Jaypee Brothers in 2009.

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