**Original article:**

**“Estimation of gestational age using crown heel length and crown rump length in India”**

**\*Dr. Sachin Sudarshan Patil1,Dr.Ramesh Nanaji Wasnik2, Dr. Ravindra Baliram Deokar3**

**1,3**Assistant professor, Department of Forensic Medicine, Seth G.S. Medical College & K.E.M. hospital, Parel, Mumbai. -400012, Maharashtra , India.

**2** Associate Professor & Head, Department of Forensic Medicine, Late B.R.K.Government Medical College, Jagdalpur, District - Bastar, Chhattisgarh , India.

**\*Corresponding author:** Email Id : drsach\_patil7@rediffmail.com

**ABSTRACT:**

**Introduction:** Estimation of gestational age of fetus is of great medicolegal significance. The current study was carried out, to help the investigating authorities to solve legal problems in relation to foetuses. In addition, accurate fetal age estimation is very important in obstetric and pediatric clinical practice.
**Material and methods:** The present study was conducted in the Department of Forensic Medicine and Toxicology, Indira Gandhi Government Medical College, Nagpur having sample size of 100 foetuses. Crown Heel length and Crown rump length were measured and regression analysis was used for analyzing the collected data.

**Result**: A statistically significant linear relationship was observed between Crown Heel length (CHL) and gestational age (r = 0.979, p < 0.0001) and also statistically significant linear relationship found between Crown Rump length (CRL) and gestational age (r = 0.956, p < 0.0001)

**Conclusion:** Crown heel length and Crown Rump length of the fetuses has shown a significant correlation with gestational age, which gives the indication of accuracy of the present study. Thus it can serve as highly valuable and trustworthy parameter in the fetal age estimation.

**Key words**: Foetus, Gestational age estimation, Crown Heel length, Crown rump length.