3 - Clinical Anatomy

PO-040 - (23816) - EVALUATION OF FETAL EYE POSITION ACCORDING TO GOLD AND SILVER RATIOS

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This study aims to systematically evaluate the correlation of fetal eye position with golden and silver ratios.

Front profile photographs of 32 fetuses (18 females and 14 males) aged 24.10±3.94 weeks (range: 18-32 weeks) were included in the work. Five eye-related anthropometric measurements were performed to detect information regarding eye position as follows: a) P-Gn (the distance between the gnathion and the center of the line connecting the right and left pupils), b) P-Tr (the distance between the trichion and the center of the line connecting the right and left pupils), c) En-En (the distance between the right and left endocanthions), d) Ex-Ex (the distance between the right and left exocanthions), and e) P-P (the distance between the right and left pupils). These numerical values were compared statistically with the golden and silver ratio.
P-Gn, P-Tr, En-En, Ex-Ex and P-P were measured as 50.83±12.54 mm, 33.47±9.57 mm, 28.40±6.33 mm, 60.28±14.60 mm, and 45.42±10.29 mm, respectively. These parameters increased with advancing fetal week ($p<0.05$). While evaluated according to the golden ratio (1.618), changes in P-Gn/P-Tr, Ex-Ex/En-En, P-P/En-En, and Ex-Ex/P-P ratios were calculated as 95%, 130%, 97%, and 83%, respectively. While evaluated according to the silver ratio (1.414), changes in P-Gn/P-Tr, Ex-Ex/En-En, P-P/En-En, and Ex-Ex/P-P ratios were calculated as 109%, 148%, 111%, and 95%, respectively.

The ratios of P-Gn/P-Tr (about 5% small) and P-P/En-En (about 3% small) were statistically similar to the gold ratio. The ratio of Ex-Ex/P-P (about 5% small) was statistically similar to the silver ratio.

Palavras-chave : golden ratio, silver ratio, fetus anthropometry