

عنوان مقاله:

Assessment of apoptosis and appearance of hepatocyte growth factor in placenta at different gestational ages: A cross-sectional study

محل انتشار:

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خلاصه مقاله:

Background: Fetal growth is determined by the interaction between mother and fetus using the placental interface throughout the pregnancy. Objective: To research apoptosis and appearance of hepatocyte growth factor (HGF) in placentas of different gestational ages and to describe the anthropometrical and clinical indices of mothers and newborns. Materials and Methods: The study material was obtained from ۵۳ human immunodeficiency virus negative pregnant women of legal age without systemic diseases. The staining of placental apoptotic cells was processed by a standard in situ cell death detection kit. The detection of HGF was provided by the ImmunoCruz goat ABC Staining System protocol sc-۲۰۲۳. Relative distribution of positive structures was evaluated using the semiquantitative counting method. Results: The mean rank value of the amount of HGF-containing cells (cytotrophoblasts, syncytiotrophoblasts, extravillous trophoblasts, Hofbauer cells, and cells of extraembryonic mesoderm) was ۱.۶۱ ± ۰.۹۴ . Apoptotic cells (cytotrophoblasts, syncytiotrophoblasts, extravillous trophoblasts, and cells of extraembryonic mesoderm) were found in all placental samples of various gestational ages (term ۱۳.۰۰ ± ۱۳.۰۵ and preterm ۲۷.۰۰ ± ۱۸.۲۵); in general, their amount decreased with advancing gestational age of the placenta ($p < ۰.۰۱$). Conclusion: Weight of a placenta directly depends on the gestational age and correlates with the main fetal anthropometrical parameters (weight, length, and head and chest circumferences). The decrease in HGF-containing and apoptotic cells with advancing gestation depends on the adaptation potential of the placenta, proving the other ways of cellular disposition

کلمات کلیدی:

..Pregnancy, Placenta, Gestational age, Apoptosis, Immunohistochemistry
بارداری، جفت، سن حاملگی، آپوپتوز، ایمونوهیستوشیمی.

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