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## Difrentiation of histological and cytological observation of human term placenta

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**Introduction:** Studies about placental tissue provide abundance of information about pregnancy course and pathological processes responsible for complications during pregnancy.

Cytodiagnosics is a method which helps to estimate the condition of organ by observing its cells on cytosmear. Placenta is a unique organ, composed of tissue which belongs to the two different organisms and has many complex functions.

**Aim:** To compare cytological and histological findings of human term placenta and determinate the most appropriate method for preparing cytosmeas.

**Materials and methods:** Material used in this study represented five segments of five placentas. Placentas had normal morphological characteristics and were obtained after the elective cesarean section, done in term under sterile conditions. The cytosmeas and histological preparations were made of placental segments. Smears were made by impression-method, towage-method and method with cytobrush. For histological preparations, the tissue was fixated, dehydrated, moulded and cut on microtome. Smears and preparations were stained with Giemsa stain and H&E.

**Results:** On cytosmeas, decidual, amniotic, trophoblastic, blood cells, chorionic villi and syncytial knots were found. There were no fibrinoids nor micro calcifications found on cytosmeas, which existed on corresponding histological preparations. The number of all types of granulocytes was regular on every cytosmear/ histological preparation pair.

### Biography

Ryan Arslaan has completed his Bachelor of Medicine at Karaganda State Medical University, where he was a part of the Department of General Medicine. Throughout his studies, Ryan developed a strong foundation in medical sciences and patient care. He is dedicated to advancing his knowledge and skills in the field of general medicine, aiming to contribute to healthcare through clinical practice and research.

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