The review presented the information about cultivating of cells isolated from endometrial tissue in 3D models. Various methods of 3D-cultivation of endometrial cells are described, their characteristics are presented, as well as application of 3D-cultures in the field of biomedical research. Possibilities of using 3D cultures to study pathogenesis and develop methods of therapy of diseases such as endometrial cancer and endometriosis are considered, research results related to endometrial decidualization and blastocyst implantation in 3D systems are analyzed.

Keywords: 3D cultivation, endometrium, decidualization, IVF, endometriosis, endometrial cancer