

Abstract. We had studied morfological and histological changes of Wistar rat germinal epithelium after experimentally induced cryptorchidism. Our experiment had lasted seven days. Cryptorchic testes was injected by solution of MDOC™. We used also tissues which was taken from other comparable studies but without MDOC™ for histological evaluation of shorter time intervals. Both size and weight was significantly reduced in cryptorchid testes compared to contralateral and control testes (22.4% and 52.6% respectively). We recorded degenerative changes of germinal epithelium including epithelial desintegration and release of immature and apoptotic cells, which was found in epydidimal tubules, even in one hour interval. Six days after operation, multinucleated cells and vacuolization of epithelium also appeared. Seven days after operation (and aplication MDOC™) we found a significant degeneration of germinal epithelium comprising features from vacuoles to apoptotic cells. A large number of macrophages also appeared in this interval. We didn't record any degenerative features in contralateral and control testes.