

Mast Cell Distribution in the Terminal Part of Porcine Ureter

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Abstract

The distribution of mast cells (MCs) in the terminal (intramural, intravesical) part of porcine ureter using toluidine blue staining was performed. It was established that in the *lamina propria mucosae* MCs were localized predominantly in the vicinity of blood vessels of the microcirculatory bed and rarely near the basal membrane of *lamina epithelialis mucosae*. In *tunica muscularis*, MCs were located mainly in the loose connective tissue around the blood vessels of the microcirculatory bed, as well as near the smooth muscle bundles. No statistical difference was estimated between number of Mcs/mm² in males and females in the *lamina propria mucosae*, while significant difference ($P < 0.05$) was established between values in *tunica muscularis* comparing males and females. Statistical significant difference ($P < 0.0001$) between values in *tunica muscularis* and *lamina propria* in each group of animals (in males and in females, respectively), was also found.

Key words: Mast cells, ureter-vesical junction, pig