

Structural Organization of Renal Medulla in Domestic Swine

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The morphological and physiological features of kidney in humans and different animals have been determined over the years. However, the detailed data about the structural organization of the porcine renal medulla are absent. In the present study it was established that in the outer stripe of outer medulla, the diameter and the number of proximal straight tubules were larger than in distal straight tubules. The number and the diameter of collecting ducts (CD) in the outer and in the inner stripe of the outer medulla were the same. The height and number of epithelial cells of CD increased towards the inner medulla. The diameter of *Ductus papillaris* was the largest. The diameter of thin limbs of Henle in the inner stripe and in the inner medulla unchanged, but in the tip of papilla it increased.

The pattern of the tubular and vascular organization of medulla that was established by the current study is evidence that porcine renal medulla belongs to the simple type of renal medulla.

Key words: renal medulla, morphometry, swine.