The influence of the different morphological changes on gastric mucosa on somatostatin cell number in antrum mucosa and serum somatostatin

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**Abstract.** The aim of our paper was to investigate the influence of the different morphological changes on gastric mucosa on somatostatin D-cell number in antral mucosa and serum somatostatin. We analyzed according to Sydney classification to what extent the severity of gastritis affect the observed hormonal values. somatostatin D-cell number in antral mucosa and serum Somatostatin values were compared between three groups of patients; mild, moderate and severe chronic gastritis. The average number of somatostatin cell in biopsy sample of antrum mucosa was 30.41±35.38 (N=17) in the case of middle form, 18.69±26.65 (N=56) in moderate and in severe case of chronic gastritis 5.23±5.93 (N=7) cells in mm² of mucosa. The level of somatostatin in the serum of middle form gastritis were 26.43±28.76, moderate 19.95±35.93 and severe 17.88±17.66 pg/mL. In order to determine the number of somatostatin cells in antrum mucosa and serum somatostatin with present morphological changes of mucosa, it might helpful to exclude the patients with non-ulcer dyspepsia, but with the higher risk of premalignant and malignant changes.