

## Gastric mucosa mucous layer thickness in liver cirrhosis with portal H compare to functional dyspepsiaypertensive gastropathy

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### Abstrak

*Background:* Thin study aimed to investigate gastric mucosa mucous layer thickness in portal hypertensive gastropathy (PHG) compare to normal mucosa in functional dyspepsia and its correlation with several variables such as child class, severity of esophageal varices and gastropathy.

*Materials and Methods:* Biopsy specimens were taken from the antrum and corpus from both group of patients with PHG and functional dyspepsia. The specimen was given cryometric for frozen section. Tissue were sliced by sagital section II urn, placed in object glass, fixed and stained to evaluate mucous thickness and giemsa stained to observe *Helicobacter pylori*. Measurement of mucous thickness was done upward muscularis mucosa started from upper epithelial layer from faveale tip until outer mucous layer on 15 points which were marked randomly and calculate the mean value by micrometer (/jm).

*Results:* Mean value of antral mucous thickness in PHG was  $13.30 \pm 6.5$  fim, while in the functional dyspepsia it was  $25.59 \pm 5.66$  /an. Statistical analysis for both kinds of mucous thickness was  $p < 0.001$ . Mean corpus mucous thickness in PHG was  $10.6 \pm 6.81$  /jm, while mucous thickness in dyspepsia was  $32.54 \pm 6.51$  fjm. Statistical analysis revealed  $p < 0.001$ . This result showed significant difference of mucous thickness of antrum and corpus statistically between PHG and dyspepsia as control group.

*Conclusion:* The study had proven the presence of decreased gastric mucosa mucous layer thickness in corpus and antrum in PHG. Thus, therapeutic approach to increase mucous thickness must be considered in patients with PHG.