



Interrelation between cutaneous electrogastrogram and interdigestive motor complex

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Abstract

AIM: A cycle of electromechanical activity, called interdigestive myoelectric complex (IDMC) has been found in human gastrula and duodenum in fasting state. To record antroduodenal motility and cutaneous electrogastrogram (EGG) simultaneously is necessary during fasting to distinguish each phase of IDMC only by cutaneous EGG. The aim was to assess the value of cutaneous

electrogastrography in detecting IDMC by examine the characteristics of cutaneous EGG in each phase of IDMC.

METHODS: In 29 patients with nonulcer dyspepsia and 8 patients with duodenal ulcer antroduodenal manometry was undergone by catheter perfusion technique in a fasting period of 3.5 h. In each phase of IDMC cutaneous EGG was the recorded for four hundred seconds. Frequency of EGG was not different among phase one, phase 2 and phase 3 of IDMC. Amplitude of EGG was the highest in phase 3, higher in phase 2 than in phase 1.

CONCLUSION: During interdigestive period, the frequency of EGG is relatively constant, the amplitude of EGG changes periodically, the periodicity is consistent with the periodicity of IDMC.

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