

Research of specific wave figure of EGG in chronic gastritis

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Abstract

AIM: The diagnostic standard of electrogastrogram (EGG) used in this country now lacks specificity, so there is dispute in its clinical use. This research, according to specific EGG wave figure and EGG diagnostic standard used now, compared the true diagnostic rate of superficial gastritis and that of atrophic gastritis.

METHODS: Choose 60 normal persons as control group. The group of patients contained 480 persons (218 superficial gastritis, 166 chronic atrophic gastritis, 96 other gastric disease). The disease duration was from half year to 17 years. Age was between 20 to 64 years. Males 298, females 182. The SC2C-B EGG machine was used to record the EGG wave for 15 min before meal and after meal separately. The following day after EGG recording, gastro fibroscope and pathology were performed to assure the diagnosis. Then

compare the results with that of EGG diagnosis.

RESULTS: In control group, according to EGG diagnostic standard, 57 were normal, 124 superficial gastritis, 101 atrophic gastritis. Compared with the gastrofibroscope and pathology diagnosis, coincident rate of superficial gastritis was 57%, that of atrophic gastritis was 61%. According to the specific wave figure, sine wave appeared in 60 normal persons: low, flat and quick wave appeared in 213 superficial gastritis; Low flat and quick wave appeared or not as standard for diagnosis of superficial gastritis, the coincident rate was 98%; For low, flat and slow wave as standard for diagnosis of atrophic gastritis, the coincident rate was 90%. Low, flat and quick wave, low flat and slow wave did not appear in other stomach diseases.

CONCLUSION: When EGG wave figure low, flat, quick wave and slow wave is separately used as standard for diagnosis of superficial gastritis and atrophic gastritis, the true diagnostic rate is much higher than the EGG standard used now ($P < 0.01$). The conclusion is that specific EGG wave figure used as standard for diagnosis of superficial gastritis and atrophic gastritis has clinical significance.

Key words: Wave figure; Electrogastrogram; Chronic gastritis

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