



Ulcers (Gastric and Duodenal)

Results of this study showed that the administration of mill metric electromagnetic waves helped to normalize blood properties, subsequently improving the effectiveness of more conventional gastric and duodenal ulcer treatment. **(1)**

This study examined the effects of millimeter wave (MW) therapy in 317 patients suffering from duodenal and gastric ulcers. MW therapy consisted of 30 minutes per day exposure of the epigastric area apparatus,(10 mW/cm², 5.6-mm wavelength) until complete ulcer cicatrisation was achieved. Results showed a 95-percent rate of ulcer cicatrisation in patients receiving the treatment compared to a 78-percent rate in controls. One year follow up showed a 54-percent ulcer recurrence rate in MW-treated patients, which was markedly less than the rate for controls. **(2)**

This controlled study found extremely-high-frequency therapy to be an effective treatment in patients suffering from duodenal ulcers. Treatment consisted of 5-10 exposures, lasting 20-30 minutes, and making use of the G4-142 apparatus (53.5-70.0 GHz frequency range). **(3)**

This study compared the effects of traditional drug treatment (TDT) to those of microwave resonance therapy (MRT) in patients suffering from duodenal ulcers. Results indicated the mean hospital stay for patients in the TDT group was approximately 22 days. Throughout this period, ulcers healed in 38 percent of patients, were reduced in 17 percent, showed no change in 43 percent, and increased in 2 percent. No pain relief was seen in 32 percent. contrast, mean discharge time for patients in the MRT group was approximately 12 days. Pain was generally stopped in 3-6 days. Complete healing occurred in 81 percent, a decrease was seen in 16 percent, and ulcer size did not change in just 3 percent. Remission occurred in 98 percent of such patients. **(4)**

In this study, microwave resonance therapy (MRT) was administered to 2642 patients suffering from duodenal ulcers and to 78 with gastric ulcers. Treatment involved the use of a G4-142 device (53.6-78.3 GHz, less than 2 mW/cm² incident power) as well as Elektronika-KVCh and Porog-1 devices. Patients received 6-12 daily exposures of between 20 and 25 minutes. Results showed a total ulcer cicatrization in 80 percent of patients, and arrested pain syndrome in almost 100 percent. **(5)**

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Ulcers (Gastric and Duodenal) (Cont.)

Citations:

(1) M.V. Poslavskii, Treatment of Peptic Ulcer Electromagnetic Irradiation of the Millimetric Range, Sov Med (1),1989, p. 29-31.

(2) M.V. Poslavsky, Experience with Application of Millimeter-Range Radiation for Treatment and Prophylaxis of Stomach and Duodenal Ulcer, Vopr Kurortol Fizioter Lech Fiz Kult, (4),1989, p. 31-36.

(3) M.V. Teppone, Extremely-High Frequency Therapy of Duodenal Ulcer, Klin Med, 9(10), 1991, p. 74-77.

(4) S.S. Dudka, A Comparative Assessment of the Efficacy of Drug Therapy and Microwave Resonance Therapy for Ulcerative Disease of the Duodenum," Fundamental and Applied Aspects of the Use of Millimeter Electromagnetic Radiation in Medicine. Abstracts of the 1st All-Union Symposium with International Participation,May 10-13, 1989, Kiev, Ukraine, p. 195-197.

(5) V.A. Kutzenok, Microwave Resonance Therapy of Stomach and Duodenal ulcers, Fundamental and Applied Aspects of the Use of Millimeter Electromagnetic Radiation in Medicine. Abstracts of the 1st All-Union Symposium with International Participation, May 10-13, 1989, Kiev, Ukraine, p. 192-193.

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