

The invention refers to medicine, in particular to oncology and may be used for cryodestruction of biological tissues of the locally spread malignant tegument and mucosa tumors.

Summary of the invention consists in that the tumoral tissue and at a distance of 3 cm of healthy tissue from around the tumor is preliminarily acted upon by ultrasound having the intensity of 0,3...0,5 W/cm² and the frequency of 880 kHz. The exposure time constitutes 9...11 min. Then, according to the tumor dimension, it is established the number of applied probes, used for destruction of the tumoral tissue and it is determined the distance from the tumor's edge up to the probe according to the formula:

$$R = \frac{a^2 + (2n - 3)b^2}{na^2 + (n - 2)b^2} \cdot \frac{a}{2}$$

and the distance between the probes, determined according to the formula:

$$L = \frac{a^2 - b^2}{(2n - 3)a^2 + (n - 2)b^2} \cdot \frac{a}{2}$$

where

R - the distance from the tumor's edge up to the probe,

L - the distance between the probes,

a - the tumor's length,

b - the tumor's width,

n - the number of applied probes.

Claims: 1