

MODERN CONCEPT OF BIOLOGICAL TISSUES DESTRUCTION AT LOCAL CRYOSURGERY

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***Annotation.** The results of the study of the mechanism of primary damage, inflicted on the biological tissue (by the example of liver) after local cryogen destruction, are described. Such primary damage to the tissue was shown to be related to deformation effects appearing in the process of freezing-defrosting and it would result in death of microcirculation-path vessels. The ischemic tissue necrosis develops later in the cryogen impact area. The causes limiting the possibilities of the cryogen destruction of tissues were defined, i.e. density of the tissue structure and metabolism intensity predetermining a high level of thermal production and leading, in the end, to a stationary state in the bulk.*

***Ключевые слова:** cryosurgery, cryodestruction, primary tissue damage.*

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