



Interstitial, Endocavitary and Perfusional Hyperthermia: Methods and Clinical Trials (Clinical Thermology / Thermotherapy)

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"Internal" hyperthermia is a type of thermotherapy by which heat is supplied to tumor tissue in situ. There are three different techniques for providing internal hyperthermia: (1) interstitial hyperthermia using implanted needle probes, (2) intracavitary hyperthermia using probes introduced into natural body cavities, and (3) perfusional hyperthermia by means of extracorporeal blood heating. Compared with external hyperthermia, internal hyperthermia has been preferentially accepted by oncologists because it can be more easily combined with other forms of treatment, e. g., interstitial thermotherapy with brachytherapy, or perfusional hyperthermia with chemotherapy. Various types of equipment for interstitial and intracavitary thermotherapy have been developed and used quite extensively in clinical trials, generally in combination with radiation therapy. There are four different methods for producing interstitial or intracavitary hyperthermia, each related to different types of heating. Most studies have been performed using radiofrequency electrodes (resistive heating) or coaxial microwave antennas (radiative heating). Recently, however, "hot source" techniques that rely on thermal conduction and blood flow convection for heat transport have found clinical application. These techniques include ferromagnetic implants activated by hot water or by electrical means. In the near future, new methods for interstitial or intraluminal heating based upon advanced ultrasonic and laser technologies will be developed.

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