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Regulation Of The Human Body | Physiology | Biology | FuseSchool

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Presently, there is increasing interest in the use of ultra sound to accomplish these goals. Electromagnetic techniques of external thermotherapy include radiative, capacitive, and, to a lesser extent, inductive procedures. Recent designs for radiative applicators have incorporated microstrip structures.

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Electromagnetic techniques of external thermotherapy include radiative, capacitive, and, to a lesser extent, inductive procedures. Recent designs for radiative applicators have incorporated microstrip structures.

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~~Methods of external hyperthermic heating (Book, 1990 ...~~

Hyperthermia therapy is a type of medical treatment in which body tissue is exposed to higher temperatures in an effort to treat Lyme disease and cancer.. Hyperthermia uses higher temperatures than diathermy, which is the deep heating of body tissue for relaxation or physical therapy. Techniques that bring local tissues to quite high temperatures, such as radio frequency ablation, are also not ...

~~Hyperthermia therapy — Wikipedia~~

Electromagnetic techniques of external thermotherapy include radiative, capacitive, and, to a lesser extent, inductive procedures. Recent designs for radiative applicators have incorporated microstrip structures.

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Three main approaches can be listed: deep-seated tu- mours heated with external applicators, limbs or organs heated by means of thermal

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perfusion, and continuous hyperthermic peritoneal perfusion (CHPP). Common external applicators consist of coherent arrays of dipole antenna pairs positioned in a ring pattern around the patient.

~~Hyperthermia — description of a method and a review of ...~~

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~~Methods of External Hyperthermic Heating Clinical ...~~

What are the different methods of hyperthermia? In local hyperthermia, heat is applied to a small area, such as a tumor, using various techniques that deliver energy to... External approaches are used to treat tumors that are in or just below the skin. External applicators are positioned... ..

~~Hyperthermia in Cancer Treatment — National Cancer Institute~~

Passive, external rewarming involves dry warm clothes and moving to a warm environment. This uses the normal reheating mechanisms of the body. Active external rewarming involves hot air and other heat generating devices. Active internal rewarming involves warmed intravenous fluids, irrigation of body cavities with warm saline.

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~~Difference Between Hypothermia and Hyperthermia | Compare ...~~

Heat exhaustion, for example, is a common condition. But others, such as heat syncope, may be less familiar to you. The following is a list of hyperthermic conditions and other heat-related illnesses.

~~Hyperthermia: Symptoms, Treatment, and More~~

High temperatures can be used to destroy tumor cells, a cancer treatment known as hyperthermic oncology. Although the idea behind this treatment method has been around for some time, it wasn't until recently that new tools and more precise delivery of heat has allowed hyperthermia to be used for cancer treatment.

~~Hyperthermic Oncology: Hyperthermia for Cancer Treatment ...~~

Hyperthermia, also known simply as overheating, is a condition where an individual's body temperature is elevated beyond normal due to failed thermoregulation. The person's body produces or absorbs more heat than it dissipates. When extreme temperature elevation occurs, it becomes a medical emergency requiring immediate treatment to prevent disability or death.

~~Hyperthermia — Wikipedia~~

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External heating techniques for delivery of localized hyper-thermia in patients are reviewed. This paper covers microwaves, radiofrequency, and ultrasound methods. Fundamental principles governing tissue absorption, guidelines for applicator selection and design, and restrictions of each heating approach are discussed.

~~Deep Local Hyperthermia for Cancer Therapy: External ...~~

To achieve hyperthermia using electromagnetic energy, RF of under 100 MHz is basically suitable for the external heating of the deep portions of the body. For applicators using such RF, the following types are considered: capacitive, inductive, radiative and hybrid. With radiative applicators, the i ...

~~Present and future status of noninvasive selective deep ...~~

External deep pelvic hyperthermia using the BSD-2000 device is a safe and reproducible method of heating the bladder in patients undergoing intravesical therapy with mitomycin C for NMIBC. The efficacy of this treatment modality should be explored further in clinical trials.

~~A pilot clinical trial of intravesical mitomycin C and ...~~

Heat is then emitted from the skin and sweat glands simultaneously to keep our body temperature at its normal level. In a hyperthermic

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environment, exercise demands increased blood volume of the skin to radiate heat (Rowell and Blackmon 1986; Rowell et al. 1986), resulting in decreased

~~The role of metaboreceptor on exercise in hyperthermic ...~~

Non-invasive techniques generally include: evaporative cooling, ice water immersion, whole-body ice packing, strategic ice packing, and convective cooling. Invasive approaches may include gastric lavage or peritoneal lavage (Schraga and Kates).

~~Simple and effective method to lower body core ...~~

Magnetic-nanoparticle-mediated intracellular hyperthermia has the potential to achieve localized tumor heating without any side effects. The technique consists of targeting magnetic nanoparticles to tumor tissue followed by application of an external alternating magnetic field that induces heat through Néel relaxation loss of the magnetic nanoparticles.

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