

The Use of Laser in Medicine

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Anotatsiya: This article of the laser in medicine use is about morel the need mentioned and the data given.

Key words: Laser, radiation, light intensity, gas, kogerent, tissue welding, crystals, moamatik, energy, suquqlik, electromagnetic, flow.

LASER-this high intensity light energy narrow light work out of the device. This discovery for the 1964 nobel prize awarded , which is the laser in 1960, the ussr and dementia tau C.(USA)by created is them among the laser of each of the different types there are gas,liquid and solid condition in the laser. The laser radiation doimiyva pulsatsiya be can.

Laser terms of English STIMULATING RADIATION ORALI ENHANCING the light of an abbreviation, ya'see stimulyatsiya made emmissiya using light to enhance that the meaning refers to.From physics it is known that the laser optical in rezonator located in the active environment by foton of stimulyatsiyalangan production as a result of came out that kogerent electromagnetic radiation source is. LASER irradiation of monoxramatik,high density and light energy of flow and order type by separated are. Irradiation laser system diversity will determine.

Laser 1960s-of the year until the end, medicine is started. Recently, laser medicine, three in the direction of appear in them,if it is between the difference in laser light flow strength by determined. Low capacity(mw)irradiation mainly blood in therapy, the risks of tumor endoscopic and photodynamic treatment average power(W)and the surgical method used(laser scalpel)high intense radiation of direct mechanical effects on based is this is to you, the tissue cutting and welding the opportunity to gives.

LASER light, the use of state fokuslangan light of the light energy irradiation in place of the temperature dramatically rise, coagulation(coagulation)get come.

Also, kosmetolog the field widely applied(hair laser with the obtained removal, blood vessels and pigment of skin defects of the treatment,laser peeling, tattoo and young blemishes take away).

Types Of Laser Surgery

Laser jarrohmore continuous or pulsatsiyalanuvchi mode running enough strong the laser is applied, they biological tissue, intense heat is able this while for her to cut or to evaporate and take come.

CO2 laser-the carbon angridrid laser in the 1970s to the present day widely used in the first surgery laser.Water and organic compounds of high assimilation(usually 0.1 mm and depth of depth)CO2 laser gynecology, otorhinolaryngology, general surgery, dermatology, plastic and cosmetic surgery such as a wide range of surgical intervention mark for unsuitable makes.

LASER-surface you the deep burn without biological tissue ex do to the opportunity it gives. This, shuning as, CO2 laser to eyes harmful and does not make because radiation is the king of the veil of the lens does not pass.

Albatta, strong reference to the light, the king of the curtain to the damage caused can, but it protect to for simple glass or plastic ko'zaynakka able to be enough. 10 mkm wave length of uncomfortable with the fact that a good transmission fit to come to an optical fiber work out very difficult va the present day up most best solution-this is a very expensive device is-at hizalanish hard shock and vibration sensitive , which is a window with the tied hand.

Neo laser

Neo laser-this industry and medicine , the most widely - spread hard body is laser. Neodemey laser-Nd by activated yttrium aluminum of lemons crystal: get ya neo ions-high efficiency with and optic radiation output with almost any how work mode in the near infrared range of the strong emission to get the

opportunity to give. Therefore, for CO₂ laser after neo also, surgery is also the treatment for medicine to come.

Such radiation with biological tissues into a depth of 6-8 mm up makes it and its type depends. This that means a CO₂ laser with a different cutting or evaporation effects to achieve neo a few times in high radiation power require it. Secondly, the laser of the wound under the tissue and his surroundings serious injury, this operation from the next treatment towards negative effect it makes and to burn his reaction is typical in which various different complications causing produces scar stenosis, narrowing, and others.

Laser Holmium

Holmium with running yttrium aluminum garnet crystals Ho: get ya the wave length of 2.1 μm , which is the laser radiation to create the biological tissue by better absorbed. His biological tissues to penetrate the depth of approximately 0.4 mm i.e. CO₂ laser are compared. This is the reason for the operation, as the holmium laser, CO₂ laser, all the advantages it has.

Holmium laser irradiation of physical indicators of combination surgery for the most acceptable is out and this is her medicine in various fields in many applications is to find the opportunity it gives.

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