

Combined laser therapy, a new possibility

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At present, there are a few type of lasers commercially available for use in medical field, such as CO₂, Nd-YAG, Ruby and Argon, etc. Each one of them has been used separately according to its characteristics, some applications are well established, and yet some are still to be explored.

At our center in Japan, CO₂, Argon and Nd-YAG lasers have been installed, and recently a few cases of giant hemangioma, giant nevus, with multiple problems that did not react well to a single type of laser treatment, have been treated with the combination use of various type of lasers, for instance, CO₂ for cutting and YAG for coagulation, CO₂ for deep lesion removal, and argon for superficial lesion removal, etc. Details of the treatment will be clearly demonstrated by both slides and 16mm movie.

The results are promising, and we are optimistic about future development of the tunable medical lasers that can be selectively used according to its own characteristics as far as the body reaction is concerned.

联合激光治疗——一种新的可能性

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目前有少数类型激光器商品,如二氧化碳、掺钕钇铝石榴石、红宝石和氩激光器等适于医用。其中每一类型可根据其特点单独应用,有些应用比较成熟,有些尚处于探索阶段。

在我们(日本)的治疗中心,有二氧化碳、氩和掺钕钇铝石榴石激光装置。最近,我们联合应用各种类型激光器治疗少数大血管瘤、大痣(对单一类型激光治疗反应不好)。例如,用二氧化碳激光切割,钇铝石榴石激光凝固,深部病损用二氧化碳激光去除,浅表病损用氩激光去除。治疗细节将以幻灯片和 16 毫米电影详细示教。

从治疗结果看来是有希望的,我们对可调谐医用激光器的将来发展抱乐观态度。可调谐医用激光器可根据其特点以及人体的反应选择应用。