

## عنوان مقاله:

Vestibular Schwannomas Microsurgery Assisted by Flexible Hand-Held 2 micro-Thulium-Fiber Laser

## محل انتشار:

علوم اعصاب کاسپین، دوره 2، شماره 7 (سال: 1395)

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## خلاصه مقاله:

Background: Vestibular Schwannoma (VS) is one of the skull base tumors originating from vestibular portion of eighth cranial nerve. Recently, 2 micro-Thulium laser is used in the surgery of some intracranial tumors. Objectives: Assessing the efficacy of 2 micro-Thulium flexible hand-held laser fiber (RevolixjrÒ) in microsurgical removal of VS. Materials and Methods: This retrospective non-randomized study was carried out from July 2012 to November 2015. 39 patients with VS had been operated on with microsurgical technique via retro-sigmoid approach. 2 micro-Thulium fiber hand-held flexible laser was used for tumor resection in 39 cases. Facial nerves function by House-Brackmann (HB) scale and hearing state were assessed preoperatively and 1 week and 6-month postoperatively. Results: Overall time of surgery changed only in proportion with the size of tumor (185-575 minutes) and was not affected by the use of laser. In 5 out of 39 cases, preoperative facial nerve palsy HB2, and in one case HB4 (permanent) was observed. On considering 38 cases, at 6-month follow-up facial nerve preservation rate (HB1) was 92.1% (from May 2015 all patients had not postoperative facial palsy). Hearing preservation rate was possible in 12 out of 15 cases with previously acceptable preoperative hearing state (AAO-HNS A and B classes). The mean surgeon satisfaction rate of usefulness of this technique was 2.7 in a 0-3-scale. Conclusions: A good functional outcome including facial nerve preservation and hearing preservation was obtained by micro-Thulium-fiber hand-held flexible laser microsurgery.

## کلمات کلیدی:

Vestibular Schwannoma; Facial Nerve Preservation; Hearing Preservation; 2-micro Thulium Laser

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