December 2021

Academy Express ฉบับวันที่ 18 Dec 2021

Yttrium aluminium garnet lasers improved meibomian gland dysfunction in patients with baggy eyelids

Investigators studied the effectiveness and safety of upper and lower eyelid treatment with combined application of three modes of 2940-nm erbium-doped yttrium aluminium garnet (Er:YAG) and 1064-nm neodymium- doped yttrium aluminium garnet (Nd:YAG) lasers in patients with baggy eyelids who exhibited meibomian gland dysfunction (MGD). The primary endpoint was meibum quality score at 16- and 24-week follow- ups; secondary endpoints were ocular surface index scores, tear film lipid layer thicknesses, tear break up times (TBUTs), Oxford scheme grades, and meibography grades at 16- and 24-week follow-ups. The results showed significantly improved meibum quality in patients with MGD; it ameliorated symptoms and signs of dry eye disease at 4 weeks after completion of laser
treatment. Clinical Ophthalmology, July 2021
https://pubmed.ncbi.nlm.nih.gov/34295145/

Academy Express ฉบับวันที่ 11 Dec 2021

Steroid therapy in combination with endoscopic optic nerve decompression for direct traumatic optic neuropathy: a case-series

The authors retrospectively reviewed the medical records of 13 patients (15 eyes) with direct traumatic optic neuropathy to evaluate the outcomes of steroid therapy in combination with endoscopic optic nerve decompression surgery. The main outcome was visual acuity improvement after the treatment. Despite poor prognosis of the disease, prompt treatment with this combined protocol provided a favorable success rate, with most patients having stable vision and nearly half having visual improvement by reducing intracanalicular pressure of the optic nerve. Journal of the Medical Association of Thailand, July 2021
http://www.jmatonline.com/index.php/jmat/article/view/12657

Academy Express ฉบับวันที่ 4 Dec 2021

Visual outcome of endogenous endophthalmitis tied to initial visual acuity

The investigators evaluated 10-year visual outcomes of patients with endogenous endophthalmitis (EE) in Thailand. Thirty-eight patients (40 eyes) were diagnosed with EE at the mean age of 42. Among the identifiable pathogens (71.1% culture positive), the causative agents were predominantly gram-negative bacteria (48.1%). The most common species was Klebsiella pneumoniae (25.9%). About a quarter of the patients required surgical eye removal, and of the remaining 45.7% had visual acuity (VA) worse than hand motion at one month after the infectious episode. Poor initial visual acuity is the only prognostic factor of a poor early post-treatment visual outcome of *EE. Scientific Reports*, July 2021
https://pubmed.ncbi.nlm.nih.gov/34253792/