

May 2021

Academy Express ฉบับวันที่ 29 May 2021

Microvascular attenuation in eyes with resolved AACG is comparable to POAG

Researchers compared peripapillary perfused capillary density (PCD) in eyes with resolved acute angle-closure (AACG) and primary open angle glaucoma (POAG). Imaging with OCT angiography showed that the degree of microvascular attenuation in both groups was similar. The authors recommend ending use of glaucoma medication after IOP normalization but note the need for additional research to explain the relationship between PCD alterations and IOP-induced damage. *Asia Pacific Journal of Ophthalmology*, March-April 2021

<https://pubmed.ncbi.nlm.nih.gov/33481392/>

Academy Express ฉบับวันที่ 22 May 2021

Vitreous block can occur in patients with pseudophakia

In this paper, the authors describe a patient with pseudophakic angle closure due to vitreous block after ureteroscopic lithotripsy under general anesthesia. They note that this patient had vitreous prolapse due to a prior trauma with inadequate vitrectomy. General anesthesia, they added, might contribute to vitreous block in susceptible patients. *International Medical Case Reports*, January 2021

<https://pubmed.ncbi.nlm.nih.gov/33536795/>

Academy Express ฉบับวันที่ 15 May 2021

Deep learning model for anterior segment OCT may help detect plateau iris

This study tested a deep learning model for detecting plateau iris from anterior segment OCT images. Using scans from 179 patients with primary angle-closure disease (PACD), the model performed with 88% sensitivity and 98% specificity. The authors conclude that it could potentially help better detect this non-pupillary block mechanisms in patients with this PACD. *Translational Vision Science & Technology*, January 2021

<https://pubmed.ncbi.nlm.nih.gov/33505774/>

Academy Express ฉบับวันที่ 8 May 2021

Sterilization of single-use instruments can help mitigate endophthalmitis after vitrectomy

This retrospective study assesses the rate of endophthalmitis after pars plana vitrectomy (PPV) with recycled single-use devices. There was no statistical difference in the rate of endophthalmitis among patients who underwent 23- or 25-gauge vitrectomy. In addition, the authors report that their standardized protocol for instrument sterilization led to endophthalmitis rate that were comparable to previous studies that disposed of vitrectomy tools after one use. *International Journal of Retina and Vitreous*, January 2021

<https://pubmed.ncbi.nlm.nih.gov/33407931/>

Academy Express ฉบับวันที่ 1 May 2021

Pseudoexfoliation syndrome has greater microvascular attenuation than true exfoliation syndrome

Researchers compared peripapillary perfused capillary density (PCD) in eyes with true exfoliation (TEX) and pseudoexfoliation (PEX) syndrome. Imaging by OCT angiography revealed that the PEX

group had a greater loss of annular PCD than both the TEX group and healthy eyes. These findings suggest more microvascular attenuation in PEX and that PEX and TEX are separate diseases. *PLOS One*, December 2020 33301460/

<https://pubmed.ncbi.nlm.nih.gov/33301460/>