

**UK Paediatric Glaucoma Society (UKPGS) Annual Meeting**  
**Saturday 23<sup>rd</sup> January 2021, 10:30 – 16:35 GMT**

Approved CPD 6 points (Royal College of Ophthalmologists)

## **Abstracts**

### **8 - Use of cross-linked hyaluronic acid (Healaflow) to reverse chronic hypotony after angle operation**

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**Introduction:** A 7-year-old boy of Polish ancestry with familiar phenotype of diabetes mellitus type I, childhood onset glaucoma and midline facial anomaly was referred to our Paediatric Glaucoma Clinic due to hypotony following angle operation (temporal trabeculotomy and nasal goniotomy) in a different paediatric unit. His sister had developed similar hypotony after angle operation but it resolved spontaneously after a few months. The patient underwent examination under anaesthesia, the IOPs were measured 4 mmHg right eye with a shallow anterior chamber and 38 mmHg left eye. Gonioscopy showed no evidence of cyclodialysis cleft. An injection of 0.125 mL of cross-linked hyaluronic acid (Healaflow, SWISSMED Pte Ltd) in the right anterior chamber and a left 180 degrees GATT procedure were carried out. Day 1 post-operative examination showed severe hypertony in the right eye and normal IOP in the left eye. He required immediate paracentesis and multiple releases of aqueous humor from AC on the slit-lamp in the first and second day. The IOP returned to normal on day 4.

**Conclusions:** Healaflow can be used to reverse chronic hypotony but could lead to prolonged increased intra-ocular pressure in eyes that is difficult to reverse. Careful post-operative monitoring is important to treat severe hypertony after Healaflow injection especially after the first injection.