

## Corneal changes in ICHTHYOSIS

These have been described as long back has in 1968 by Rolf Black and Barrie Jay in a paper in the British Journal of ophthalmology. The beautiful hand drawings give a clear picture of the sort of corneal changes that they found 62 patients that was seen at Moorfields.

Not only do they describe the changes in the skin that may be seen around the eyelids which may cause ectropion to form but also changes within the cornea which can consist of early band keratopathy as well as punctate grey opacities within the stroma. They noted to that they were more obvious with retro elimination and indicated that they were at Descemets level.

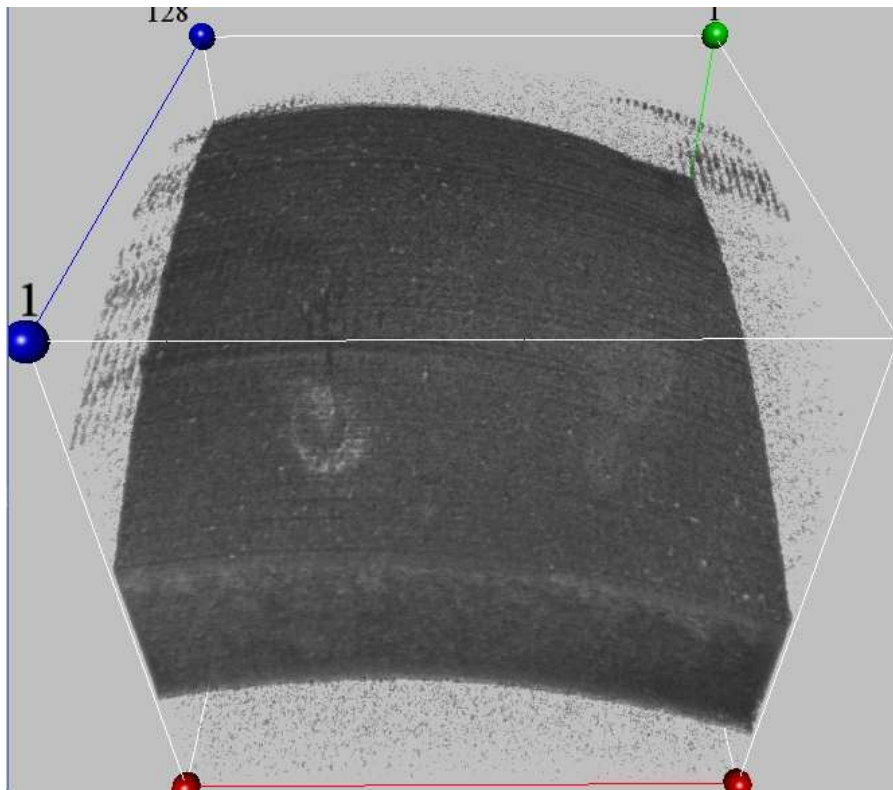
The entire paper can be read at this website.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC506559/pdf/brjopthal00339-0001.pdf>

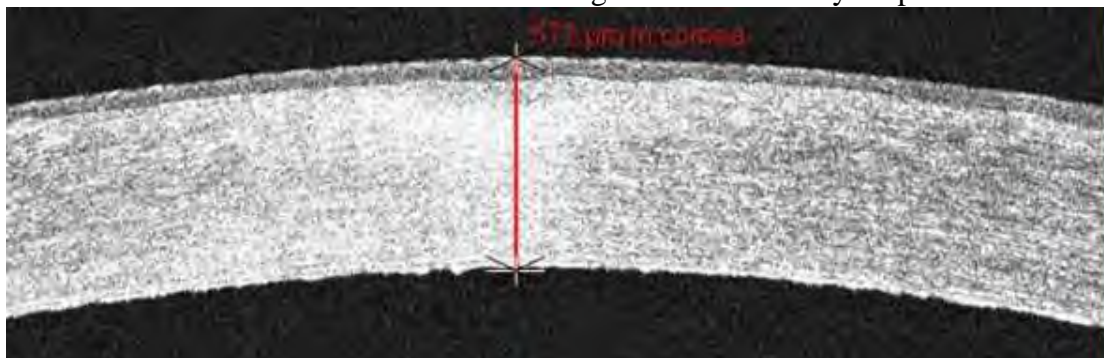
Below is an OCT image of the superficial corneal opacities in some one who has ICHTHYOSIS



**Below is a 3D corneal map of the superficial cornea showing Placoid like changes in the superficial cornea.**



Below is a cross-section of the cornea showing the Descemets layer opacities



The long-term significance of such opacities is unclear but there appears to be no reports in the literature of corneal decompensation. However clearly if cataract surgery is required then special care needs to be taken to protect the endothelial layer by using a non-dispersive viscoelastic.

Another new paper published in the year 2000 in the journal cornea describes corneal changes in two brothers and can be read here

<http://www.ncbi.nlm.nih.gov/pubmed/11095067>

**Nicholas Lee 2011**

This document was created with Win2PDF available at <http://www.win2pdf.com>.  
The unregistered version of Win2PDF is for evaluation or non-commercial use only.  
This page will not be added after purchasing Win2PDF.