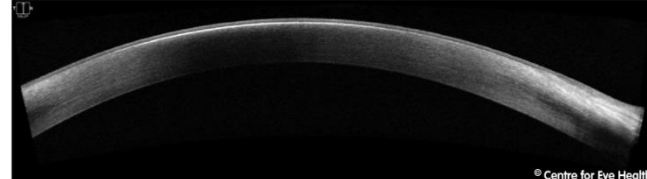
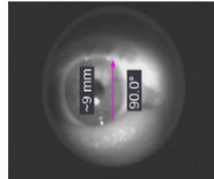
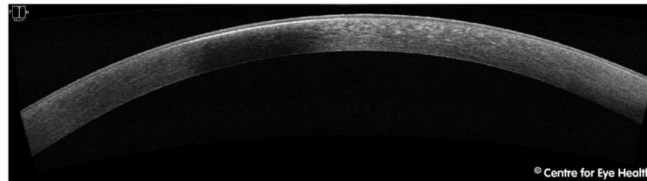
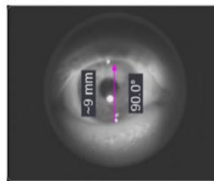
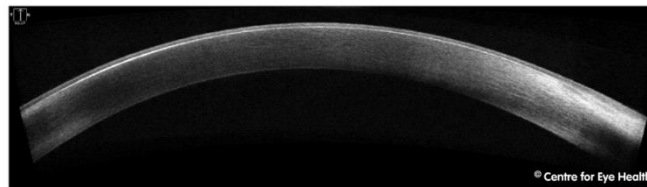
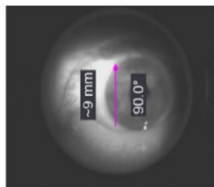




CFEH Facebook Case #106

A 68 year old Caucasian female presented for examination. She reports good general health and takes vitamin D supplements. Best corrected visual acuity is 6/6 in each eye. As both eyes have a similar appearance, only the right eye is shown here. Identify the corneal condition seen here and the appropriate management of this patient.



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Optometry

NEW SOUTH WALES
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ANSWER

Band keratopathy.

The anterior eye photos showed a band-shaped, horizontal, grey corneal opacity within the intra-palpebral fissure with involvement of the central cornea of the right eye. Cirrus anterior OCT imaging shows increased reflectivity in the Bowman's layer in the affected area with associated posterior shadowing.

These findings are consistent with a diagnosis of band keratopathy, which is a corneal degeneration characterised by calcium deposition mainly within Bowman's layer. It may be associated with hypercalcaemia (among other causes), which in turn may be induced by systemic conditions such as vitamin D toxicity, hyperparathyroidism and sarcoidosis. This diagnosis should be communicated to the patient's GP and investigations carried out for hypercalcaemia.