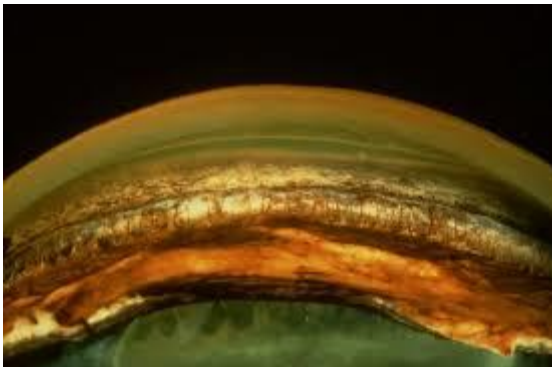


Direct Gonioscopy lenses

Barkan Lo-vac



Koepe Lens



A 20D aspheric lens may also be used to compress/indent the central cornea – but may distort the drainage angle and make interpretation challenging.

Breeds at risk – Angle closure/closed angle glaucoma

Primary angle closure/closed angle glaucoma is significantly associated with defective development of the drainage angle which is termed **goniodysgenesis** (gonio = angle, dysgenesis = defective development).

Goniodysgenesis is inherited in several breeds and is tested for using a technique called **gonioscopy**. It was originally believed that the degree of goniodysgenesis did not progress after birth and so a 'one-off' test before breeding was advised for dogs of certified breeds.

However, recent research has provided evidence of progression of goniodysgenesis with age in several breeds, namely the Flat Coated Retriever, Welsh Springer Spaniel, Dandie Dinmont Terrier, Basset Hound and Leonberger.

In consequence, the advice on gonioscopy has been updated for all breeds in which gonioscopy is performed. As from July 1st 2017 it is advised that gonioscopy should be repeated.

For Schedule A breeds gonioscopy should be carried out every 3 years, unless any evidence to the contrary emerges. The first test can be performed in dogs of 6 months or older.

A simple grading scheme (0-3) for gonioscopy was agreed by the Eye Panel Working Party in 2016 and will be piloted in 2017 before being formally adopted from July 1st 2017.

The grading scheme is used to complement the 'Clinically Unaffected' or 'Clinically Affected' classification of the results of examination.

Grade	Gonioscopic findings	Diagnosis
0	Normal iridocorneal angle (ICA) with no/minimal pectinate ligament dysplasia (PLD)	Clinically Unaffected
1	<25% of ICA affected by PLD	Clinically Unaffected
2	25-75% of ICA affected by PLD	Clinically Unaffected
3	>75% of ICA affected, and/or severe narrowing of ICA	Clinically Affected

Breeds currently certified for goniodysgenesis under the Eye Scheme are as follows:

- Basset Hound (listed for POAG **and** goniodysgenesis)
- Border Collie
- Dandie Dinmont
- Hungarian Vizsla
- Japanese Shiba Inu
- Leonberger
- Retriever (Flat Coated)
- Retriever (Golden)
- Siberian Husky
- Spaniel (American Cocker)
- Spaniel (Cocker)
- Spaniel (English Springer)
- Spaniel (Welsh Springer)
- Spanish Water Dog