

**Appendix IV:****ACES submissions as a percentage of registrations (2008) & Litters July 2009 - June 2010**

<b>Breed</b>	<b>Sch 1</b>	<b>Sch 2</b>	<b>Repeat defects</b>	<b>Litters</b>
Golden Retriever ( <b>490, 18.05%</b> ) 442 no lesions (excl. gonioscopy) 400 no lesions (incl. gonioscopy)	HC 11 MRD 7	nil	distichiasis 6 lid apposn./puncta 7 corneal lipidosis 6 iris cysts 0, PPM 2 nuclear/cortical cataract 1 goniodysgenesis (>33%) ? retinal scars (non-congen) 10	6L, 6 unaff early PPM scars
Cavalier K Charles Sp ( <b>266, 8.54%</b> ) 220 showed no lesions	MRD 16	nil	distichiasis 13 lipid dystrophy 10 nuclear cataract 2 perinuclear cataract 1 retinal scars 2	8L, 7 unaff 3P nucl cat 2P capsular cat 1P lenticonus
Labrador Retriever ( <b>226, 5.3%</b> ) 199 showed no lesions. Gonioscopy is not routine	HC 5 MRD 7 (2 geo)	nil	distichiasis 1 corneal lipidosis 3 nuclear/cortical cataract 4 PPM 2, RPED 1 goniodysgenesis 1 retinal scars (? non-congen) 9	6L, 6 unaff
Miniature Schnauzer ( <b>175, 14.43%</b> ) 162 showed no lesions	HC 1	nil	distichiasis 13 focal cataracts 3	18L, 16 unaff 1P pers. hyaloid 1P PTVL
Australian Shepherd ( <b>67, 19.03%</b> ) 62 showed no lesions	nil	HC 2	distichiasis 3	22L, 20 unaff 2L MRD
Miniature Bull Terrier ( <b>66, 23.1%</b> ) 36 showed no lesions	PLL 10	nil	sub-clin lens lux 11 endothelial def /PPM 7 Ret hyperreflectivity 1	1L – ext corneal PPM scars
Siberian Husky ( <b>60, 9.41%</b> ) 47 showed no lesions (excl. gonio) 40 showed no lesions (incl. gonio)	G 5 HC 2	nil	distichiasis 2, puncta 2 cortical cataract 1 retinal scars (?acq) 2	
Border Collie ( <b>50, 2.52%</b> ) 42 showed no lesions (excl. gonio) 37 showed no lesions (incl. gonio)	nil	nil	PPM (I-I) 2 goniodysgenesis 6	5L, 5 unaff. 2P CH 1P PPM
Am. Cocker Spaniel ( <b>45, 42.0%</b> ) 18 showed no lesions	MRD 6 HC 3	nil	distichiasis 5 focal cortical cat 3	nil

Belgian Shepherd (**44, 13.71%**)

39 showed no lesions (across all 4 varieties)

Groenendael	18 / 14	PPM 3	nil
Lakenois	4 / 4		
Malenois	5 / 5	nil	nil
Tervueren	17 / 16	HC 1	nil

Shetland Sheepdog (**41, 5.22%**)

27 showed no lesions

CH 11	nil	distichiasis 6	81L, 46 unaff
coloboma 0		corneal lipidosis 3	30L CH only
		cataract 1	5L CH+coloboma
			2P PPM
			3P persist. hyaloid

Staffordshire Bull Terrier(**40\*, <1%**)

24 showed no lesions

nil	nil	distichiasis 7	21L, 18 unaff
		focal cataract 3	13P distichia
		retinal scars 4	1P MRD focal

Alaskan Malamute (**36, 14.23%**)

31 showed no lesions

HC 1	nil	PPM 2, MRD 1	
		distichiasis 2	

Finnish Lapphund (**34, 68.0%**)

34 showed no lesions

nil	nil	linear fundus lesion	nil
		? MRD ( <i>MEB</i> )	

Eng. Springer Spaniel (**32, 10.39%**)

27 showed no lesions

nil	nil	punctal atresia 1	3L, 1 unaff
		nuclear cataract 1	
		MRD 1	

Havanese (**24, 28.57%**)

21 showed no lesions

?	?	distichiasis 2	
		MRD 1	

Swedish Vallhund (**24, 75.0%**)

12 showed no lesions

nil	nil	MRD 4 PPM 3	
		distichiasis 2	

Welsh Springer Spaniel (**23, 27.7%**)

15 showed no lesions

goniodys- 5	nil	distichiasis 3	nil
genesis		PPM 3	

Flat Coated Retriever (**20, 23.25%**)

17 no lesions (all incl. gonio)

goniodys- 1	nil	distichiasis 1	nil
genesis		post cortical cat 1	

Tibetan Terrier (**20, 25.0%**)

19 showed no lesions

nil	HC 1		nil
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Poodle Standard (**16, 5.30%**)

15 showed no lesions

nil	nil	nuclear cataract 1	2L, 2unaff
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Samoyed (**16, 3.97%**)

12 showed no lesions (excl gonio)

? showed no lesions (incl gonio)

nil	nil	distichiasis 1	2L, 2 unaff
		corneal lipidosis 2	
		(acq.) retinal scars 1	

Puli ( <b>14, 45.16%</b> ) 12 showed no lesions	MRD 1	nil	focal cataract 1 (AO)	1L 1 unaff
Curly Coat Retriever ( <b>12, 12.10 %</b> ) 9 showed no lesions	nil	nil	PPC 2 distichiasis 1	nil
Tibetan Spaniel ( <b>11, 3.0%</b> ) 9 showed no lesions	nil	nil	distichiasis 1 focal cortical cat 1	nil
American Staffordshire ( <b>10, 0.91%</b> ) 8 showed no lesions	nil	nil	distichiasis 2	nil
Collie Rough ( <b>10, 2.28%</b> ) 6 showed no lesions	CH 4 CH+colo 1	nil	53 Litters tested, of which 5 unaff (21P). 48 Litters (128 pups) with CEA evidence 97 pups choroidal hypoplasia (CH) only 32 P CH + coloboma, 8 P retinal det/Hge Also - 3P PPMs, 9 retinal folds / MRD	
Collie Smooth ( <b>0, %</b> )	nil	nil	nil	3L, 3 unaff. 15 pups in total
Poodle Miniature ( <b>10, 2.87%</b> ) 9 showed no lesions	nil	nil	ON hypoplasia 1	2L, 1 unaff 2P ON hypopl
Basenji ( <b>9, 6.57%</b> ) 2 showed no lesions	PPM (I-I) 6 PPM (I-C) 1	nil	nil	2L, 1 unaff 2P PPM (I-I)
Field Spaniel ( <b>9, 32.14%</b> ) 8 showed no lesions	nil	MRD	nil	nil
Italian Greyhound ( <b>9, 2.28%</b> ) 8 showed no lesions	nil	nil	PRA/abiotrophy 1	
Old English Sheepdog ( <b>8, 11.27%</b> )	nil	nil	acq. ret. detach 1	2L, 2 unaff
Portugese Water Dog ( <b>8, 13.11%</b> ) 6 showed no lesions	nil	nil	PRA * (CW) HC * (CW)	
Lagotto romagnolo ( <b>8, 5.26%</b> ) 6 showed no lesions	nil	nil	TF vermiform BVs post-trauma cataract 1	
Basset Hound ( <b>7, 3.66%</b> ) 5 normal on gonioscopy	gonio- 2 dysgenesis	nil	ectropion 1 MRD 1	
Brittany ( <b>7, 10.77%</b> )	nil	nil	nil	nil
German Spitz (Mittel) ( <b>7, 11.86%</b> ) 6 showed no lesions	nil	nil	distichiasis 1	nil

Gordon Setter ( <b>7, 11.86%</b> ) 5 showed no lesions	nil	nil	punctal atresia	
Neapolitan Mastiff ( <b>7, 3.74%</b> ) 4 showed no lesions	?	?	KCS assoc with lid apposition defects	
Bedlington Terrier ( <b>6, 17.64%</b> )	nil	nil	nil	nil
Nova Scotia DT Retriever ( <b>6, 11.5%</b> ) 6 showed no lesions	nil	nil	nil	
Petit Basset Griffon ( <b>6, 22.2%</b> ) Vendeen - 5 showed no lesions	nil	nil	PPMs fine	
Australian Kelpie ( <b>5, 2.76%</b> )	nil	nil	nil	nil
Bichon Frise ( <b>5, 1.20%</b> ) 3 showed no lesions	nil	nil	MRD 2	nil
Chinese Crested Dog ( <b>5, 1.95%</b> )	nil	nil	nil	nil
Leonberger ( <b>5, 41.6%</b> ) 3 showed no lesions	nil	nil	PPM 1 (I-I) distichiasis 1	nil
Akita ( <b>4, 2.33%</b> )	nil	nil	nil	nil
Griffon Bruxellois ( <b>4, 2.53%</b> ) 1 showed no lesions	nil	nil	PPM's (I-I) 3	nil
Australian Cattle Dog ( <b>3, 0.27%</b> )	nil	nil	gonio not done	nil
Aust Stumpy Cattle Dog ( <b>3, 1.97%</b> ) 3 showed no lesions	nil	nil	nil	nil
Boston Terrier ( <b>3, 2.5%</b> )	HC 1	nil	nil	1L 1 unaff
Clumber Spaniel ( <b>3, 13.6%</b> ) 1 showed no lesions	nil	nil	entropion pigk keratitis	
Dandie Dinmont ( <b>3, 14.28%</b> )	nil	nil	gonio not done	nil
Dalmatian ( <b>3, )</b> )	nil	nil	nil	
Dogue de Bordeaux ( <b>3, )</b> )	nil	nil	nil	
Jack Russell Terrier ( <b>3, 0.28%</b> )	nil	nil	PPM endo scars	nil
Polish Lowland Sheepdog ( <b>3, 42.8%</b> ) nil	nil	nil	distichiasis 1	

Pug (3, 0.20%)	nil	nil	med. canthal 2 entropion	nil
Bernese Mountain Dog (2, 0.6%)	nil	nil	nil	nil
Borzoi (2, 4.76%)	nil	nil	nil	nil
French Bulldog (2, 0.4%)	nil	nil	nil	nil
German Pinscher (2, )	nil	nil	nil	nil
German Shorthaired Pointer (2, )	nil	nil	distichiasis	
Giant Schnauzer (2, 3.84%)	nil	nil	nil	nil
Hungarian Vizsla (3, )	nil	nil	nil (1 was a wire)	
Lowchen (2, 2.98%)	nil	nil	nil	nil
Papillon (2, )	nil	nil	nil	nil
Pointer (2, 1.27%)	nil	nil	nil	nil
Poodle Toy (2, 0.14%) 1 showed no lesions	nil	nil	distichiasis 1	
Rottweiler (2, 0.14%)	nil	nil	nil	nil
Weimaraner (2, 0.35%)	nil	nil	nil	nil
Welsh Corgi Pembroke (2, 0.46%)	nil	nil	nil	nil
Bearded Collie (1, 2.12%)	nil	nil	nil	
Bouvier des Flandres (1, )	nil	nil	nil	
Doberman Pinscher (1)	nil	nil	nil	1L, unaff
Norfolk Terrier (1, 5.5%)	nil	nil	prom ONH ?	nil
Swedish Lapphund (1, )	nil	nil	nil	
Whippet (1, )	nil	nil	nil	
Yorkshire Terrier (1, )			unilat senile cat	

**Totals for the period 12 June 2009 to 16 June 2010**

**2080 Adult exams    240 Litters**

**Totals reported to date :            7208 adult exams**  
**Forms distributed by AVA:        8700 adult forms**

**944 litter assessments**  
**1675 litter forms**

**Dr Bruce Robertson**  
**ACES Chief Panellist**

**25 June 2009**