



Border Collie

Pedigree Breed Health Survey

Forms were received representing 1,005 living dogs & 119 deceased dogs.

Mortality results

A total of 119 deaths were reported, representing 2.12% of all deaths reported in the Pedigree Breed Health survey. The median longevity for the Border Collie was 12 years (Figure 1). Table 1 shows the causes of death for the breed. Age at death is presented for the most common causes in Figure 2.

Table 1 The twenty most common causes of death/reasons for euthanasia (N = 119 deceased dogs).

Cause of death	Number of cases	Proportion (%)
Old Age	10	8.40
Brain tumour	9	7.56
Cancer - unspecified	8	6.72
Epilepsy	6	5.04
Lymphoma	6	5.04
Seizure	6	5.04
Cardiac heart Failure	5	4.20
Kidney Failure	5	4.20
Old Age combinations	4	3.36
Unknown	4	3.36
Aggression	3	2.52
Arthritis	3	2.52
Hepatic liver tumour	3	2.52
Blood vessel tumour Hemangiosarcoma	2	1.68
Bone tumour	2	1.68
Canine vestibular disease	2	1.68
Cardiac Heart murmur	2	1.68
Cushing's Disease	2	1.68
Mammary tumour	2	1.68
Pericardial effusion	2	1.68

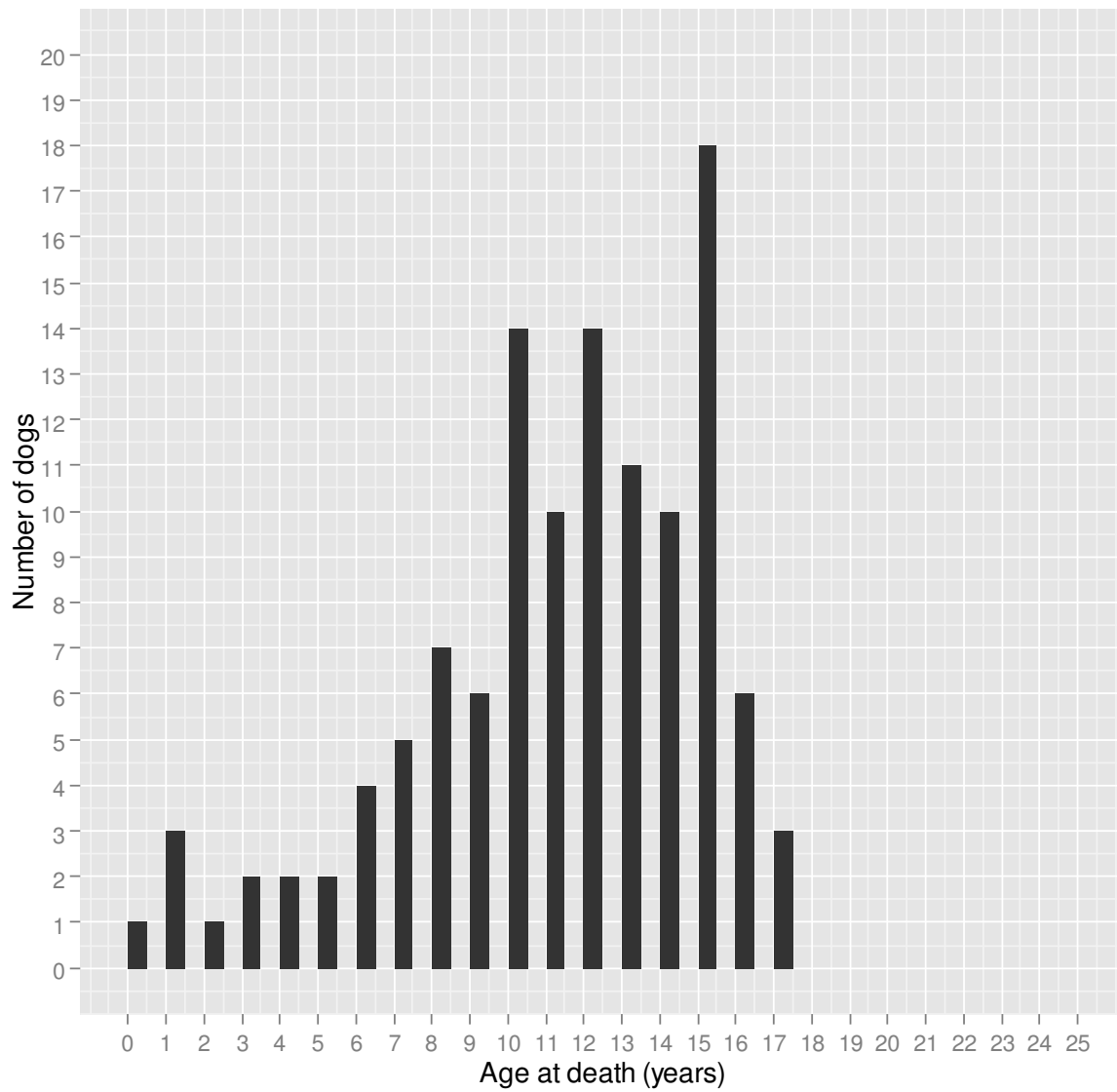


Figure 1: Histogram of the longevity for 119 reported deaths: overall median age at death was 12 years (minimum= 0 years, maximum= 17 years); mean age at death was 11.06 years

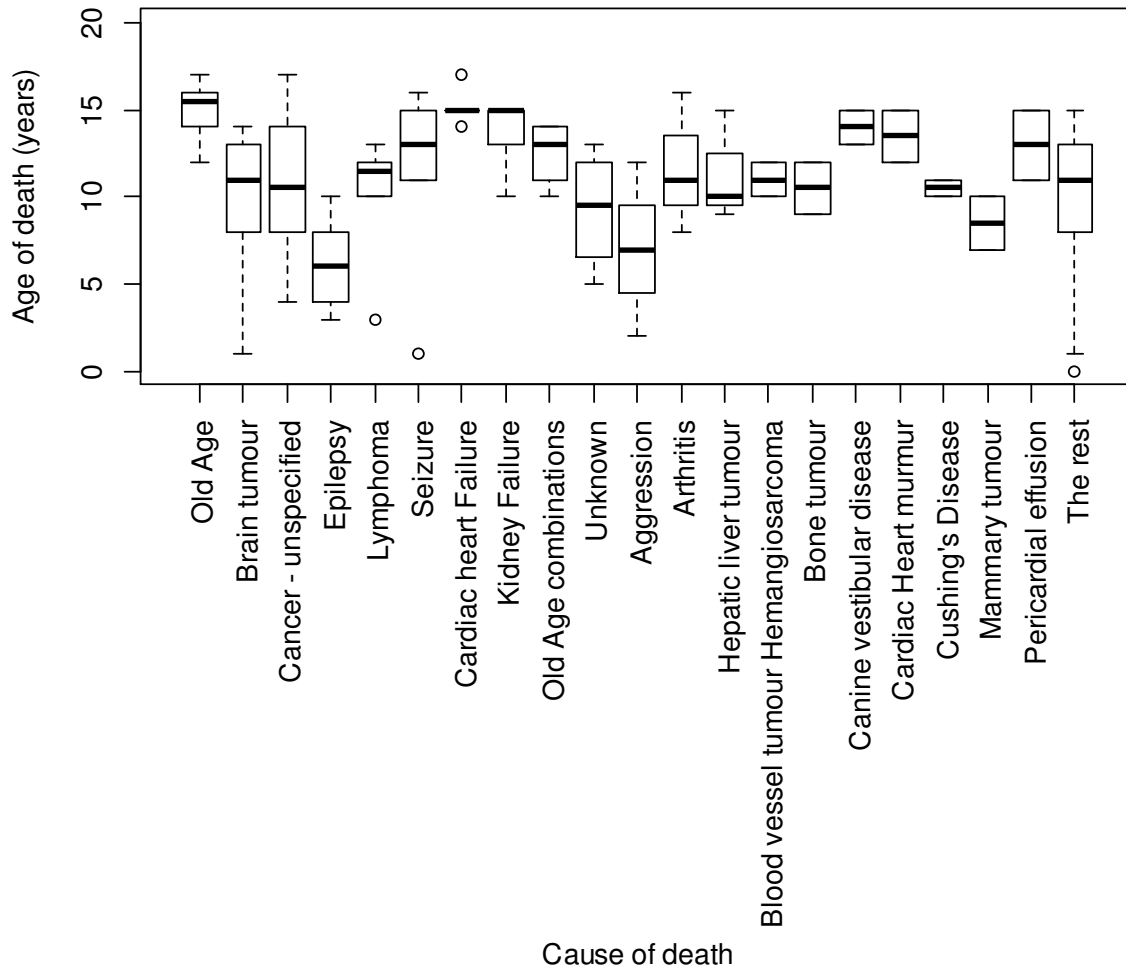


Figure 2: Box and whisker plot of age at death in years for the twenty most common causes of death (N=119). The solid line within each box represents the median age of death from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition. The circles (o) represent possible outliers

Morbidity results

The 1,005 live Border Collies represented 2.12% of total dogs in the survey. The median age of live dogs for the breed was 5 years (Table 2). Of the 1,005 Border Collie which the survey covers, 757 had reported no conditions and 248 reported affected by at least one condition(min = 1 condition(s), max = 7 conditions), giving a total of 415 incidents of conditions.

The gender, neuter status and age of neutering summary statistics for Border Collie's are shown in Table 3. There were 822 dogs with responses for Body Condition displayed in Table 4.

The median age the dogs were first affected by a condition was 4 years (min = 0 years, max= 14 years, Figure 3). The ages for the most common conditions is displayed in Figure 4. Table 5 shows the frequency of occurrence of all reported disease conditions for the Border Collie.

Table 2: The summary statistics for the dogs' current age when survey was completed

Number of Dogs	Mean age (years)	Median age (years)	Min age (years)	Max age (years)
1013	5.16	5	0	18

Table 3: Gender, neuter status and age summary statistics for dogs where gender and neuter status was reported

Sex	Neuter status	Age known	Count	Mean age neutered (years)	Median age neutered (years)	Min age neutered (years)
Female	Neutered	Yes	330	1.65	1	0
Female	Neutered	No	11	NA	NA	NA
Female	Not neutered	No	154	NA	NA	NA
Female	Unknown	No	11	NA	NA	NA
Male	Neutered	Yes	263	1.34	1	0
Male	Neutered	No	4	NA	NA	NA
Male	Not neutered	No	222	NA	NA	NA
Male	Unknown	No	10	NA	NA	NA

Table 4: The body condition comment and the age of the dog when this comment was made

Body condition	Count	Mean age comment made (years)	Median age comment made (years)	Min age comment made (years)	Max age comment made (years)
No comment was made by vet	62	4.15	3.5	0	14
Normal	708	4.42	4	0	15
Somewhat overweight	36	6.39	6.5	0	14
Somewhat underweight	16	4.50	2	0	14

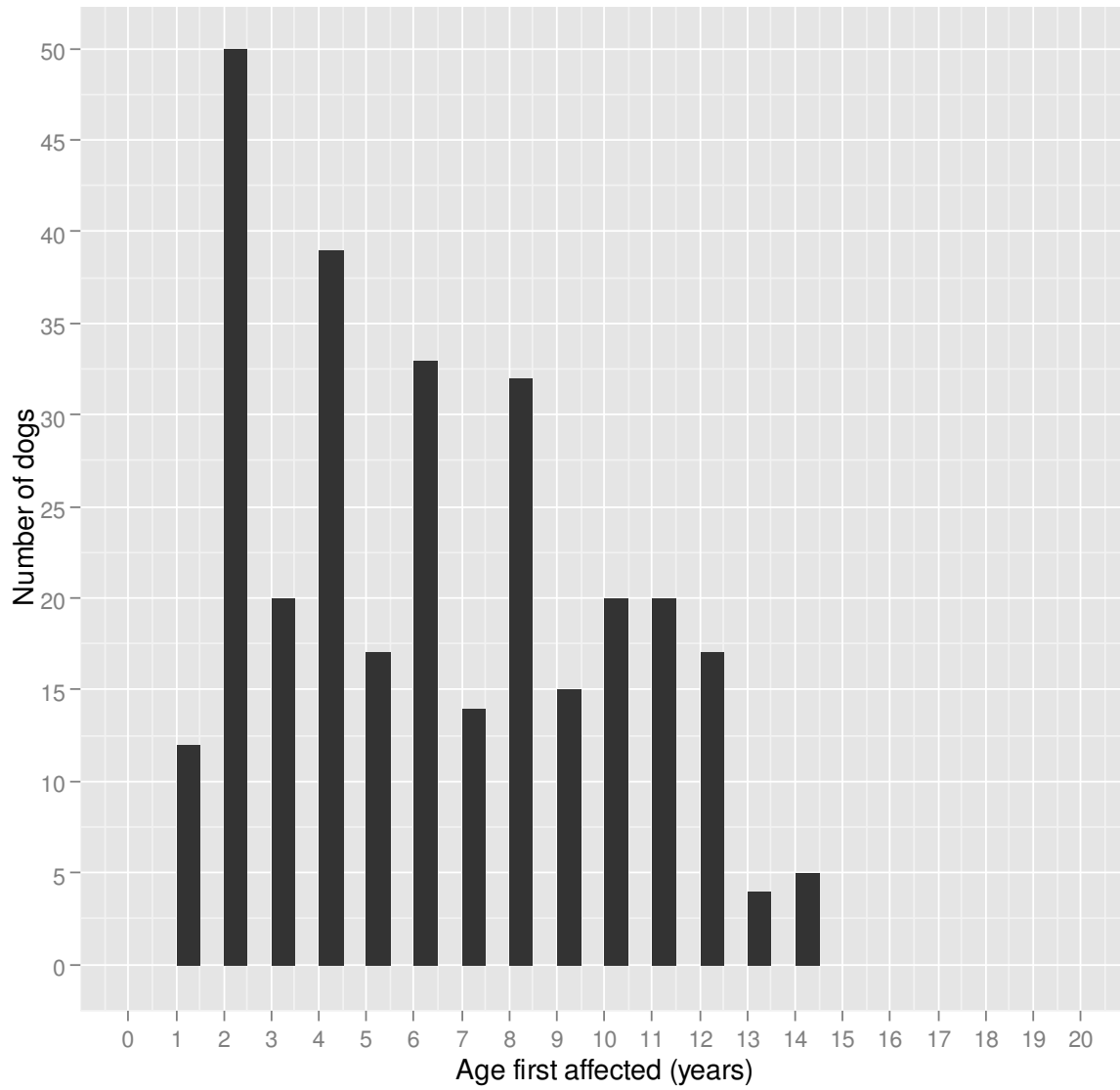


Figure 3: Histogram showing frequency of known age at diagnosis for the disease conditions reported

Border Collie Age first affected by condition

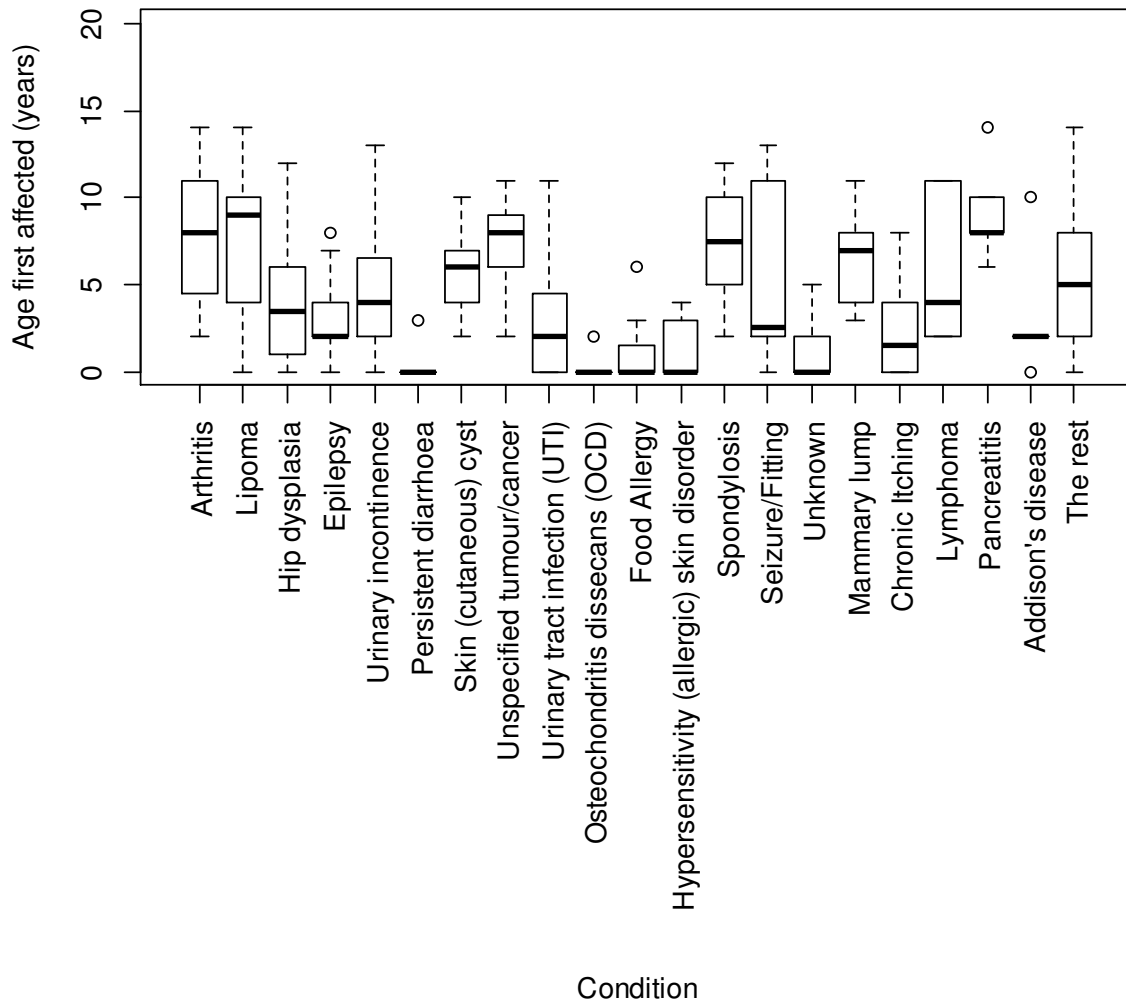


Figure 4: Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order. The solid line within each box represents the median age at diagnosis from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition. The circles (o) represent possible outliers

Table 5: The most commonly reported disease conditions in descending order for the breed (N = 1,005 live dogs)

Condition	Number of cases of disease	Proportion (%)	Prevalence (%)
Arthritis	30	7.23	2.99
Lipoma	27	6.51	2.69
Hip dysplasia	18	4.34	1.79
Epilepsy	17	4.10	1.69
Urinary incontinence	15	3.61	1.49
Persistent diarrhoea	12	2.89	1.19
Skin (cutaneous) cyst	12	2.89	1.19
Unspecified tumour/cancer	11	2.65	1.09
Urinary tract infection (UTI)	11	2.65	1.09
Osteochondritis dissecans (OCD)	10	2.41	1.00
Food Allergy	8	1.93	0.80
Hypersensitivity (allergic) skin disorder	8	1.93	0.80
Seizure/Fitting	7	1.69	0.70
Spondylosis	7	1.69	0.70
Chronic Itching	6	1.45	0.60
Mammary lump	6	1.45	0.60
Unknown	6	1.45	0.60
Addison's disease (primary hypoadrenocorticism)	5	1.20	0.50
Cruciate disease	5	1.20	0.50
Cryptorchidism	5	1.20	0.50

Proportion of morbidity as %= N/415 disease conditions, prevalence %= N/1,005 live dogs

Summary

From the dogs surveyed, most Border Collies were not affected by a disease condition (75.32%). The most commonly reported disease condition in live dogs was arthritis. The most commonly reported cause of death was old age.