



**THE KENNEL CLUB
DOG HEALTH**

Collie (Rough)

Pedigree Breed Health Survey

Forms were received representing 212 living dogs & 37 deceased dogs.

Mortality results

A total of 37 deaths were reported, representing 0.66% of all deaths reported in the Pedigree Breed Health survey. The median age for the Collie (Rough) 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 = 37 deceased dogs).

Cause of death	Number of cases	Proportion (%)
Cancer - unspecified	4	10.81
Kidney Failure	4	10.81
Old Age	4	10.81
Old Age combinations	3	8.11
Stroke	2	5.41
Adverse reaction to drugs	1	2.70
Aggression	1	2.70
Arthritis	1	2.70
Bone tumour	1	2.70
Cardiac heart Failure	1	2.70
Gastric tumour	1	2.70
Hepatic liver tumour	1	2.70
Infection - unspecified	1	2.70
Leishmaniasis	1	2.70
Ligament injury	1	2.70
Lymphoma	1	2.70
Oesophageal disorder	1	2.70
Pancreatitis	1	2.70
Poison	1	2.70
Renal Dysplasia	1	2.70

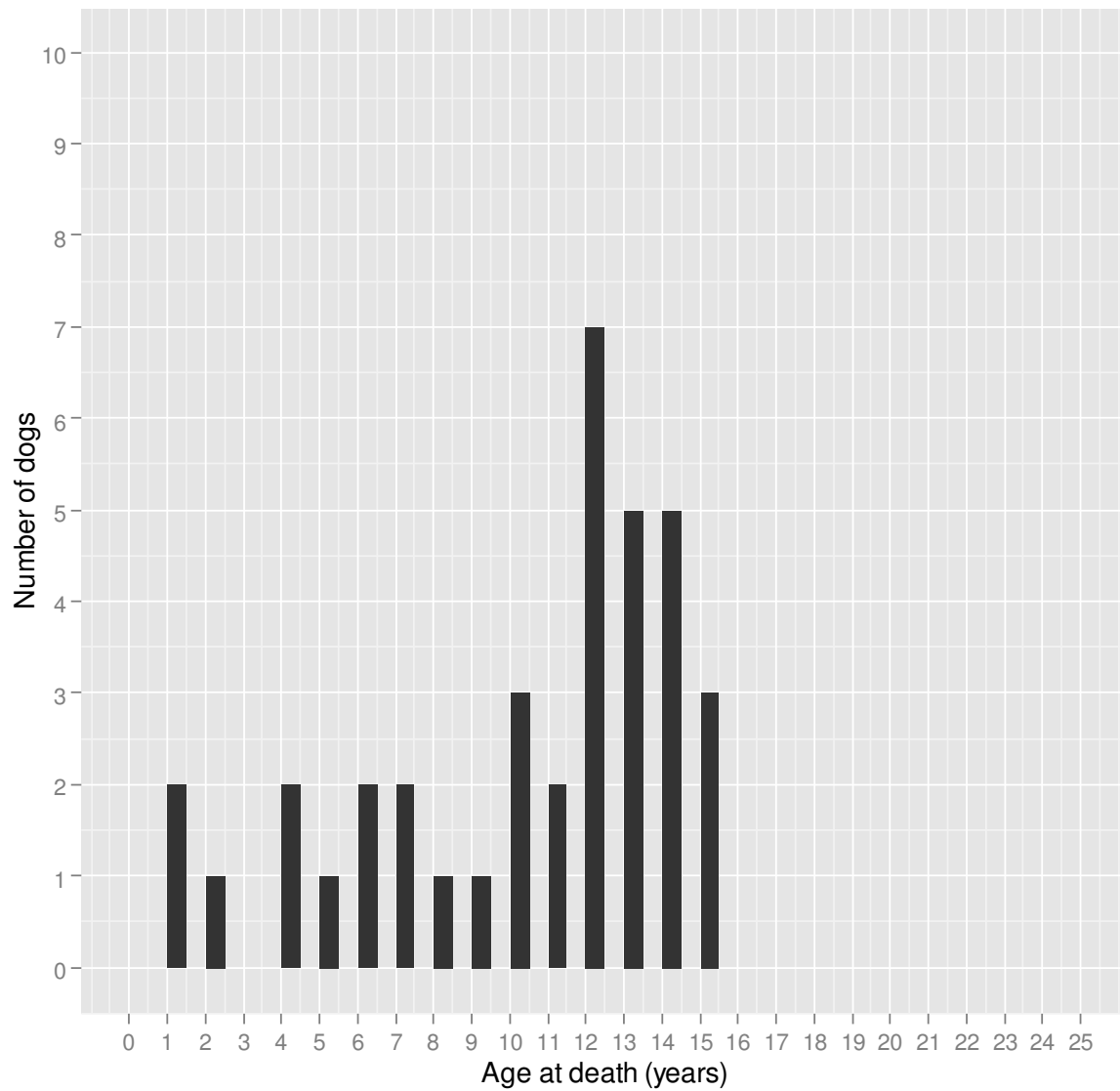


Figure 1: Histogram of the longevity for 37 reported deaths: overall median age at death was 12 years (minimum= 1 years, maximum= 15 years); mean age at death was 10.16 years

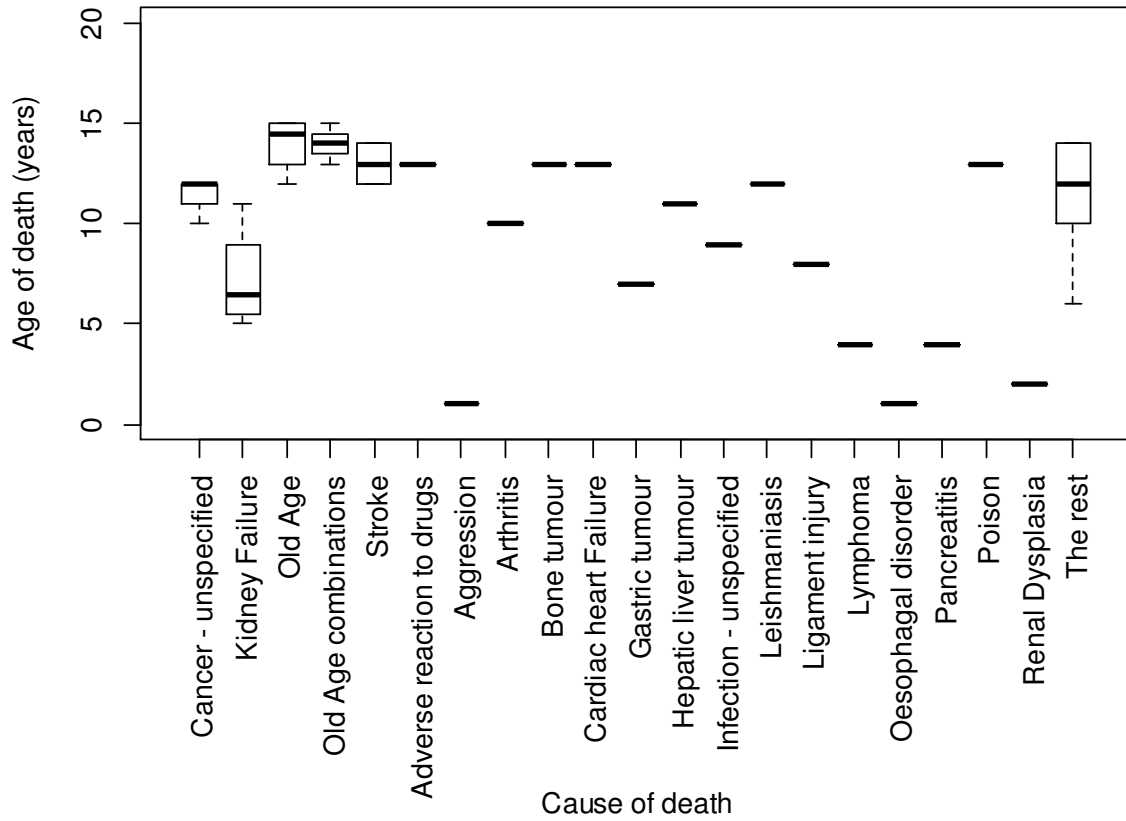


Figure 2: Box and whisker plot of age at death in years for the most twenty common causes of death (N=37). The solid line within each box represents the median age of death from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition. The circles (o) represent possible outliers

Morbidity results

The 212 live Collie (Rough)s represented 0.49% of total dogs in the survey. The median age of live dogs for the breed was 4 years (Table 2). Of the 212 Collie (Rough)s which the survey covers, 150 had reported no conditions and 62 reported affected by at least one condition (min = 1 condition(s), max = 6 conditions), giving a total of 121 incidents of conditions.

The gender, neuter status and age of neutering summary statistics for Collie (Rough)s are shown in Table 3. There were 177 dogs with responses for Body Condition displayed in Table 4.

The median age the dogs were first affected by a condition was 3 years (min = 0 years, max= 13 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 Collie (Rough).

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)
212	4.68	4	0	20

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)	Max age neutered (years)
Female	Neutered	Yes	49	2.20	1	0	11
Female	Neutered	No	1	NA	NA	NA	NA
Female	Not neutered	No	37	NA	NA	NA	NA
Female	Unknown	No	3	NA	NA	NA	NA
Male	Neutered	Yes	51	0.69	0	0	5
Male	Neutered	No	4	NA	NA	NA	NA
Male	Not neutered	No	60	NA	NA	NA	NA
Male	Unknown	No	7	NA	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 (years)	Median age (years)	Min age (years)	Max age (years)
No comment was made by vet	4	3.25	2.5	0	8
Normal	151	4.00	4	0	14
Somewhat overweight	19	3.42	3	0	10
Somewhat underweight	1	1.00	1	1	1
Very underweight	2	1.00	1	0	2

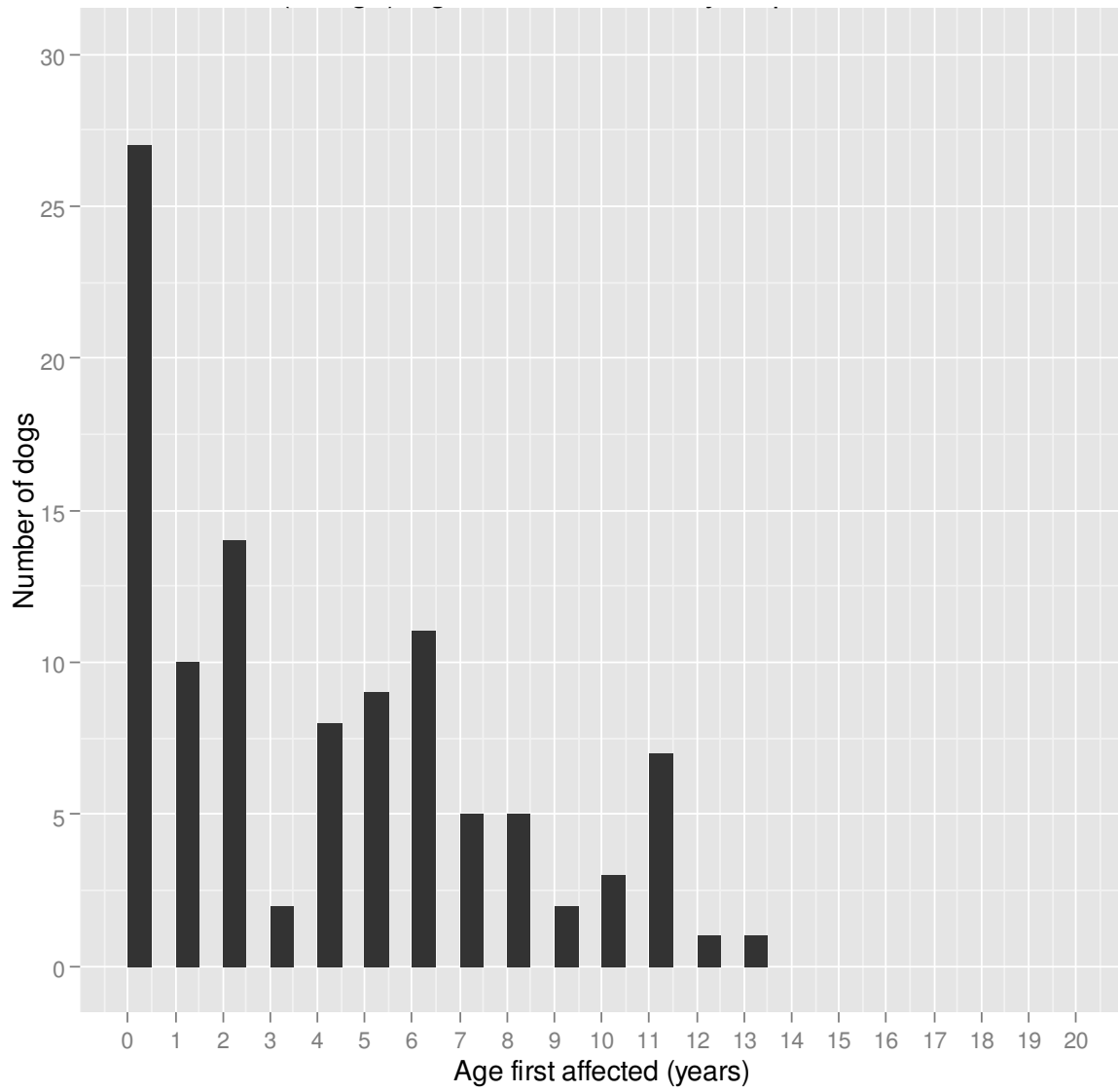


Figure 3: Histogram showing frequency of known age at diagnosis for the disease conditions reported

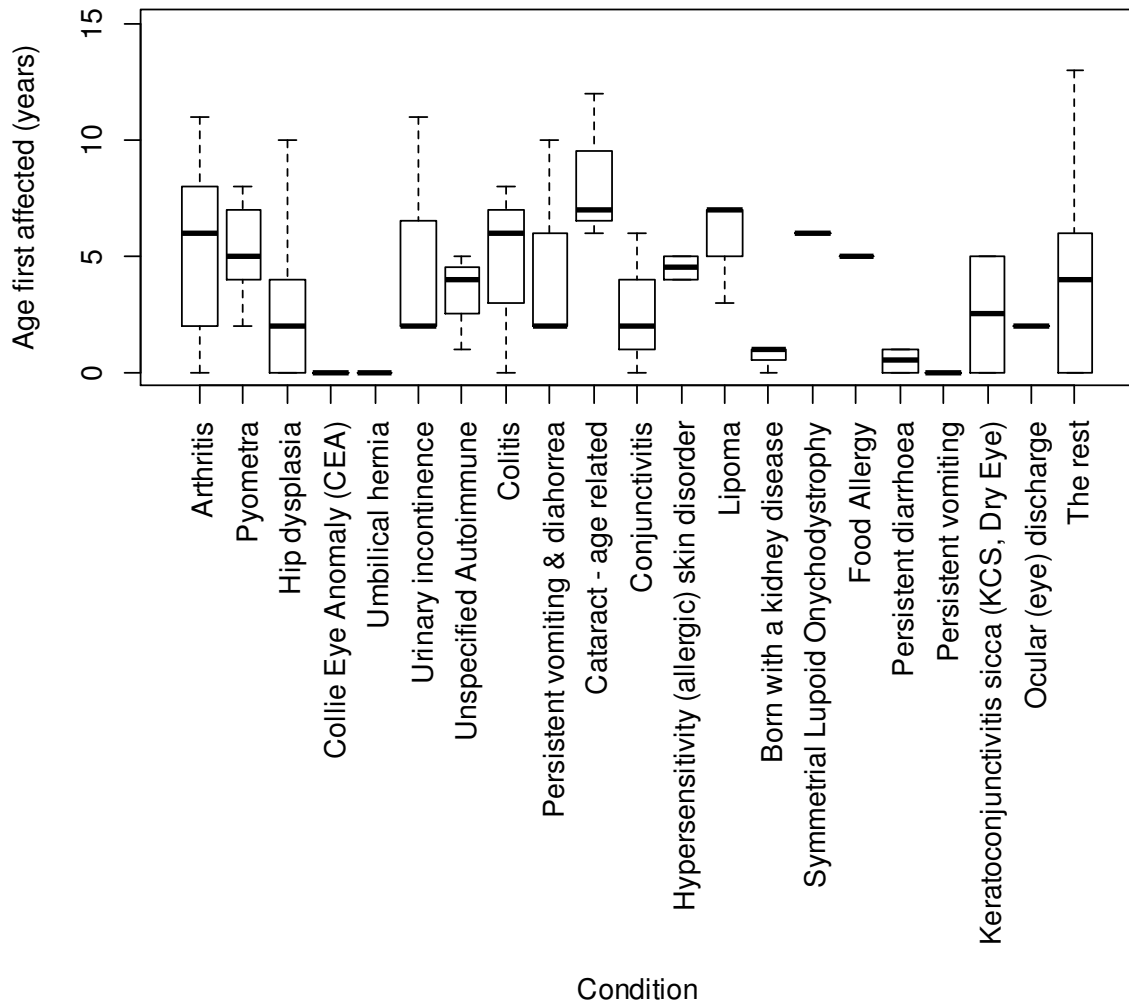


Figure 4: Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order. The solid line within each box represents the median age at diagnosis from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition.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

Table 5: The most commonly reported disease conditions in descending order for the breed (N = 212 live dogs)

Condition	Number of cases of disease	Proportion (%)	Prevalence (%)
Arthritis	12	9.92	5.66
Pyometra	7	5.79	3.30
Hip dysplasia	6	4.96	2.83
Collie Eye Anomaly (CEA)	4	3.31	1.89
Umbilical hernia	4	3.31	1.89
Urinary incontinence	4	3.31	1.89
Born with a kidney disease	3	2.48	1.42
Cataract - age related	3	2.48	1.42
Colitis	3	2.48	1.42
Conjunctivitis	3	2.48	1.42
Hypersensitivity (allergic) skin disorder	3	2.48	1.42
Lipoma	3	2.48	1.42
Persistent vomiting & diahorrea	3	2.48	1.42
Unspecified Autoimmune	3	2.48	1.42
Chronic Itching	2	1.65	0.94
Dermatitis	2	1.65	0.94
Food Allergy	2	1.65	0.94
Keratoconjunctivitis sicca (KCS, Dry Eye)	2	1.65	0.94
Ocular (eye) discharge	2	1.65	0.94
Persistent diarrhoea	2	1.65	0.94

Proportion of morbidity as %= N/121 disease conditions, prevalence %= N/212 live dogs

Summary

From the dogs surveyed, most Collie (Rough)s were not affected by a disease condition (70.75%). The most commonly reported disease condition in live dogs was arthritis. The two most commonly reported cause of death representing an equal proportion of reported deaths; these were unspecified cancer and kidney failure.