



**THE KENNEL CLUB
DOG HEALTH**

Keeshond

Pedigree Breed Health Survey

Forms were received representing 62 living dogs & 10 deceased dogs.

Mortality results

A total of 10 deaths were reported, representing 0.18% of all deaths reported in the Pedigree Breed Health survey. The range of longevity for the Keeshond was 6 years to 12 years. Table 1 shows the causes of death for the breed.

Table 1 The most common causes of death/reasons for euthanasia (N = 10 deceased dogs).

Cause Death sort
Epilepsy
Gastric tumour
Gastrointestinal disorder - unspecified
Hepatic liver tumour
Hepatopathy liver disorder
Kidney disease
Kidney tumour
Old Age combinations
Pyometra
Traumatic Injury

Morbidity results

The 62 live Keeshonds represented 0.15% of total dogs in the survey. The median age of live dogs for the breed was 4 years (Table 2). Of the 62 Keeshonds which the survey covers, 47 had reported no conditions and 15 reported affected by at least one condition (min = 1 condition(s), max = 3 conditions), giving a total of 26 incidents of conditions.

The gender, neuter status and age of neutering summary statistics for Keeshonds are shown in Table 3. There were 50 dogs with responses for Body Condition displayed in Table 4.

The median age the dogs were first affected by a condition was 6 years (min = 0 years, max= 8 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 Keeshond.

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)
65	4.69	4	0	13

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	14	3.43	2	0	8
Female	Not neutered	No	15	NA	NA	NA	NA
Male	Neutered	Yes	12	1.58	0.5	0	8
Male	Not neutered	No	21	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	3	6.00	9	0	9
Normal	44	3.70	3	0	12
Somewhat overweight	3	5.00	5	2	8

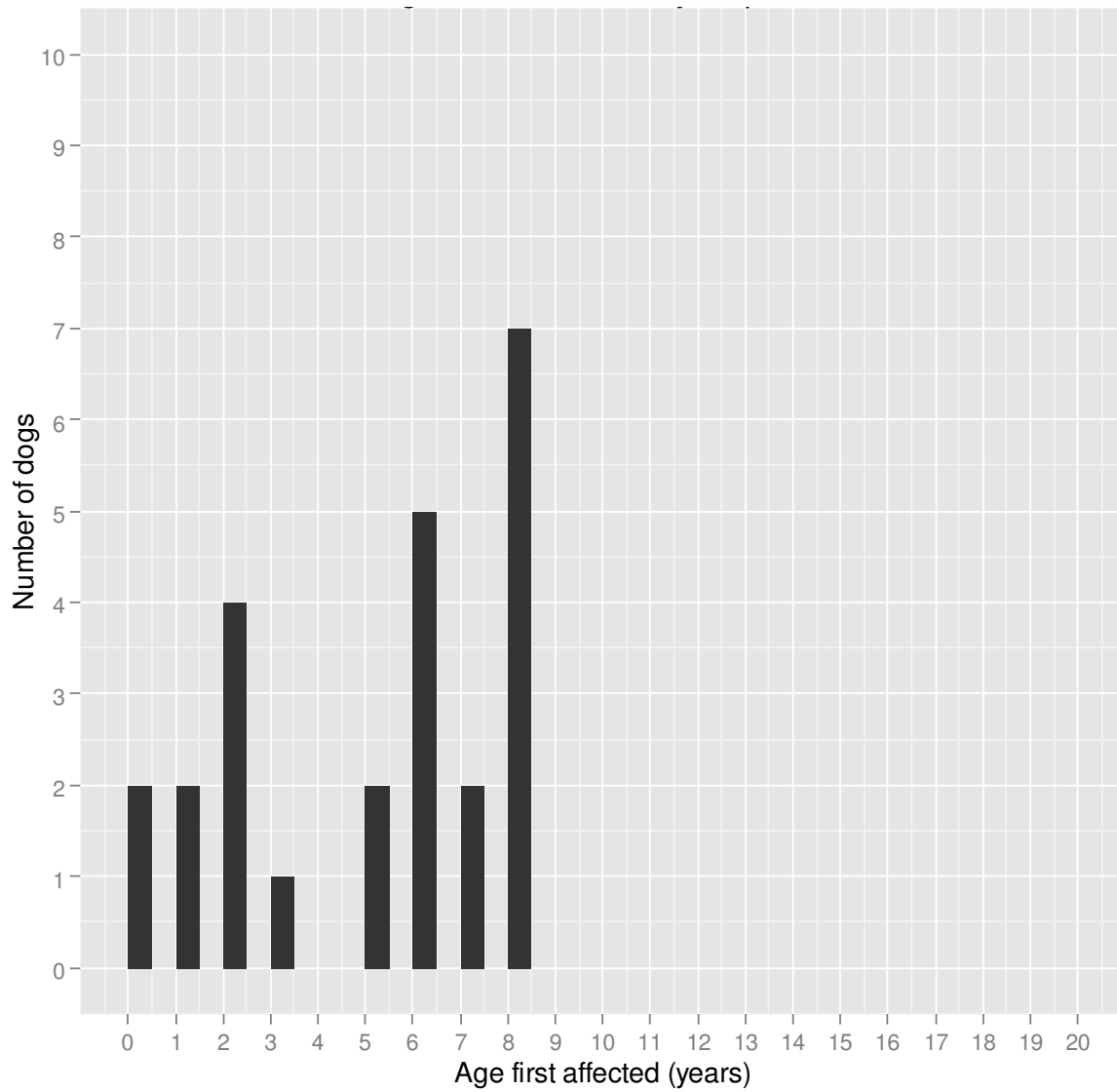


Figure 3: Histogram showing frequency of known age at diagnosis for the disease conditions reported

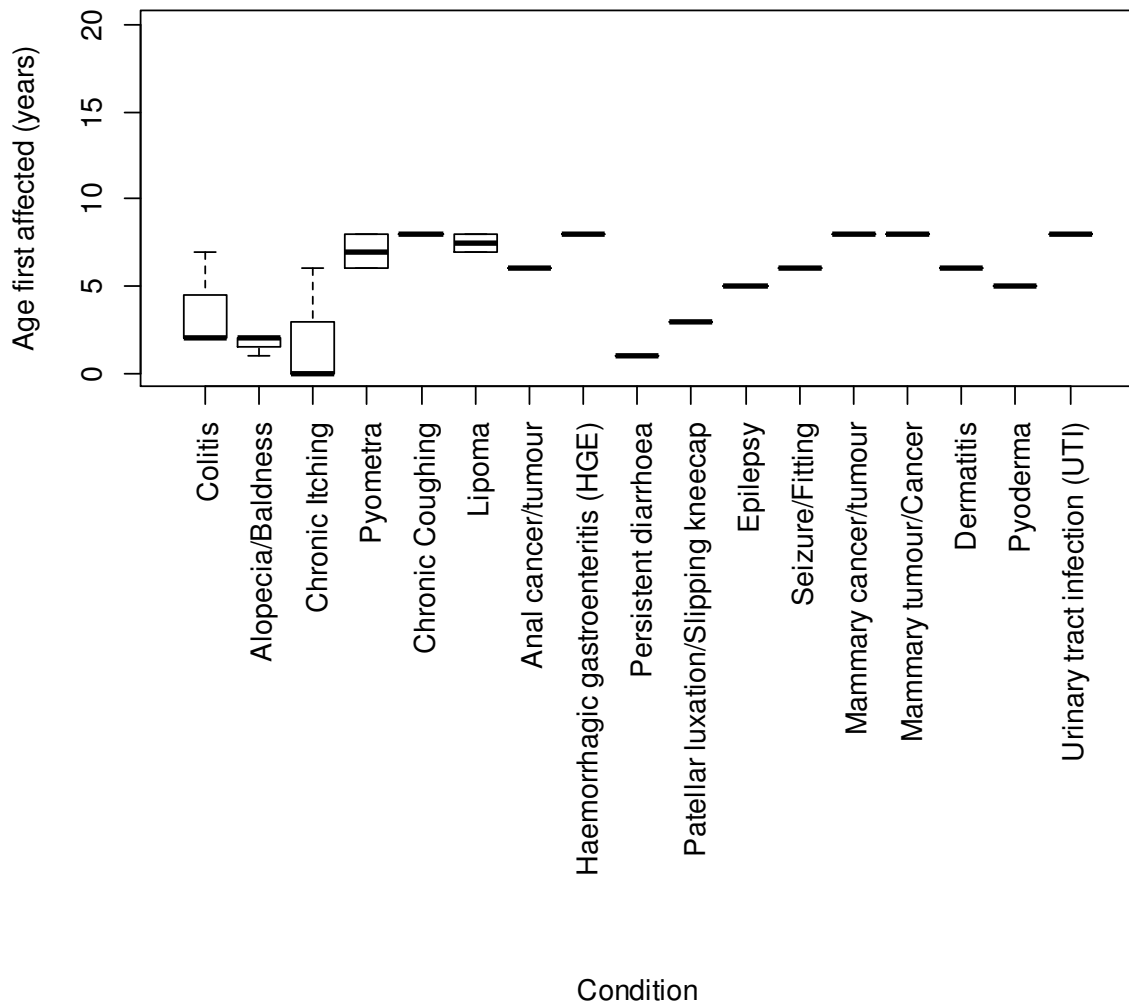


Figure 4: Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order. The solid line within each box represents the median age at diagnosis from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition.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

Table 5: The most commonly reported disease conditions in descending order for the breed (N = 62 live dogs)

Condition	Number of cases of disease	Proportion (%)	Prevalence (%)
Alopecia/Baldness	3	11.54	4.84
Chronic Itching	3	11.54	4.84
Colitis	3	11.54	4.84
Chronic Coughing	2	7.69	3.23
Lipoma	2	7.69	3.23
Pyometra	2	7.69	3.23
Anal cancer/tumour	1	3.85	1.61
Dermatitis	1	3.85	1.61
Epilepsy	1	3.85	1.61
Haemorrhagic gastroenteritis (HGE)	1	3.85	1.61
Mammary cancer/tumour	1	3.85	1.61
Mammary tumour/Cancer	1	3.85	1.61
Patellar luxation/Slipping kneecap	1	3.85	1.61
Persistent diarrhoea	1	3.85	1.61
Pyoderma	1	3.85	1.61
Seizure/Fitting	1	3.85	1.61
Urinary tract infection (UTI)	1	3.85	1.61

Proportion of morbidity as %= N/26 disease conditions, prevalence %= N/62 live dogs

Summary

From the dogs surveyed, most Keeshonds were not affected by a disease condition (75.80%). There were three reported disease conditions that represented an equal proportion of affected live dogs; these conditions were alopecia/baldness, chronic itching, and colitis. There were only ten reported causes of death that represented an equal proportion of the deaths; these causes were epilepsy. Gastric tumour, gastrointestinal disorder (unspecified), hepatic liver tumour, hepatopathy liver disorder, kidney disease, kidney tumour, old age combinations, and pyometra.