



**THE KENNEL CLUB  
DOG HEALTH**

**Pug**

**Pedigree Breed Health Survey**

Forms were received representing 555 living dogs & 24 deceased dogs.

**Mortality results**

A total of 24 deaths were reported, representing 0.43% of all deaths reported in the Pedigree Breed Health survey. The range of longevity for the Pug was 8 years. Table 1 shows the causes of death for the breed.

**Table 1** The most common causes of death/reasons for euthanasia (N = 24 deceased dogs).

<b>Cause of death</b>
Old Age
Cardiac heart Failure
Surgical complications
Attacked by a dog
Encephalitis
Epilepsy
Hemivertebrae
Inflammatory Bowel disease
Kidney disease
Lymphoma
Meningitis
Myelopathy
Old Age combinations
Poison
Road Traffic Accident
Seizure
Traumatic Injury
Unknown

## **Morbidity results**

The 555 live Pugs represented 1.29% of total dogs in the survey. The median age of live dogs for the breed was 2 years (Table 2). Of the 555 Pugs which the survey covers, 340 had reported no conditions and 215 reported affected by at least one condition (min = 1 condition(s), max = 13 conditions), giving a total of 492 incidents of conditions.

The gender, neuter status and age of neutering summary statistics for Pugs are shown in Table 3. There were 468 dogs with responses for Body Condition displayed in Table 4.

The median age the dogs were first affected by a condition was 1 year (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 Pugs.

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

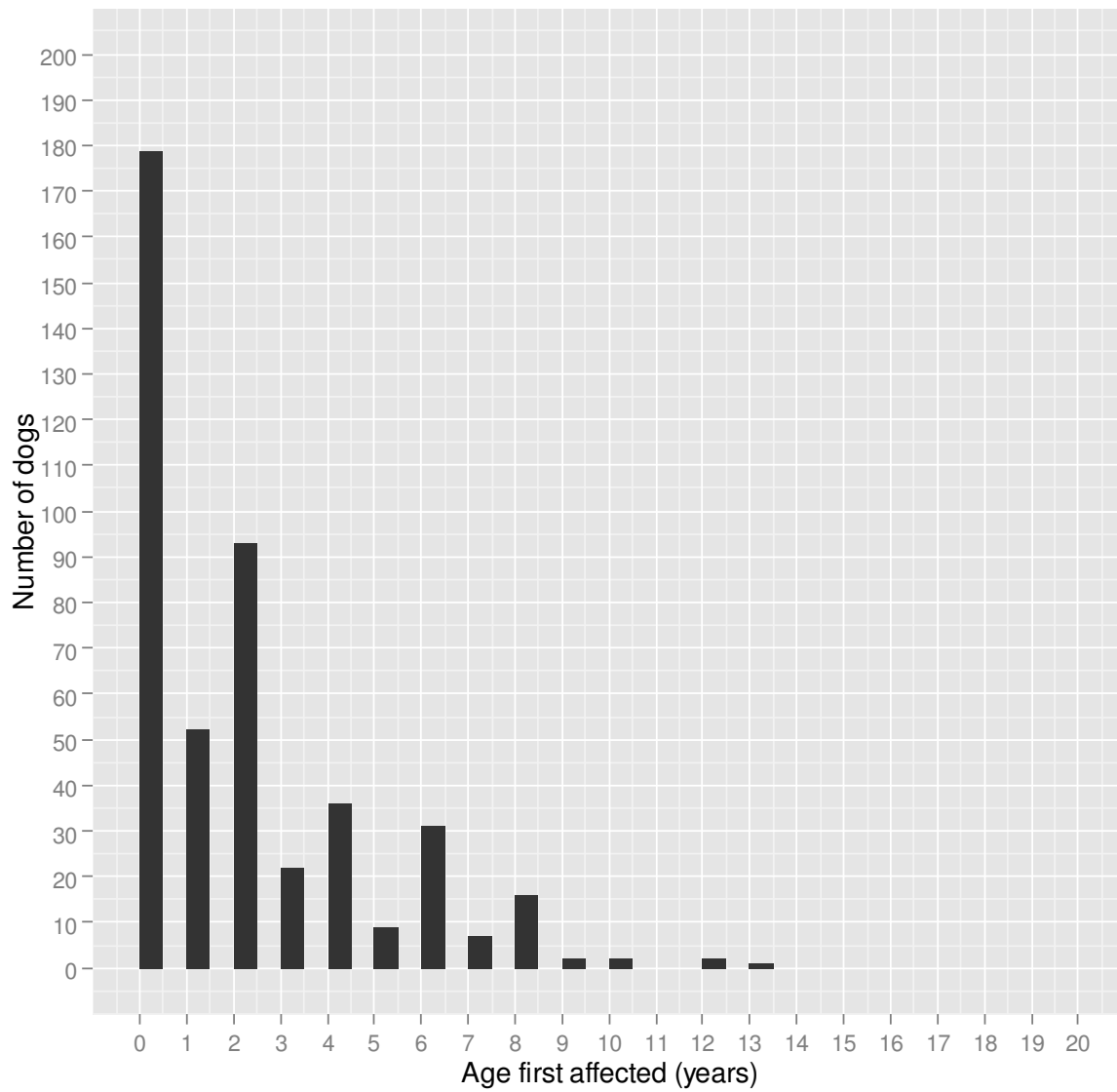
<b>Number of Dogs</b>	<b>Mean age (years)</b>	<b>Median age (years)</b>	<b>Min age (years)</b>	<b>Max age (years)</b>
555	2.97	2	0	15

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

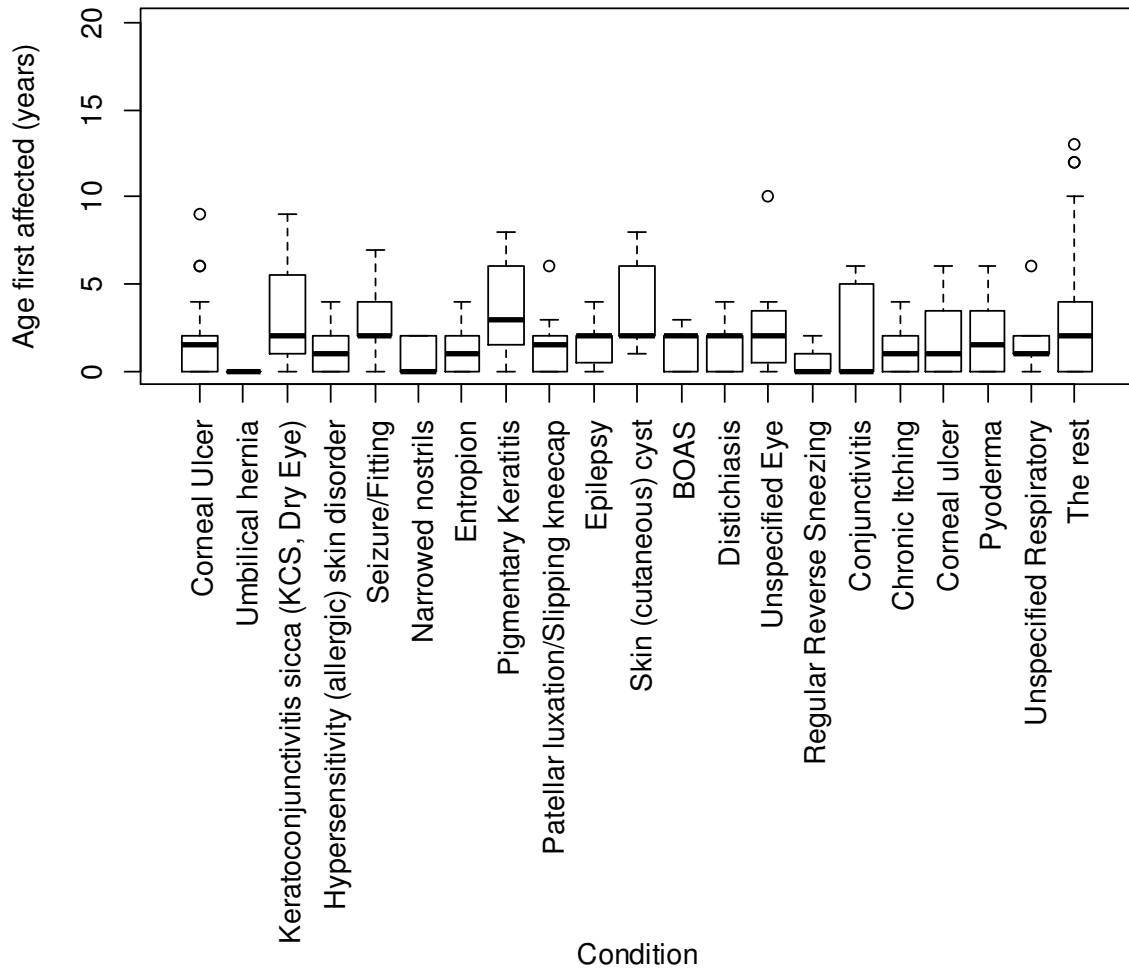
<b>Sex</b>	<b>Neuter status</b>	<b>Age known</b>	<b>Count</b>	<b>Mean age neutered (years)</b>	<b>Median age neutered (years)</b>	<b>Min age neutered (years)</b>	<b>Max age neutered (years)</b>
Female	Neutered	Yes	122	1.26	1	0	6
Female	Neutered	No	4	NA	NA	NA	NA
Female	Not neutered	No	115	NA	NA	NA	NA
Female	Unknown	No	7	NA	NA	NA	NA
Male	Neutered	Yes	130	0.79	0	0	8
Male	Neutered	No	6	NA	NA	NA	NA
Male	Not neutered	No	162	NA	NA	NA	NA
Male	Unknown	No	9	NA	NA	NA	NA

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

<b>Body condition</b>	<b>Count</b>	<b>Mean age (years)</b>	<b>Median age (years)</b>	<b>Min age (years)</b>	<b>Max age (years)</b>
No comment was made by vet	30	2.90	2	0	10
Normal	347	2.35	2	0	14
Somewhat overweight	83	3.25	2	0	10
Somewhat underweight	5	4.40	4	0	8
very overweight	2	3.00	3	2	4
Very underweight	1	8.00	8	8	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 = 555 live dogs)

Condition	Number of cases of disease	Prevalence (%)	Proportion (%)
Corneal Ulcer	36	6.47	6.49
Umbilical hernia	26	4.68	4.68
Hypersensitivity (allergic) skin disorder	21	3.78	3.78
Keratoconjunctivitis sicca (KCS, Dry Eye)	21	3.78	3.78
Seizure/Fitting	20	3.6	3.60
Narrowed nostrils	18	3.24	3.24
Entropion	14	2.52	2.52
Epilepsy	13	2.34	2.34
Patellar luxation/Slipping kneecap	13	2.34	2.34
Pigmentary Keratitis	13	2.34	2.34
Skin (cutaneous) cyst	13	2.34	2.34
BOAS	12	2.16	2.16
Distichiasis	11	1.98	1.98
Regular Reverse Sneezing	11	1.98	1.98
Unspecified Eye	11	1.98	1.98
Chronic Itching	9	1.62	1.62
Conjunctivitis	9	1.62	1.62
Corneal ulcer	8	1.44	1.44
Pyoderma	8	1.44	1.44
Otitis externa	7	1.26	1.26

Proportion of morbidity as %= N/492 disease condition, prevalence %= N/555 live dogs

### **Summary**

From the dogs surveyed, most Pugs were not affected by a disease condition (61.26%). The most commonly reported disease condition in live dogs was corneal ulcer. The most commonly reported cause of death was old age.