



**THE KENNEL CLUB
DOG HEALTH**

Large Munsterlander

Pedigree Breed Health Survey

Forms were received representing 80 living dogs & 19 deceased dogs.

Mortality results

A total of 19 deaths were reported, representing 0.34% of all deaths reported in the Pedigree Breed Health survey. The range of longevity for the Large Munsterlander was 1 year to 15 years. Table 1 shows the causes of death for the breed.

Table 1 The most common causes of death/reasons for euthanasia (N = 19 deceased dogs).

Cause of death
Old Age
Bone tumour
Gastric tumour
Aggression
Arthritis
Autoimmune condition - unspecified
Bacterial Infection
Cardiac Tumour
Gastric dilation-volvulus syndrome (GDV)/Bloat
Old Age combinations
Oral mouth tumour
Osteochondrial dysplasia
Road Traffic Accident
Splenic tumour

Morbidity results

The 80 live Large Munsterlanders represented 0.19% of total dogs in the survey. The median age of live dogs for the breed was 5 years (Table 2). Of the 80 Large Munsterlanders which the survey covers, 50 had reported no conditions and 30 reported affected by at least one condition (min = 1 condition(s), max = 7 conditions), giving a total of 4 incidents of conditions.

The gender, neuter status and age of neutering summary statistics for Large Munsterlanders are shown in Table 3. There were 73 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= 12 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 Large Munsterlander.

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)
80	5.53	5	0	16

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	25	2.88	2	0	9
Female	Neutered	No	1	NA	NA	NA	NA
Female	Not neutered	No	11	NA	NA	NA	NA
Female	Unknown	No	1	NA	NA	NA	NA
Male	Neutered	Yes	19	1.84	1	0	10
Male	Not neutered	No	22	NA	NA	NA	NA
Male	Unknown	No	1	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	4.00	3.5	1	8
Normal	65	4.98	5	0	13
Somewhat overweight	1	2.00	2	2	2
Somewhat underweight	3	7.67	6	1	16

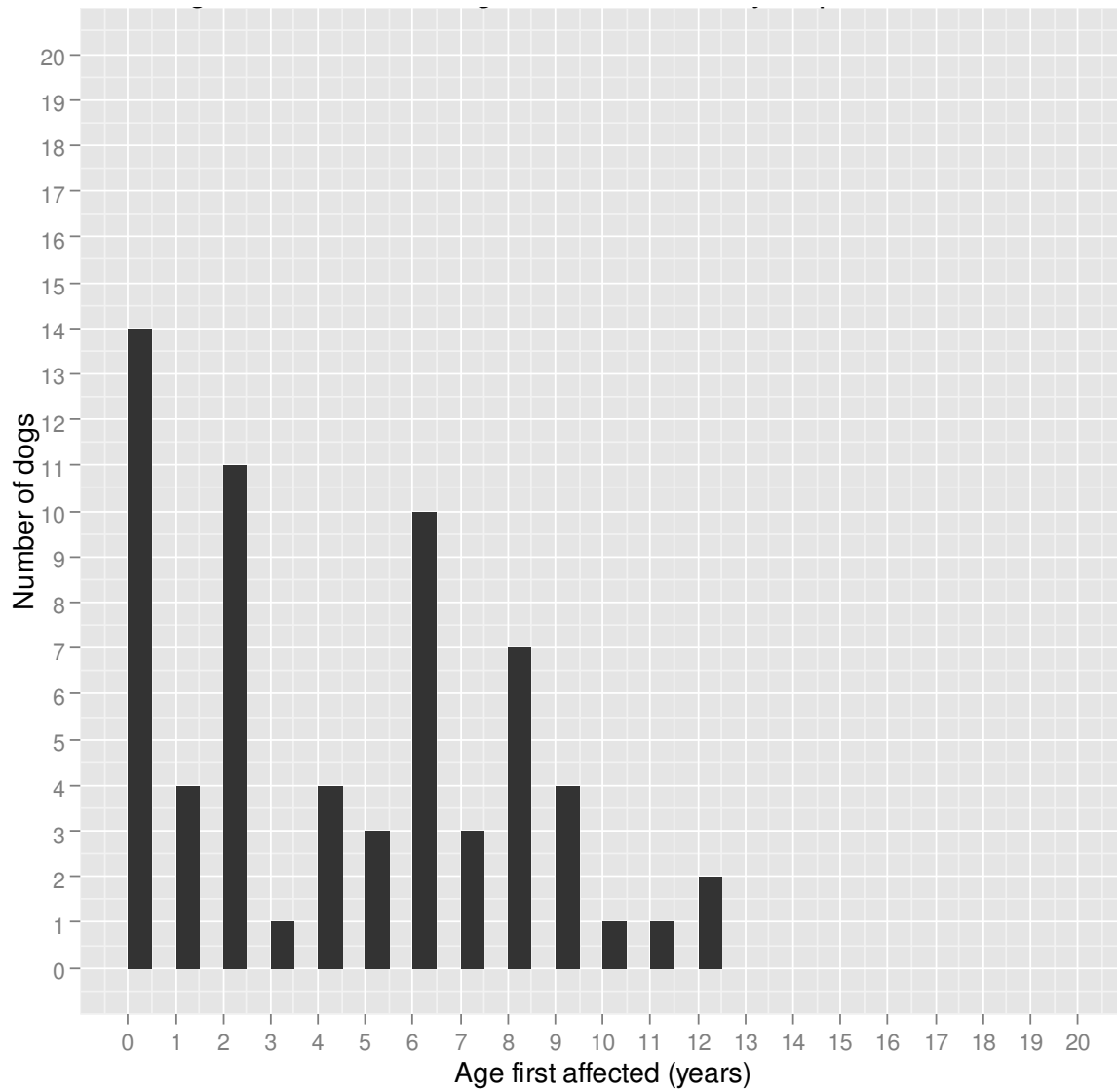


Figure 3: Histogram showing frequency of known age at diagnosis for the disease conditions reported

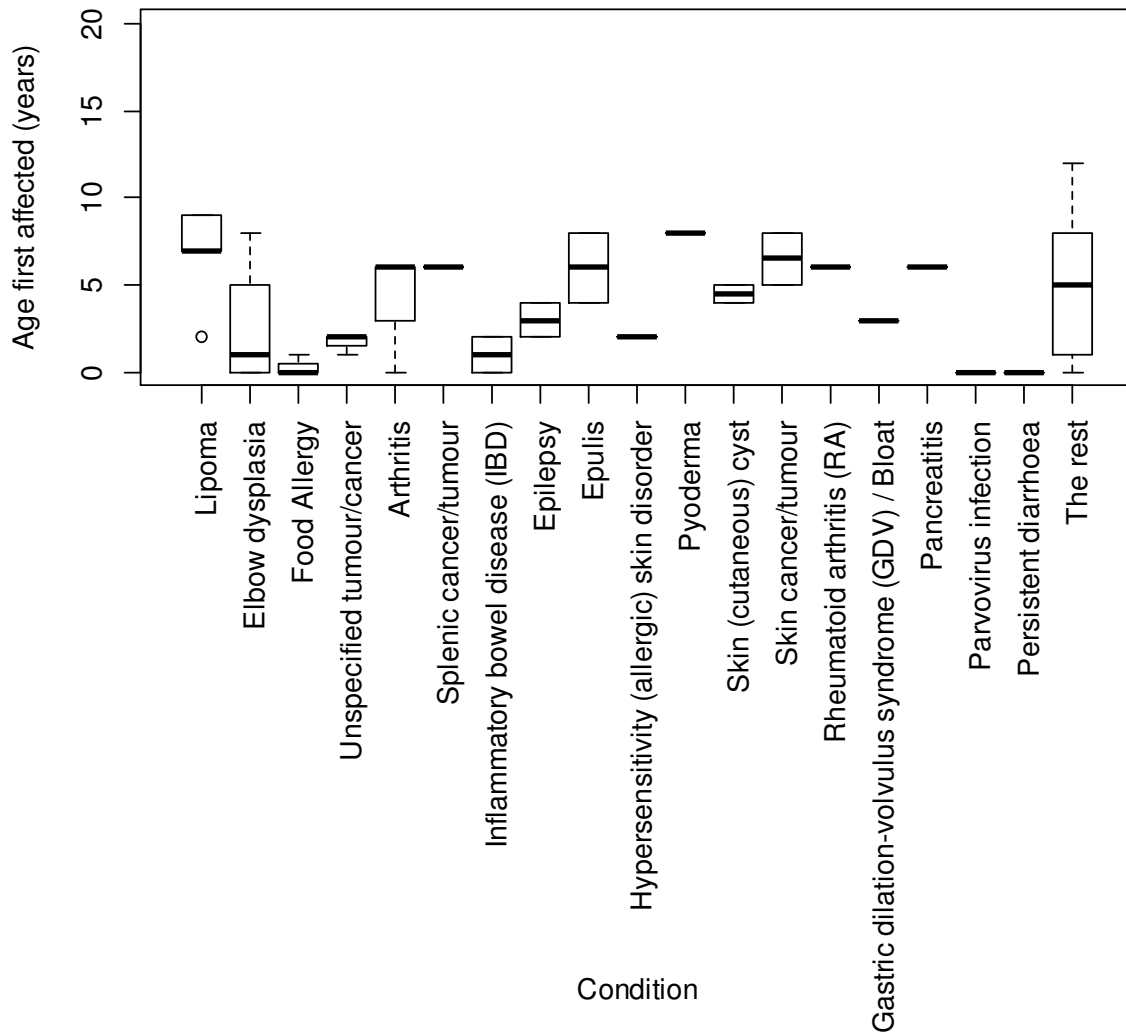


Figure 4: Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order. The solid line within each box represents the median age at diagnosis from the condition. The box represents 50% of the dogs and the whiskers represent 95% of the dogs for each condition.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

Table 5: The most commonly reported disease conditions in descending order for the breed (N = 80 live dogs)

Condition	Number of cases of disease	Proportion (%)	Prevalence (%)
Lipoma	5	7.25	6.25
Elbow dysplasia	4	5.80	5.00
Arthritis	3	4.35	3.75
Food Allergy	3	4.35	3.75
Unspecified tumour/cancer	3	4.35	3.75
Epilepsy	2	2.90	2.50
Epulis	2	2.90	2.50
Hypersensitivity (allergic) skin disorder	2	2.90	2.50
Inflammatory bowel disease (IBD)	2	2.90	2.50
Pyoderma	2	2.90	2.50
Skin (cutaneous) cyst	2	2.90	2.50
Skin cancer/tumour	2	2.90	2.50
Splenic cancer/tumour	2	2.90	2.50
Unspecified Skin, Ear or Coat	2	2.90	2.50
Acute moist dermatitis	1	1.45	1.25
Bone cancer/tumour	1	1.45	1.25
Cataract - age related	1	1.45	1.25
Chronic itching	1	1.45	1.25
Chronic Itching	1	1.45	1.25
Corneal Ulcer	1	1.45	1.25

Proportion of morbidity as %= N/69 disease conditions, prevalence %= N/80 live dogs

Summary

From the dogs surveyed, most Large Munsterlanders were not affected by a disease condition (62.50%). The most commonly reported disease condition in live dogs was lipoma. The most commonly reported cause of death was old age.