

Report from the Kennel Club/
British Small Animal Veterinary Association
Scientific Committee

Summary results of the
Purebred Dog Health Survey
for the Borzoi breed

Warning: The results of this survey and particularly the breed-specific analyses should be interpreted with caution. The overall response rate was only 24% with breed-specific response rates from 4.5% to 64.7%.

The Borzoi breed

A total of 182 forms were sent out and 42 were returned, representing 133 live dogs. This breed had a 23.1 % response rate (42/182) and it represented 0.31% of all returns (42/13,741).

Mortality data

A total of 87 deaths were reported and this represents 0.55 % of all deaths reported in the survey (87/15,881). The median age at death for the Borzoi breed was 9 years and 1 month (min = 7 months, max = 14 years and 3 months) and this was lower than the overall median of 11 years and 3 months (Figure 1). Table 1 shows the causes of death for the Borzoi breed. Age at death is presented for the most common causes of death (Figure 2).

Table 1. Causes of death by organ system/category for the Borzoi breed.

Cause of death	No. of deaths	% of deaths	Most common specific causes in descending order
1 Old age	19	21.8	Old age
2 Cancer	16	18.4	Bone (type unspecified); lung (type unspecified)
3 Cardiac	11	12.6	Heart failure; heart attack; dilated cardiomyopathy
4 Gastrointestinal	9	10.3	Gastric dilatation/volvulus (GDV); pancreatitis
5 Other	7	8.0	Uncodeable
6 Urologic	6	6.9	Chronic kidney failure > acute
7 Hepatic	3	3.4	Liver failure chronic or unspecified
8 Cerebral vascular	2	2.3	Stroke or cerebral vascular accident
9 Combinations	2	2.3	Kidney & liver failure
10 Neurologic	2	2.3	Seizures; meningitis
11 Trauma	2	2.3	Unspecified
12 Behaviour	1	1.1	Aggression
13 Collapse	1	1.1	
14 Internal bleeding	1	1.1	
15 Musculoskeletal	1	1.1	Arthritis
16 Pining	1	1.1	
17 Reproductive	1	1.1	Toxic shock after whelping
18 Sudden death	1	1.1	
19 Unknown	1	1.1	Undiagnosed illness
Total	87	100.0	

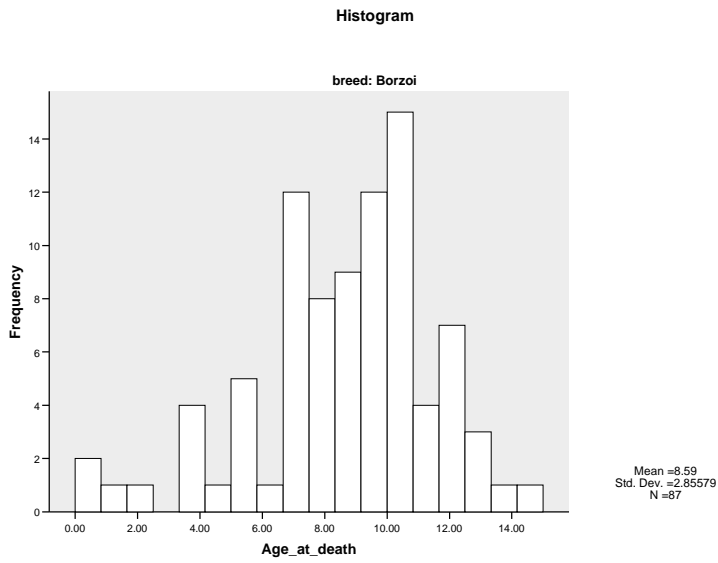


Figure 1. Histogram showing the frequency (as number of dogs) of age at death (in years) for the 87 Borzoi deaths with age at death reported.

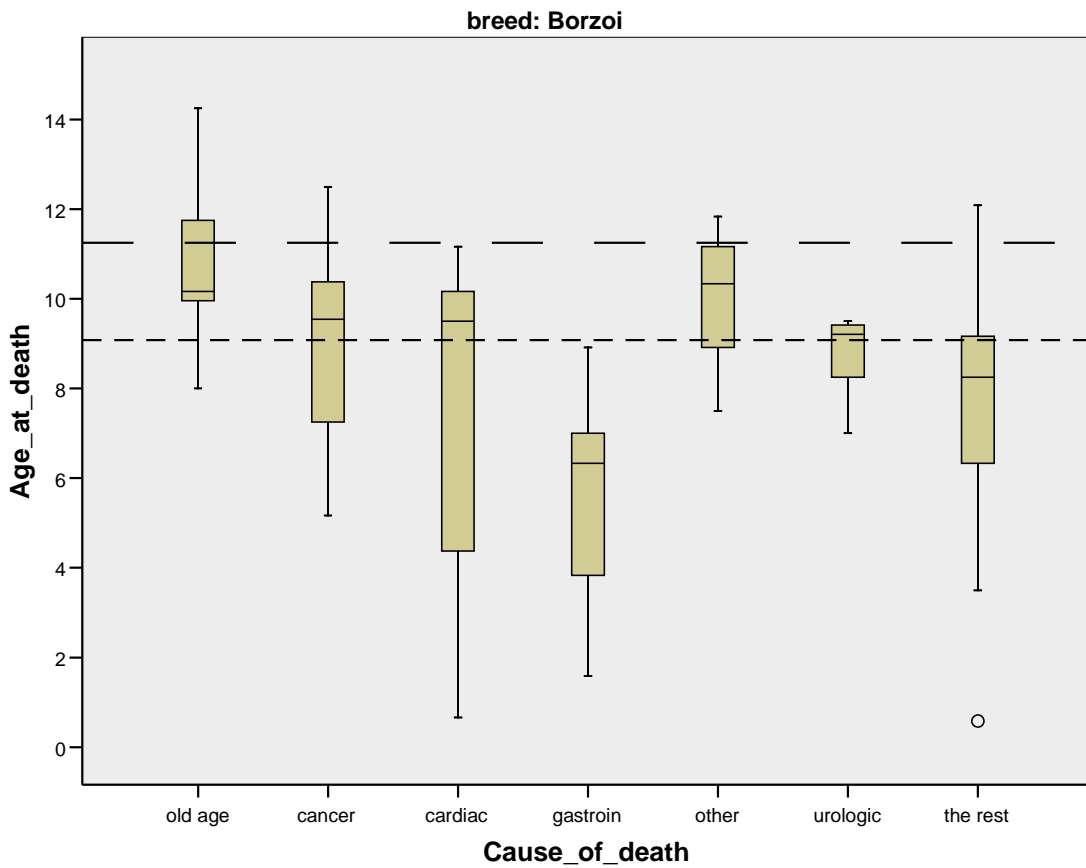


Figure 2. Box and whisker plot of age at death in years for the most common causes of death in the Borzoi breed (N=87). The dashed line (---) is the overall median age at death for all dogs in the survey and the dotted line (----) is the overall median age of death for the Borzoi breed. The solid line within each grey box represents the median age at death from the condition.

Morbidity data

The median current age of the 133 live dogs with a reported age was 4 years and 8 months (min=4 months, max=12 years and 6 months, Figure 3). Health information was reported for 133 live dogs of which 89 (67%) were healthy and 44 (33%) had at least one reported health condition, resulting in a total of 70 reported conditions with a median of 1 condition/dog (min=1, max=4).

The median current age of all healthy dogs with a reported age (N=89) was 4 years and 3 months (min=4 months, max=10 years and 10 months). The distribution of gender and neuter status is shown in Table 2.

The median current age of all dogs with one or more disease conditions and a reported age (N=44) was 6 years and 4 months (min=5 months, max=12 years and 6 months). The median age at diagnosis for all disease occurrences with a reported age at diagnosis (N=66) was 3 years and 3 months (min= 2 months, max= 10 years and 6 months, Figure 4). Table 3 shows the disease conditions for the Borzoi breed. Age at diagnosis is presented for the most common disease conditions (Figure 5).

Table 2. Distribution of gender and neuter status for 133 the Borzoi breed with reported gender and neuter status.

Gender	Neuter status		Totals
	Intact	Neutered	
Female	45	31	76 (57%)
Male	53	4	57 (43%)
Totals	98 (74%)	35 (26%)	133 (100%)

Significantly more females were neutered (P<0.0001).

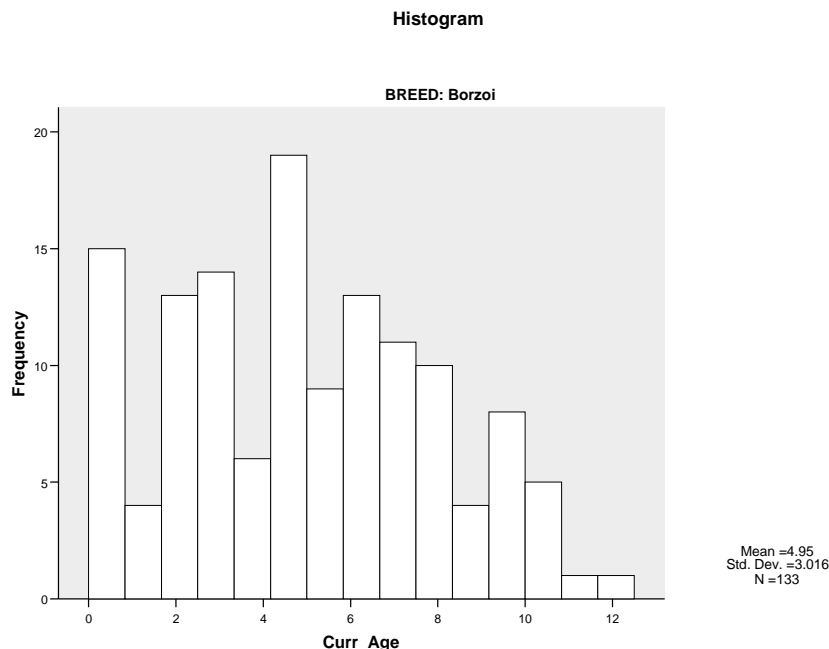


Figure 3. Histogram showing frequency of current age in years for the 133 live the Borzoi breed with age reported.

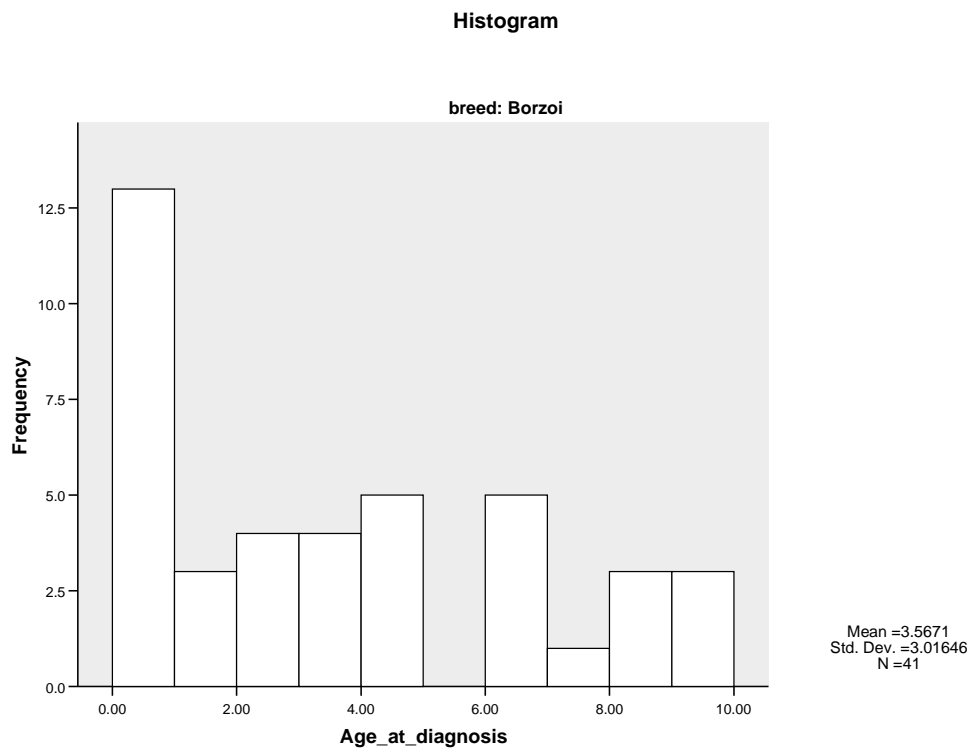


Figure 4. Histogram showing frequency of age at diagnosis for the 41 the Borzoi breed with one or more disease conditions, using the youngest age at which a disease condition was first reported for those dogs with more than one disease condition or episode.

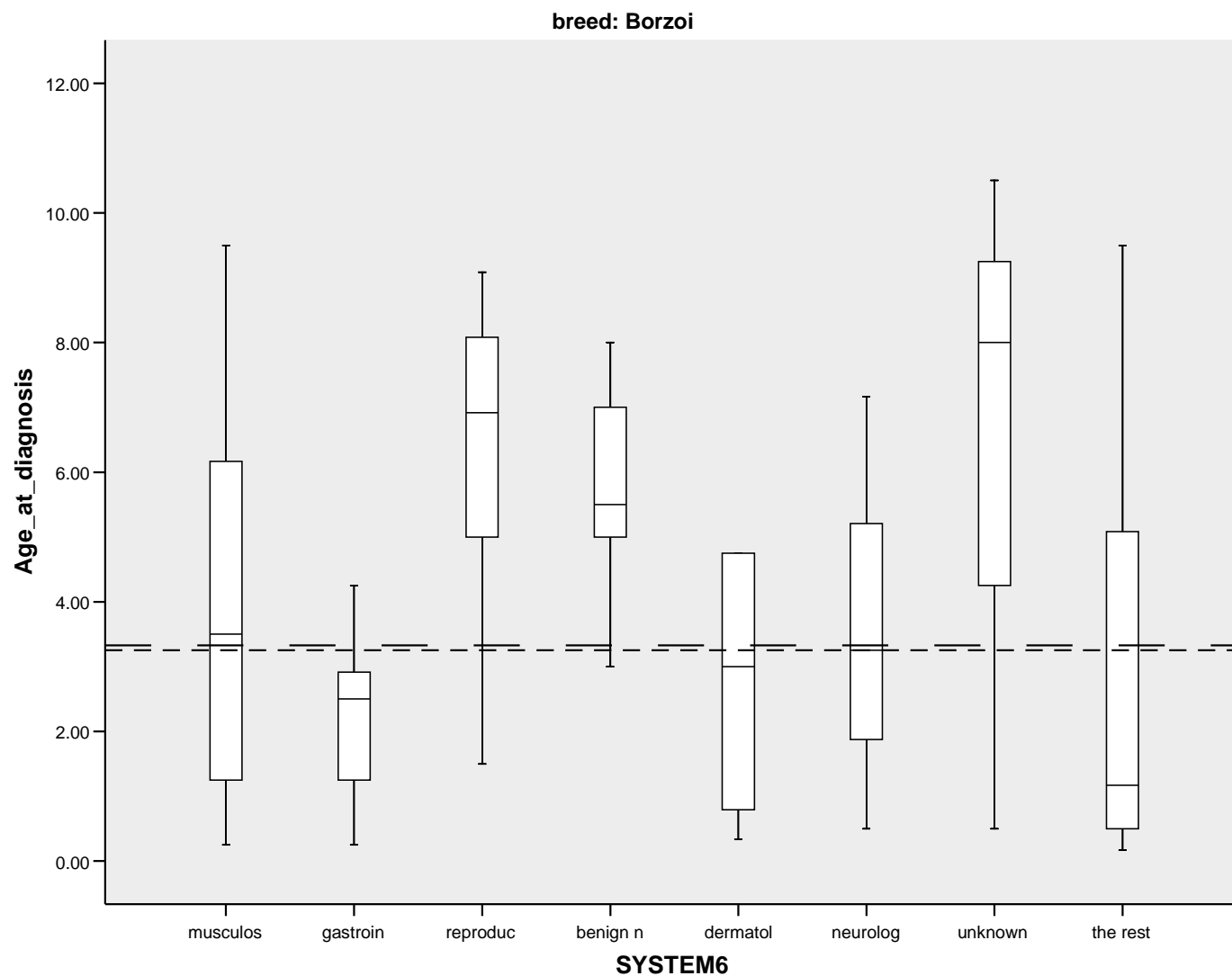


Figure 5. Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order for the Borzoi breed (N=66 conditions with age reported). The dashed line (---) is the overall median age at diagnosis for all dogs in the survey and the dotted line (----) is the overall median age at diagnosis for the Borzoi breed. The solid line within each grey box represents the median age at diagnosis from the condition.

Table 3. Disease conditions by organ system/category for the Borzoi breed.

Disease condition	All conditions		Prevalence	Most common specific conditions in descending order
	N	%	%	
1 Musculoskeletal	12	17.1	7.14	Arthritis (unspecified > hindlimb > other); hypertrophic osteodystrophy; OCD
2 Gastrointestinal	11	15.7	4.56	GDV; colitis; chronic gastroenteritis; pancreatitis
3 Reproductive	10	14.3	3.77	Pyometra; uterine inertia; infertility; prostatomegaly
4 Benign neoplasia	5	7.1	2.78	Lipoma; histiocytoma (skin)
5 Dermatologic	5	7.1	2.58	Dermatitis; alopecia
6 Immune mediated	5	7.1	2.18	Gluten-sensitive enteropathy; food hypersensitivity
7 Unknown	4	5.7	1.79	Undiagnosed illness
8 Aural	3	4.3	1.39	Otitis externa
9 Cardiac	3	4.3	1.39	Heart murmur (unspecified); heart rhythm disorder
10 Endocrine	3	4.3	1.19	Hypothyroidism
11 Neurologic	3	4.3	1.19	Seizures
12 Anal gland	2	2.9	0.99	Anal sacculitis
13 Cancer	2	2.9	0.79	Unspecified
14 Respiratory	1	1.4	0.60	Asthma
15 Urologic	1	1.4	0.60	Chronic kidney failure
Total	70	100.0	35.12	