

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

Summary results of the  
Purebred Dog Health Survey  
for the Anatolian/Karabash 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 Anatolian/Karabash breed

A total of 180 forms were sent out and 22 were returned, representing 34 live dogs. This breed had a 12.2 % response rate (22/180) and it represented 0.16% of all returns (22/13,741).

#### **Mortality data**

A total of 23 deaths were reported and this represents 0.14 % of all deaths reported in the survey (23/15,881). The median age at death for the Anatolian/Karabash breed was 10 years and 9 months (min = 4 years and 5 months, max = 13 years and 5 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 Anatolian/Karabash 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 Anatolian/Karabash breed.

Cause of death	No. of deaths	% of deaths	Most common specific causes in descending order
1 Cancer	5	21.7	Type unspecified, lymphosarcoma, leukaemia
2 Combinations	4	17.4	
3 Cardiac	3	13.0	Heart attack, cardiomyopathy
4 Old age	3	13.0	Old age
5 Other	2	8.7	Uncodeable
6 Unknown	2	8.7	
7 Gastrointestinal	1	4.3	Gastric dilatation/volvulus (GDV)
8 Musculoskeletal	1	4.3	Hip dysplasia
9 Systemic	1	4.3	
10 Trauma	1	4.3	Road traffic accident
Total	23	100.0	

Cancer: lymphosarcoma=lymphoma

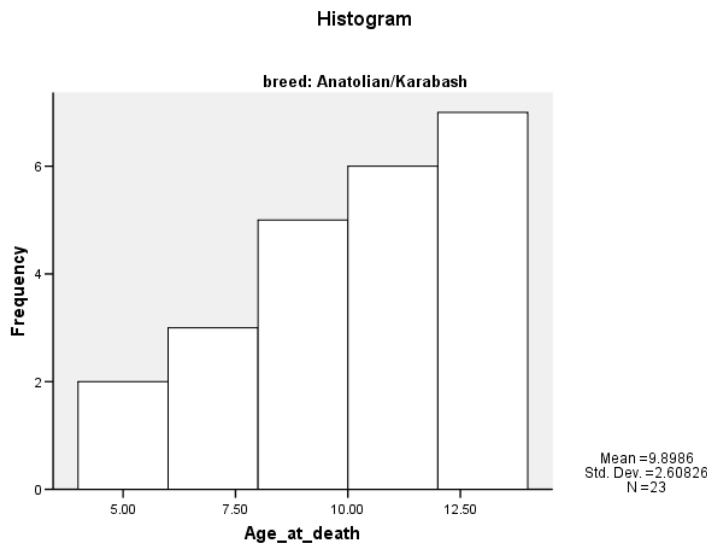


Figure 1. Histogram showing the frequency (as number of dogs) of age at death (in years) for the 23 Anatolian/Karabash deaths with age at death reported.

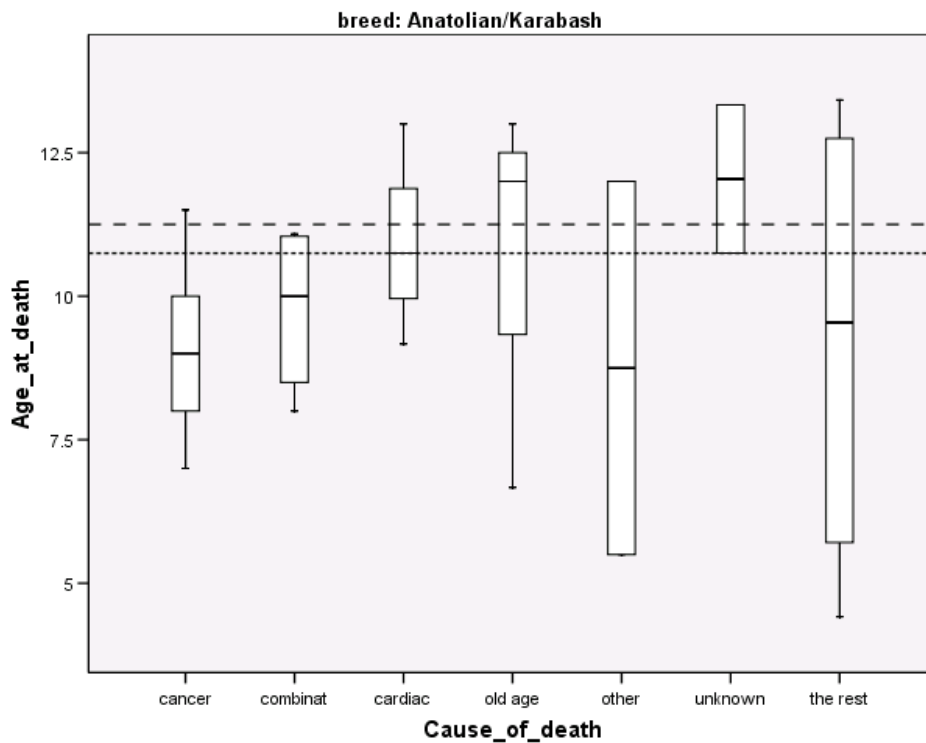


Figure 2. Box and whisker plot of age at death in years for the most common causes of death in the Anatolian/Karabash breed (N=23). The dashed line (---) is the overall median age at death for all dogs in the survey and the dotted line (----) is the overall median age of death for the Anatolian/Karabash 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 34 live dogs with a reported age was 6 years and 9 months (min=1 year, max=13 years and 3 months, Figure 3). Health information was reported for 34 live dogs of which 21 (62%) were healthy and 13 (38%) had at least one reported health condition, resulting in a total of 24 reported conditions with a median of 2 conditions/dog (min=1, max=6).

The median current age of all healthy dogs with a reported age (N=21) was 3 years and 8 months (min=1 year, 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=13) was 9 years and 8 months (min=2 years and 6 months, max=13 years and 3 months). The median age at diagnosis for all disease occurrences with a reported age at diagnosis (N=24) was 6 years and 5 months (min= 9 months, max= 10 years, Figure 4). Table 3 shows the disease conditions for the Anatolian/Karabash breed. Age at diagnosis is presented for the most common disease conditions (Figure 5).

Table 2. Distribution of gender and neuter status for 34 the Anatolian/Karabash breed with reported gender and neuter status.

Gender	Neuter status		Totals
	Intact	Neutered	
Female	13	10	23 (68%)
Male	10	1	11 (32%)
Totals	23 (68%)	11 (32%)	34 (100%)

Significantly more females were neutered (P=0.045).

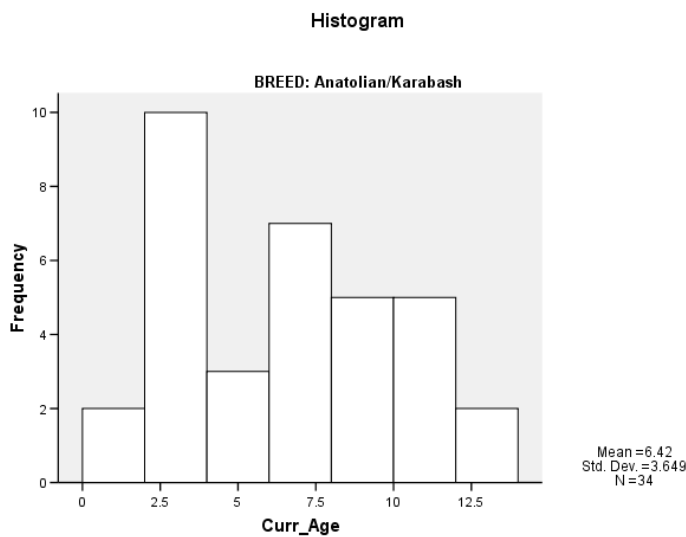


Figure 3. Histogram showing frequency of current age in years for the 34 live dogs in the Anatolian/Karabash breed with age reported.

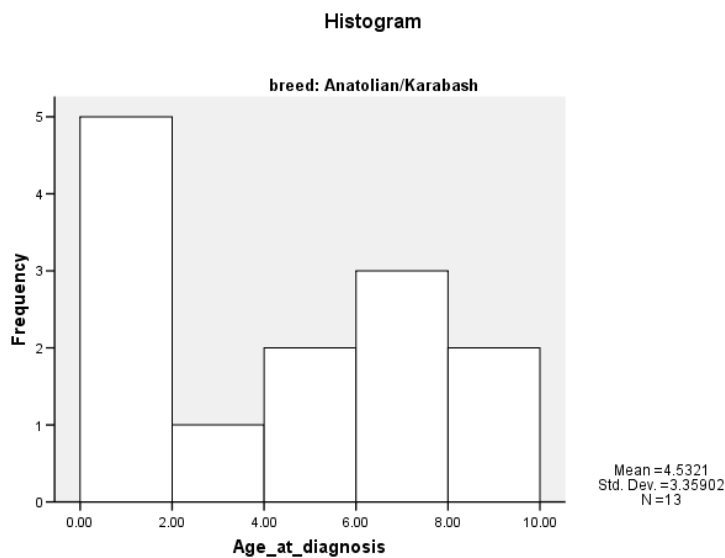


Figure 4. Histogram showing frequency of age at diagnosis for the 13 the Anatolian/Karabash breed with one or more disease conditions, using the youngest age at which a disease condition was first reported for those dogs with more than one disease condition or episode.

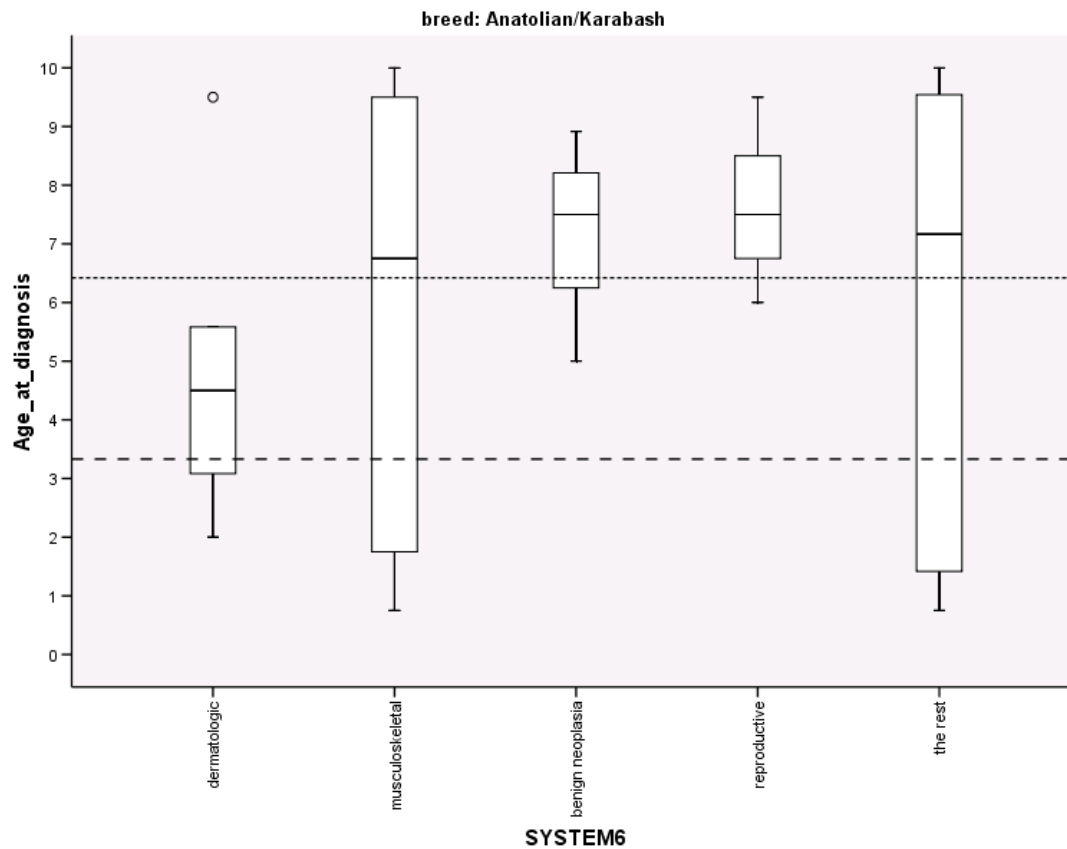


Figure 5. Box and whisker plot of age at diagnosis in years for the most common disease conditions in descending order for the Anatolian/Karabash breed (N=24 conditions with age reported). The dashed line (---) is the overall median age at diagnosis for all dogs in the survey and the dotted line (----) is the overall median age at diagnosis for the Anatolian/Karabash 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 Anatolian/Karabash breed.

Disease condition	All conditions		Prevalence	Most common specific conditions in descending order
	N	%	%	
1 Dermatologic	5	20.8	14.71	Dermatitis, mites – type unspecified
2 Musculoskeletal	5	20.8	14.71	Arthritis, bone malformation unspecified, CLR rupture
3 Benign neoplasia	3	12.5	8.82	Lipoma
4 Reproductive	3	12.5	8.82	Pyometra
5 Gastrointestinal	2	8.3	5.88	Haemorrhagic gastroenteritis (HGE)
6 Ocular	2	8.3	5.88	Distichiasis, ectropion
7 Cancer	1	4.2	2.94	Type unspecified
8 Neurologic	1	4.2	2.94	Seizures or fits or epilepsy idiopathic
9 Respiratory	1	4.2	2.94	Laryngeal paralysis
10 Urologic	1	4.2	2.94	Cystitis (bladder infection)
Total	24	100.0	70.59	

Musculoskeletal: CLR cruciate ligament rupture

Ocular: distichiasis=extra eyelashes, ectropion=outward drooping of eyelid