

## English Toy Terrier (Black & Tan) Health Survey 2022 Overall Summary

The top five categories of diagnosis for health conditions reported in the survey were 'skin and/or coat', 'dental', 'digestive', 'muscle, bone or joint', and 'eye'.

**Table 1:** Top five categories of diagnosis for health conditions reported in the survey

Body system	Number of specific conditions reported
Dental	151
Skin and/or coat	103
Digestive	88
Muscle, bone or joint	36
Eye	28

The ten most frequently reported specific conditions were 'dirty teeth' (53 cases), 'gingivitis/ periodontal disease/ gum disease' (36 cases), 'missing teeth' (34 cases), 'sensitive stomach' (24 cases), 'dry skin/ dandruff' (22 cases), 'patellar luxation/ slipping kneecap' (16 cases), 'acute gastroenteritis' (15 cases), 'demodectic mange/ demodex' (15 cases), 'dietary allergies' (12 cases), and 'food allergies/ intolerance' (11 cases).

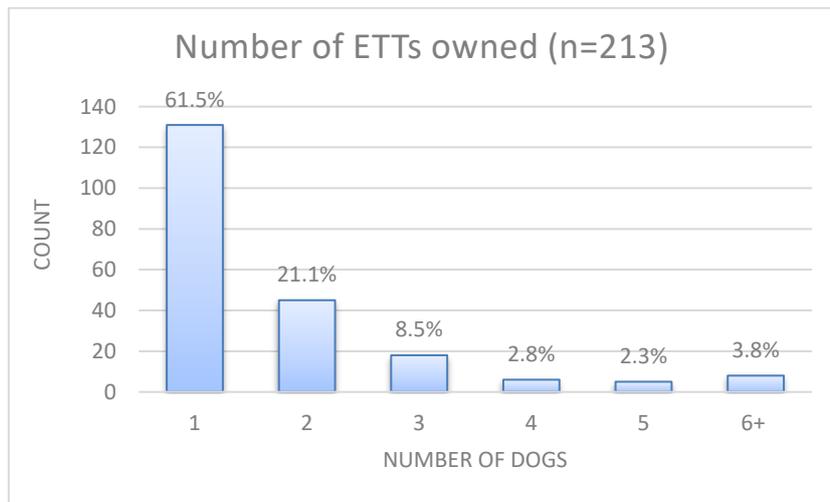
**Table 2:** Top specific health conditions reported in the survey

Specific condition	Number of dogs affected
Dirty teeth	53
Gingivitis/ periodontal disease/ gum disease	36
Missing teeth	34
Sensitive stomach	24
Dry skin/ dandruff	22
Patellar luxation/ slipping kneecap	16
Acute gastroenteritis	15
Demodectic mange/ demodex	15
Allergies (dietary)	12
Food allergies/intolerance	11

# English Toy Terrier (Black & Tan) Health Survey 2022

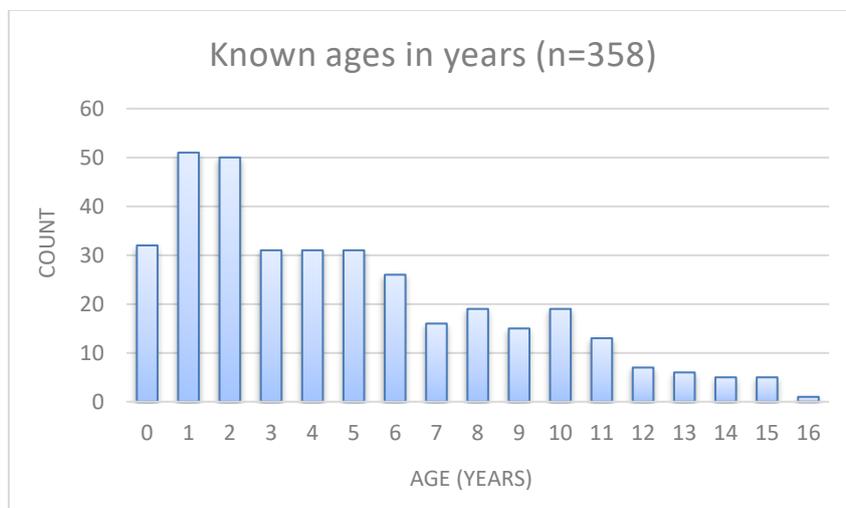
The English Toy Terrier (Black & Tan) (ETT) Health Survey was established by the English Toy Terrier (Black & Tan) Club and The Kennel Club to gain a better understanding of existing health conditions within the breed's UK population and to help identify potential emerging conditions. The survey ran from 09/02/2022 to 25/07/2022. After removing all unusable responses (for example, 27 respondents left every answer blank) a total of 213 individual responses remained, representing 372 dogs.

When asked how many ETTs do you own, out of 213 responses, 131 (61.5%) answered '1', 45 (21.1%) answered '2', 18 (8.5%) answered '3', six (2.8%) answered '4', five (2.3%) answered '5', and eight (3.8%) answered '6 or more'.



**Figure 1:** Number of ETTs owned per person completing the survey

The median age of the ETTs included in the survey was four years and four months (min = two months, max = 16 years and 4 months). *Please note, this figure is based on known ages; all responses of 'not known' for year were removed and for all responses with a known year but an 'unknown' month, the month was changed to '0'.* Figure 2 shows a full breakdown of the dogs' known ages in years.



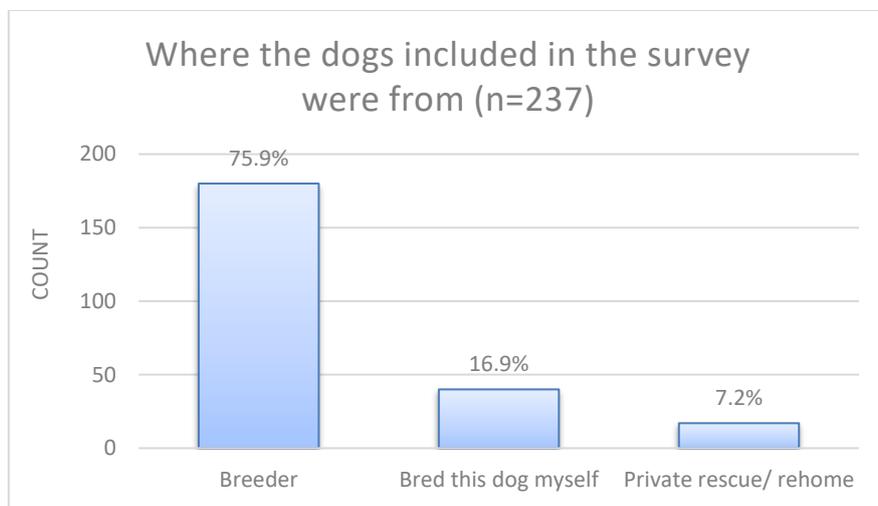
**Figure 2:** Age of the dogs included in the survey

When asked the sex of their dog(s), out of 360 dogs, 182 (50.6%) were male and 178 (49.4%) were female. When asked the neutered status of their dog(s), out of 360 dogs, 226 (62.8%) were entire and 134 (37.2%) were neutered. Results are shown in Table 3.

**Table 3:** Sex and neutered status of the dogs included in the survey

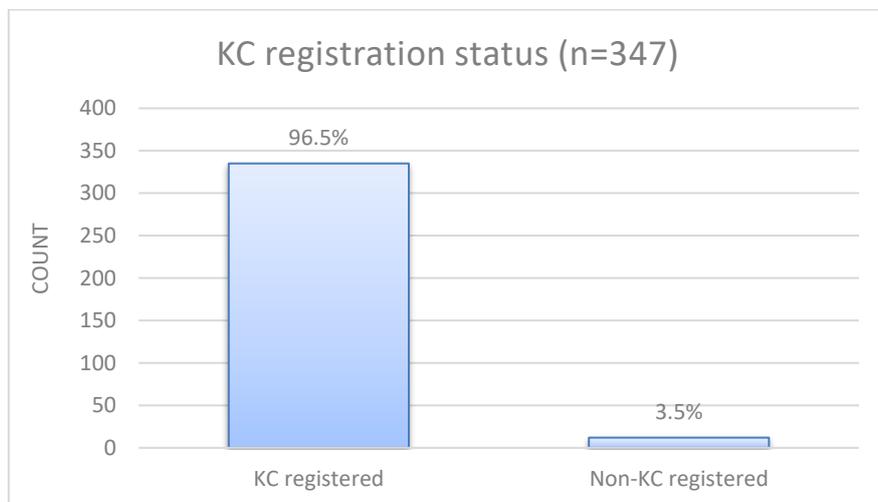
Sex	Neutered Status		Total
	Entire	Neutered	
Male	115 (63.2%)	67 (36.8%)	<b>182</b>
Female	111 (62.4%)	67 (37.6%)	<b>178</b>
<b>Total</b>	<b>226</b>	<b>134</b>	<b>360</b>

Figure 3 shows where the owners got their ETT(s) from, with the majority being from a breeder (75.9%, 180 of 237).



**Figure 3:** Where the ETTs included in the survey were from, as reported by their owners

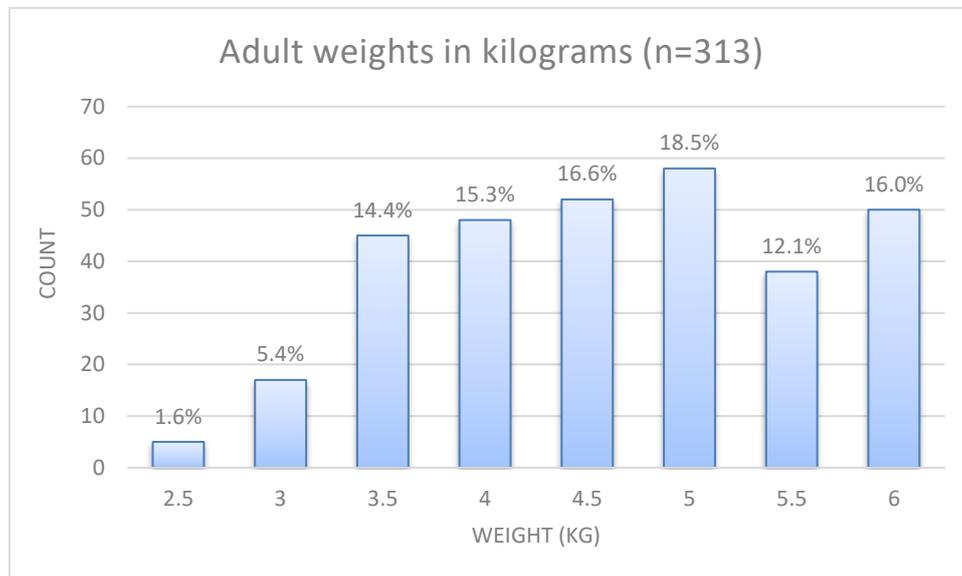
Of 347 dogs, 335 (96.5%) were Kennel Club (KC) registered and 12 (3.5%) were not KC registered.



**Figure 4:** Known Kennel Club registration status of the ETTs included in the survey, as reported by their owners

## Lifestyle

Of the dogs included in the survey, their median weight was 4.5kg (range 2.5kg - 6kg). Figure 5 shows a breakdown of weights.



**Figure 5:** Weight of the dogs included in this survey, as reported by their owners

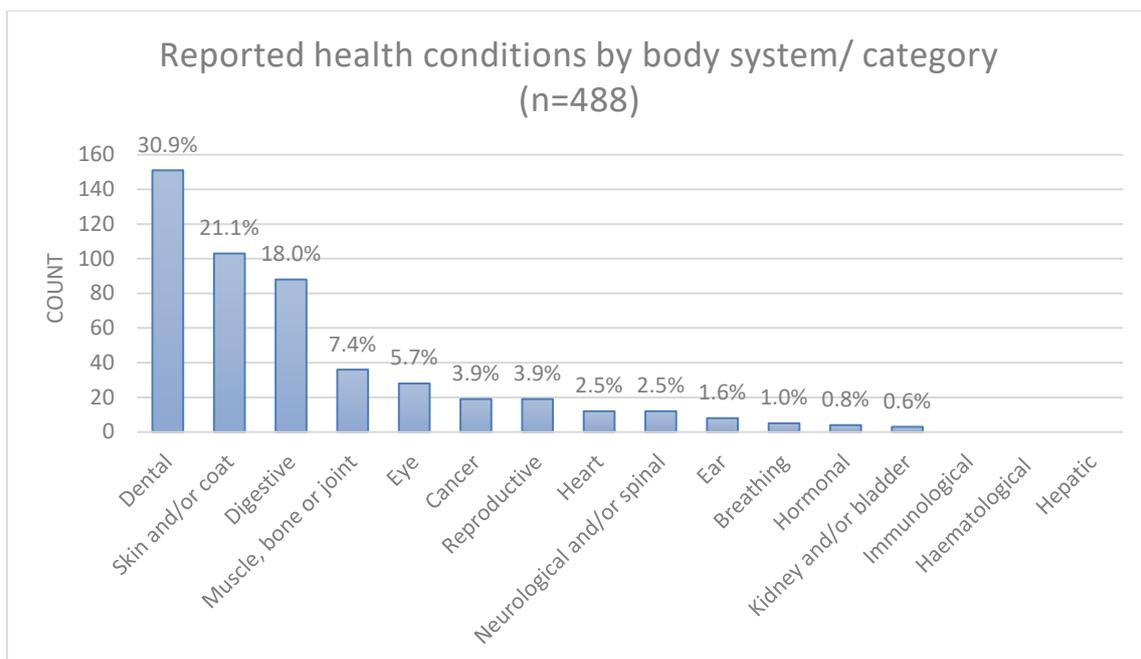
Table 4 shows how active the ETTs included in this survey were considered to be, with the majority considered to be moderately active (45.6%, 154 of 338).

**Table 4:** Activity levels of ETTs included in the survey, as perceived by their owners

Activity	Number of dogs	Percentage
Highly active	127	37.6%
Moderately active	154	45.6%
Mildly active	48	14.2%
Not at all	9	2.7%
<b>Total</b>	<b>338</b>	

## Health

The survey investigated the number of dogs affected by specific conditions within different categories: 'Breathing', 'Cancer or a Mass/Lump', 'Dental', 'Digestive', 'Ear', 'Eye', 'Haematological', 'Heart', 'Hepatic', 'Hormonal', 'Immunological', 'Kidney and/or Bladder', 'Muscle, Bone or Joint', 'Neurological and/or Spinal', 'Reproductive', and 'Skin and/or Coat'. Within each of these categories, the respondents were given a choice of specific conditions, the choices of "not known" and "other" were also given.



**Figure 6:** Overall summary of ETT conditions reported in the survey

The data collected for Table 5 represents the total number of conditions selected by respondents about their dog. One dog might be affected by more than one condition (e.g., one dog may be affected by both food and environmental allergies) therefore the data often shows more conditions reported per category than number of affected dogs in that category.

The total number of specific conditions reported in this survey was 488. Out of the 488 specific conditions reported 30.9% were for 'dental', 21.1% were for 'skin and/or coat', 18.0% were for 'digestive', 7.4% were for 'muscle, bone or joint', and 5.7% were for 'eye'. The results for each category are given in Table 5.

**Table 5:** Overall summary of health conditions by body system/ category, as reported in the survey

Body system	Number of specific conditions reported	Percentage
Dental	151	30.9%
Skin and/or coat	103	21.1%
Digestive	88	18.0%
Muscle, bone or joint	36	7.4%
Eye	28	5.7%
Cancer or mass/lump	19	3.9%
Reproductive	19	3.9%
Heart	12	2.5%
Neurological and/or spinal	12	2.5%
Ear	8	1.6%
Breathing	5	1.0%
Hormonal	4	0.8%
Kidney and/or bladder	3	0.6%
Immunological	0	0.0%
Haematological	0	0.0%
Hepatic	0	0.0%
<b>TOTAL</b>	<b>488</b>	

## Dental Conditions

When asked if any of their dogs have suffered from a dental condition(s), out of the 195 responses, 51 (26.2%) answered “Yes” and 144 (73.8%) answered “No”.

The total number of individual dental conditions reported was 151. Of these, the most commonly reported condition was dirty teeth, which affected 35.1% of the study sample (53 of 151). This was followed by gingivitis/ periodontal disease/ gum disease (23.8%), missing teeth (22.5%), dental abscess (5.3%), and not known (4.0%). Table 7 shows the total number and percentage of dogs affected by each reported dental condition in descending order.

*Please note, the survey was designed for up to five dogs and, in some cases, owners reported an unknown number of dogs affected by a particular condition. In these cases, the unknown number of dogs is represented as just ‘1’ dog within the summarised data. This is because we can safely assume that this condition affected at least one dog, however it is worth bearing in mind that this is the minimum number of dogs affected.*

**Table 7:** Number and percentage of ETTs affected by each specific dental condition, as reported in the survey

Specific condition	Number affected	Percentage
Dirty teeth	53	35.1%
Gingivitis/ periodontal disease/ gum disease	36	23.8%
Missing teeth	34	22.5%
Dental abscess	8	5.3%
Not known	6	4.0%
Other	5	3.3%
Retained puppy teeth	4	2.6%
Incorrect dentition	3	2.0%
Overbite	1	0.7%
Trauma	1	0.7%
<b>Total</b>	<b>151</b>	

The only answer to “other” for dental conditions not already listed in the survey was: ‘teeth removed’ (n=1).

## Skin and/or Coat Conditions

When asked if any of their dogs have suffered from a skin and/or coat condition(s), out of the 183 responses, 62 (33.9%) answered “Yes” and 121 (66.1%) answered “No”.

The total number of individual skin and/or coat conditions reported was 103. Of these, the most commonly reported condition was dry skin/ dandruff, which affected 21.4% of the study sample (22 of 103). This was followed by demodectic mange/ demodex (14.6%), dietary allergies (11.7%), hair loss (10.7%), itchiness/ skin irritation (10.7%), and other (10.7%). Table 6 shows the total number and percentage of dogs affected by each reported skin and/or coat condition in descending order.

**Table 6:** Number and percentage of ETTs affected by each specific skin and/or coat condition, as reported in the survey

Specific condition	Number affected	Percentage
Dry skin/ dandruff	22	21.4%
Demodectic mange/ demodex	15	14.6%
Allergies (dietary)	12	11.7%
Hair loss	11	10.7%
Itchiness/ skin irritation	11	10.7%
Other	11	10.7%
Allergies (unknown)	8	7.8%
Allergies (environmental)	7	6.8%
Dermatitis	3	2.9%
Rash/ redness	2	1.9%
Not known	1	1.0%
<b>Total</b>	<b>103</b>	

The most common answers to “other” for skin and/ or coat conditions not already listed in the survey were: ‘lumps/ warts/ spots/ skin tags’ (n=4) and ‘stress/ anxiety’ related (n=3).

### Digestive Conditions

When asked if any of their dogs have suffered from a digestive condition(s), out of the 188 responses, 44 (23.4%) answered “Yes” and 144 (76.6%) answered “No”.

The total number of individual digestive conditions reported was 88. Of these, the most commonly reported condition was sensitive stomach, which affected 27.3% of the study sample (24 of 88). This was followed by acute gastroenteritis (17.0%), food allergies/intolerance (12.5%), intermittent diarrhoea (9.1%), and intermittent vomiting (9.1%). Table 8 shows the total number and percentage of dogs affected by each reported digestive condition in descending order.

**Table 8:** Number and percentage of ETTs affected by each specific digestive condition, as reported in the survey

Specific condition	Number affected	Percentage
Sensitive stomach	24	27.3%
Acute gastroenteritis	15	17.0%
Food allergies/intolerance	11	12.5%
Intermittent diarrhoea	8	9.1%
Intermittent vomiting	8	9.1%
Colitis	4	4.5%
Flatulence	4	4.5%
Not known	3	3.4%
Irritable bowel disease (IBD)	2	2.3%
Other	2	2.3%
Pancreatitis	2	2.3%
Anal gland/sac impaction/blockage	1	1.1%
Chronic diarrhoea	1	1.1%
Constipation	1	1.1%
Gastrointestinal foreign body	1	1.1%
Regurgitation	1	1.1%
<b>Total</b>	<b>88</b>	

The following answers to “other” for digestive conditions not already listed in the survey were reported once each: ‘eosinophilic gastritis’, ‘bile build-up’, and ‘low potassium’.

### **Muscle, Bone or Joint Conditions**

When asked if any of their dogs have suffered from a muscle, bone or joint condition(s), out of the 188 responses, 25 (13.3%) answered “Yes” and 163 (86.7%) answered “No”.

The total number of individual muscle, bone or joint conditions reported was 36. Of these, the most commonly reported condition was patellar luxation/ slipping kneecap, which affected 44.4% of the study sample (16 of 36). This was followed by other (16.7%), not known (13.9%), forelimb fracture (8.3%), and general stiffness (8.3%). Table 9 shows the total number and percentage of dogs affected by each reported muscle, bone or joint condition in descending order.

**Table 9:** Number and percentage of ETTs affected by each specific muscle, bone or joint condition, as reported in the survey

<b>Specific condition</b>	<b>Number affected</b>	<b>Percentage</b>
Patellar luxation/ slipping kneecap	16	44.4%
Other	6	16.7%
Not known	5	13.9%
Fracture (forelimb)	3	8.3%
General stiffness	3	8.3%
Arthritis	1	2.8%
Fracture (hindlimb)	1	2.8%
Fracture (other)	1	2.8%
<b>Total</b>	<b>36</b>	

The most common answers to “other” for muscle, bone or joint conditions not already listed in the survey were: ‘lameness’ (n=2) and ‘broken toe/ crushed foot’ (n=2).

When asked if they were aware of a particular incident (e.g., fall or injury) that triggered their dog’s muscle, bone or joint condition(s), out of the 27 responses, 12 (44.4%) answered “Yes” and 15 (55.6%) answered “No”.

### **Eye Conditions**

When asked if any of their dogs have suffered from an eye condition(s), out of the 185 responses, 23 (12.4%) answered “Yes” and 162 (87.6%) answered “No”.

The total number of individual eye conditions reported was 28. Of these, the most commonly reported condition was other, which affected 25.0% of the study sample (7 of 28). This was followed by cataract (21.4%), conjunctivitis (10.7%), dry eye (10.7%), and loss of vision (10.7%). Table 10 shows the total number and percentage of dogs affected by each reported eye condition in descending order.

**Table 10:** Number and percentage of ETTs affected by each specific eye condition, as reported in the survey

Specific condition	Number affected	Percentage
Other	7	25.0%
Cataract	6	21.4%
Conjunctivitis	3	10.7%
Dry eye	3	10.7%
Loss of vision	3	10.7%
Cherry eye	1	3.6%
Corneal ulcer	1	3.6%
Distichiasis	1	3.6%
Epiphora	1	3.6%
Episcleritis	1	3.6%
Trauma to the eyeball	1	3.6%
<b>Total</b>	<b>28</b>	

The most common answer to “other” for eye conditions not already listed in the survey was: ‘weepy eyes/ hay fever’ (n=4).

### **Cancer or a mass/lump**

When asked if any of their dogs have suffered from cancer or a mass/lump, out of the 188 responses, 16 (8.5%) answered “Yes” and 172 (91.5%) answered “No”.

The total number of individual cancers or mass/lumps reported was 19. Of these, the most commonly reported condition was lipoma, which each affected 47.4% of the study sample (9 of 19). This was followed by histiocytoma (10.5%), mammary tumour (10.5%), mast cell tumour (10.5%), and other (10.5%). Table 11 shows the total number and percentage of dogs affected by each reported cancer or mass/lump in descending order.

**Table 11:** Number and percentage of ETTs affected by each specific cancer or mass/lump, as reported in the survey

Specific condition	Number affected	Percentage
Lipoma	9	47.4%
Histiocytoma	2	10.5%
Mammary tumour	2	10.5%
Mast cell tumour	2	10.5%
Other	2	10.5%
Melanoma	1	5.3%
Not known	1	5.3%
<b>Total</b>	<b>19</b>	

The most common answer to “other” for cancers or mass/lumps not already listed in the survey was: ‘benign mass/ lump’ (n=2).

## Reproductive Conditions

When asked if any of their dogs have suffered from a reproductive condition(s), out of the 184 responses, 13 (7.1%) answered “Yes” and 171 (92.9%) answered “No”.

The total number of individual reproductive conditions reported was 19. Of these, 26.3% were for male conditions (5 out of 19), and 73.7% were for female conditions (14 out of 19). Overall, the most commonly reported reproductive condition across sexes was pseudopregnancy, which affected 10 dogs. This was followed by pyometra (n=3), cryptorchidism (n=2), and other (n=2). Table 12 shows the total number and percentage of dogs affected by each reported reproductive condition.

**Table 12:** Number and percentage of ETTs affected by each specific reproductive condition, as reported in the survey

	<b>Specific condition</b>	<b>Number affected</b>
<b>Male conditions</b>	Cryptorchidism	2 (40.0%)
	Other	2 (40.0%)
	Fertility problems	1 (20.0%)
	<b>Total</b>	<b>5</b>
<b>Female conditions</b>	Pseudopregnancy	10 (71.4%)
	Pyometra	3 (21.4%)
	Fertility problems	1 (7.1%)
	<b>Total</b>	<b>14</b>
<b>Total</b>		<b>19</b>

An additional comment under ‘other’ for the dog affected by pseudopregnancies was: ‘poor condition during seasons’.

Of 353 dogs included in this survey, 82 (23.2%) were reported to have been bred from.

## Heart Conditions

When asked if any of their dogs have suffered from a heart condition(s), out of the 184 responses, 11 (6.0%) answered “Yes” and 173 (94.0%) answered “No”.

The total number of individual heart conditions reported was 12. Of these, the most commonly reported condition was heart murmur, which affected 83.3% of the study sample (10 of 12). This was followed by dilated cardiomyopathy (8.3%) and not known (8.3%). Table 13 shows the total number and percentage of dogs affected by each reported heart condition in descending order.

**Table 13:** Number and percentage of ETTs affected by each specific heart condition, as reported in the survey

Specific condition	Number affected	Percentage
Heart murmur	10	83.3%
Dilated cardiomyopathy (DCM)	1	8.3%
Not known	1	8.3%
<b>Total</b>	<b>12</b>	

The only answer to “other” for heart conditions not already listed in the survey was ‘very mild murmur’ (n=1).

### Neurological and/or Spinal Conditions

When asked if any of their dogs have suffered from a neurological and/or spinal condition(s), out of the 184 responses, 10 (5.4%) answered “Yes” and 174 (94.6%) answered “No”.

The total number of individual neurological and/or spinal conditions reported was 12. Of these, the most commonly reported condition was seizures/ fitting, which affected 33.3% of the study sample (4 of 12). This was followed by epilepsy (16.7%) and not known (16.7%). Table 14 shows the total number and percentage of dogs affected by each reported neurological and/or spinal condition in descending order.

**Table 14:** Number and percentage of ETTs affected by each specific neurological and/or spinal condition, as reported in the survey

Specific condition	Number affected	Percentage
Seizures/ fitting	4	33.3%
Epilepsy	2	16.7%
Not known	2	16.7%
Idiopathic head tremors	1	8.3%
Other	1	8.3%
Trauma to the spine	1	8.3%
Vestibular disease	1	8.3%
<b>Total</b>	<b>12</b>	

The only answer to “other” for neurological and/or spinal conditions not already listed in the survey was: ‘paroxysmal dyskinesia’ (n=1).

### Ear Conditions

When asked if any of their dogs have suffered from an ear condition(s), out of the 185 responses, 7 (3.8%) answered “Yes” and 178 (96.2%) answered “No”.

The total number of individual ear conditions reported was 8. Of these, the most commonly reported condition was infrequent ear infections, which affected 50.0% of the study sample (4 of 8). The following conditions were reported once each: deafness, frequent ear infections, excessive ear wax, and otitis media. Table 15 shows the total number and percentage of dogs affected by each reported ear condition in descending order.

**Table 15:** Number and percentage of ETTs affected by each specific ear condition, as reported in the survey

Specific condition	Number affected	Percentage
Ear infections (infrequent)	4	50.0%
Deafness	1	12.5%
Ear infections (frequent)	1	12.5%
Excessive ear wax	1	12.5%
Otitis media	1	12.5%
<b>Total</b>	<b>8</b>	

### **Breathing Conditions**

When asked if any of their dogs have suffered from a breathing condition(s), out of the 179 responses, 5 (2.8%) answered “Yes” and 174 (97.2%) answered “No”. When asked to specify the breathing condition(s), the most common answers were ‘infrequent gasping of breath/ occasional shortness of breath’ (n=2), ‘episodes of persistent sneezing/ kennel cough/ reverse sneezing’ (n=2), and ‘soft palate damaged during surgery’ (n=1).

### **Kidney and/or Bladder Conditions**

When asked if any of their dogs have suffered from a kidney and/or bladder condition(s), out of the 184 responses, 3 (1.6%) answered “Yes” and 181 (98.4%) answered “No”.

The total number of individual kidney and/or bladder conditions reported was 3. These were cystinuria, urinary tract infection, and other. The answer to “other” for kidney and/or bladder conditions not already listed in the survey was ‘protein leaking’.

### **Hormonal Conditions**

When asked if any of their dogs have suffered from any other hormonal condition(s), out of the 184 responses, 3 (1.6%) answered “Yes” and 181 (98.4%) answered “No”.

The total number of individual hormonal conditions reported was 4. These were Cushing’s disease (hyperadrenocorticism), underactive thyroid (hypothyroidism), other, and not known. The answer to “other” for hormonal conditions not already listed in the survey was ‘swollen milk duct’.

### **Immunological Conditions**

When asked if any of their dogs have suffered from an immunological condition, out of the 179 responses, 0 (0%) answered “Yes” and 179 (100%) answered “No”.

### **Haematological Conditions**

When asked if any of their dogs have suffered from a haematological condition, out of the 179 responses, 0 (0%) answered “Yes” and 179 (100%) answered “No”.

### **Hepatic Conditions**

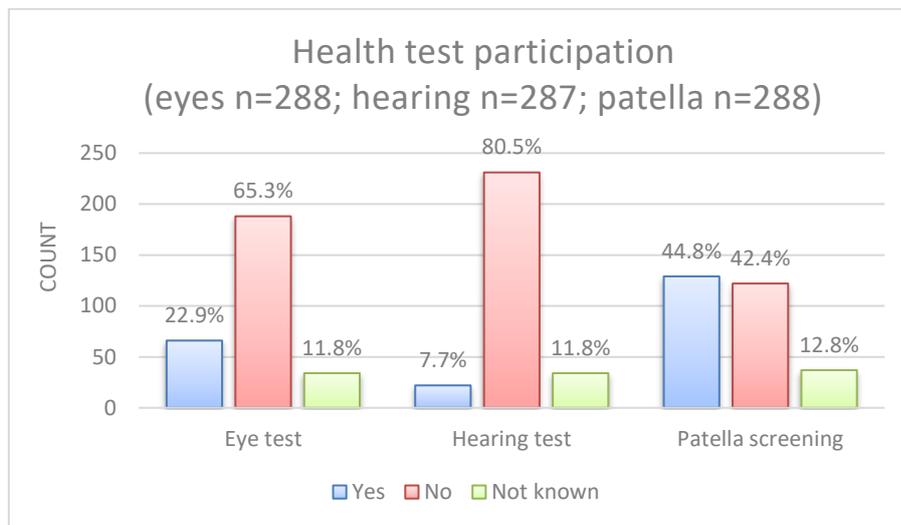
When asked if any of their dogs have suffered from a hepatic condition, out of the 179 responses, 0 (0%) answered “Yes” and 179 (100%) answered “No”.

### Additional conditions not listed in survey

The respondents were provided with the opportunity to note any conditions not already covered by the previous questions. The conditions listed for more than one dog were:

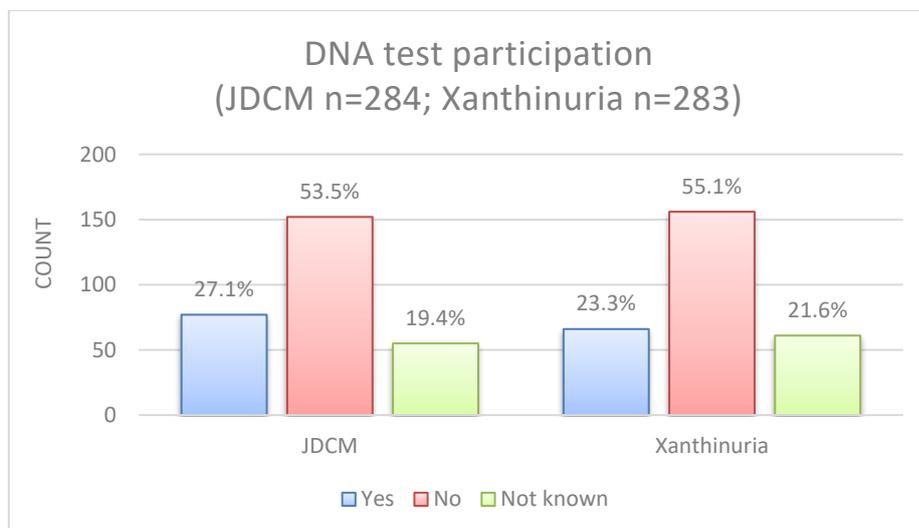
- Four reports of anal gland infection/ anal gland abscess/ blocked anal gland/ anal gland (unspecified).
- Two reports of one testicle/ undescended testicle.

Lastly, owners were asked if their dog(s) had participated in health tests. Of the dogs included in the survey, 22.9% (66 of 288) had been eye tested, 7.7% (22 of 287) had been hearing tested, and 44.8% (129 of 288) had been patellar screened. Results are shown in Figure 7.



**Figure 7:** Proportion of health tested dogs, as reported in the survey

In terms of DNA testing, 27.1% (77 of 284) had been DNA tested for juvenile dilated cardiomyopathy (JDCM) and 23.3% (66 of 283) had been DNA tested for xanthinuria. Results are shown in Figure 8.



**Figure 8:** Proportion of DNA tested dogs, as reported in the survey

Table 16 shows a breakdown of DNA test results, as reported in the survey.

**Table 16:** Results of DNA tested dogs, as reported in the survey

DNA test	Results		
	Clear	Carrier	Total
<b>JDCM</b>	75 (97.4%)	2 (2.6%)	<b>77</b>
<b>Xanthinuria</b>	64 (97.0%)	2 (3.0%)	<b>66</b>