Leonberger Health Survey 2019  
(Sponsored by LHFI)  

1079 Responses – THANKS Everyone!

341 males  
389 females  
(rest unknown)

Participants from:

<table>
<thead>
<tr>
<th>Country</th>
<th>USA</th>
<th>Newzealand</th>
<th>Great Britian</th>
<th>Austria</th>
<th>Canada</th>
<th>Estonia</th>
<th>Czech Republic</th>
<th>England</th>
<th>Hungary</th>
<th>France</th>
<th>Norway</th>
<th>Netherland</th>
<th>Poland</th>
<th>Belgium</th>
<th>Scotland</th>
<th>Australia</th>
<th>Denmark</th>
<th>Germany</th>
<th>Finland</th>
<th>Sweden</th>
<th>Romania</th>
<th>Spain</th>
</tr>
</thead>
</table>
Dogs' Country of Birth:

This Leonberger came from:
Cause of Death

Survey included data from 245 deceased dogs. Of those 245 dogs:

Cause of Death:
- Cancer = 57%
- Old Age / Immobility = 14%
- Cardiovascular Related Problems = 8%
- Polyneuropathy = 4%
- Gastrointestinal Related Problems = 3%
- All other causes were less than 1% of total

(81% of deceased dogs were euthanized due to health problems)

Average Age of Death

- Male = 8 years, 7 months
- Female = 9 years, 2 months

Average age at death (non accident-related)
- 2019 = 8.8 years old
- mid-1990s was ~ 7.5 years old
Overall Health of this Leonberger? (For deceased dogs, the overall health of the dog during its lifetime listed).

If overall health is fair or poor, at what age did health start to decline?
Does your Leonberger have any cancer/tumors?

Question completed by 755 owners. 23% answered “Yes” (n=175)

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adenocarcinoma</td>
<td>3.62%</td>
</tr>
<tr>
<td>Brain Cancer</td>
<td>3.02%</td>
</tr>
<tr>
<td>Fibrosarcoma</td>
<td>1.53%</td>
</tr>
<tr>
<td>Hemangiosarcoma</td>
<td>25.95%</td>
</tr>
<tr>
<td>Leukemia</td>
<td>0.00%</td>
</tr>
<tr>
<td>Lymphoma</td>
<td>4.56%</td>
</tr>
<tr>
<td>Malignant Histiocytosis</td>
<td>0.00%</td>
</tr>
<tr>
<td>Mast Cell Tumor - Low Grade</td>
<td>3.02%</td>
</tr>
<tr>
<td>Mast Cell Tumor - Intermediate/High Grade</td>
<td>3.62%</td>
</tr>
<tr>
<td>Mammary Cancer (breast)</td>
<td>13.74%</td>
</tr>
<tr>
<td>Uterine Cancer</td>
<td>0.00%</td>
</tr>
<tr>
<td>Melanoma</td>
<td>3.62%</td>
</tr>
<tr>
<td>Osteosarcoma</td>
<td>40.46%</td>
</tr>
<tr>
<td>Bone Cancer (non-osteosarcoma)</td>
<td>3.62%</td>
</tr>
<tr>
<td>Prostate Cancer</td>
<td>0.76%</td>
</tr>
<tr>
<td>Squamous Cell Carcinoma</td>
<td>1.53%</td>
</tr>
</tbody>
</table>

Total Respondents: 131

Does your Leonberger have any orthopedic/skeletal disorders?

Question completed by 737 owners. 19% answered “Yes” (n=139)

- Chondrodysplasia
- Cruciate Ligament (Eq...)
- Cruciate Ligament...
- Dislocation
- Elbow Dysplasia
- Hip Dysplasia
- Hyperostosis/Osteodystrophy...
- Osteoarthritis
- Osteochondrodysplasia (OCD)
- Patellarluxation
- Patellar Luxation
- Shoulder Dysplasia
- Scapulohumeral

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Does your Leonberger have any cardiac/heart disorders?

Question completed by 755 owners.
5% answered “Yes” (n=38)

Does your Leonberger have any neurological disorders?

Question completed by 744 owners.
9% answered “Yes” (n=65)
### LPN1 Genetic Test

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear (NN)</td>
<td>94.43%</td>
</tr>
<tr>
<td>Carrier/At Risk (DN)</td>
<td>5.31%</td>
</tr>
<tr>
<td>Affected (DD)</td>
<td>0.27%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>377</td>
</tr>
</tbody>
</table>

### LPN2 Genetic Test

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear (NN)</td>
<td>93.96%</td>
</tr>
<tr>
<td>Affected/Susceptible (DN)</td>
<td>5.18%</td>
</tr>
<tr>
<td>Affected/Susceptible (DD)</td>
<td>0.86%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>349</td>
</tr>
</tbody>
</table>
LEMP Genetic Test

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear (NN)</td>
<td>85.66%</td>
</tr>
<tr>
<td>Carrier (DN)</td>
<td>13.64%</td>
</tr>
<tr>
<td>Affected/Susceptible (DD)</td>
<td>0.70%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

Does your Leonberger have any gastrointestinal problems?

Question completed by 748 owners.
11% answered “Yes” (n=79)
Does your Leonberger have any allergies?

Question completed by 773 owners.
15% answered “Yes” (n=119)

Does your Leonberger have any ear problems?

Question completed by 752 owners.
13% answered “Yes” (n=99)
Does your Leonberger have any eye problems?
Question completed by 746 owners.
10% answered “Yes” (n=76)

- Cataracts, adult onset
- Cataracts, juvenile onset
- Distichiasis
- Entropion
- Ectropion
- Glaucoma
- Goniodysgenesis (Predisposition)
- Lens Location
- Persistent Pupillary...?
- Progressive Retinal Atrophy

Does your Leonberger have any skin disorders?
Question completed by 726 owners.
7% answered “Yes” (n=54)

- Demodectic Mange
- Perianal Fistula
- Pyoderma
- Hernia (inguinal)
- Hernia (Umbilical)
Does your Leonberger have any endocrine disorders?

Question completed by 750 owners.
6% answered “Yes” (n=48)

![Bar chart showing the percentage of owners whose Leonbergers have different endocrine disorders.]

Does your Leonberger have any respiratory disorders?

Question completed by 733 owners.
6% answered “Yes” (n=43)

![Bar chart showing the percentage of owners whose Leonbergers have different respiratory disorders.]

Powered by SurveyMonkey
Does your Leonberger have any dental/jaw disorders?

Question completed by 754 owners.
4% answered “Yes” (n=33)

- Extra Teeth
- jaw Malformation
- Misaligned Teeth
- Missing Teeth (at birth)
- Riker bite
- Overjet bite
- Underjet bite
- Wry bite

Does your Leonberger have any bloody/lymph disorders?

Question completed by 761 owners.
3% answered “Yes” (n=22)

- Idiopathic Thromboocytopenia
- Immune-Mediated Hemolytic
Does your Leonberger have any kidney/urinary disorders?

Question completed by 745 owners.
3% answered “Yes” (n=26)

- Bladder Stones: 1%
- Chronic Urinary Tract: 50%
- Kidney Stones: 2%
- Protein-Losing Nephropathy: 2%
- Renal Failure: 4%

Does your Leonberger have any liver disorders?

Question completed by 741 owners.
No primary liver disease (e.g. shunts, hepatitis)
Males: 39% were neutered

Question completed by 339 owners.

Reason

- Already Neutered
- Medical condition
- Breeding choice (e.g., disqualifying fault and unwilling to breed dog)
- Monorchid/cryptorchid (retain testicle)
- Life-style preference

Does your male Leonberger have any reproductive disorders?

Question completed by 334 owners.
7% answered “Yes” (n=24)
Is your male Leonberger used for breeding?

Question completed by 337 owners.
25% answered “Yes” (n=85)

If puppies were sired, were any puppies monorchid/cryptorchid at 8 wks?

Question completed by 69 owners.
28% answered “Yes” (n=19)
Females: 53% were spayed

Question completed by 388 owners.

Spaying was performed because of:

Question completed by 160 owners.
Does your female Leonberger have any reproductive disorders?

Question completed by 386 owners.
4% answered “Yes” (n=17)

Is this female Leonberger used for breeding?

Question completed by 379 owners.
37% answered “Yes” (n=141)
Does this Leonberger exhibit unusual temperament characteristics or aggression?

Question completed by 708 owners.
16% answered “Yes” (n=131)

What type of temperament issues does your Leonberger have?

Answered by 163 owners

<table>
<thead>
<tr>
<th></th>
<th>MILD</th>
<th>MODERATE</th>
<th>SEVERE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog aggression</td>
<td>60.94%</td>
<td>31.25%</td>
<td>7.81%</td>
<td>64</td>
</tr>
<tr>
<td>Aggression towards people</td>
<td>80.77%</td>
<td>19.23%</td>
<td>0.00%</td>
<td>28</td>
</tr>
<tr>
<td>Loud noise fear (e.g. thunderstorms, fireworks, etc.)</td>
<td>44.00%</td>
<td>42.00%</td>
<td>14.00%</td>
<td>50</td>
</tr>
<tr>
<td>High prey drive</td>
<td>30.00%</td>
<td>54.00%</td>
<td>16.00%</td>
<td>50</td>
</tr>
<tr>
<td>Shyness</td>
<td>67.27%</td>
<td>21.82%</td>
<td>10.91%</td>
<td>55</td>
</tr>
<tr>
<td>Separation anxiety (destructive behavior when left alone)</td>
<td>61.90%</td>
<td>33.33%</td>
<td>4.76%</td>
<td>21</td>
</tr>
<tr>
<td>Extreme anxiety</td>
<td>59.46%</td>
<td>29.73%</td>
<td>10.81%</td>
<td>37</td>
</tr>
</tbody>
</table>
If aggressive toward people, please specify type (check all that apply)
Answered by 26 owners.

If dog aggressive, please specify type (check all that apply)
Answered by 70 owners
What is the primary diet of this Leonberger (choose only 1)?
Answered 693 Owners

Does this Leonberger receive supplements?
Question completed by 706 owners.
57% answered “Yes” (n=404)
This Leonberger received the following vaccinations as a baby puppy (check all that apply):

Question completed by 663 owners.

<table>
<thead>
<tr>
<th>ANSWER CHOICES</th>
<th>RESPONSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parvovirus</td>
<td>93.36%</td>
</tr>
<tr>
<td>Distemper</td>
<td>87.93%</td>
</tr>
<tr>
<td>Rabies</td>
<td>80.69%</td>
</tr>
<tr>
<td>Bordetella (kennel cough)</td>
<td>56.86%</td>
</tr>
<tr>
<td>Canine Adenovirus (CAV-2)</td>
<td>31.67%</td>
</tr>
<tr>
<td>Leptospirosis</td>
<td>55.51%</td>
</tr>
<tr>
<td>Coronavirus</td>
<td>25.04%</td>
</tr>
<tr>
<td>Influenza</td>
<td>32.43%</td>
</tr>
<tr>
<td>Canine Herpes Virus</td>
<td>13.42%</td>
</tr>
<tr>
<td><strong>Total Respondents: 663</strong></td>
<td></td>
</tr>
</tbody>
</table>

Please indicate subsequent vaccinations this Leonberger has had and how often each vaccine is administered:

Question completed by 618 owners.

<table>
<thead>
<tr>
<th></th>
<th>ANNUALLY</th>
<th>AS NEEDED BASED ON TITERS</th>
<th>OTHER</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distemper</td>
<td>46.00%</td>
<td>29.78%</td>
<td>24.22%</td>
<td>450</td>
</tr>
<tr>
<td>Parvovirus</td>
<td>49.11%</td>
<td>25.79%</td>
<td>21.11%</td>
<td>450</td>
</tr>
<tr>
<td>Canine Adenovirus (CAV-2)</td>
<td>35.40%</td>
<td>34.93%</td>
<td>29.51%</td>
<td>161</td>
</tr>
<tr>
<td>Bordetella</td>
<td>62.60%</td>
<td>13.55%</td>
<td>23.80%</td>
<td>369</td>
</tr>
<tr>
<td>Leptospirosis</td>
<td>62.50%</td>
<td>13.08%</td>
<td>24.42%</td>
<td>344</td>
</tr>
<tr>
<td>Coronavirus</td>
<td>38.73%</td>
<td>32.19%</td>
<td>26.06%</td>
<td>146</td>
</tr>
<tr>
<td>Lyme disease</td>
<td>57.35%</td>
<td>15.44%</td>
<td>27.21%</td>
<td>136</td>
</tr>
<tr>
<td>Giardia</td>
<td>37.50%</td>
<td>25.00%</td>
<td>37.50%</td>
<td>80</td>
</tr>
<tr>
<td>Parainfluenza</td>
<td>43.33%</td>
<td>24.44%</td>
<td>32.22%</td>
<td>100</td>
</tr>
<tr>
<td>Influenza</td>
<td>58.70%</td>
<td>15.22%</td>
<td>26.06%</td>
<td>184</td>
</tr>
<tr>
<td>Rabies</td>
<td>36.43%</td>
<td>14.01%</td>
<td>48.06%</td>
<td>527</td>
</tr>
</tbody>
</table>
Has this Leonberger ever had an adverse reaction to a vaccination?

Question completed by 696 owners.
4% answered “Yes” (n=29)

Do you run titer tests on this Leonberger?

Question completed by 673 owners.
23% answered “Yes” (n=154)
Does this Leonberger receive any preventative treatments?

Answered by 589 Owners

- Heartworm preventative
- Flea/Tick preventative
- Gastroscopy (stomach tach)

Seasonally vs Year-Round