



The survey takes about 15 minutes to complete.

You will be asked general and specific questions about the organ systems of your French Bulldog. If your dog is not or has not been affected by a disease, please select “no answer”. If you do not know the exact age of your dog at the time of illness, you can estimate. It is possible and even desirable to take part in the survey even if your dog has already died.

Only complete surveys can be considered.

If you own several French Bulldogs, please complete this survey for each dog separately.

Section A: General questions

In this complex you will be asked general questions about your French Bulldog.

A1.

What is your dog's name?

Answering is optional

A2.

Has your dog already passed away?

If yes, please fill out the rest of the survey regarding that dog.

Yes ☐

No ☐



A3. How old was your dog, when he or she passed away?

What was the cause of death of your dog?

e.g. liver tumor, epileptic seizure, sepsis due to (...)

A4.

When was your French Bulldog born?

If you don't know the exact date, you can guess.

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A5. What gender is your dog?

Female ☐

Male ☐

A6.

Is your dog neutered?

uncastrated ☐

surgically neutered/spayed ☐

hormone-treated/chipped ☐

A7. If your dog has been treated for health reasons , please state the reason.



A8.

Is your French Bulldog purebred?

For the sake of simplicity, a French Bulldog is referred to as purebred if its parents are proven to be French Bulldogs OR possess the essential characteristics of the breed.

Yes, verifiable (e.g. breeding papers of the parents) ☐

Yes, most likely by appearance (but no papers) ☐

I don't know ☐

No ☐

A9.

What other breed or breeds are in your French Bulldog?

e.g.: Pug, Boston Terrier

Father:

Mother:

A10. Is your dog used for breeding?

Yes ☐

No ☐

A11.

How tall is your dog in cm?

The size is measured from the withers to the ground

A12. How much does your dog weigh in kg?



A13.

What color coat does your dog have?

fawn red fawn spotted/pied black brindle

fawn ☐

red fawn ☐

spotted/pied ☐

black ☐

cream ☐

brindle ☐

white ☐

blue ☐

lilac ☐

tan ☐

Merle ☐

Other ☐

Other

A14.

Mark the statements that apply to your French Bulldog!

my dog is fluffy (long-haired) ☐

my dog carries the Merle gene (special coloring) ☐

my dog is breathing freely ☐

my dog is a retro Frenchie/Bulldog (back breeding with a longer nose, usually also a long tail) ☐

my dog has white ears ☐

None of the above ☐



A15. How did you get your dog?

from a breeding ☐

from the animal shelter ☐

from acquaintances/friends ☐

from animal protection ☐

Online Forums/eBay ☐

Other ☐

Other

A16. My dog is regularly...

vaccinated ☐

dewormed ☐

treated against fleas and ticks ☐

none of the above ☐

Other ☐

Other

A17.

If your dog needs to take medication regularly, please state which ones.



A18. Does your French Bulldog have health insurance?

- no ☐
- only surgery insured ☐
- fully insured ☐

A19. Which country does your dog come from?

- Germany ☐
- Switzerland ☐
- Austria ☐
- Spain ☐
- Bulgaria ☐
- Hungary ☐
- Romania ☐
- USA ☐
- England ☐
- Australia ☐
- Other ☐

Other

[illegible]

Figure 1 is a timeline diagram showing the duration of study events. The timeline is divided into intervals: <1 year, 1-2 years, 3-4 years, 5-6 years, 7-8 years, 9-10 years, 11-12 years, 13-14 years, and >14 years. Two rows of events are shown: 'anal sac inflammation/drainage disorder' and 'hepatitis (liver inflammation)'. Both rows have boxes at each interval, indicating that these events can occur at any time during the study.

B2.

Which foods is your dog allergic to?

poultry/chicken	☐
Grain	☐
Beef	☐
Other	☒

Other

--

B3. How does your dog's food allergy manifest itself?

increased itching	☐
licking the paws	☐
ear problems	☐
diarrhea	☐
heartburn/belching/reflux	☐
flatulence/bloating	☐

B4.

Has your dog ever been diagnosed with any of the following infectious diseases?

If your dog was cured and has fallen ill again, please also mark the age at the time of the return of the illness!

The diagram consists of two horizontal timelines. The top timeline is for parvovirus, with the text 'parvovirus (infection with the parvovirus, mostly in puppies, bloody diarrhea)' to its left. The bottom timeline is for giardia, with the text 'giardia (parasites of the stomach, diarrhea)' to its left. Both timelines share a common set of age markers at the top: '<1 year', '1-2 years', '3-4 years', '5-6 years', '7-8 years', '9-10 years', '11-12 years', '13-14 years', and '>14 years'. Each marker is aligned with a square box on the timeline. In the parvovirus timeline, boxes are present for all age groups from '<1 year' to '>14 years'. In the giardia timeline, boxes are present for all age groups from '<1 year' to '13-14 years', but there is no box for the '>14 years' category.

Age Group	Parvovirus (infection with the parvovirus, mostly in puppies, bloody diarrhea)	Giardia (parasites of the stomach, diarrhea)
<1 year	Yes	Yes
1-2 years	Yes	Yes
3-4 years	Yes	Yes
5-6 years	Yes	Yes
7-8 years	Yes	Yes
9-10 years	Yes	Yes
11-12 years	Yes	Yes
13-14 years	Yes	Yes
>14 years	Yes	No



	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
bacterial enteritis	☐	☐	☐	☐	☐	☐	☐	☐	☐

B5.

Has your dog been diagnosed with any other diseases affecting the digestive tract (oral cavity, esophagus, stomach, intestines, anal sacs, liver, pancreas) not mentioned here?

e.g. cleft palate, gastric torsion, intestinal obstruction

Section C: respiratory system

In the following section, you will be asked questions about your dog's respiratory system. This includes the following organs: the nose, the throat, the larynx, the trachea, the pulmonary branches and the lungs.

C1. Has your dog ever shown the following symptoms?

snoring	☐
heat stress (excessive panting to shortness of breath during hot periods)	☐
performance intolerance	☐
panting even at rest	☐
permanently audible breathing	☐
shortness of breath	☐
Upright position when sleeping/sitting	☐

C2.

Match your dog's nose to the following pictures!

The nostrils are almost closed, there is hardly any space visible between the lateral and middle nostril wall	☐
The nostrils are mostly closed, a small space between the lateral and middle nostril wall is visible	☐
The lateral nostril wall touches the middle nostril wall at the upper part of the nostril, and the nostrils are only open downwards	☐
Slightly narrowed nostrils where the lateral nostril wall does not touch the middle nostril wall	☐
Wide open nostrils	☐

Category	Value
1	0.2
2	0.3
3	0.4
4	0.5
5	0.6

[illegible]

lungworm infection



	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
bacterial pneumonia (pneumonia caused by bacteria)	☐	☐	☐	☐	☐	☐	☐	☐	☐
aspergillosis (pneumonia caused by fungi)	☐	☐	☐	☐	☐	☐	☐	☐	☐
viral pneumonia (kennel cough)	☐	☐	☐	☐	☐	☐	☐	☐	☐

C6.

Has your French Bulldog ever had at least one brachycephalic surgery?

e.g. widening of the nostrils, shortening of the soft palate

Yes, once	☐
Yes twice	☐
Yes, three times	☐
not yet, but in planning	☐
no	☐

C7.

What procedures were performed during the first operation?

enlargement of the nostrils	☐
shortening the soft palate	☐
thinning of the soft palate	☐
removal of the laryngeal pouches	☐
removal of parts of the nasal turbinates	☐
removal of the tonsils	☐
laryngeal dilation	☐
I don't know	☐

C8.

What procedures were performed during the second operation?

enlargement of the nostrils	☐
shortening the soft palate	☐
thinning of the soft palate	☐
removal of the laryngeal pouches	☐

I don't know

--

Figure 1 is a diagram illustrating the experimental design. It shows five rows representing litters (1st litter to 5th litter) and six columns representing age groups (1-2, 3-4, 5-6, 7-8, 9-10, >10). Each cell contains a box for sample collection. Dashed lines connect boxes horizontally and vertically, indicating the progression of time and the relationship between litters and age groups.



D3. Has your dog ever had complications while giving birth?

Yes ☐

No ☐

D4.

What complications occurred during or after birth?

prolonged birth ☐

weak contractions ☐

puppies getting stuck in the birth canal ☐

stillbirths ☐

problems in freeing the puppies from the amniotic sacs ☐

lack of care for the puppies after birth ☐

death of puppies during birth ☐

mummification of the puppies ☐

missing milk ☐

endometritis (inflammation of the uterus) ☐

mastitis (inflammation of the mammary glands) ☐

puerperal tetany (calcium deficiency after birth) ☐

Other ☐

Other

D5. Has your dog ever had to undergo a cesarean section?

Yes ☐

No ☐

No ☐No ☐

both testicles	
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[illegible]



D10.

Has your dog been diagnosed with any other diseases/problems related to the reproductive organs or fertility or birth of your dog?

Section E: urinary organs

In this group of questions you will be asked questions about your dog's urinary organs. These include: the kidneys, the ureters, the urinary bladder and the urethra.

E1.

At what age was your French Bulldog diagnosed with the following diseases?

If your dog was cured and has fallen ill again, please also mark the age at the time of the return of the illness!

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
renal dysplasia (improper development of kidney tissue)	☐	☐	☐	☐	☐	☐	☐	☐	☐
chronic renal failure (limited renal function)	☐	☐	☐	☐	☐	☐	☐	☐	☐
acute renal failure (e.g. due to toxins)	☐	☐	☐	☐	☐	☐	☐	☐	☐
leptospirosis (infection with leptospira)	☐	☐	☐	☐	☐	☐	☐	☐	☐
ectopic ureter (malformed ureter)	☐	☐	☐	☐	☐	☐	☐	☐	☐
cystitis	☐	☐	☐	☐	☐	☐	☐	☐	☐
urinary stones	☐	☐	☐	☐	☐	☐	☐	☐	☐

E2. Which urinary stones were diagnosed?

struvite	☐
calcium oxalate	☐
silicates	☐
cystine	☐
urates	☐



E3.

Has your dog been diagnosed with other diseases affecting the urinary tract?

e.g. pyelonephritis

Section F: skeletal system

You will be asked questions about your dog's skeletal system, including bones, muscles, joints, ligaments and tendons.

F1.

Has your French Bulldog ever been diagnosed with wedge vertebrae ?

Deformation of the vertebral bodies, which can twist the spine

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
age at diagnosis	☐	☐	☐	☐	☐	☐	☐	☐	☐

F2. Which subtype was diagnosed? (*Source: ourhumananatomy.blogspot.com*)

semi-

segmented segmented wedge-shaped kissing spine kissing-spine with wedge

semi-segmented	☐
segmented	☐
wedge-shaped	☐
kissing spine	☐
kissing spine with hemivertebrae	☐
I don't know	☐

--

At what age was your French Bulldog diagnosed with the following diseases?

[illegible]

Other

[illegible][illegible]

You will be asked questions about your brain, spinal cord and nerves.

age at diagnosis

age at healing

age at healing (surgery)

age at recurrence

<1 year 1-2 years 3-4 years 5-6 years 7-8 years 9-10 years 11-12 years 13-14 years >14 years



G2.

In which section of the spine was the disc herniation located?

cervical (neck area) ☐

thoracic (thoracic spine area) ☐

lumbar (lumbar region) ☐

G3.

At what age was your dog diagnosed with the following diseases?

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
meningoencephalitis (inflammation of the brain and meninges)	☐	☐	☐	☐	☐	☐	☐	☐	☐
fibrinoid leukodystrophy (degeneration of the brain and spinal cord)	☐	☐	☐	☐	☐	☐	☐	☐	☐
spinal subarachnoid diverticula (dilations that compress the spinal cord)	☐	☐	☐	☐	☐	☐	☐	☐	☐
epilepsy	☐	☐	☐	☐	☐	☐	☐	☐	☐
dementia	☐	☐	☐	☐	☐	☐	☐	☐	☐

G4.

Has your dog been diagnosed with other nervous system diseases not mentioned here?

e.g. hydrocephalus, paralysis, vestibular syndrome



Section H: eye

In this series of questions, you will be asked questions about your French bulldog's eyes. At the end, you can add any diseases not listed yourself.

H1.

Has your French Bulldog ever been diagnosed with the following eye conditions?

If your dog was cured and has fallen ill again, please also mark the age at the time of the return of the illness!

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	15-16 years
exophthalmus (protrusion of the eye from the eye socket)	☐	☐	☐	☐	☐	☐	☐	☐	☐
entropion (eyelid rolled towards the eye)	☐	☐	☐	☐	☐	☐	☐	☐	☐
cataract (clouding of the lens)	☐	☐	☐	☐	☐	☐	☐	☐	☐
corneal ulcer (injury to the anterior skin of the eye)	☐	☐	☐	☐	☐	☐	☐	☐	☐
canine multifocal retinopathy (retinal damage)	☐	☐	☐	☐	☐	☐	☐	☐	☐
glaucoma	☐	☐	☐	☐	☐	☐	☐	☐	☐
blindness	☐	☐	☐	☐	☐	☐	☐	☐	☐
conjunctivitis	☐	☐	☐	☐	☐	☐	☐	☐	☐
foreign body in the eye	☐	☐	☐	☐	☐	☐	☐	☐	☐

H2.

Has your dog been diagnosed with any other eye diseases not mentioned here?

I1.

If your dog was cured and has fallen ill again, please also mark the age at the time of the return of the illness!

[illegible]

I2.

Does your dog suffer from other ear diseases?

The following group of questions deals with diseases of the blood system. These include blood cells (red and white blood cells), blood coagulation, the vascular system, the spleen, the bone marrow, the heart and immune deficiencies.

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
pulmonary stenosis (narrowing of the drainage pathway from the right ventricle to the lungs)	Box						Box		
cardiac arrhythmia	Box						Box		



	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
ventricular septal defect (hole in the heart wall)	☐	☐	☐	☐	☐	☐	☐	☐	☐
mitral valve endocardiosis (thickening of the heart valves)	☐	☐	☐	☐	☐	☐	☐	☐	☐
Von Willebrand disease (bleeding disorder)	☐	☐	☐	☐	☐	☐	☐	☐	☐
hemophilia A or B (blood clotting disorder)	☐	☐	☐	☐	☐	☐	☐	☐	☐
high blood pressure	☐	☐	☐	☐	☐	☐	☐	☐	☐
autoimmune disease	☐	☐	☐	☐	☐	☐	☐	☐	☐
environmental allergy	☐	☐	☐	☐	☐	☐	☐	☐	☐

J2.

When was your dog diagnosed with the following infectious diseases ?

If your dog was cured and has become ill again , please also tick the age at the time of re-illness !

leishmaniasis ☐

babesiosis (canine malaria) ☐

heartworm ☐

J3.

Has your dog been diagnosed with other diseases affecting the bone marrow, spleen, heart, blood cells, immune deficiencies or blood vessels?



Section K: skin

In this questionnaire you will be asked 3 questions about your dog's skin and hair.

K1.

At what age was your dog diagnosed with the following diseases?

If your dog was cured and has fallen ill again, please also mark the age at the time of the return of the illness!

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
skin fold dermatitis (inflammation of the skin folds)	☐	☐	☐	☐	☐	☐	☐	☐	☐
atopic dermatitis (eczema)	☐	☐	☐	☐	☐	☐	☐	☐	☐
chin pyoderma (acne)	☐	☐	☐	☐	☐	☐	☐	☐	☐
demodicosis (caused by Demodex mites)	☐	☐	☐	☐	☐	☐	☐	☐	☐
color mutant alopecia (thinning of the fur due to certain coat colors)	☐	☐	☐	☐	☐	☐	☐	☐	☐

K2. Has your dog ever shown any of the following symptoms:

hair loss	☐
pedunculated warts	☐
purulent rash	☐
small red spots	☐
dandruff	☐
paw licking	☐
increased itching	☐
hives (thickened areas, similar to mosquito bites)	☐



K3.

Has your dog had any other skin problems not mentioned here?

e.g. skin cancer, particularly high/frequent flea infestation, hives, hairless areas

Section L: hormones

In this set of questions, you will be asked about illnesses your dog has that affect the hormone balance. Hormones include: thyroid hormones, sex hormones, bone metabolism hormones, adrenal hormones, and the associated centers: hypothalamus and pituitary gland.

L1. At what age was your dog diagnosed with the following diseases?

	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	>14 years
hypothyroidism (underactive thyroid)	☐	☐	☐	☐	☐	☐	☐	☐	☐
hypoadrenocorticism/Addison's disease (underfunction of the adrenal cortex)	☐	☐	☐	☐	☐	☐	☐	☐	☐
hyperadrenocorticism/Cushing syndrome (overactivity of the adrenal cortex)	☐	☐	☐	☐	☐	☐	☐	☐	☐
diabetes mellitus	☐	☐	☐	☐	☐	☐	☐	☐	☐

L2.

Has your dog been diagnosed with other hormone-related diseases?

e.g. Diabetes insipidus

M1.

Has your dog ever been diagnosed with any of the following tumors ?

[illegible]

M2.

How old was your dog when it healed ? Were there any recurrences ?

age at healing



	<1 year	1-2 years	3-4 years	5-6 years	7-8 years	9-10 years	11-12 years	13-14 years	15-16 years	>16 years
age at recovery (chemotherapy)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
age at recurrence	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

M3.

If you have further information about the tumor, you can provide it here!

e.g.: Breast tumor: benign mixed cell breast tumor / Brain tumor: oligodendroglial tumor

M4.

Has your dog ever been diagnosed with another type of tumor?

How old was your dog when diagnosed?

Section N: anesthesia

N1.

Has your dog ever been treated under general anesthesia ?

e.g. for castration, eye surgery, tooth extraction

Yes ☐

No ☐

N2. Did one or more complications occur during or after the anesthesia?

drop in blood pressure ☐



increase in blood pressure ☐

hypothermia ☐

hyperthermia ☐

organ failure ☐

cardiac arrest ☐

allergic reaction ☐

drug intolerance due to ABCB-1 gene defect ☐

respiratory arrest ☐

Other ☐

Other

Section O: behavioral disorders

O1. My dog shows....

	Joy	indifference	Fear	aggression
towards strangers	☐	☐	☐	☐
towards people you know	☐	☐	☐	☐
towards strange dogs	☐	☐	☐	☐
towards familiar dogs	☐	☐	☐	☐
towards children	☐	☐	☐	☐
towards men	☐	☐	☐	☐
when alone	☐	☐	☐	☐
with loud noises (bangs)	☐	☐	☐	☐



Section P: Contact

P1.

This survey will be evaluated and published. If you are interested in the data, you can provide your e-mail address.

In some cases it may be possible that further questions arise. May I ask you questions via your e-mail address?

Your e-mail address will only be used in the context of this survey and will be deleted after completion of the doctoral thesis.

I would like to receive the results

☐

Comment

I am ready to answer any questions

☐

Comment

P2.

I hereby confirm that all information has been answered conscientiously and honestly. Any diagnoses my dog has received were made by a veterinarian.

All information provided here regarding my dog may be used for research purposes without restriction.

Yes

☐

No

☐

Thank you for your support!

Do you have any questions or comments?

Then please contact me at: mh53ruho@studserv.uni-leipzig.de