Good Dog is collaborating with Canine Sports Productions to conduct a study exploring the potential effects of spay/neuter, alternative surgeries (vasectomy, ovary-sparing spay), and leaving dogs intact.

In recent years there has been great interest in the potential long-term effects of removing the gonads (the testes and ovaries) in dogs, including risk for some cancers, orthopedic conditions, and changes in behavior. As a result, some dog owners have chosen surgery for their dog that prevents breeding but leaves the gonads intact, such as a vasectomy or ovary-sparing spay (OSS).

To date, however, there is no published information on the long-term effects of these alternative surgeries. We are hosting this survey to learn more about the effects of vasectomy and ovary-sparing spay on dogs compared to the more traditional surgeries (neuter or spay) or leaving dogs intact.

By filling out this survey, you will be doing a great service to the dog world, helping people make more informed decisions about what, if any, reproductive surgery might be best for their canine companions.

Please fill out one survey for each of your current and past dogs. After filling out the survey for one dog, you can return to the link [https://www.surveymonkey.com/r/VSOS](https://www.surveymonkey.com/r/VSOS) to start another survey for a different dog. The estimated time to fill out the survey for one dog is no more than 5 minutes.

At the end of each survey, you will have an opportunity to provide any additional information you think might be important.

Definitions:
Intact - A dog that has not had any of its reproductive organs (ovaries, uterus, testes) removed, or a dog who has at least one testicle
Castration (neuter) - Removal of both testes
Spay - removal of both the ovaries and the uterus
Vasectomy - surgical cutting and sealing of the vas deferens
Ovary-sparing spay (hysterectomy) - removal of just the uterus, leaving the ovaries behind
Ovariectomy - removal of just the ovaries, leaving the uterus behind

First, please answer some simple questions about you and your dog.

What is your age

- Under 18
- 18-24
- 25-34
- 35-44
- 45-54
- 55-64
- 65+
- Prefer not to answer
What is your gender?
- Female
- Male
- Prefer not to answer
- Not listed (please specify)

What country do you live in?
- United States
- Canada
- Other (please specify)

Have you already completed this survey about a different dog?
- Yes
- No

Choose a dog that has shared your life. They can be currently alive or they can have passed away. The rest of the questions in this survey will be about this particular dog.

Please enter this dog's name or other identifying information so we can make sure we don't get multiple surveys about the same dog.

The rest of the questions in this survey will be about the dog you named on the previous page.

What is/was the dog's breed? If they are/were a mixed breed, what are/the predominant breeds, if known?

What is/was the dog's healthy adult weight?
- Between 1 and 10 lb. (1 to 4.5 kg.)
- Between 11 and 20 lb. (4.6 to 9 kg.)
- Between 20 and 40 lb. (9.1 to 18 kg.)
- Between 40 and 60 lb. (18.1 to 27 kg.)
- Between 60 and 80 lb (27.1 to 36 kg.)
- Between 80 and 100 lb. (36.1 to 45 kg.)
- Over 100 lb. (over 45 kg.)
Is this dog currently living?

- Yes
- No

What is their age in years? You can answer with partial years, such as 2.5 or 4.25.

What age was the dog when they passed away? You can answer with partial years, such as 10.5 or 11.25.

The rest of the survey asks questions about your dog's reproductive status and health.

Given the following definitions:...

- **Intact** – A dog that has not had any of its reproductive organs (ovaries, uterus, testes) removed, or a dog who has at least one testicle
- **Castration (neuter)** – Removal of both testes
- **Vasectomy** – Surgical cutting and sealing of the vas deferens
- **Ovary-sparing spay (hysterectomy)** – Removal of just the uterus, leaving the ovaries behind
- **Ovariectomy** – Removal of just the ovaries, leaving the uterus behind

... which of the following statements best describes the dog’s reproductive status NOW or when they passed away?

- A. This dog is/was an **intact male**.
- B. This dog is/was a **castrated (neutered) male**.
- C. This dog is/was a **male** that had a **vasectomy**.
- D. This dog is/was an **intact female**.
- E. This dog is/was a **female** that was either **spayed** or had an **ovariectomy**.
- F. This dog is/was a **female** that had an **ovary-sparing spay (hysterectomy)**.

The following questions are for intact male dogs (has at least one testicle and are not neutered or vasectomized).
Why did you decide to keep your dog intact? Check all that apply.

- I thought I might **breed** him
- He competes in **conformation**
- I was concerned about **changes in coat** quality
- My **veterinarian** recommended it
- I saw no reason to perform the surgery
- I was concerned about **maintaining fitness** if he was neutered
- I was concerned about **behavior problems** if he was neutered
- I believe that unneutered dogs are **healthier**
- I was concerned about **orthopedic problems** if he was neutered
- I was concerned about **cancer** if he was neutered
- Other (please specify)

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Does/did your dog repeatedly exhibit any of the following behaviors? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- Other (please specify)

- None of the above
Was your dog diagnosed with any of the following **orthopedic problems**? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)
- [ ] None of the above

Was your dog diagnosed with any of the following types of **cancer**? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Prostate cancer
- [ ] Testicular cancer
- [ ] Perianal adenoma
- [ ] Other (please specify)
- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Prostate cancer
- Testicular cancer
- Perianal adenoma
- [Insert text from Other]

Was your dog diagnosed with any of the following health conditions? Check all that apply.

- Prostate enlargement
- Prostate infection
- Addison's disease (hypoadrenocorticism)
- Cushing's disease (hyperadrenocorticism)
- Diabetes mellitus
- Hypothyroidism
- Obesity
- Other (please specify)
- None of the above

Please add any comments or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.

The following questions are for male dogs that are/were neutered (castrated).
Why did you decide to have your dog neutered (castrated)? Check all that apply.

- My dog was already **neutered when I obtained him**
- My dog had a **retained testicle**
- My **veterinarian** recommended it
- The breeder or rescue **required** that I neuter him
- To **prevent breeding**
- To avoid **managing an intact dog**
- To correct a **behavior** problem
- I believe that neutered dogs are **healthier**
- Other (please specify)

Do you know at what age your dog was neutered?

- Yes
- No

At what age was your dog neutered? Enter the number of years and months, e.g., if your dog was 6 months old, enter 0 years, 6 months; if your dog was 2-1/2 years old enter 2 years, 6 months, etc.

<table>
<thead>
<tr>
<th>Years</th>
<th>Months</th>
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Did your dog repeatedly exhibit any of the following behaviors before he was neutered?

Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whimpering/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- I don’t know because the dog was already neutered when I obtained him
- Other (please specify)

- None of the above
Did your dog repeatedly exhibit any of the following behaviors after he was neutered? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- Other (please specify)

- None of the above

Was your dog diagnosed with any of the following orthopedic problems before he was neutered? Check all that apply.

- Hip dysplasia
- Elbow dysplasia
- Cranial cruciate ligament (CCL or ACL) injury
- Osteochondrosis dissecans (OCD)
- Panosteitis
- Patellar luxation
- I don’t know because the dog was already neutered when I obtained him
- Other (please specify)

- None of the above
Was your dog diagnosed with any of the following orthopedic problems *after* he was neutered? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)

- [ ] None of the above

Was your dog diagnosed with any of the following types of cancer *before* he was neutered? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Prostate cancer
- [ ] Testicular cancer
- [ ] Perianal adenoma
- [ ] I don’t know because the dog was already neutered when I obtained him
- [ ] Other (please specify)

- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

Lymphoma/lymphosarcoma

Hemangiosarcoma (usually affects the spleen, heart or skin)

Mast cell cancer

Osteosarcoma (bone cancer)

Bladder cancer

Prostate cancer

Testicular cancer

Perianal adenoma

I don’t know because the dog was already neutered when I obtained him

[Insert text from Other]

Was your dog diagnosed with any of the following types of cancer after he was neutered? Check all that apply.

☐ Lymphoma/lymphosarcoma

☐ Hemangiosarcoma (usually affects the spleen, heart or skin)

☐ Mast cell cancer

☐ Osteosarcoma (bone cancer)

☐ Bladder cancer

☐ Prostate cancer

☐ Perianal adenoma

☐ Other (please specify)

☐ None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Prostate cancer
- Perianal adenoma
- [Insert text from Other]

Was your dog diagnosed with any of the following health conditions before he was neutered? Check all that apply.

- Prostate enlargement
- Prostate infection
- Addison’s disease (hypoadrenocorticism)
- Cushing’s disease (hyperadrenocorticism)
- Diabetes mellitus
- Hypothyroidism
- Obesity
- I don’t know because the dog was already neutered when I obtained him
- Other (please specify)
- None of the above
Was your dog diagnosed with any of the following health conditions *after* he was neutered? Check all that apply.

- [ ] Prostate enlargement
- [ ] Prostate infection
- [ ] Addison's disease (hypoadrenocorticism)
- [ ] Cushing's disease (hyperadrenocorticism)
- [ ] Diabetes mellitus
- [ ] Hypothyroidism
- [ ] Obesity
- [ ] Other (please specify)

- [ ] None of the above

If your dog had any complications related to the neutering procedure, please describe them:

Please add any additional comments or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.

The following questions are for male dogs that are/were vasectomized. Why did you decide to have your dog vasectomized? Check all that apply.

- [ ] My dog was already **vasectomized when I obtained him**
- [ ] My dog had a **retained testicle**
- [ ] My **veterinarian** recommended it
- [ ] The breeder or rescue **required** that I neuter or vasectomize him
- [ ] To **prevent breeding**
- [ ] I read that vasectomy was a **healthier** alternative to neutering.
- [ ] I believe that vasectomized dogs are **healthier**
- [ ] Other (please specify)
Do you know at what age your dog was vasectomized?

- Yes
- No

At what age was your dog vasectomized? You can answer with partial years, such as 1.5 or 2.25.

Did your dog repeatedly exhibit any of the following behaviors before he was vasectomized? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- I don't know because the dog was already vasectomized when I obtained him

- Other (please specify)

- None of the above
Did your dog repeatedly exhibit any of the following behaviors after he was vasectomized? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
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- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- Other (please specify)
- None of the above

Was your dog diagnosed with any of the following orthopedic problems before he was vasectomized? Check all that apply.

- Hip dysplasia
- Elbow dysplasia
- Cranial cruciate ligament (CCL or ACL) injury
- Osteochondrosis dissecans (OCD)
- Panosteitis
- Patellar luxation
- I don’t know because the dog was already vasectomized when I obtained him
- Other (please specify)
- None of the above
Was your dog diagnosed with any of the following orthopedic problems after he was vasectomized? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)

- [ ] None of the above

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Was your dog diagnosed with any of the following types of cancer before he was vasectomized? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Prostate cancer
- [ ] Testicular cancer
- [ ] Perianal adenoma
- [ ] I don’t know because the dog was already vasectomized when I obtained him

- [ ] Other (please specify)

- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

Lymphoma/lymphosarcoma

Hemangiosarcoma (usually affects the spleen, heart or skin)

Mast cell cancer

Osteosarcoma (bone cancer)

Bladder cancer

Prostate cancer

Testicular cancer

Perianal adenoma

I don’t know because the dog was already vasectomized when I obtained him

[Insert text from Other]

Was your dog diagnosed with any of the following types of cancer after he was vasectomized? Check all that apply.

☐ Lymphoma/lymphosarcoma

☐ Hemangiosarcoma (usually affects the spleen, heart or skin)

☐ Mast cell cancer

☐ Osteosarcoma (bone cancer)

☐ Bladder cancer

☐ Prostate cancer

☐ Testicular cancer

☐ Perianal adenoma

☐ Other (please specify)

☐ None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Prostate cancer
- Testicular cancer
- Perianal adenoma
- [Insert text from Other]

Was your dog diagnosed with any of the following health conditions before he was vasectomized? Check all that apply.

- Prostate enlargement
- Prostate infection
- Addison's disease (hypoadrenocorticism)
- Cushing's disease (hyperadrenocorticism)
- Diabetes mellitus
- Hypothyroidism
- Obesity
- I don't know because the dog was already vasectomized when I obtained him
- Other (please specify)
- None of the above
Was your dog diagnosed with any of the following health conditions *after* he was vasectomized? Check all that apply.

- [ ] Prostate enlargement
- [ ] Prostate infection
- [ ] Addison's disease (hypoadrenocorticism)
- [ ] Cushing's disease (hyperadrenocorticism)
- [ ] Diabetes mellitus
- [ ] Hypothyroidism
- [ ] Obesity
- [ ] Other (please specify)

- [ ] None of the above

If your dog had any **complications related to the vasectomy procedure**, please describe them.

Please add any additional **comments** or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.

The following questions are for female dogs that are/were intact (have not had ovaries and/or uterus removed).
Why did you decide to keep your female dog intact? Check all that apply.

- To breed her
- My veterinarian recommended it
- She competes in conformation
- I was concerned about changes in coat quality
- I saw no reason to perform the surgery
- I was concerned about maintaining fitness if she was spayed
- I was concerned about behavior problems if she was spayed
- I believe that intact dogs are healthier
- I was concerned about orthopedic problems if she was spayed
- I was concerned about cancer if she was spayed
- I was concerned about urinary incontinence if she was spayed
- Other (please specify)

Did your dog repeatedly exhibit any of the following behaviors? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- Other (please specify)
- None of the above
Was your dog diagnosed with any of the following **orthopedic problems**? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)

- [ ] None of the above

Was your dog diagnosed with any of the following types of **cancer**? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Mammary cancer
- [ ] Other (please specify)

- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Mammary cancer
- [Insert text from Other]

Was your dog diagnosed with any of the following health conditions? Check all that apply.

- Cystic ovaries
- Pyometra
- Benign mammary hyperplasia
- Urinary incontinence
- Cystic endometrial hyperplasia/Uterine cysts
- Hypothyroidism
- Obesity
- Addison’s disease (hypoadrenocorticism)
- Cushing’s disease (hyperadrenocorticism)
- Diabetes mellitus
- Other (please specify)
- None of the above

Please add any additional comments or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.

The following questions are for female dogs that are/were spayed or had an
ovariectomy (had both ovaries and uterus or just the ovaries removed).

Why did you decide to have your dog spayed? Check all that apply.

- My dog was already spayed when I obtained her
- My veterinarian recommended it
- The breeder or rescue required that I spay her
- To prevent breeding
- To correct a behavior problem
- I believe that spayed dogs are healthier
- To avoid managing a dog in heat
- To prevent pyometra (uterine infection)
- To prevent mammary cancer
- Other (please specify)

Do you know at what age your dog was spayed?

- Yes
- No

At what age was your dog spayed? Enter the number of years and months, e.g., if your dog was 6 months old, enter 0 years, 6 months; if your dog was 2-1/2 years old enter 2 years, 6 months, etc.

Years

Months
Did your dog repeatedly exhibit any of the following behaviors before she was spayed? Check all that apply.

- [ ] Humping people or objects
- [ ] Urine marking in the house
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- [ ] Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- [ ] Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- [ ] Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- [ ] Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- [ ] I don't know because the dog was already spayed when I obtained her
- [ ] None of the above
- [ ] Other (please specify)
Did your dog repeatedly exhibit any of the following behaviors after she was spayed? Check all that apply.

- [ ] Humping people or objects
- [ ] Urine marking in the house
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- [ ] Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- [ ] Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- [ ] Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- [ ] Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- [ ] Other (please specify)
  
- [ ] None of the above

Was your dog diagnosed with any of the following orthopedic problems before she was spayed? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] I don’t know because the dog was already spayed when I obtained her
- [ ] Other (please specify)
  
- [ ] None of the above
Was your dog diagnosed with any of the following orthopedic problems **after** she was spayed? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)

- [ ] None of the above

Was your dog diagnosed with any of the following types of cancer **before** she was spayed? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Mammary cancer
- [ ] I don’t know because the dog was already spayed when I obtained her
- [ ] Other (please specify)

- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart, or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Mammary cancer
- I don’t know because the dog was already spayed when I obtained her
- [Insert text from Other]

Was your dog diagnosed with any of the following types of cancer after she was spayed? Check all that apply.

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart, or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Mammary cancer
- Other (please specify)
- None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Mammary cancer

[Insert text from Other]

Was your dog diagnosed with any of the following health conditions before she was spayed? Check all that apply.

- Cystic ovaries
- Pyometra
- Benign mammary hyperplasia
- Urinary incontinence
- Cystic endometrial hyperplasia/Uterine cysts
- Hypothyroidism
- Obesity
- Addison's disease (hypoadrenocorticism)
- Cushing's disease (hyperadrenocorticism)
- Diabetes mellitus
- I don't know because the dog was already spayed when I obtained her
- Other (please specify)

☐ None of the above
Was your dog diagnosed with any of the following health conditions *after* she was spayed? Check all that apply.

- [ ] Benign mammary hyperplasia
- [ ] Urinary incontinence
- [ ] Hypothyroidism
- [ ] Obesity
- [ ] Addison’s disease (hypoadrenocorticism)
- [ ] Cushing’s disease (hyperadrenocorticism)
- [ ] Diabetes mellitus
- [ ] Other (please specify)
- [ ] None of the above

If your dog had any **complications** related to the spay procedure, please describe them.

Please add any additional **comments** or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.

**The following questions are for female dogs that had an ovary-sparing spay (had their uterus removed while leaving the ovaries intact)**

Why did you decide to have an OSS (hysterectomy)? Check all that apply.

- [ ] My dog **already had an OSS when I obtained her**
- [ ] My veterinarian recommended it
- [ ] The breeder or rescue **required** that I spay her or get an OSS
- [ ] To **prevent** breeding
- [ ] To correct a **behavior** problem
- [ ] I believe that dogs that have an OSS are **healthier**
- [ ] To prevent **pyometra** (uterine infection)
- [ ] Other (please specify)
Do you know at what age your dog had an ovary sparing spay?

- Yes
- No

At what age did your dog have an ovary-sparing spay? You can answer with partial years, such as 1.5 or 2.25.

Did your dog later have her ovaries removed in addition to the ovary-sparing spay?

- Yes
- No

If yes, **at what age did your dog have her ovaries removed?**

Why did your dog have her ovaries removed?
Did your dog repeatedly exhibit any of the following behaviors before she had the OSS? Check all that apply.

- Humping people or objects
- Urine marking in the house
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- I don’t know because the dog already had the OSS when I obtained her
- Other (please specify)

None of the above
Did your dog repeatedly exhibit any of the following behaviors *after* she had the OSS? Check all that apply.

- [ ] Humping people or objects
- [ ] Urine marking in the house
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar people
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward strangers
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward familiar dogs
- [ ] Aggression (snapping, lunging, biting, or attempting to bite) toward unfamiliar dogs
- [ ] Fear of storms (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Fear of loud noises such as fireworks, gunshots (e.g., whimpering and whining, freezing, shaking and trembling, exaggerated cowering, attempts to escape, retreat or hide)
- [ ] Hyper excitability (barks or yelps hysterically at the slightest disturbance, rushes toward and around any source of excitement, and is difficult to calm down)
- [ ] Separation anxiety (signs of anxiety or abnormal behavior when left alone such as shaking, shivering, or trembling, excessive salivation, restlessness, agitation, whining/barking/howling, chewing or scratching at doors, floor, windows, curtains, etc.)
- [ ] Food guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of food in the presence of a person or other animal)
- [ ] Toy or other resource guarding (the use of avoidance, threatening, or aggressive behaviors by a dog to retain control of non-food items in the presence of a person or other animal)
- [ ] Other (please specify)
- [ ] None of the above

Was your dog diagnosed with any of the following orthopedic problems *before* she had the OSS? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] I don’t know because the dog already had the OSS when I obtained her
- [ ] Other (please specify)
- [ ] None of the above
Was your dog diagnosed with any of the following orthopedic problems *after* she had the OSS? Check all that apply.

- [ ] Hip dysplasia
- [ ] Elbow dysplasia
- [ ] Cranial cruciate ligament (CCL or ACL) injury
- [ ] Osteochondrosis dissecans (OCD)
- [ ] Panosteitis
- [ ] Patellar luxation
- [ ] Other (please specify)

- [ ] None of the above

Was your dog diagnosed with any of the following types of cancer *before* she had the OSS? Check all that apply.

- [ ] Lymphoma/lymphosarcoma
- [ ] Hemangiosarcoma (usually affects the spleen, heart or skin)
- [ ] Mast cell cancer
- [ ] Osteosarcoma (bone cancer)
- [ ] Bladder cancer
- [ ] Mammary cancer
- [ ] I don't know because the dog already had the OSS when I obtained her
- [ ] Other (please specify)

- [ ] None of the above
At what age was your dog diagnosed with the following type(s) of cancer?

Lymphoma/lymphosarcoma

Hemangiosarcoma (usually affects the spleen, heart or skin)

Mast cell cancer

Osteosarcoma (bone cancer)

Bladder cancer

Mammary cancer

I don’t know because the dog already had the OSS when I obtained her

[Insert text from Other]

Was your dog diagnosed with any of the following types of cancer after she had the OSS? Check all that apply.

☐ Lymphoma/lymphosarcoma

☐ Hemangiosarcoma (usually affects the spleen, heart or skin)

☐ Mast cell cancer

☐ Osteosarcoma (bone cancer)

☐ Bladder cancer

☐ Mammary cancer

☐ Other (please specify)

☐ None of the above
At what age was your dog diagnosed with the following types(s) of cancer?

- Lymphoma/lymphosarcoma
- Hemangiosarcoma (usually affects the spleen, heart or skin)
- Mast cell cancer
- Osteosarcoma (bone cancer)
- Bladder cancer
- Mammary cancer
- [Insert text from Other]

Was your dog diagnosed with any of the following health conditions *before* she had the OSS? Check all that apply.

- Cystic ovaries
- Pyometra
- Benign mammary hyperplasia
- Urinary incontinence
- Cystic endometrial hyperplasia/Uterine cysts
- Hypothyroidism
- Obesity
- Addison’s disease (hypoadrenocorticism)
- Cushing’s disease (hyperadrenocorticism)
- Diabetes mellitus
- I don’t know because the dog already had the OSS when I obtained her
- Other (please specify)
  
- None of the above
Was your dog diagnosed with any of the following health conditions after she had the OSS? Check all that apply.

☐ Cystic ovaries
☐ Benign mammary hyperplasia
☐ Urinary incontinence
☐ Hypothyroidism
☐ Obesity
☐ Addison’s disease (hypoadrenocorticism)
☐ Cushing’s disease (hyperadrenocorticism)
☐ Diabetes mellitus
☐ Other (please specify)

☐ None of the above

If your dog had any complications related to the OSS procedure, please describe them.

Please add any comments or information that you think might be important.

This is the end of the survey. If you’d like to review your answers, you can do so now. Once you submit, you will not be able to go back.