

SPAYING & NEUTERING YOUR PETS

* CURRENT RECOMMENDATIONS *

Just like human medicine, veterinary medicine has its share of controversies regarding treatment, procedures and other issues. And for many years, there has been much discussion regarding when to spay and neuter our pets.

Fortunately, we now have a considerable amount of research data to help us make a better decision of when to spay and neuter. Understand that far more research has been done in dogs than in cats. To access the largest study, see the link at the bottom of the page.

To be clear, I am fully aware that each situation has a different set of circumstances, such as the choice for pet adoption groups to spay/neuter at a young age prior to adoption to insure that adopted dogs will not be used for breeding purposes ... a pet owner acquiring both a male and female puppy or kitten at the same time ... concerns of accidental pregnancies / aggression / tendency to roam, etc. My intention is to provide the information we have now, and let owners decide for themselves when to spay-neuter their pets based upon their particular circumstances.

So, I will get right to the recommendations here, with supporting reasons to follow:

- 1) Male Dogs Ideally, wait til after 12 months of age to neuter (and after 2 years for GIANT breeds)
- 2) <u>Female Dogs</u> Ideally, aim for ~12 months of age to spay. <u>Spay after the 1st heat cycle</u> (typically between 6-10 months of age), <u>but before the 2nd heat cycle</u> (usually about 6 months after the 1st heat cycle)
- 3) Male Cats 4-6 months of age to neuter (before reaching sexual maturity)
- 4) Female Cats 4-6 months of age to spay (before reaching sexual maturity)

<u>Male Dogs</u>: The <u>benefits</u> of neutering in male dogs at any age are 1) longer lifespan and 2) reducing prostate cancer and prostate disease later in life. But the <u>risks of early (less than 1 year of age) neutering</u> can be many. <u>In male dogs neutered before 1 year of age</u>, there is a much greater risk of bone cancer (esp large breed dogs) ... there is a greater risk for cancer of the spleen ... there is much greater risk of obesity ... there is much greater risk of an inactive thyroid condition (hypothyroidism) ... and an increased risk of knee injuries (anterior cruciate ligament ruptures), especially in larger breed dogs ... there is a much greater risk in Golden Retrievers for lymphosarcoma (cancer of the body's lymphatic system) .

Female Dogs: The primary benefit to spaying a dog before she goes into heat for the first time is to greatly reduce the risk of breast cancer. Both non-spayed dogs and cats have 7 times the risk of mammary cancer compared to females that are spayed before going into heat. There is virtually no risk of breast cancer developing in dogs spayed before going into heat. If a dog goes through 1 heat cycle (usually between 6 and 10 months of age), she has an 8% chance of developing breast cancer. If a dog or cat goes through 2 heat cycles, they have a 26% chance of developing breast cancer (1 in 4 female dogs or cats). And the risk increases with each heat cycle. Also, spayed dogs and cats have virtually no risk of a life-threatening uterus infection (pyometra).

However, in Female Dogs spayed before 1 year of age, there are many more potential risks: there is a much greater risk of bone cancer (esp large breed dogs) ... there is a greater risk for cancer of the spleen ... much greater risk for an inactive thyroid condition (hypothyroidism) ... much greater risk for obesity ... and an increased risk of knee injuries (anterior cruciate ligament ruptures, especially in larger breed dogs) ... increased risk of hip dysplasia (especially in larger breed dogs) ... much higher risk of urinary incontinence (loss of bladder control) ... increased risk of persistent or recurring urinary tract infections.

Research has also examined female dogs to determine whether it is preferred to remove the ovaries + the uterus (ovariohysterectomy) ... or remove just the ovaries alone (leaving the uterus alone \sim ovariectomy). Here in the U.S., the vast majority of vets remove both the ovaries and the uterus. In Europe and Asia, veterinarians typically remove only the ovaries. The consensus ? Assuming the female has a normal uterus, there does not appear to be any advantage health-wise with either method, even looking at long-term studies. - Dr Bob Parrish