

Surgery Guidelines for Great Danes

The following information regarding both routine spay and neuter surgery as well as emergency situations in the Great Dane (such as those involving C-sections) is presented as a basic protocol to help avoid complications such as DIC (**D**isseminated **I**ntravascular **C**oagulopathy) which appear to occur in a higher number of giant dogs undergoing surgery than the norm. Therefore, the GDCA offers the following information for owners and breeders of Great Danes.

Several veterinary clinics with regular and extensive experience dealing with giant breeds have developed similar protocols for surgery that can be recommended preferentially for giant breeds. These are techniques that have proven highly successful; both in routine spay/neuter surgeries as well as more critical care situations, such as C-sections. Such a set of protocols is offered below. We suggest you download it and discuss this with your veterinarian PRIOR to any surgical appointment.

Please review the following with your attending veterinarian before deciding to have surgery done on your Dane:

1. First find a veterinarian experienced with surgeries involving giant breeds.
2. All elective surgeries, such as spay/neuter, should be done ideally only on healthy animals. Spays are best planned in anestrus: about 3 months after the last season. Please insure your veterinarian is aware of any health concerns you might have about your dog prior to surgery.
3. Prior to any surgery, request that the veterinarian do a complete physical examination, including a good heart auscultation, and EKG.
4. Ensure that you elect to have the pre-surgical blood work done (CBC and serum chemistry panel) and ask them to also include a CLOTTING PROFILE.
5. If all blood work and the exam are normal, then schedule the surgery and fast the dog overnight. It's not generally necessary to withhold water for 12 hours (simply put the water bowl away at bedtime).
6. Ask that the surgeon insert an IV catheter prior to surgery. Fluid therapy should generally be administered safety precautions. Pulse oximetry and cardiac monitoring are also recommended. If blood pressure monitoring is available, consider any extra costs as potentially insuring additional safety margins.
7. Spay surgery in conjunction with C-section is not always the safest option in giant dogs. Be sure to discuss the pros and cons of two separate surgeries vs. doing both procedures at once with your veterinarian.
8. Currently, the induction agent, **Propofol** (deprivan), and the gas anesthesia, **Sevoflurane**, are considered the most ideal (safe and effective) anesthetic agents. These agents are not always available and always cost more to use. Valium, ketamine, and the gas isoflurane are widely available and generally acceptable. Due to the variations in physiology in giant breeds, drugs such as acepromazine, rompun and the thiopentals are less appropriate choices. Discuss this with your veterinarian. Also discuss appropriate pain control for your dog when contemplating surgery for your Great Dane.

Prepared by the Health and Welfare committee of the Great Dane club of America. Written by Sue Cates, RVT and reviewed by LeAnn Lake-Heidke, DVM.