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Subject: DOE Topic #32: Bloat: Mother of all emergencies

Hi All,

I've received questions privately about bloat/GDV, what it is, the symptoms, etc. I sent out the link to the information below some time ago, but the web page is no longer up. When I asked for permission to share, I fortunately saved the content. Especially since Danes are the #1 breed to bloat, sharing this post as DOE Topic #32: Bloat: Mother of all emergencies.

[This work was originally published by Veterinary Information Network in 2001 and is shared with VIN's permission.]

Bloat in Dogs THE MOTHER OF ALL EMERGENCIES

There are many injuries and physical disorders which represent life-threatening emergencies. There is only one condition so drastic that it over shadows them all in terms of rapidity of consequences and effort in emergency treatment. This is the gastric dilatation and volvulus - the "bloat."

WHAT IS IT AND WHY IS IT SO SERIOUS?

The normal stomach sits high in the abdomen and contains a small amount of gas, some mucus, and any food being digested. It undergoes a normal rhythm of contraction, receiving food from the esophagus above, grinding the food, and meting the ground food out to the small intestine at its other end. Normally this proceeds uneventfully except for the occasional burp.

In the bloated stomach, gas and/or food stretches the stomach many times its normal size, causing tremendous abdominal pain. For reasons we do not fully understand, this grossly distended stomach has a tendency to rotate, thus twisting off not only its own blood supply but the only exit routes for the gas inside. Not only is this condition extremely painful but it is also rapidly life-threatening. A dog with a bloated, twisted stomach (more scientifically called "Gastric Dilatation and Volvulus") will die in pain in a matter of hours unless drastic steps are taken.

WHAT ARE THE RISK FACTORS FOR DEVELOPING BLOAT?

Classically, this condition affects dog breeds which are said to be "deep chested," meaning the length of their chest from backbone to sternum is relatively long while the chest width from right to left is narrow. Examples of deep chested breeds would be the Great Dane, Greyhound, and the setter breeds. Still, any dog can bloat, even dachshunds and chihuahuas.

In a study of bloat conducted at the Veterinary school at Purdue University, purebred dogs were 3 times more likely to bloat as were mixed breed dogs!

Classically also, the dog had eaten a large meal and exercised heavily shortly thereafter. Still, we usually do not know why a given dog bloats on an individual basis. No specific diet or dietary ingredient has been proven to be associated with bloat. Obesity does not predispose a dog to bloat.

HOW TO TELL IF YOUR DOG HAS BLOATED

The dog may have an obviously distended stomach especially near the ribs but this is not always evident depending on the dog's body configuration.

The biggest clue is the vomiting: the pet appears highly nauseated and is retching but little is coming up. If this is seen, rush your dog to the veterinarian IMMEDIATELY.

WHAT HAS TO BE DONE

There are several steps to saving a bloated dogs life. Part of the problem is that all steps should be done at the same time and as quickly as possible.

FIRST: THE STOMACH MUST BE DECOMPRESSED

The huge stomach is by now pressing on the major blood vessels carrying blood back to the heart. This stops normal circulation and sends the dog into shock. Making matters worse, the stomach tissue is dying because it is stretched too tightly to allow blood circulation through it. There can be no recovery until the stomach is untwisted and the gas released. A stomach tube and stomach pump are generally used for this but sometime surgery is needed to achieve stomach decompression.

ALSO FIRST: RAPID IV FLUIDS MUST BE GIVEN TO REVERSE THE SHOCK Intravenous catheters are placed and life-giving fluid solutions are rushed in to replace the blood that cannot get past the bloated stomach to return to the heart.

ALSO FIRST: THE HEART RHYTHM IS ASSESSED AND STABILIZED

There is a special very dangerous rhythm problem, called a "premature ventricular contraction" or "pvc," associated with bloat and it must be ruled out. If it is present, intravenous medications are needed to stabilize the rhythm. Since this rhythm problem may not be evident until even the next day continual EKG monitoring may be necessary.

Getting the bloated dog's stomach decompressed and reversing the shock is an adventure in itself but the work is not yet half finished.

SURGERY

All bloated dogs, once stable, should have surgery. Without surgery, the damage done inside cannot be assessed or repaired plus bloat may recur at any point, even within the next few hours and the above adventure must be repeated. Surgery allows the stomach to be tacked into normal position so that it may never again twist.

Assessment of the internal damage is also very important to recovery. If there is a section of dying tissue on the stomach wall, this must be discovered and removed or the dog will die despite the heroics described above. Also, the spleen, which is located adjacent to the stomach may twist with the stomach. The spleen may require removal, too.

After the expense and effort of the stomach decompression, it is tempting to forgo the further expense of surgery. However, consider that the next time your dog bloats, you may not be there to catch it in time and, according the study described below, without surgery there is a 24% mortality rate and a 76% chance of re-bloating at some point. The best choice is to finish the treatment that has been started and have the abdomen explored. If the stomach can be surgically tacked into place, recurrence rate drops to 6%.

RESULTS OF A STATISTICAL STUDY

In 1993, a statistical study involving 134 dogs with gastric dilatation and volvulus was conducted by the School of Veterinary Medicine in Hanover, Germany.

Out of 134 dogs that came into the hospital with this condition:

10% died or were euthanized prior to surgery (factors involved included expense of treatment, severity/advancement of disease etc.)

33 dogs were treated with decompression and no surgery. Of these dogs, 8 (24%) died or were euthanized within the next 48 hours due to poor response to treatment. (Six of these 8 had actually re-bloated).

Of the dogs that did not have surgical treatment but did survive to go home, 76% had another episode of gastric dilatation and volvulus eventually.

88 dogs were treated with both decompression and surgery. Of these dogs, 10% (9 dogs) died in surgery, 18% (16 dogs) died in the week after surgery, 71.5% (63 dogs) went home in good condition. Of the dogs that went home in good condition, 6% (4 dogs) had a second episode of bloat later in life.

In this study 66.4% of the bloated dogs were male and 33.6% were female. Most dogs were between ages 7 and 12 years old. The German Shepherd dog and the Boxer appeared to have a greater risk for bloating than did other breeds.

It is crucially important that the owners of big dogs be aware of this condition and prepared for it. Know where to take your dog during overnight or Sunday hours for emergency care. Avoid exercising your dog after a large meal. Know what to watch for. Enjoy the special friendship a large dog provides but at the same time be aware of the large dog's special needs and concerns.

As always, thanks for educating yourself to benefit Danes and their owners!

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MAGDRL web: <http://www.magdrl.org>

MAGDRL events: <http://www.lissa.net/Joya/MAGDRL.htm>

Bloat info: http://www.lissa.net/Joya/Merlot_bloat.htm

Gastropexy info: <http://www.lissa.net/Joya/Lapro-Pexy.htm>

"A dog is the only thing on earth that loves you more than he loves himself." - Josh Billings

