

Case Study *Orivet Genetic Pet Care Wellness Algorithm Helps Prevent Bloat (GDV)*

Patient Condition and History

Sassy, a five-month-old female mixed-breed puppy, underwent Breed Identification and Genetic Risk Analysis DNA testing to help identify and plan for any future health concerns she may have.

The Breed Identification DNA test revealed the Great Dane (50%) and Standard Poodle (50%) Breeds as Sassy's main ancestral breeds. Her Genetic Risk Analysis (attached) revealed an increased risk of Gastric Dilation Volvulus or Bloat, as well as several other conditions. A wellness plan was put in place to be on the look out for those.

3 weeks later, the owner reported to the Veterinarian that Sassy's litter mate Rex had developed Bloat and subsequently passed away from surgical complications - leaving his owners with an expensive Vet bill.

Sassy's owners elected to take their Veterinarian's advise as suggested in the wellness plan and performed a preventative gastropexy (anchoring the stomach to the body wall) at the time of de-sexing, greatly reducing the chance a bloat could occur in Sassy's case.

Patient Genetic Risk Analysis (see copies below)

- Breed Identification test that confirmed her genetic breed makeup
- Orivet Genetic Health Analysis Risk Report



GENETIC ANALYSIS REPORT

OWNER'S DETAILS

Erlyn A. Aragonés

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ANIMAL'S DETAILS

Registered Name: Aragonés - A38909
Pet Name: Sassy
Breed: Mixed Breed Dog
Date of Birth / Age: 22/10/15

Registration No: Pending
Microchip No: 345261679000000
Sex: Female
Colour: Black Brindle



Personal Animal Genetics

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GENETIC RISK ANALYSIS REPORT

OWNER'S DETAILS

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SASSY'S ALGORITHMIC RISK ANALYSIS OF COMMON HERITABLE DISEASES

10 MOST RELEVANT DISEASES

1. Cancer
2. Hip Dysplasia
3. Hypothyroidism
4. Progressive Retinal Atrophy, Generalised
5. Pancreatitis
6. Gastric Dilatation Volvulus (or "Bloat")
7. Cataract (Cloudiness of the eye lens)
8. Cardiomyopathy
9. Retinal Dysplasia
10. Elbow Dysplasia

OTHER LESS COMMON CONDITIONS

1. Inherited Deafness
2. Hyperadrenocorticism (Cushing's Disease)
3. Entropion
4. Von Willebrand's Disease (type I)
5. Hypoadrenocorticism (Addison's Disease)
6. Hemeralopia (PRA)
7. Subaortic Stenosis
8. Lymphoedema

Orivet Genetic Pet Care are able to DNA screen for these diseases.



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Discussion

Identifying the breed makeup and analysing data for increased risk for heritable diseases has proven very useful for Sassy. Bloat is a common condition seen in large breed dogs, particularly those with a deep chest. Although there are no genetic markers for this disease yet, there is a definite breed predisposition for both the Great Dane and the Standard Poodle (as well as other) breeds.

Bloat is a serious, life-threatening emergency that requires immediate surgical correction. Fortunately this condition is easily prevented with a simple gastropexy, which is an inexpensive procedure that can be performed at the time of de-sexing or any other routine procedure requiring a general anaesthetic.

The knowledge obtained in Sassy's report has helped communicate the risk to her owners. Unfortunately further clinical evidence came from Sassy's sibling and has prompted her owners to instruct the Veterinarian to preventative action. This in turn will help prevent a possible serious and expensive condition that may have affected Sassy later in life.

Conclusions

Using Orivet Genetic Pet Care screening and risk assessment tools was an inexpensive way to identify and manage a potential health risks for Sassy. Both owner and Veterinarian have the comfort of knowing they have done everything possible to give Sassy the best chance to live a long and healthy life.

A lifetime plan was implemented to manage risks and ensure prevention, early diagnosis and more effective management of Sassy's specific health needs.

Dr. Noam Pik BVSc, BVMS, MBA, IVAS, MACVS (Emergency and Critical Care) and Orivet's Chief Veterinarian noted, "Every pet is a truly unique individual. We provide valuable knowledge that allows tailoring of the wellness health plan to the individual - improving medical outcomes and saving owners significant costs in the long run".