

Case Study

Golden Results with MiQLab™ System

Veterinarians and technicians are consistently challenged with providing the best care for pets in the most efficient and effective way possible while minimizing costs. Adopting techniques, technologies, and methods that lower cost and improve care is paramount to all practices. At a noted accredited veterinary medical school operating an emergency clinic for surrounding communities, the following beloved companion animal presented in the middle of the night.

For more information or to book a demonstration on how your practice can benefit from this revolutionary diagnostic testing system, contact vetsales@lexagene.com.

Presenting Animal

Adult male Golden Doodle with bowel obstruction and acute peritonitis.



Presenting Symptoms

Based on clinical signs, the on-call veterinarians performed surgery to resect the infected intestines and flush bacteria from the cavity.

Course of Treatment

The patient was immediately started on a broad spectrum antimicrobial. No further testing was conducted.

During post op observations, the surgical team noted that there was still fluid building up the abdomen as well as other clinical symptoms indicating a persistent infection. There was concern that bacteria were still present and not responding to the antibiotics initially prescribed.

Due to the dog's age, the owners didn't want to have a 2nd surgery. They were receptive to taking a fluid sample and running it on **LexaGene's MiQLab™ System**.

MiQLab Solution

MiQLab was used to analyze the abdominal fluid which detected genes that yielded the *E. coli* resistant to many beta lactam drugs and potentiated sulfonamides. Given the lack of clinical response and the MiQLab results, clinicians were able to implement a new antimicrobial therapy plan that included chloramphenicol and meropenem.

A sample was also sent out for culture and sensitivity testing. Three days later, it was confirmed the MiQLab results were concordant. Because the MiQLab yielded

actionable results within just two hours it allowed the clinic to prescribe the proper antibiotic and treat the resistant bacteria.

"We were able to run the Bacterial and AMR Test on the MiQLab System which provided us with a clear understanding that not only was there bacteria present in the abdomen but also identified a strong indication that routine antibiotic therapy would be insufficient. This enabled us to quickly make critical decisions for the proper treatment."

No further surgery™ was required.

LexaGene

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About MiQLab

LexaGene's MiQLab™ System brings reference lab quality testing to the point of care enabling detection of multiple pathogens from single sample. The automated, multiplexed PCR platform provides easy to obtain results with accuracy. A one-of-a-kind technology, MiQLab detects 10 pathogens and four classes of first line antimicrobials (33 markers). It requires less than one minute of preparation time and provides results in approximately two hours.

MiQLab detects pathogens in clinical samples collected from companion animals suspected of infection in the urinary tract, skin and soft tissue, surgical site, and other primary and secondary infections while reducing unsuccessful treatment pathways by arriving at a correct diagnosis faster enabling clinicians to be better equipped to care for their patients.