



## **i-STAT® ALINITY v ANALYZER OFFERS PORTABLE, PATIENT-SIDE LAB SOLUTION FOR EMERGENCY AND ROUTINE CARE**

*Point-of-care analyzer delivers blood gas, acid-base, electrolyte, chemistry,  
and hematology measurements in a portable, handheld package*

Rapid, accurate and affordable point-of-care diagnostic instruments and tests are taking an increasingly important role in veterinary care. For advanced health monitoring and evaluation, the i-STAT® Alinity v handheld analyzer offers low-maintenance, high-quality, quantitative diagnostic testing across multiple practice scenarios.

For routine or critical care, in general practice, urgent care, and emergency hospitals, the i-STAT Alinity v delivers lab-quality,<sup>1</sup> patient-side results for 18 different parameters.<sup>2</sup> Results are obtained from just 2 to 3 drops of whole blood in 2 to 3 minutes for acid base, blood gases, electrolytes, lactate, chemistry and hematology.<sup>3</sup>

The i-STAT is indispensable for the full-service I-20 Animal Hospital in Hudson Oaks, Texas, which provides routine pet health care, as well as emergency and critical care services. Doctors and staff are on duty around-the-clock under the direction of Medical Director Sallye Gregg, DVM, who



*i-STAT® Alinity v Handheld Analyzer*

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**Sallye Gregg, DVM, Medical Director, I-20 Animal Hospital**

has used i-STAT analyzers for more than 20 years.

“In the early days of emergency medicine, we had to run individual tests for hematocrit, glucose, PCV/total solids and AZO (BUN),” observed Dr. Gregg. “When the i-STAT came out it negated the need for separate tests, and I’ve been using it ever since.”

The i-STAT Alinity v handheld analyzer enables Dr. Gregg and her team to quickly assess an animal’s stability in numerous emergency situations.

“The i-STAT quickly lets us know if we need to do additional tests,” explained Dr. Gregg. “If BUN is elevated, we can run a full panel to see what’s going on with a patient. If a dog comes in with acute

collapse, we can find out its Na:K ratio and move immediately to the proper treatment. For bloat cases with potential GDV, we can know within a couple of minutes if lactate is high and whether or not they’ll be good surgery candidates.”

The I-20 hospital staff uses the i-STAT to assess oxygen perfusion in cases of trauma or shock and to more affordably monitor an animal's hospital stay. The i-STAT is run every eight hours for electrolyte and perfusion status instead of having to run a full chemistry panel each time, allowing for real-time results that are affordable to the client.

"If we tell clients we'd like to run a \$150 blood panel to see if their dog is in trouble or has anything else going on, most will decline," noted Dr. Gregg. "But for around a \$40 cost to the client, with the i-STAT, we can quickly show them that their pet is in trouble and why more testing or treatment is needed."

At the bustling Cooper Square Veterinary Hospital in New York City, owner and veterinarian Dr. John Gagliardi, along with two part-time veterinarians, sees a variety of general health problems and chronic illnesses. The practice performs surgeries during the day, but does not provide after-hours or emergency care.

Dr. Gagliardi introduced the i-STAT into his practice in 2010 as an easy, accurate and affordable way to run blood gasses and electrolytes and to complement his other Zoetis lab products.

"We can run CBCs, chemistry panels, coagulation profiles and urinalysis, and the i-STAT is great for the critically ill patient," said Dr. Gagliardi. "Many of the uses we have for the i-STAT are for metabolic disturbances. For example, if a pet comes in having not eaten for several days with vomiting and diarrhea, we'll make use of the i-STAT."

The i-STAT helps Dr. Gagliardi and his staff quickly look at certain

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John Gagliardi, DVM, Owner,  
Cooper Square Veterinary Hospital

parameters, compare them with other results and direct treatment.

"We'll see certain lab changes associated with vomiting and diarrhea, and we'll see other parameters change with renal disease," noted Dr. Gagliardi. "Sometimes I can compare the potassium I get with the i-STAT to the in-house Zoetis VETSCAN comprehensive rotor we use. That helps me determine how we're going to supplement that animal and what kind of fluids to use."

The i-STAT came in especially handy for assessing and treating a dog that developed Fanconi Syndrome linked to contaminated jerky treats.

"The patient was here for a week receiving IV fluids and other treatments. We had to change supplements and fluid rates daily," explained Dr. Gagliardi. "The dog was so sick that we were doing daily i-STAT cartridges (tests), monitoring his calcium, acid-base status, pH and electrolytes. The only other alternatives would have been to send blood to an outside lab. Combining i-STAT testing with an in-house comprehensive chemistry panel allowed for a larger panel with immediate results, ideal for a very sick patient."

Ease of use, small blood sample requirements and rapid turnaround are key i-STAT benefits for Dr. Gagliardi and his team.

"We can even do i-STAT intraoperatively on our patients if we're seeing anesthetic complications, and we can run blood gasses and electrolytes to assess if we need to modify the anesthetic protocol," described Dr. Gagliardi. "We're using it for many GI cases and for suspected renal disease. It's great for helping us monitor and regulate these patients."

Both hospitals use mainly venous whole blood.

Dedicated to supporting its customers and their businesses, Zoetis discovers, develops, manufactures and commercializes medicines, vaccines and diagnostic products complemented by biodevices, genetic tests and a range of services. Zoetis serves veterinarians, livestock producers and people who raise and care for farm and companion animals with sales of its products in more than 100 countries.

The i-STAT Alinity v analyzer is an analytical, point-of-care device designed for veterinary use only. The i-STAT Alinity is intended for the quantitative measurement of various analytes in arterial, venous and capillary whole blood. ◆

To learn more about how Zoetis can help differentiate your practice, build and maintain relationships and improve cash flow, visit [diagnosticsmadeeasy.com](http://diagnosticsmadeeasy.com).

#### References:

1. Stotler BA, Kratz A. Analytical and Clinical Performance of the epoc Blood Analysis System. 2013;140(5):715-720.doi:10.1309/ajcp7qb3qqibzpek
2. Abaxis i-STAT Alinity v User Manual
3. Abbott Abaxis Cartridge and Test Information Sheet

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