Anutra Medical’s Anutra Local Anesthetic Delivery System

Contemporary Product Solutions shares its review of this new local anesthetic delivery system. [by Contemporary Products Solutions]

The Anutra Local Anesthetic Delivery System from Anutra Medical, Inc. (Morrisville, N.C.) transforms both the efficiency of the practitioner and the comfort of the patient. This groundbreaking system increases numbing predictability, reduces patients’ pain and radically decreases the time in which it takes a patient to reach pulpal anesthesia. These benefits, along with many others allows practitioners to start their procedures approximately 2 minutes after administering the local anesthetic without leaving their patient. Contemporary Product Solutions recently conducted an evaluation, soliciting the opinions of dental professionals after using the Anutra Local Anesthetic Delivery System. Dental professionals submitted 70 evaluations of patients aging from ages 18 to 71 years old, with an average age of 41. The sample of patients included 33 females and 30 males, with 69% of patients receiving a single injection.

Evaluation Results

The Anesthetic Delivery System

Intricately engineered for accuracy, the Anutra Local Anesthetic Delivery System leverages the science of buffering to precisely mix lidocaine with epinephrine and sodium bicarbonate. Buffered anesthetics can elevate the depth of anesthesia and increase the likelihood of patients getting numb the first time. According to research and dentist, Dr. Stanley Malamed, only 70% of patients reach pulpal anesthesia within the first 23 minutes after injection with articaine or lidocaine on an inferior alveolar nerve block. With buffered anesthetic, like that from Anutra, 70% of patients reach pulpal anesthesia in just 2 minutes and up to 95% of patients reach pulpal anesthesia in just 8 minutes. According to this research, the time for the buffered anesthetic, like that from Anutra, to take effect is 11 times faster and at least 50% more patients are as numb at 2 minutes with buffered anesthetic as they would be at 23 minutes with traditional anesthetic.

An industry-changing technology and key component of the system is the Anutra Feedback Aspiration Syringe®. This syringe is the first and only known fully-disposable, multiple dose, one-handed feedback aspiration syringe to ever be FDA approved. The syringe mirrors the current metal dental syringe in size and stroke length but follows the medical model. Practitioners using the Anutra Syringe are no event exclusive technology evangelist inside look implants benchmark double take

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ABOUT THE REVIEW

With the combination of the world’s leaders in their field, Contemporary Product Solutions’ dexterous, knowledgeable and experienced leadership team maintains a sharp eye for emerging products in the field of general and restorative dentistry by providing a “Total Office” perspective of clinical information and application, incorporating photographs and videos to assist chairside procedures for better patient results. CPS (cpsmagazine.com) will continue to evaluate one product at a time with professionalism, integrity and a commitment to excellence.

Anutra LA Delivery System

The Anutra Local Anesthetic Delivery System is a revolutionary way to simply buffer local anesthetics. With buffering, practitioners can be more productive, efficient and profitable while providing a more comfortable experience. In addition, the Anutra Feedback Aspiration Syringe is designed for multiple doses in a single syringe.

Anutra Medical
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longer confined to the 1.8 milliliters cartridges required for their current metal syringes. They can administer multiple doses from 1 to 6 milliliters in 1-milliliter increments. Clinicians can use block or infiltration anesthesia techniques with the syringe and with the buffered anesthetic making it one of the most versatile local anesthetic delivery systems to come to dentistry in recent history.

Of the patients evaluated, the block technique was performed on 23% of patients, the infiltration technique completed on 52% of patients, and both techniques were used on 9% of the patients. The clinicians reported that 68% of patients received CO2 microbubble drip anesthesia only, 4% received topical anesthesia only, and 28% received topical and CO2 microbubble drip. During their procedures, only 23% of patients required supplemental aesthetic.

Time saving efficiency
Buffered anesthetics can cross the nerve membrane more readily, reducing the time it takes for a patient to become numb. According to the 70 evaluations, the average time it took for patients to reach pulpal anesthesia after the injection was administered was 2 minutes. One patient that was evaluated had two dental procedures completed in consecutive weeks. After conventional anesthetics were delivered during his first procedure and the Anutra Local Anesthetic Delivery System used during the second, the clinician who performed the procedures reported that the numbness occurred a lot faster than the previous week. Of the clinical cases surveyed, 92% of patients reported becoming numb in 3 minutes or less.

The new Anutra Local Anesthetic Delivery System allows clinicians to mix precise doses of buffered anesthetic each and every time by twisting a knob. With fast numbing times, the clinician never has to leave the patient’s side after administering the local anesthetic. In 70% of the cases evaluated, the practitioners stayed with their patients and got to work immediately. This improved schedule efficiency, ensuring that appointments were not extended or delayed. In the cases evaluated, 64% of practitioners used less time than they had scheduled for the appointment, and 36% used the same amount of time that was scheduled for the appointment. No appointment times in this study were reported to go over the original amount of time scheduled. Those cases requiring less time saved an average of 16.7 minutes by using the Anutra Local Anesthetic Delivery System. This is approximately the amount of time required to move one patient from a hygiene appointment to a restoration in one visit without having to get behind schedule.

Patient comfort and satisfaction
Many patients fear and avoid the dentist because of the pain and stinging associated with conventional numbing techniques. With the Anutra Local Anesthetic Delivery System, the buffering solution lowers the high level of acidity typically found in local anesthetics, which can reduce the burning sensation after injection. After using this anesthetic system, the patients were asked to rank their comfort level with 1 being the most comfortable, and 10 being the least comfortable. The average comfort level was 1.81 when the clinician used Anutra to buffer their anesthetics. Many patients told the clinician evaluators that the injection was very comfortable, and several patients commented that they didn’t

Historically in the dental world faster doesn’t always mean better; however, with the Anutra buffered anesthetic system faster is better. Anutra helps our team give a better injection providing better comfort allowing us to do the best dentistry for our patients in about half the time.”
- Dr. Cappy Sinclair, Coastal Coastal Cosmetics

“...The Anutra system has saved me & my team chair time, and more importantly patients are extremely comfortable. My entire dental team appreciates how smoothly the patient appointments have flowed.”
- Dr. Tanya Brown
feel anything during the injection.
An additional benefit of buffer-
ing local anesthetics is the fact that
carbon dioxide (CO2) is formed as a
bi-product when bicarbonate (base) is
added to lidocaine HCl (acid). This in-
solution CO2, occasionally referred
to as the “micro-bubble,” has an anes-
thetic property by itself. In this study,
68% of the clinicians using the Anutra
Local Anesthetic Delivery System use
this “CO2 micro-bubble” as their
only topical anesthetic. To do this,
clinicians in our study dripped a slight
amount of buffered anesthetic on the
mucosa immediately prior to injecting.
After about 5 – 10 seconds, they con-
tinued the injection through that same
sight. Due to the anesthetic properties
of the carbon dioxide and the reduced
acidity level of buffered anesthetic as
a whole, patients on average reported
an average comfort level of 1.81 on a
scale of 1 to 10, 10 being extreme pain.

Conclusion
The Anutra Local Anesthetic Deliv-
ery System is transforming patient
experience and revolutionizing
practitioner efficiency. Using this
system, practitioners can increase
their productivity and enhance
patient comfort. With a small
footprint and ergonomic design,
the Anutra Dispenser® can be eas-
ily placed in the operatory without
having to make room for a large,
complex device. The innovative and
less intimating look of the Anutra
Syringe is optimized in diameter and
length, and its lightweight design is
simple to use. By improving patient
comfort and saving chairtime, while
simultaneously facilitating faster
local anesthesia, the Anutra Local
Anesthetic Delivery System benefits
dental professionals and patients
alike.

“The Anutra buffered anesthetic system is
an excellent option for those doctors who
want to give painless injections, as well as
obtain profound local anesthesia in half the
time. The bottom line is that this product will
make your patients more comfortable, as
well as shorten your appointment times. We
love it!”

- John Cranham, DDS