



# Buffered Anesthetic is Revolutionizing Dentistry

For over a century, clinicians have gone to mind-numbing lengths to identify a way in which to anesthetize their patients. Prior to 1884, it was not uncommon for the local barber to give a child a shot of whiskey before pulling teeth. In 1884, none other than Sigmund Freud said, "A medical breakthrough just four days old opens the eyes of ophthalmologists at a medical convention—cocaine works as a local anesthetic." Freud's eccentric perspective on the drug led surgeon Carl Koller to the realization that cocaine could block pain and numb tissue.

As you might imagine, it did not take long before the destructive and addicting properties of cocaine were discovered. So, in 1905 Alfred Einhorn synthesized procaine, which he then patented under the name Novoin (generically novocaine).

In the half century following, novocaine became the primary local anesthetic. Due to shortcomings of novocaine, Nils Löfgren, a Swedish chemist, developed xylocaine in 1943. Xylocaine, more commonly referred to as lidocaine, is still widely used today in both the medical and dental community.

Due to lidocaine's low pH, it can take a while to numb the patient and could cause some burning sensation in the process. To neutralize the acid, healthcare professionals started to add sodium bicarbonate (a neutral solution) to the lidocaine nearly half a century ago. This process is referred to as buffering. Buffered anesthetics get the patients numb extremely fast, are more reliable, and reduce the patient's pain.

Anutra Medical has made precision buffering simple through their revolutionary local anesthetic delivery system.

## The Benefits of Buffering: Efficiency & Marketing

**64%**

of appointments were at least 15 minutes shorter than scheduled.



**16.7 MINUTES**

Average time saved per appointment.

*(Average practice saves 2 hours a day)*

**1.81**

On a pain scale of 1-10, 1 being no pain and 10 being extreme pain.



**2 MINUTES**

Time it takes for patients to reach pulpal anesthesia.

*(Compared to 15 minutes)*

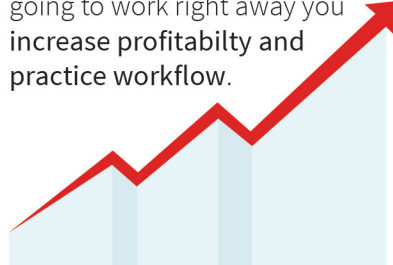
**2/3**

of practitioners use CO2 Microbubble as a topical anesthetic. Most patients report not feeling the sting of the needle.



Practitioners **never** have to leave their patients side.

By staying with your patient and going to work right away you **increase profitability and practice workflow.**



We provide a range of **marketing materials** for your practice at no extra cost.

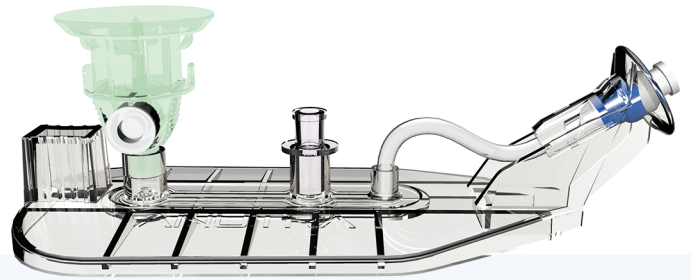
\*Independent studies by Contemporary Product Solutions & Catapult



## The Anutra Dispenser®

Revolutionizing Local Anesthetic Delivery.

The Anutra Dispenser® is a ground-breaking, local anesthetic delivery and buffering device allowing you to never leave your patient's side after administering local anesthetic.



## The Anutra Cassette®

Buffering Simplified.™

Intricately engineered for precision and accuracy, The Anutra Cassette® leverages the science of buffering to precisely mix 2% lidocaine with epinephrine 1:100,000 and 8.4% sodium bicarbonate to effectively and efficiently buffer local anesthetics.



Flexible, precision buffering



Uni-flow performance



Optimized sterile path



Long-lasting usable life



## Anutra Feedback Aspiration Syringe®

Multiple Doses. One Syringe.™

The Anutra Syringe isn't your typical dental syringe—it is extraordinary. With a revolutionary design, the Anutra Syringe enables the delivery of multiple doses of buffered or unbuffered anesthetic. The ergonomic, light-weight design is simple-to-use and easily allows one-handed aspiration. We are proud to be the first-known FDA approved one-handed feedback aspiration syringe.

5 mL  
CAPACITY

2 SIDED  
VOLUME  
LABELING



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