“I didn’t even know you gave me a shot,” Barb said as Dr. Kelly picked up his handpiece and went to work immediately. For decades, the idea of getting a dental injection has terrified patients. Quite frankly, the uncertainty, unpredictability and long onset time of local anesthetic equally terrifies the practitioner.

The Anutra Local Anesthetic Delivery System redefines local anesthetic delivery, according to the company. It radically enhances patient experience and comfort while transforming a practitioner’s efficiency, profitability — as well as the profundity and predictability of local anesthetic.

Age-old science made simple

Buffering is an age-old science that has been used in the medical community for decades. Buffering is simply taking something acidic, mixing it with something more basic to neutralize the acid. So why does this matter in dentistry? Lidocaine with epinephrine has a low pH, meaning it is extremely acidic. In fact, its pH is close to that of citric acid, which is found in limes and lemons. Could you imagine injecting lemon juice into someone’s mouth? We simply would not do that.

Much of the burning and stinging sensation comes from the fact that local anesthetic is very acidic. The Anutra Local Anesthetic Delivery System makes buffering simple. By loading an Anutra Cassette at the beginning of the week, clinicians can simply buffer anesthetic for every patient by twisting the knob on the Anutra Dispenser. It could not be easier.

Can also deliver powerful topical anesthetic effect prior to injection

What adds to the power of buffered anesthetic is a topical effect that is a result of a CO2 microbubble that is formed when local anesthetic is mixed with sodium bicarbonate. Many practitioners report dropping a small amount on the mucosa prior to injecting for a very powerful topical anesthetic.

Not only is patient comfort increased with buffered anesthetic, a practitioner’s efficiency is dramatically optimized. Since buffered anesthetic is raised to physiologic pH, the anesthetic crosses the nerve membrane more readily, meaning a patient can reach pulpal anesthesia in as little as two minutes, even with blocks. Additionally, anywhere from 4,000–6,000 times the active molecules of anesthetic will cross the nerve membrane, making it more profound than normal lidocaine as well as increasing the predictability that a patient will get numb the first time, even on those hard-to-numb patients.

Disposable, multidose, one-handed

Not only does the Anutra Local Anesthetic Delivery System provide a simple platform for you to buffer in your practice, it also introduces the first-known, FDA-approved, multidose, one-handed aspiration syringe that is fully disposable.

So what does that mean? It means that you can hold up to 6 mL of anesthetic in one single syringe. There is no need to reload cartridges; one syringe can hold the equivalent of at least three traditional 1.8 mL dental cartridges.

According to the company, with its affordable cost, revolutionary new syringe, simple dosing system and long shelf-life, the Anutra Local Anesthetic is a no-brainer for every dental practice.
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Upper, lower dentures on Rhein83 components

By Marco De Angelis, DDS,
and Luigi Ciccarelli, dental technician

This clinical case illustrates in a schematic way some of the stages involved in the realization of an upper and lower overdenture on eight implants: four implants on the upper jaw and four on the lower (Fig. 1). This solution will provide greater stability to the prosthesis during the phonation and chewing functions. This enables the patient to feel safe, comfortable and confident with the prosthesis while in social situations. This technique uses the spherical attachments that enable the clinician to reduce the final costs when compared with a solution using a bar.

The fact that the prosthesis will be retained by implants does not lessen the need that the prosthesis achieve all of the other requirements of a traditional prosthesis: It must have an appropriate extension of the edges, a correct vertical dimension, a repeatable centric relationship and a correct assembly of the teeth. The prosthesis thus conceived will not have only an implant support but it also will have a mucous support.

In the presence of reduced vertical dimensions and a high number of implants, it is preferred to use of a superstructure of cobalt chromium that will prevent any breakage in correspondence of the metal housings containing the retentive caps.

The clinician, before fixing the retentive caps (Fig. 2), will check the insertion paths of the prosthesis to eliminate residual areas of compressions with a special paste and the centric contacts. The fixing of the retentive caps with liquid resin will be facilitated by the use of protective disks that prevent the resin from invading the undercuts of the attachments, allowing an easy removal of the prosthesis once cured. After the curing, the excess of resin will be finished with a bur.

Before the final delivery, the patient will be instructed on how to properly store and clean the prosthesis and implants. The prosthesis in situ received clear satisfaction from the patient. Thanks is due to Vincenzo Liberati of Lab DentaLine for the construction of the superstructure (Fig. 3).

For more information, you can visit www.marketing@rhein83.it.

Read more online
The full version of this article — in English as well as in its original Italian (“Protesi superiore e inferiore su componentistica Rhein83”) — can be found on the Dental Tribune International website at www.dental-tribune.com.
The Futar® brand family of bite-registration materials is being sold to the U.S. market by Kettenbach LP. The products include Futar Fast, Futar D, Futar D Fast, Futar D Slow and Futar Scan.

Now, with six times the choice, Futar bite-registration materials enable practitioners to choose the appropriate material to fit their particular needs. Whether a practitioner is looking for high final hardness, comfortable working times or a “scannable” material, the Futar line has it all, according to the company.

Futar, the original bite registration from Kettenbach, has been a high-demand product for years. The company describes the materials as being “highly acclaimed” and note that the materials have earned recognition from several third-party evaluators in the U.S. as well as globally. The company asserts that the brand represents the market’s most popularly used bite registration material.

According to the company, Futar can be conveniently milled and easily cut with a scalpel. Excess material can be easily broken off, and the correct occlusal position can be checked in the mouth, the company asserts. The upper and lower jaw models can be precisely assigned. The working time is 15 seconds with an intraoral setting time of 45 seconds. And because it sets firm, vertical dimension accuracy is assured, according to the company.

About Kettenbach
Kettenbach, based in Huntington Beach, Calif., is the exclusive U.S. distributor for Kettenbach GmbH & Co. KG (Eschenburg, Germany). Founded by August Kettenbach in 1944, Kettenbach GmbH was created for the development and marketing of medical and dental products. Today, the company is one of the leading international producers of dental impression materials and is also known in other surgical areas of medicine. The company’s brands include Panasil VPS Impression Material, Identium VSXE Impression Material, Futar Bite Material, Silginat Alternative Alginate, Visalys Temp Material, Mucopren Resilient Liner and Visalys Veneers.

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AD

Futar bite-registration materials, available in six variations, enable practitioners to choose the appropriate material to fit their particular needs. Photo/Provided by Kettenbach

For more details about the annual session and registration information you can visit www.aadomconference.com.

(Source: AADOM)