

JEFFREY E. FELLNER DDS
DUSTIN PUTNAM, DMD
RONALD K. SHELLEY DMD MAGD



Arrowhead Lakes Dentistry Newsletter

In This Issue

[Onset - Local Anesthetic Buffering Technology](#)

Quick Links

[Visit Our Website](#)

[Send us email](#)

Call Us at 623-362-9616

Join Our List

[Join Our Mailing List!](#)

September /2010

In survey after survey, most people mention the discomfort of "the shot" as one of the main reasons for avoiding or postponing dental care. Determined to make dentistry as comfortable as possible, we always seek any means to improve the dental visit. We now have a major improvement.

Why Does The Shot Hurt?

The numbing gel (topical anesthetic) that is rubbed on the gum surface before injection does a good job of removing the needle stick pain. But the anesthetic solution stings when introduced into the body. The stinging is due to the acid pH of the numbing solution. The solution has to be acidic to be chemically stable in manufacture, transportation, and administration. Then the body transforms the acid solution to pH neutral state by the body's own natural sodium bicarbonate buffering system. The solution diffuses into the nerve and sensation shuts down. That is why it takes a few minutes for the anesthetic to take full effect.

Stopping The Sting!

We now stop the sting by mixing in sodium bicarbonate, the body's own natural buffering system, into the numbing solution before the injection using the new Onset Technology by Onpharma. This revolutionary system is very new and available only in very few offices. Arrowhead Lakes Dentistry, which is always on the cutting edge of dental innovation, in one of these offices. The benefits for you are:

- Little or no stinging upon injection!
- Quick onset time -- little or no waiting for effectiveness!
- More profound anesthesia! (This is not a claim of Onpharma; but our patients are reporting this effect to us on a regular basis).

How Does It Work!

If you are not into chemistry, you can skip this paragraph. The anesthetic solution has a pH about the same as lemon juice. Seconds before use, a precise amount of 8.4%

sodium bicarbonate solution is mixed with the local anesthetic, changing the acidic anesthetic solution of pH 3.85 to a neutral solution pH of 7.31. Once mixed, the buffered solution must be used within a few minutes or else the bicarbonate will separate into water and carbon dioxide (just like a soft drink that has lost its fizz, the carbon dioxide will evaporate away). But when injected timely into the tissues, there will be no burning sensation since the pH is the same as body fluids. Without pre-mixing the anesthetic solution, the body has to neutralize the solution before it can cross the nerve membrane. With the buffered anesthetic solution, it is ready to immediately cross the membrane and start the numbing the nerve. Therefore the nerve can become anesthetized faster.

Arrowhead Lakes Dentistry will continue its quest to provide the finest dental care as comfortable as possible. If you have any further questions about the Onset system or any other dental concerns, please visit our [website](#) or give our office a call at 623-362-9616. We would love to answer any questions.

We wish you good health,
Sincerely,

Ronald Shelley DMD
Arrowhead Lakes Dentistry PC

[Forward email](#)

 **SafeUnsubscribe®**

This email was sent to ronald.shelley@gmail.com by aldentistry@gmail.com.
[Update Profile/Email Address](#) | Instant removal with [SafeUnsubscribe™](#) | [Privacy Policy](#).

Email Marketing by



Arrowhead Lakes Dentistry PC | 20265 N 59th Avenue, Suite B5 | Glendale | AZ | 85308