

Explanation of PiezoWave2 – MyACT (Myofascial Acoustic Compression Therapy)

PiezoWave2 – MyACT is Acoustic Compression Therapy which uses sound waves to REMODEL TISSUE AT THE CELLULAR LEVEL by addressing a large variety of conditions including, scar tissue, calcification, tendinopathy, bursitis, capsulations and so much more.

PiezoWave2 technology is based off the same conceptual technology as lithotripsy to break up kidney stones just with lower, more pinpoint energy. A good way to explain it to your patients is to think of a submarine at the bottom of the ocean, they cannot see in front of them so they send out sonar waves (sound waves) to find anything that may be in front of the submarine and when it finds something it sends a signal back to the sub. This is the same idea or concept with MyACT.

The patient does not feel anything during treatments when you are over healthy or hydrated tissue. The patient will feel a dull aching feeling when you pass over any compromised tissue, making it easy to know that you are on the correct location so you can address the soft tissue injury directly.

One of many unique things about the PiezoWave2 is that you get biomechanical feedback from the patient while doing the treatment so you know you have located the correct spot. When you find the compromised tissue the patient feels a dull aching feeling almost like a toothache or pushing on a bruise.

At this point you ask the patient, “On a scale of 1 -10 what is your pain level?” You want the patient to be around 5,6, or 7. If the patient feels 8, 9, or 10 (unless they can tolerate it) you would move off the injury site and come back in 30 seconds for the nerve’s signals to relax. After you get the patient to a 5, 6, or 7 you will deliver several pulses until the patient starts to feel the dull aching feeling diminishing down to a 1 or 2 and this will happen in about 30 to 45 seconds.

The difference between the therapy sources are:

1. The Pinpoint (F7G3) is exactly that pinpoint and has 250 piezo crystals in one layer and is ideal for most treatments- especially insertion points and precise treatments.
2. The Linear (FBL) therapy source covers more surface area linear wise and had 450 piezo crystal in two layers giving more energy output to cover the larger treatment area. Linear is ideal for larger muscle groups such as quads, hamstrings, etc. Some of our sports teams use the linear to wand the area to increase blood flow for pre and post workouts.

With the PiezoWave there are two adjustments on the control unit for frequency of pulses per second ranging from 1 - 8 pulses per second and the other is the intensity level from (0.1 up to 18). Most people do not get above 10, so there is more than enough energy output and pulses per second with the PiezoWave. Most treatments are around 8-10 mins averaging 1,000 – 2,500 pulses.