
SIGMA
INSTRUMENTS
The Ultralign
A New Approach to
Patient Care
Tradition and
Technology
Precise and
Preferred
The Ultralign
Advanced Software
Solutions

The Ultralign

A BREAKTHROUGH IN HEALING

Imagine 30 to 40 years ago, if we told you that dentistry would be painless, that doctors would perform surgeries watching a television monitor, that fetuses could be operated on within the uterus, and that knife-less surgery could be performed, would you believe it? By the same token, would you believe us if we told you that mobility treatments and reorientation of the nervous system could be done comfortably while you were in a comfortable position without any sudden movements? Would you believe, that newborns as well as the elderly with osteoporosis can be treated safely and gently?

Advances in computers and engineering technologies have now been uniquely blended in order to both analyze and treat the human body in such a way that has never been realized.

The potential for the human being to reduce pain, restore mobility, and achieve improved nervous system function has never been greater. Humans are consistently asking their bodies to perform at higher levels. Now we have the techniques and the technology to match the demand placed on the body. We now have the capability to enhance every aspect of our lives.

You can achieve improved health for your body now and in the future beginning with a simple anatomical concept. The nervous system (the brain and all the nerves) controls every function of your body. If this network is interfered with, pain can ensue, as does your bodily malfunction, often resulting in sickness and diminished overall health. The “something” you can do to improve performance and your health is to maximize the health of your nervous system. There are several ways to do this. The number one way is allowing your doctor to utilize the Ultralign System to analyze and treat your body.

How can it be so gentle and comfortable?

The Ultralign utilizes a precise oscillating force with uninterrupted motion. It is able to increase the mobility by reducing fixation or enabling motion in abnormal areas. The Ultralign uses soft tips that are comfortable to the human body and result in a positive change to the health of the joint or tissue.

Tradition and Technology

Following examination, the practitioner will determine the appropriate treatment to be applied. The Ultralign instrument measures the stiffness of the tissue or joint by applying a light mechanical force in the form of an instantaneous shock wave. The testing force occurs so fast that it reduces the normal defense mechanism or guarding response, caused by typical palpation. It is comfortable and precise, and occurs faster than the muscles can contract in response to the test.

Have you ever flinched at something? You know exactly what is meant by this. The piezoelectric sensor in the Ultralign instrument responds and registers faster than your body's ability to react. Therefore, a precise and accurate measurement is achieved.

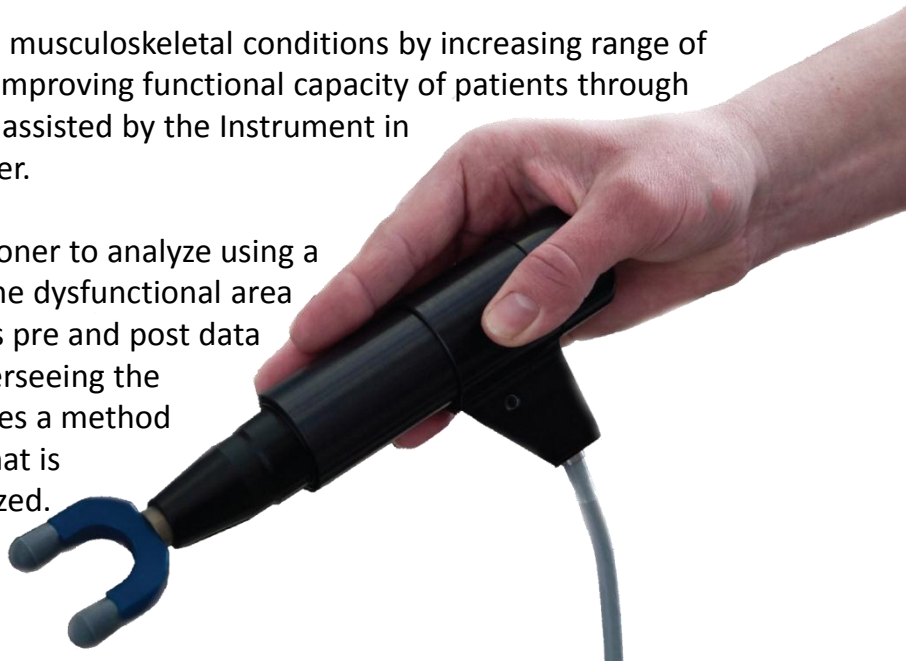
A light Force is introduced to check motion and oscillating frequency; it is then reflected back to the piezoelectric sensor, which measures these reflective statistics, sending it to the computer for interpretation, all before the muscle can respond. This is the same sensing technology that the aviation industry and engineers have used in order to test metal fatigue in aircraft and bridge spans.

Practitioners are now able to use this highly sophisticated technology applied to the human body to analyze joints and tissue with increased precision and confidence.

The Ultralign utilizes an accelerated mass in the head to gently percuss the problem area, giving the practitioner vital information about the motion dynamics and resonant frequency of the joint or tissue.

This allows the doctor to manage musculoskeletal conditions by increasing range of motion, eliminating fixation and improving functional capacity of patients through specific manipulative techniques assisted by the Instrument in a precise and reproducible manner.

The Ultralign enables the practitioner to analyze using a sophisticated instrument, treat the dysfunctional area and then reanalyze. This provides pre and post data which is very beneficial while overseeing the patient's course of care. It provides a method to track treatment progression that is objective, precise and computerized.



Precise and **Preferred**.

1. Soft tissue conditions such as trigger points respond well to the percussion forces of the Ultralign unit. The forces are delivered in a sub-harmonic, metered, precise nature to create oscillation and enhance range of motion.

2. Neurologically, the Ultralign takes advantage of the interplay of the type 1, 2, and 3 mechanoreceptors with the type 4 nociceptors creating an inhibition of pain, increasing neuroactivity and restoration of normal nervous system tone.

3. The Ultralign is very comfortable for patients of all ages due to the fact that there is no application of manual rotation or thrusting forces.

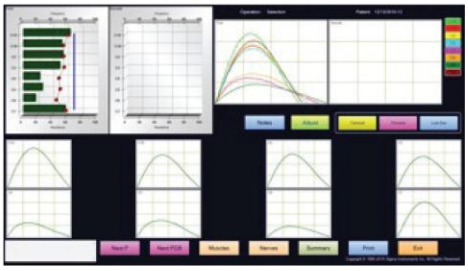
4. The patient is treated in a comfortable way without the need to turn or hyperextend parts of the body, head or neck. Thus this greatly reduces any issues associated with osteoporosis, vertebral artery conditions or other concerns that more aggressive techniques might not address.

The Ultralign
Advanced Software Solutions

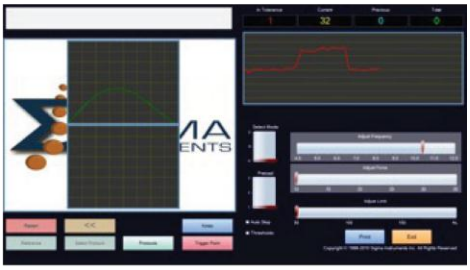
This system helps ensure a functional outcome of a prescribed, written treatment plan. The Ultralign also lets the doctor know when procedures are not needed on a particular visit. There are objective and specialized reasoning and data points to analyze. It is important for patients to feel confident that there is an end to this therapy and that we can chart the progress using the sine wave analysis.

Sine wave analysis measures joint, muscle and tissue function through four aspects. The amplitude indicates resistance of fixation. The apex comments on the relative mobility and ligament hysteresis. The length of the wave indicates the resonant frequency of the area in cycles per second, or hertz. The smoothness of the wave would represent the smooth articular gliding of the area when testing joints.

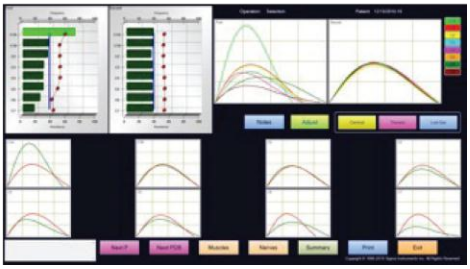
Easy to read graphics
Scientific interpretation
Pre /post scans for documentation and education



Effective visuals
Smooth communication about patient care

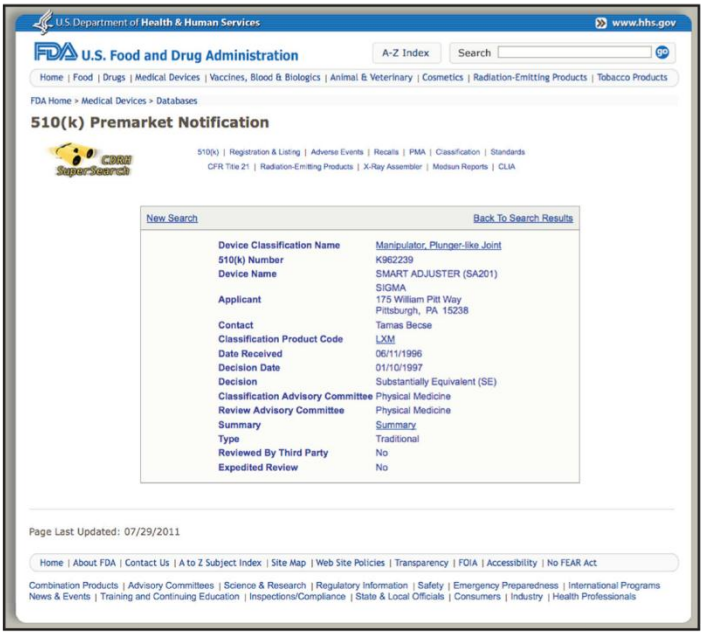


Proven techniques
Easy to learn
Standardized care



Precise, Effective, Gentle, and FDA Cleared.

CE 13485 Certified



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CFR Title 21 | Radiation-Emitting Products | X-Ray Assembler | Medsun Reports | CLIA

New Search — Back To Search Results

Device Classification Name	Manipulator, Plunger-like Joint
510(k) Number	K962239
Device Name	SMART ADJUSTER (SA201)
Applicant	SIGMA 175 William Pitt Way Pittsburgh, PA 15238
Contact	Tamas Becse
Classification Product Code	LXM
Date Received	06/11/1996
Decision Date	01/10/1997
Decision	Substantially Equivalent (SE)
Classification Advisory Committee	Physical Medicine
Review Advisory Committee	Physical Medicine
Summary	Summary
Type	Traditional
Reviewed By Third Party	No
Expedited Review	No

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