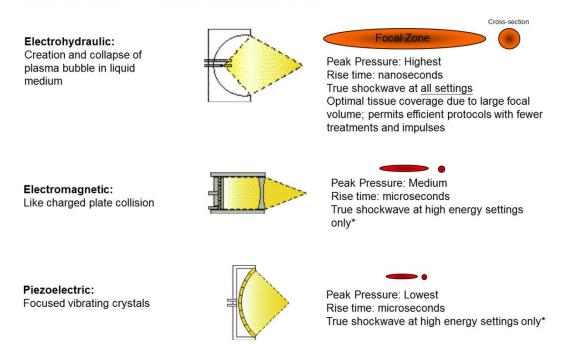
LiSWT Treatment of Erectile Dysfunction

You've heard of shockwave treatment of erectile dysfunction, and you may have heard of LiSWT, but just exactly what is it. LiSWT stands for Low intensity Shock Wave Therapy or by some accounts Linear Shock Wave Therapy. Other names include Low Energy Shock Wave therapy (LESWT), Ewave therapy, or Energy Wave Therapy. Just what are shock waves and how can they treat Erectile Dysfunction (ED)? A shockwave is a positive pressure wave which has a very short rise time and is followed by a short negative pressure wave. The high pressure positive wave can be focused to release energy at a specific location. In the medical field shockwaves were first used, and are still used, to treat kidney stones. This use of shockwaves is meant to release very high intensity energy amounts at a small focal point. Originally the energy source was from a large spark plug through which thousands of volts were passed generating very high intensity shock waves which were focused at a single point. This source was called the electrohydraulic method. This was followed by an electromagnetic source and finally by a source which used Piezoelectric crystals to generate the shock waves.

Shock Wave Production Methods



^{*} Cleveland RO, Chitnis PV, McClure SR. Acoustic Field of a Ballistic Shock Wave Therapy Device. Ultrasound in Med & Biol. 2007;33:1327-35.

As you can see regardless of the source, the intention was to generate high intensity shockwaves focused on a small area to release a high amount of energy at the focal point. Later it was discovered that shock waves could be used at much lower energy levels, and if they were de-focused, a whole host of different biologic effects were noted. It was soon determined that low energy shock waves could be used to treat non healing bone fractures, tendonitis, heel spurs, non-healing wounds and recently erectile dysfunction. In virtually all of these other uses the basic biologic mechanism of action appears to be that the shock waves allow the body to release vascular growth factors which result in the formation of new blood vessels and tissue healing. Recently low intensity shockwaves have also been used to treat ED. Low intensity

shockwave therapy is being used in both focused and unfocused modes in many countries around the globe. In addition 2 machines which use unfocused shockwaves have been designed to produce linear focal zones to cover treatment areas more uniformly resulting in higher treatment success rates. No machines designed to produce low intensity shock waves to treat erectile dysfunction have been approved for this use in the United States of America. As Urologists, we have been using shockwaves to treat medical illnesses for greater than 30 years. Two years ago I acquired a machine designed to treat other problems which with appropriate mechanical offsets will produce a linear shockwave pattern that can be used to treat ED. This use is considered off label use of this machine. Off label use, simply means that the physician is solely responsible for this use of this technology, and that it has **NOT** been officially approved in the US. I can state that currently medical studies are in progress in the United States and I believe that this treatment will be approved in the US in the not too distant future. I can also state that the technique I am using is virtually identical to that used in Europe with great success.

What does this mean for you?

You will be asked to print several questionnaires which are used to determine just how severe your condition is. It is critical that you answer the questions as accurately as you can. Try NOT to underestimate or overestimate your problem. Although there are tests we can use to objectively determine just how well your penis works, they are painful, invasive, or both. Hence I use the subjective evaluation method with medically

validated questionnaires. The number of shockwaves administered is based on the results of these questions and your concomitant medical problems (if any exist). You will also be asked to answer the same questions after you have completed your treatments. The Historical standard treatment protocol throughout the world, and used in almost all published accounts, has been 4,000 shockwaves delivered per treatment, once per week, for 4 treatments. In recent years (this area is a "hot" area of research and changes rapidly) this has been expanded to 2 additional treatment sessions, in selected patients. In addition one physician, Dr. Motil, who uses the almost identical technology I use, (and has among the largest experience in the world with this technology), has published a nomogram outlining his recommendations concerning the optimal number of shocks which should be delivered per session. The number of shocks delivered to you the recipient, will be calculated by me after all the information is obtained and processed through the available algorithm. The options are discussed with you. The number of shockwaves delivered per session is important because, not only may it change the outcome, but the charges for the treatment are determined by the number of shockwaves used.

What is required of you?

- You will be asked to fill out the questionnaires to the best of your ability.
- You will undergo a basic medical history and physical by me.
- You will discuss with me the chance of your success with these treatments and any risks involved.
- You will be given a charge estimate of what the 4 treatment package will cost,
 based on the protocol as recommended by the Motil algorithm. All agreed to

- charges must be received and processed as paid by the company who leases the machine to me before the treatment package can be started.
- You will be asked to sign a release and disclaimer form stating that you have been informed that this is an off-label treatment and results can NOT be guaranteed. In addition, you will be confirming that as an off-label treatment you will NOT try to file for any insurance reimbursement as doing so might be considered insurance fraud which could be punishable by fines or imprisonment.
- You will be requested to agree to fill out the questionnaires post treatment.
- You will agree to your treatment dates and times.

Please if you decide to "shop around" for this form of therapy, that there are persons performing what they call shockwave therapy using machines which have never been properly tested. Ask this question, "Do I need pretreatment with a numbing cream?" If the answer is yes this is NOT a true shockwave device. True LiSWT does NOT hurt and does not require pretreatment with numbing medications or creams!

Demographic Information
Name: First MI Last Suffix
Address: Street City State Zip
DOB: (MM/DD/YYYY) SSN
Home Phone Number Cell Phone Number
Email Address
Did someone refer you to us for this treatment? Yes No Who
Basic Medical Information
Drug Allergies
Height Weight
Do you smoke? Yes No
Do You use oral chewing tobacco? Yes No
How long have you had this problem? Years Months
Have you been treated with oral medications for this problem? Yes No
Are you currently using this medication to help with your erections?
Yes No
Do you have any hormonal, Neurologic or psychologic problems? Yes No
Do you have any of the following problems?
High blood Pressure Yes No
Cholesterol or triglyceride problems Yes No
Coronary heart disease Yes No
Diabetes Yes No

EXCLUSION CRITERIA

These exclusion criteria were used in almost every clinical trial of this technology. For the trials they were absolute (If you had any of these you would NOT be treated), At this time, they are relative exclusions and men these problems are being treated worldwide. These must be discussed with your physician.

Have you had prostate cancer surgery or any other extensive pelvic surgery? Yes No

Have you had ANY cancer in the past year? Yes No

Do you have any unstable medical, psychological, spinal cord injury problems, or penile anatomic problems? Yes No

Do you have any clinically significant chronic hematologic disease? Yes No

Do you take Anti-Androgen Medications Yes No

Have you had any radiation therapy treatments to the pelvic region? Yes No

Do you take any blood thinners? Yes No

Do you have any other significant medical history I should be informed of?

Erectile Function Questions:

It is very important that you attempt to ansewer the following questions very accurately. Please do not try to overestimate or underestimate your condition. Circle your ansewers on the chart below.

The International Index of Erectile Function (IIEF-5) Questionnaire

The International Index of Erectile Function (IIEF-5) Questionnaire

Over the past 6 months:					
How do you rate your confidence that you could get and keep an erection?	Very low 1	Low 2	Moderate 3	High 4	Very high 5
2. When you had erections with sexual stimulation, how often were your erections hard enough for penetration?	Almost never/never 1	A few times (much less than half the time) 2	Sometimes (about half the time) 3	Most times (much more than half the time) 4	Almost always/always 5
3. During sexual intercourse, how often were you able to maintain your erection after you had penetrated (entered) your partner?	Almost never/never 1	A few times (much less than half the time) 2	Sometimes (about half the time) 3	Most times (much more than half the time)4	Almost always/always 5
4. During sexual intercourse, how difficult was it to maintain your erection to completion of intercourse?	Extremely difficult 1	Very difficult 2	Difficult 3	Slightly difficult 4	Not difficult 5
5. When you attempted sexual intercourse, how often was it satisfactory for you?	Almost never/never 1	A few times (much less than half the time) 2	Sometimes (about half the time) 3	Most times (much more than half the time) 4	Almost always/always 5

Erection hardness score:

My Score from the Choices below is _____

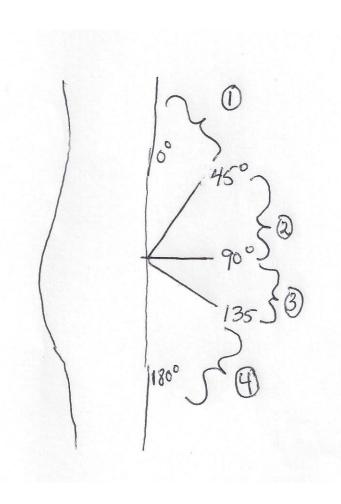
Score 0 - Penis does not enlarge.

Score 1 -Penis is larger, but not hard.

Score 2 -Penis is hard, but not hard enough for penetration.

Score 3 -Penis is hard enough for penetration, but not completely hard.

Score 4 –Penis is completely hard and fully rigid.



From the Diagram above please pick the score (circled number) that best illustrates the angle of your usual erection.

My Score is _____

How often do you awaken in the morning with an erection?

1. Never 2. Sometimes 3. About half the time 4. Often 5. Almost every day

My score	is
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WHAT NOW?

Now that I answered all these very personal questions what does this mean to me and what can I expect?

Your answers to these questions will be recorded into an electronic medical record and scored. You will complete a brief physical exam and you will than review all these findings with your doctor.

If you elect to go forward with treatment:

- You will be asked to sign the release of liability and disclaimer form.
- You will be asked to pay for the first 4 treatment sessions and your appointments will be scheduled. Your treatments will NOT be started until your doctor's office has been informed of receipt and processing of payment.

How likely is this treatment going to be successful and is it painful?

Do you remember the IIEF-5 Questionnaire you just filled out? Those questions are scored as follows:

IIEF-5 scoring:

The IIEF-5 score is the sum of the ordinal responses to the 5 items.

22-25: No erectile dysfunction

17-21: Mild erectile dysfunction

12-16: Mild to moderate erectile dysfunction

8-11: Moderate erectile dysfunction

5-7: Severe erectile dysfunction

Reprinted by permission from Macmillan Publishers Ltd: Rosen RC, Cappelleri JC, Smith MD, et al. Development and evaluation of an abridged, 5-item version of the International Index of Erectile Function (IIEF-5) as a diagnostic tool for erectile dysfunction. Int J Impot Res. 1999 Dec;11(6):319-26. © 1999

Statistically speaking scores of 5-8 must improve by 7 points or more, scores of 9-14 must improve by 5 points or more and scores of 15-21 need only to improve by 2 points or more to be considered a statistical success. But who cares about statistics, you want to know if you will be happy with the treatment and you will consider it a success. Based on available medical literature and personal discussions with physicians providing this treatment it appears as if approximately 80% of patients were statistically improved. In Addition approximately 77% of these men said they were satisfied or very satisfied with their treatment results and just over 80% of these men said they would recommend the treatment to others. This treatment has been VERY successful worldwide. Indeed even 50% men with very severe erectile dysfunction who do not respond to medications have reported converting to men who do respond to medications! NO man reported any pain with this treatment.

How much does it cost?

The treatment sessions are scheduled as a block of 4 treatments at 2 treatments per week with the possibility of two additional treatments. The total number of shockwaves delivered determines the cost of the procedure. The Motil algorithm will be used to determine the optimal number of shockwaves per treatment you should receive. 4 treatments of 4,000 shockwaves per treatment would equate to 16,000 total shockwaves for the 4 treatment block. The cost of this 4 treatment block would be \$1,600. If you were to receive 6,000 shockwaves per treatment the cost for the 4 treatment block would be \$2,400. Any payment must be remitted to Patient Direct Healthcare, LLC. When Patient Direct Healthcare LLC confirms the appropriate payment to Dr. Mosca your treatments can begin. If you elect 2 Additional treatments you will once again have to make payments to Patient Direct Healthcare LLC before those 2 treatments can begin.

Charge Estimate for LiSWT (Energy Wave Therapy) treatments delivered by Dr. Mosca

By using the Motil Algorithm it is estimated that treatment session for 4 treatment sessions.	t I would do bes	st with	_ shockwaves per
My charge would be \$			
I agree to pay to PatientDirect Healthcare LLC	\$		
PATIENT SIGNATURE	DATE	TIME	

AUTHORIZATION AND CONSENT FOR OFF LABEL MEDICAL TREATMENT

PLEASE READ THE FOLLOWI	NG INFORMATION	CAREFULLY.	IF YOU	HAVE ANY	QUESTIONS
REGARDING THE INFORMATIO	N, ASK FOR FURTI	HER EXPLANAT	ION.		

REGARDING THE INFORMATION, ASK FOR FURTHER EXPLANATION.
I,
The treatment will be provided by, Your Doctor, the "administering physician", at His/Her office or other agreed to location. I understand that other appropriate personnel may be involved in the treatment.
I understand that the device to be utilized in providing the treatment has been listed with the United States Food and Drug Administration ("FDA") with an intended use as a therapeutic massager and that utilization of the device for treatment of erectile dysfunction may be considered an "off-label" use.
I acknowledge that the administering physician has explained to me, given me an opportunity to ask and satisfactorily answered questions regarding the: device use; the manner of treatment, its purpose and nature, and its reasonably foreseeable risks; and alternatives treatments for erectile dysfunction.
I understand that the reasonably foreseeable risks of the treatment include reddened skin, soreness at the treatment site and failure to improve erectile dysfunction. Additionally, I acknowledge that the administering physician has explained to me, and I understand, that there may be risks which are unexpected or not reasonably known and that the long-term effects of the treatment are not known.
I understand the reasonable alternatives to the treatment (which include penile injections, urethral suppositories, vacuum erection devices, pharmaceutical treatment, and/or implantable penile prosthesis), possible consequences of remaining untreated, and the risks and possible complications of each alternative.

I understand that the practice of medicine is not an exact science, that it may involve medical judgments based on the facts known to the physician at the time, and that it is not reasonable to expect the physician to be able to anticipate or explain all possible risks and complications. I understand that an undesirable result does not necessarily

indicate an error in judgment, and that no guarantee as to the results has been made to, or relied upon by, me.

I understand that I have the right to refuse to receive the treatment.

I understand that a portion of the Energy Wave treatment fee will be paid to Patient Direct Healthcare, LLC and/or affiliates to compensate them for management services, equipment rental and/or technician services provided by them.

I understand that I will be asked to complete	e post treatment questionnaire.	While this is NOT	required by 1	me doing
so may help Dr. Mosca's treatment of other	patients in the future.			

In full agreement with and understanding of all of the above statements, I request the administering physician to provide energy wave therapy erectile dysfunction treatment to me utilizing a device that may be considered off-label when utilized for treatment of erectile dysfunction

ADMINISTERING PHYSICIAN'S DECLARATION

I have explained to the patient/patient's representative the energy wave therapy erectile dysfunction treatment with a device that may be considered off-label when utilized for treatment of erectile dysfunction and the risks, benefits, recuperation and alternatives (including the likely consequences if no treatment is pursued). I have answered all of the patient's questions and to the best of my knowledge, I believe the patient has been adequately informed.

PHYSICIAN SIGNATURE	DATE TIME	
PRINTED NAME		

PATIENT'S CONSENT AND RELEASE

I HEREBY CONSENT TO ENERGY WAVE TREATMENT FOR ERECTILE DYSFUNCTION WITH A DEVICE THAT MAY BE CONSIDERED OFF-LABEL WHEN UTILIZED FOR TREATMENT OF ERECTILE DYSFUNCTION AND ACCEPT ALL THE RISKS INHERENT IN IT. I HAVE READ AND FULLY UNDERSTAND THIS CONSENT FORM. I UNDERSTAND I SHOULD NOT SIGN THIS FORM IF ALL ITEMS, INCLUDING MY QUESTIONS, HAVE NOT BEEN EXPLAINED OR ANSWERED TO MY SATISFACTION, OR IF I DO NOT UNDERSTAND ANY OF THE TERMS OR WORDS CONTAINED IN THIS CONSENT FORM. I UNDERSTAND THAT I CAN WITHDRAW THIS CONSENT AT ANY TIME BEFORE THE BEGINNING OF THE TREATMENT. IF YOU UNDERSTAND AND AGREE WITH THE INFORMATION IN EACH PARAGRAPH ABOVE, PLEASE PLACE YOUR SIGNATURE BELOW.

DO NOT SIGN UNLESS YOU HAVE READ AND THOROUGHLY UNDERSTAND THIS FORM.

PATIENT SIGNATURE	DATE	TIME
_ PRINTED NAME		
WITNESS TO PATIENT SIGNATURE	DATE	TIME
PRINTED NAME		