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Innovative Acoustic Wave Device Enhances ED Treatment

The *Z Wave* system (Zimmer MedizinSystems, Irvine, California) is a favored tool among physicians, known for its versatility in various aesthetic treatments. It also offers a promising alternative for erectile dysfunction (ED) treatments, employing low-intensity acoustic waves to stimulate neovascularization in the penis, improving blood circulation. This non-invasive approach to ED treatment stands out as it does not depend on traditional methods like pharmaceuticals, vacuum pumps, intraurethral medications, penile injections, or implants.

Z Wave's pain-free, no downtime solution is an important adjunct for successful ED therapies, expressed Judson Brandeis, M.D., a urologist, surgeon, medical researcher and physician educator in San Ramon, Calif. “*Z Wave* is a good choice regarding ED versus other choices for sexual medicine. After practicing general urology for around 17 years, I became very interested in regenerative urology. That led me to the use of low-intensity shockwave therapy, as well as some other modalities, to improve erectile dysfunction in men who had lost the ability to generate enough blood pressure in the penis to get a full erection. *Z Wave*'s technology improves local blood circulation, which addresses ED.”

ED is not merely a physical condition; it encompasses emotional and psychological dimensions that significantly affect a person's mental well-being, self-esteem, and confidence. Research has shown that men with ED often experience a range of psychological effects, including feelings of shame, guilt, and frustration. These emotional responses can stem from the perceived loss of masculinity or fear of sexual failure, affecting both the individual and their partner. The psychological impact of ED can be profound, leading to decreased quality of life and relationship strain.

In recent years, more effective approaches and technologies, such as *Z Wave*, as well as the use of platelet-rich plasma (PRP), and other treatment types have supplanted older approaches to ED, such as using pills. “If you take pills, the effects of those pills are gone in a day or two,” he said. “What you want to do is encourage the formation of new blood vessels. And so that’s what *Z Wave* does. The device uses radial pressure waves that trick the body into creating an acute inflammatory response, which results in the growth of new blood vessels. The results are semi-permanent because as we age every day, we decay. But this is a proven method of improving blood flow to the penis, and it is synergistic with a nitric oxide booster and other therapies.”



Judson Brandeis, M.D.

Dr. Brandeis has used *Z Wave* for over five years and treated hundreds of patients. “A typical patient is a man over 50 with some degree of erectile function, as well as some comorbidity, whether it’s Type 2 diabetes, hypertension, heart disease, smoking, or high cholesterol,” he noted.

The *Z Wave* is easy-to-use and effective, Dr. Brandeis added. “Its acoustic wave therapy can help to boost a man’s erectile function. Take, for example, a guy in his 50s who uses Viagra, and that works really well for him. Six to 12 shockwave therapy treatments can get him to where he doesn’t need Viagra anymore. For someone in their 60s, when Viagra is not working so well anymore, six to 12 shockwave treatments will get him to where Viagra works well. And if I have someone in their 70s where Viagra has failed, then I can use shockwave therapy and get that person to where Viagra was working again.”

In formulating the best treatment protocol for an ED patient, practitioners must express realistic expectations upfront. “In my clinic, I sit down with a patient for an hour,” he added. “During my ED consults, we go through an entirely holistic consultation. We talk about food; we talk about exercise. I do a full body composition on him, and hormonal analysis.”

Dr. Brandeis then determines which combination therapies work best for an optimal outcome. “For the best results, I combine the *Z Wave* treatment with other modalities. For most patients with erectile dysfunction, I use a nitric oxide booster, *Z Wave* in

combination with my peroxide Nitric oxide booster and PDE5 inhibitors like Viagra and Cialis, PRP injections, also known as the P-shot, and even things like BOTOX injections into the penis and peptides like PT 141. PT-141 is a synthetic peptide for treating sexual dysfunction and related issues. There are a range of treatment types that I use to help guys improve their erectile function.”

Patients who undergo Z Wave treatment for ED often report not only an improvement in their physical symptoms, but also a boost in their overall emotional and mental health.

“I have a very comprehensive toolkit,” he added. “I’m in touch with the functional medicine folks and understand the use of peptides and other regenerative approaches. Also, I’m a clinical researcher. I recently published a study on my P-long protocol, which is a clinically proven protocol to increase penis size without surgery or cosmetic fillers.”

Patients who undergo Z Wave treatment for ED often report not only an improvement in their physical symptoms, but also a boost in their overall emotional and mental health, noted Dr. Brandeis. “My patients are thrilled. They’re getting a part of their life back that most of them never thought they would have again,” he said. “It’s very rewarding for me, too. The treatment’s ability to provide a quick, reliable, and consistent outcome, without pain or downtime, makes it an attractive option for those seeking a comprehensive solution. As a result, patients who receive this treatment develop a strong loyalty to the practice, appreciating the holistic care that addresses both the physical and psychological aspects of their condition.”

Compared with many practitioners, Dr. Brandeis employs a different approach when attracting new patients. “I’m not big on advertising. I’m known in the community for almost 20 years. I do webinars and also go directly to where the men are. So, I’ve done talks at golf clubs, retirement groups, places like that. My talks hit them where they live. There are ways to create what’s called neovascularization, or the growth of new blood vessels. And when you get to where Viagra is not working anymore, there’s still hope, and that hope comes as Z Wave acoustic wave therapy.”

Editor's Note: This article includes the opinions and clinical observations of a licensed physician. Using the Z Wave is not indicated for erectile dysfunction. Zimmer MedizinSystems does not advocate the use of any medical device for purposes that are not intended.