

The Silberg TPS™

DISCOVER THE BEAUTY OF SUPERHYDRATED TISSUE.

The pioneer in therapeutic ultrasound technology, Mettler Surgical, now brings you the Silberg TPS™— a revolutionary advancement in preoperative ultrasound. The Silberg TPS provides ultrasonic superhydration to the operative field. Prophylactic hydration minimizes necrosis due to exposure, while the ultrasound increases soft tissue extensibility. This combination results in less traumatic dissection and retraction.



The Healing Power of Hydration and Ultrasound

Upon exposure, subcutaneous tissue cells begin to dehydrate and die almost immediately. This process is progressive and cannot be reversed with terminal irrigation. In addition, the combination of dissection trauma and dehydrated tissue closed within the wound contribute to postoperative pain, infection, dehiscence, and fat necrosis.¹

Subcutaneous tissue hydration is easily maximized using the Silberg TPS™. Sterile wetting solution is gently infused under the skin using a cannula and high intensity, external ultrasound disperses the fluid into the adjacent and deep subcutaneous tissues through a process called microstreaming. The result is a 'superhydrated' cell matrix that protects tissue integrity and can dramatically reduce postoperative complications.²

Decreased Tissue Viscosity and Increased Extensibility

The superhydrated cell matrix greatly reduces tissue viscosity while increasing tissue elasticity. The Silberg TPS™ is ideal for abdominoplasty, facelifts or other open procedures where subcutaneous tissues are likely to be exposed. Fat extraction and endoscopic procedures are also easier to perform, with less bleeding and dramatically reduced postoperative bruising.³ Patients also report great satisfaction at how soon after surgery they are able to return to their normal routines.

A Sounder Approach To Superhydrated Tissue



Typical Tissue Necrosis (Without TPS)



Tissue After TPS Superhydration

Utilizing proven ultrasound technology, the Silberg TPS™ is now revolutionizing the art of surgical tissue hydration. The superhydrated cell matrix created by the Silberg TPS protects tissue integrity while dramatically reducing postoperative complications.

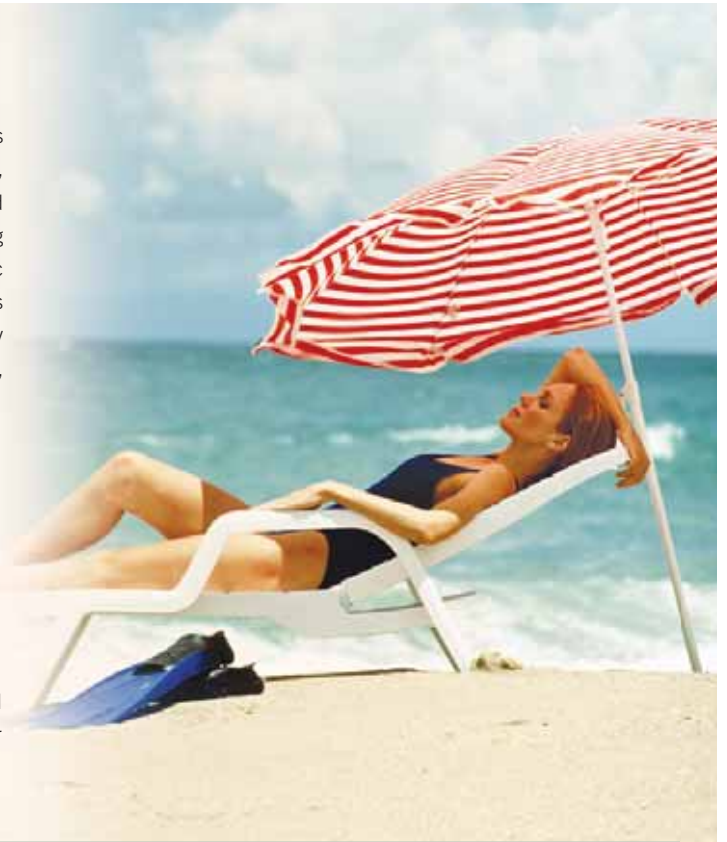


Improved Outcomes: The Product Of Art and Science

Achieving world-class aesthetic results requires the skilled hands of a surgeon, gifted with the vision to see beyond the procedure at hand. Now, by applying the science of high intensity ultrasonic tissue hydration for just 3-6 minutes preoperatively, your patients will enjoy improved clinical and aesthetic outcomes, including:

- Faster recovery with less bruising and discomfort
- Earlier return to normal routine
- Lower risk of postoperative complications
- Better overall results for open procedures involving the extremities, abdominoplasty and facelifts

To learn how to put the Silberg TPS™ and the art of tissue hydration to work in your practice, contact Mettler Surgical today.

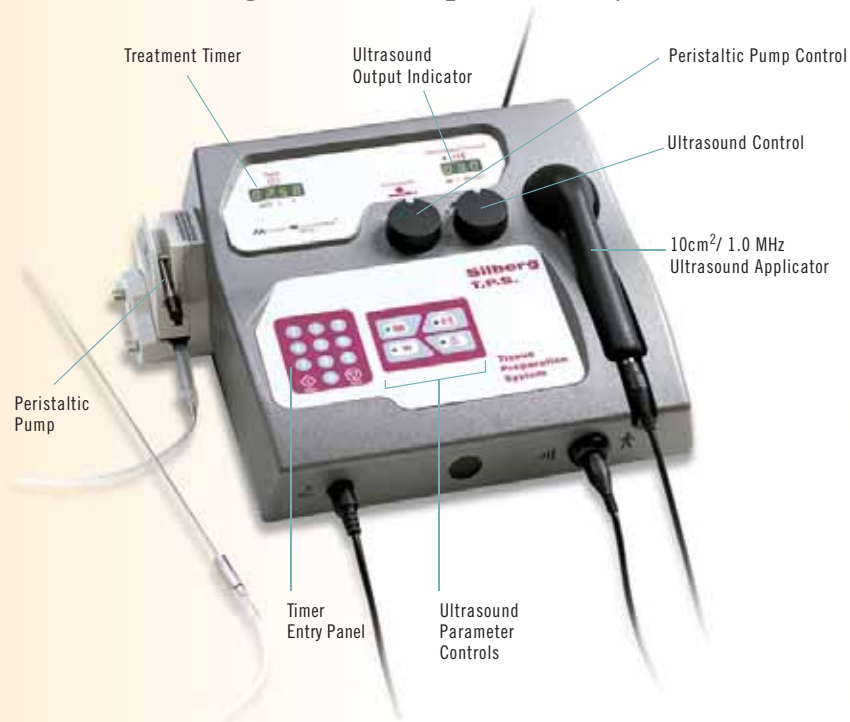




"Surgeons understand the variables that can lead to postoperative complications. Hypothermia or inadequate perfusion can impede recovery. Complications associated with the incision site result from debris, excessive manipulation or necrosis due to ischemia and dehydration. Irrigation may wash away debris but it will not bring dead tissue back to life. Ultrasonic superhydration increases local perfusion and minimizes the potential for exposure dehydration and necrosis. Maintaining the ideal environment for healing assures better outcomes."

**—Barry N. Silberg,
M.D., F.A.C.S.**

The Silberg Tissue Preparation System™



"The Silberg TPS machine is entirely different from the previous generation. It is extremely helpful in facelift, necklift and tummy tuck."

**— Daniel Man, M.D.
Boca Raton, Florida**

References:

1. Hunt TK, Hopf H, Hussain Z. Physiology of wound healing. *Adv Skin Wound Care* 2000; 13(Suppl 2):6-11.
2. Marchbanks MV, Smith L, Aldrich KM. Ultrasound tissue preparation prior to saphenous vein harvesting: A prospective study.
3. Tazi EH. An endomicroscopic comparison of various techniques and technologies of lipoplasty. *Clinics in Plastic Surgery* 1999;26(3):377-407.

Flexible Acquisition Options

Acquiring the Silberg TPS™ can be as atraumatic as using one. We offer multiple options to lease or buy. Contact your Mettler Surgical representative today to learn how easy it is to acquire the art of tissue hydration.

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