



**ELMED™**  
MEDICAL SYSTEMS



# VIBROLITHOrtho®

Shock Wave Therapy Device  
(ESWT - RSWT)



# VIBROLITH<sup>Ortho</sup><sup>®</sup>

VIBROLITH Ortho is an extracorporeal electro-pneumatic and electro-kinetic shock wave therapy device (ESWT&RSWT).

It works with the acoustic effect principle created by the bullet in the applicator (handle) moving with compressed air and hitting a steel applicator head. This head transmits the effect, created by impact, to the point where the treatment is applied.

VIBROLITH Ortho is designed as a highly effective device for applications requiring external treatment. It works with a pneumatic system. Shock wave output is radial. Due to the analgesic effect of acoustic waves, the application is usually painless after the first thirty seconds.

Bone tissue has two basic parts, soft tissue and hard tissue. Examples for soft tissue applications are tendon calcification (calcific tendinitis), lateral and middle epicondylipathy, Achilles tendinopathy, heel spur (plantar fasciitis) with or without calcification, patella tendinopathy or other cases related to tendinopathy. The device designed to deliver acoustic waves to the area to be treated.





Examples for VIBROLITH Ortho hard tissue applications are; reactive periostosis, bone fracture periostosis, coxarthrosis, rhizarthrosis, sudeck syndrome, pseudarthrosis and nonunion bone fractures treatment and bone resorption treatment.

VIBROLITH Ortho indication menu and application parameters are easily adjusted and controlled with the buttons on the touch screen. There are 30 standart ready to use programs available, required for physical therapy, orthopedics and athletes. On the anatomical atlas on the touch screen, there are instructions about which areas should be treated with colored pictures. In addition, it has 10 empty memory slots for the users to prepare and store their own treatment programs.

During the application, the treatment parameters can be changed via the touch screen without interrupting the treatment. The applicator handpiece unit does not recoil when it contacts to patient, thanks to its ergonomic structure. Thus, the applicator provides full contact with the tissue.

With VIBROLITH Ortho, the treatment can be stopped and started with the help of the "start" button on the touch screen or the trigger on the applicator, depending on the user's preference, and the treatment automatically stops when the total number of shots are completed.

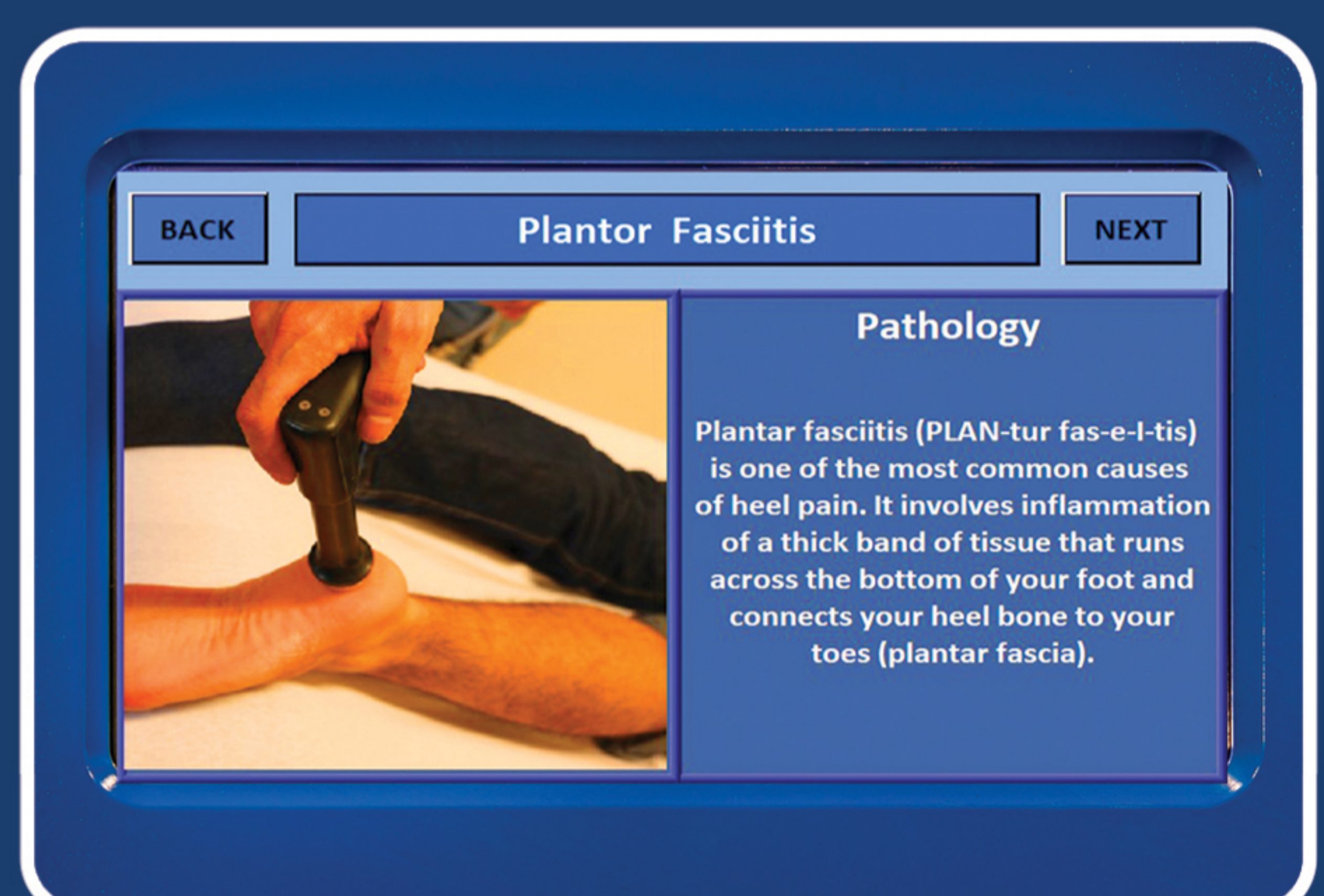
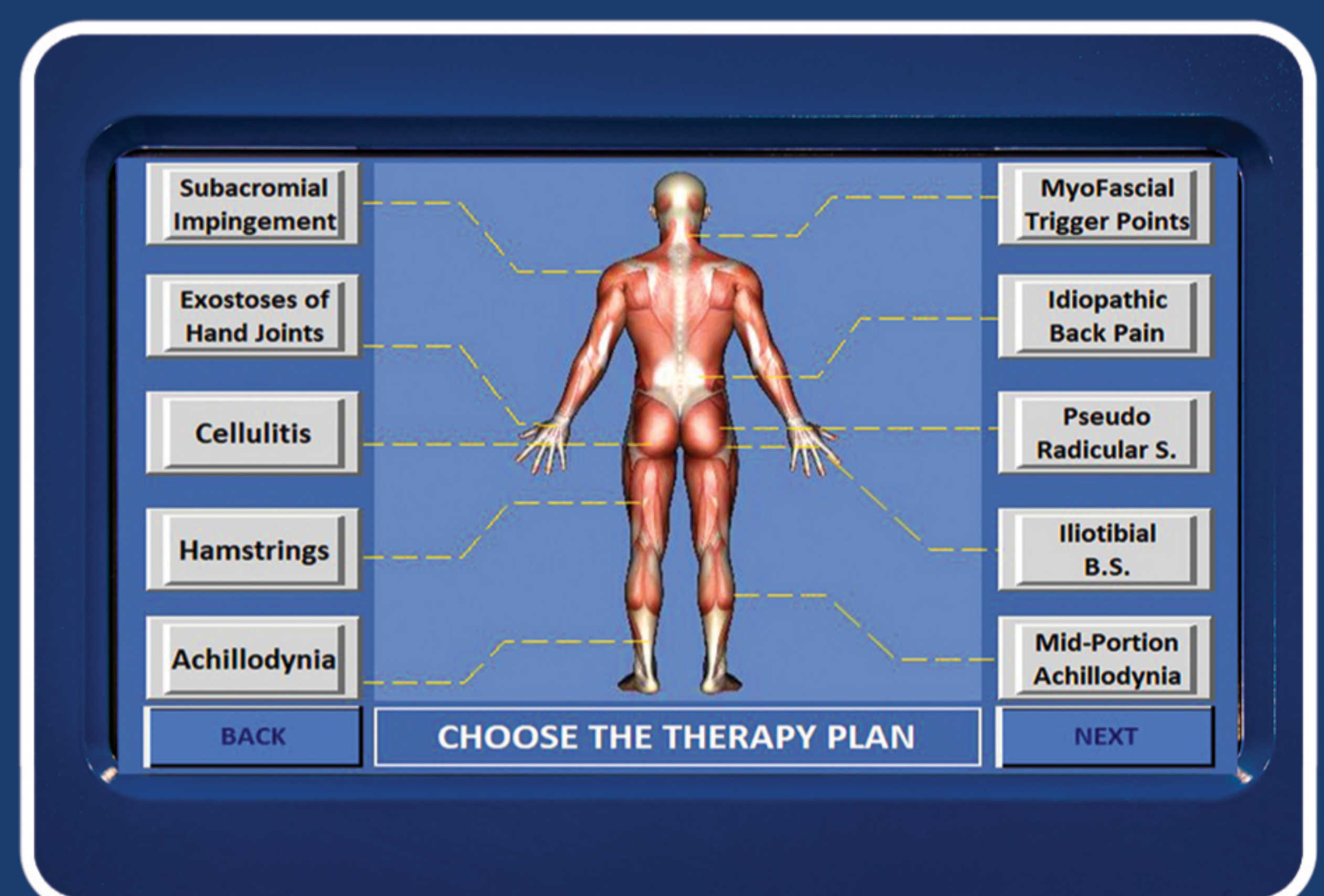
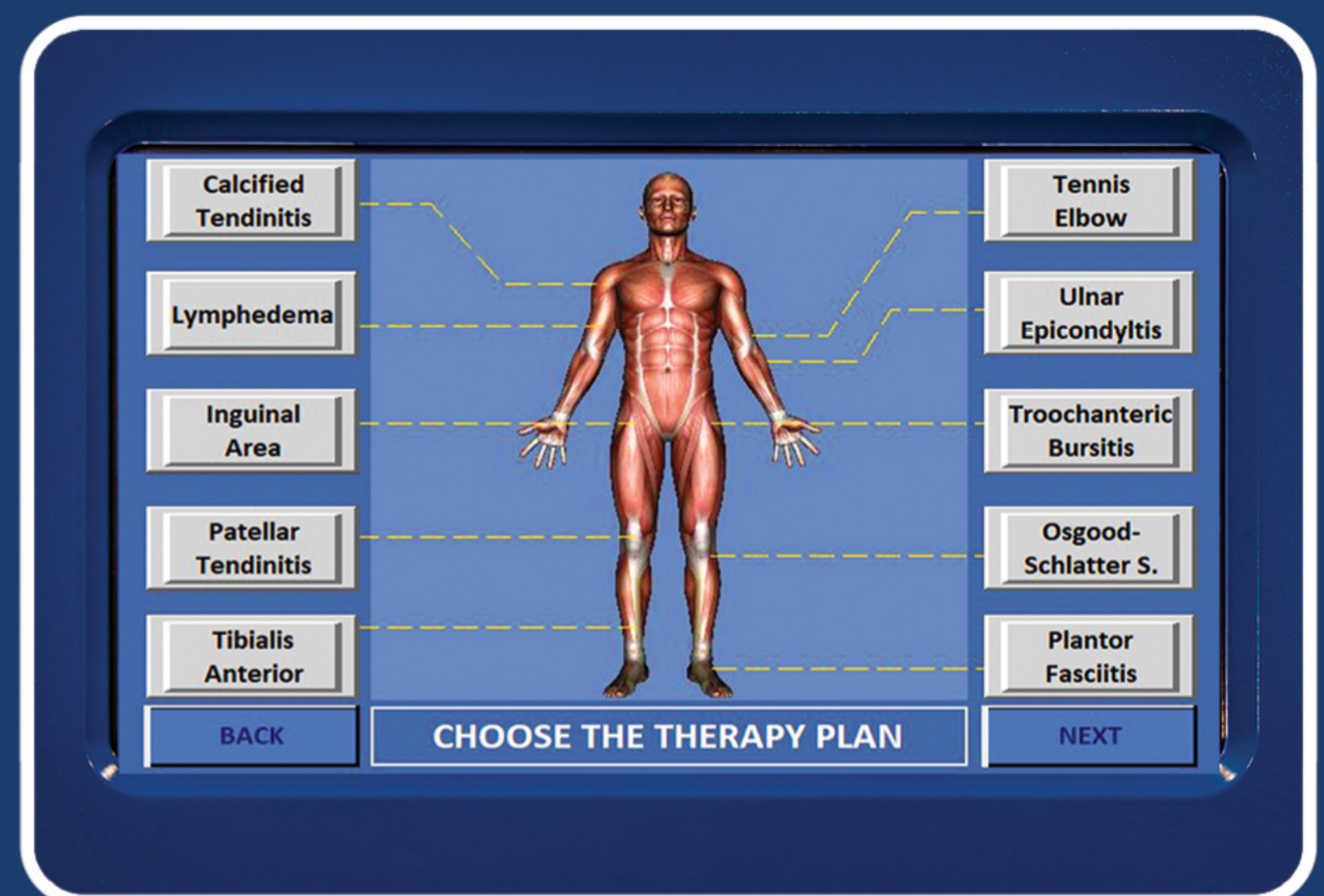
VIBROLITH Ortho is a portable device. It can be easily moved within the clinic. The total number of pulses, power, treatment information screen, the number of pulses (real time) and frequency applied during the treatment can be monitored on the VIBROLITH Ortho LCD touch screen, and the user can make changes during the treatment.

VIBROLITH Ortho is a very economical therapy device with low installation and maintenance costs.



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## TECHNICAL SPECIFICATIONS

Operating Pressure	0.5 - 5 Bar Adjustable
Device Frequency	1-21 Hz, adjustable digitally between 60-1.260 pulse/min.
Pulse Mode	Single, Continuously and Automatic
Energy	18.5 Mpa Adjustable
Power Supply	230 VAC, 50-60 Hz (+/- %5)
Isolation	Internal Isolation Transformer
Display	7" Colored Touch Screen
Application Software	Turkish/English menu, 30 ready and 10 empty treatment programs, screen colors selection, date and time settings, descriptive error notifications in case of error.
Update	Computer connection via USB
Memory	50 thousand patients can be recorded. The applied treatment, pressure (bar) frequency, number of shots, patient information can be recorded automatically.

## DIMENSIONS

Main Unit	315x200x368 mm
Applicator (Hand Unit)	185x200 mm (2.000.000 Shocks)
Applicator Cap	6 mm, 10 mm, 14 mm, 15 mm, 20 mm (Extra long 25 and 35 mm caps are optional for 15 mm trigger points).
Weight:	9,85 Kg
Cleaning	Applicator and Applicator Cap can be sterilized by alcohol-based colorless, odorless disinfectant solution
Accessories	Original Trolley (2 wheels can be locked), Application Gel, 10 Bar silent and oil-free external air compressor, touch screen pen



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**Ostim Teknoloji Geliştirme Bölgesi**  
Ostim Osb Mah. 100.Yıl Bulvarı  
Ostim Teknopark Turkuaz Bina No: 55/E-13  
06374 Yenimahalle/ANKARA - Türkiye  
Tel: +90 312 **256 92 22** • Faks: +90 312 **257 06 08**  
www.elmed-as.com • sales@elmed-as.com

**ELMED USA**  
3956 Town Center Blvd. Suite 217 Orlando,  
Florida 32837, USA  
Tel: +1 (424) **457 0002**  
E-mail: elmedusa@elmed-as.com

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