

SWISS DOLORCLAST® MASTER

→ A NEW OPERATING CONCEPT FOR
RADIAL SHOCK WAVE THERAPY

FROM
THE INVENTOR
OF RSWT®



EMS⁺
ELECTRO MEDICAL SYSTEMS

SWISS DOLORCLAST® MASTER
ORIGINAL METHOD



Touchscreen interface
Swiss DolorClast®
EVO BLUE handpiece

SWISS DOLORCLAST® MASTER
ORIGINAL METHOD

SWISS DOLORCLAST® MASTER

INNOVATIVE TOUCHSCREEN
INTERFACE →

PIONEERING
RSWT®
HANDPIECE

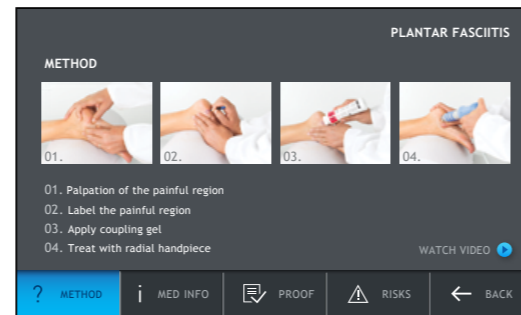
- OPERATING CONCEPT BASED ON USER-FRIENDLY INTERFACE
- EFFICIENCY DEMONSTRATED BY SCIENTIFIC EVIDENCE
- EVO BLUE HANDPIECE DESIGNED FOR UNPARALLELED PERFORMANCE
- DIGITAL DISPLAY OF ENERGY FLUX DENSITY



SET, TREAT AND STORE → MUCH MORE THAN JUST ANOTHER KIND OF OPERATING MODE

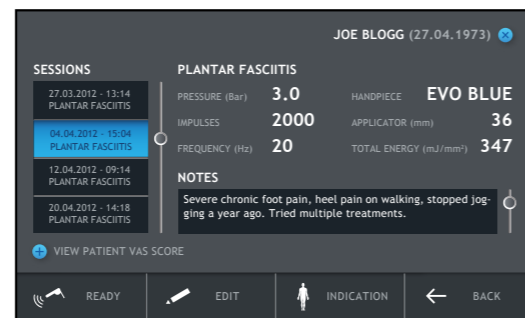
METHOD

- > Photos and videos of step-by-step demonstration of each application



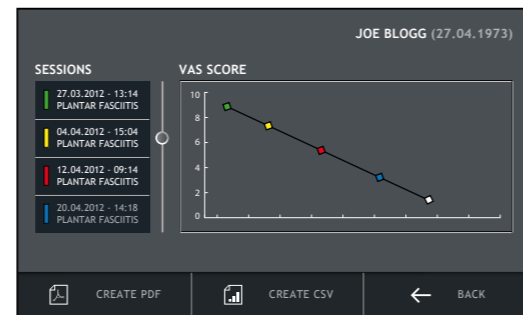
DOCUMENTATION

- > Capture of the patient's entire treatment history
- > Easy access to personalized treatment settings



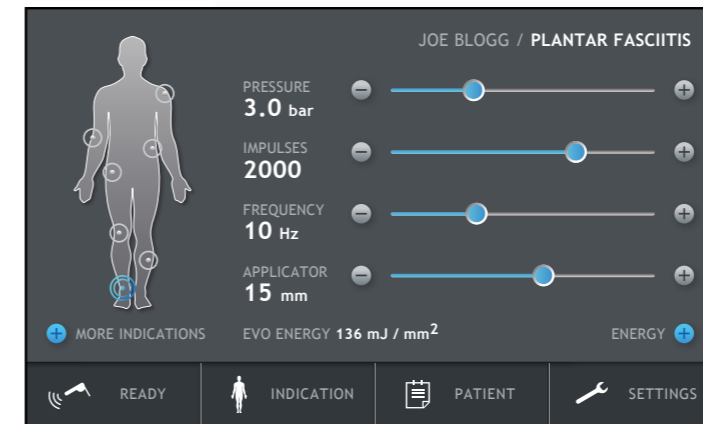
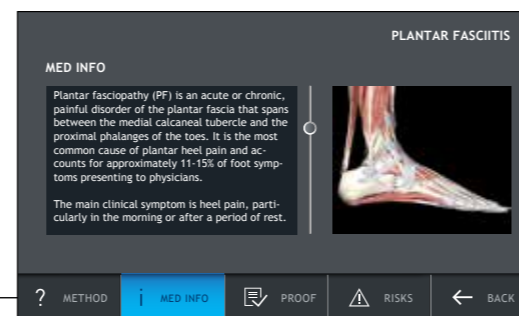
SUCCESS CONTROL

- > Automatic display of treatment results
- > VAS score to track pain reduction



MEDICAL INFORMATION

- > Complete therapeutic guide of clinical data, contraindications and scientific publications for each indication



SETTINGS

- > All individual settings at a glance
- > Immediate indication of energy flux density
- > Automatic recognition of the EVO BLUE handpiece

PATIENT DIRECTORY

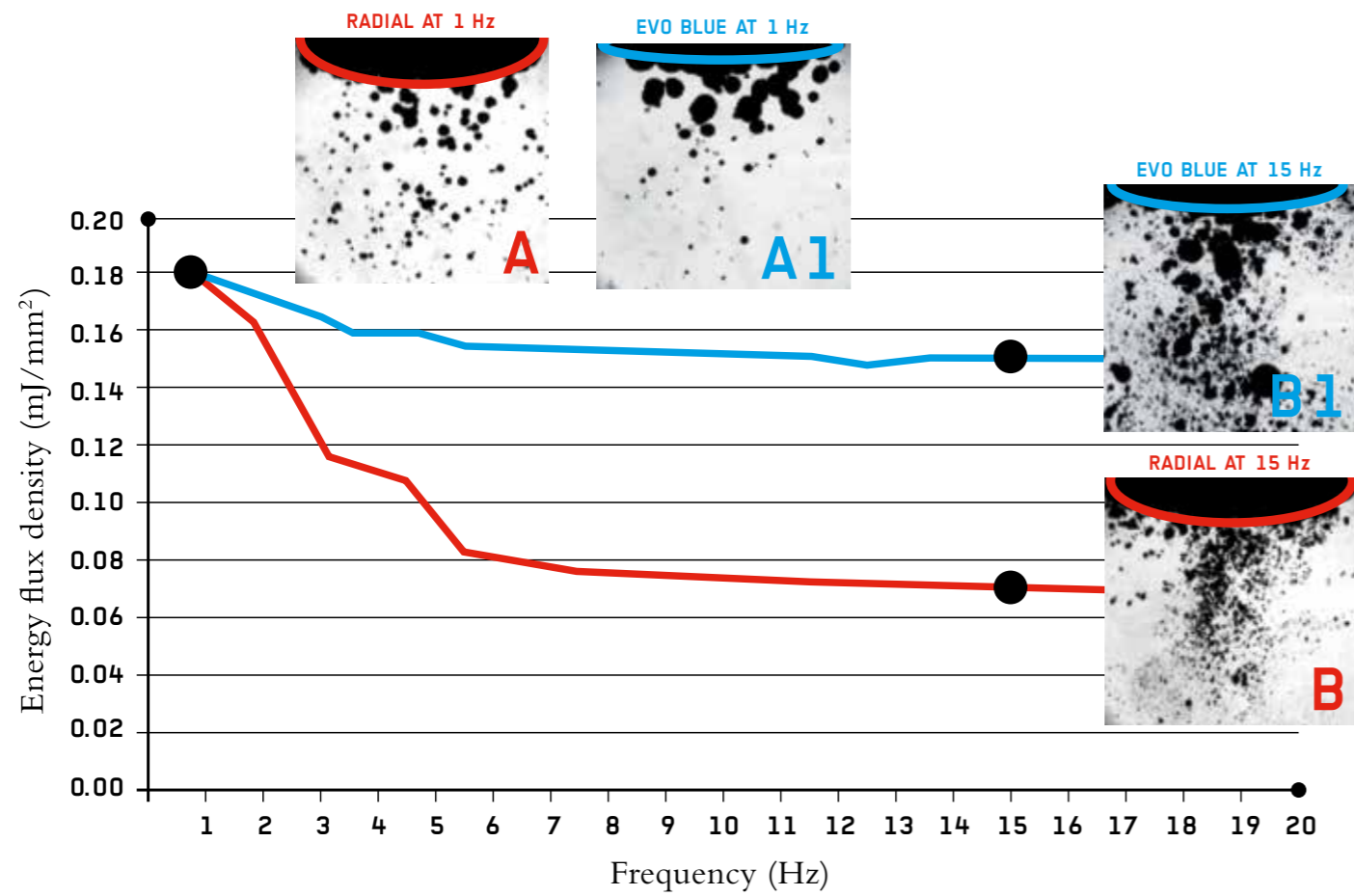
- > Patient files alphabetically stored
- > Immediate access to patient files



EVO BLUE ENERGY

UNIQUE RSWT® HANDPIECE DELIVERING CONSTANT ENERGY

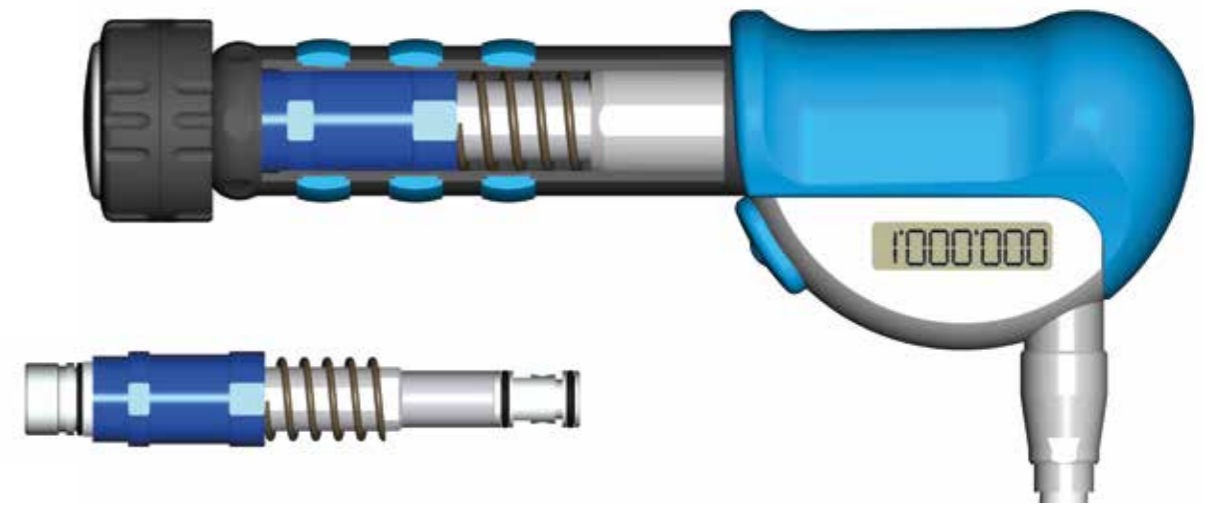
> New Swiss DolorClast® EVO BLUE handpiece with constant energy transfer irrespective of the chosen frequency (blue curve) – unachievable using conventional technology (red curve)



High-speed photography (in degassed water) of cavitation bubbles consequent to the negative phase of the propagation of radial shock waves generated with the previous Swiss DolorClast® Radial handpiece (A, B) and the new Swiss DolorClast® EVO BLUE handpiece (A1, B1), operated with 4 bar pressure at 1 Hz (A, A1) and 15 Hz (B, B1).

Note that at 1 Hz the cavitation fields of both handpieces are very similar. In contrast, at 15 Hz the new Swiss DolorClast® EVO BLUE handpiece generates a much stronger cavitation field than the Swiss DolorClast® Radial handpiece. The fact that at 15 Hz the cavitation field of the new Swiss DolorClast® EVO BLUE handpiece is even stronger than at 1 Hz (compare B1 with A1) is most probably due to persisting cavitation bubbles that were generated by earlier radial shock waves. The red lines in A and B as well as the blue lines in A1 and B1 depict the surface of the 15 mm applicators of the handpieces.

Cavitation is considered a central mechanism of action of shock waves on the musculoskeletal system (Schelling et al., Biophys J. 1994;66:133-140; Hausdorf et al., Brain Res. 2008;1207:96-101; Schmitz and DePace, Urol Res. 2009;37:231-234).



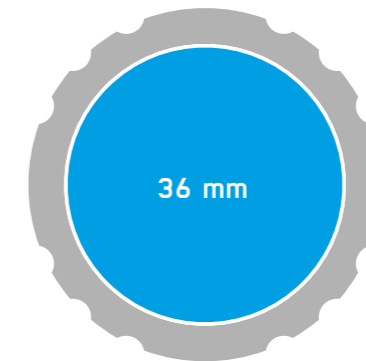
HIGHER PERFORMANCE AND EASY HANDPIECE REVISION WITH NEW APPLICATOR DESIGN AND PISTON TECHNOLOGY →

- > High-precision smart-lock piston with patented valve system – for unprecedented energy flux densities at all frequencies
- > Easy handpiece revision by quick replacement of smart-lock piston – much faster, more precise and safer than (self-) assembly of single spare parts
- > The latest masterpiece from the inventor of radial shock wave therapy (RSWT®) – the Original Swiss DolorClast® Method



Learn more about the EVO BLUE energy

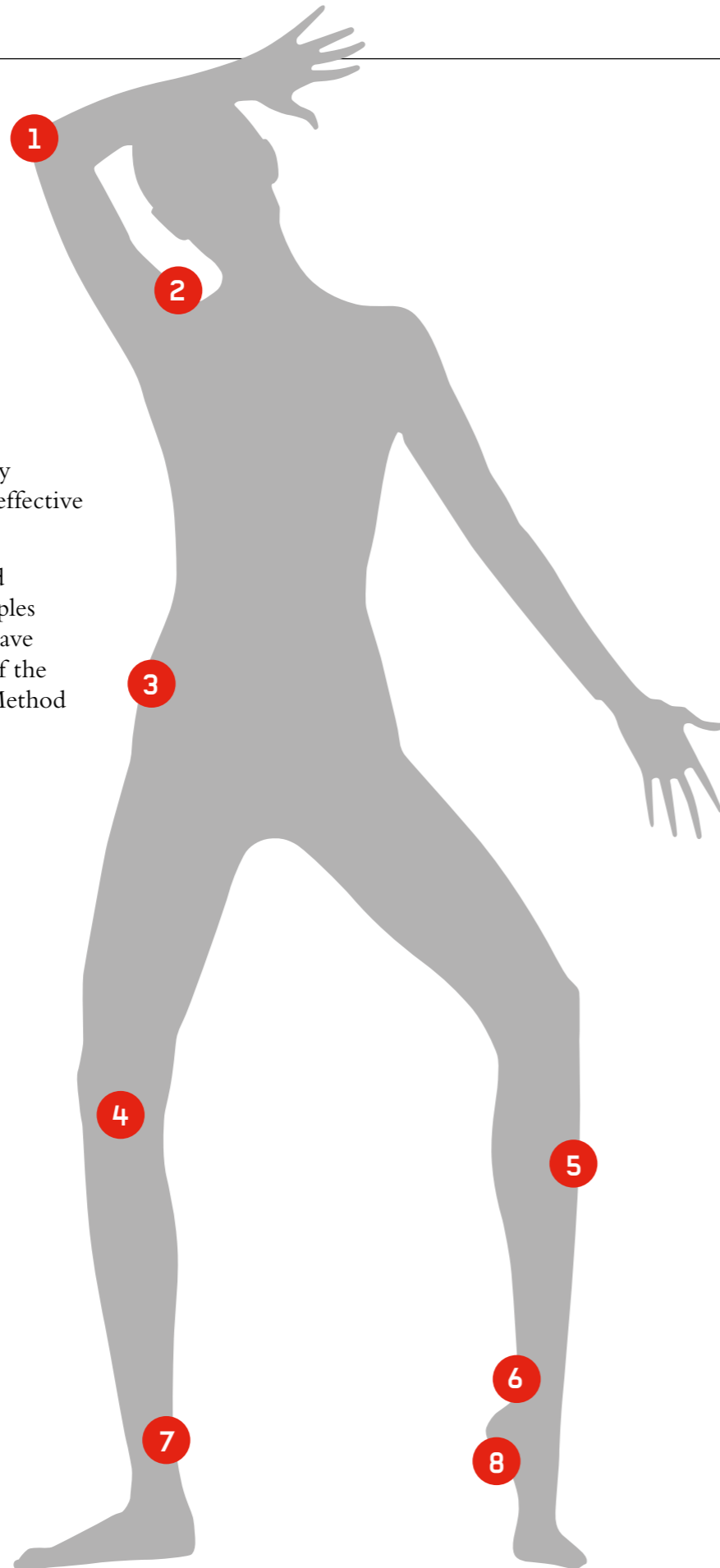
6 x LARGER TREATMENT AREA



RADIAL SHOCK WAVES TODAY

POINT-BY-POINT EVIDENCE

- > Radial shock wave therapy (RSWT®) is proven safe and effective for all indications shown
- > Clinical studies conducted in accordance with the principles of evidence-based medicine have demonstrated the efficiency of the Original Swiss DolorClast® Method



IF PAIN SUFFERERS ONLY KNEW →

SCIENTIFIC STUDIES SUPPORT THE EFFICIENCY OF THE ORIGINAL SWISS DOLORCLAST® METHOD®

INDICATIONS WITH RANDOMIZED CONTROLLED CLINICAL TRIALS* →

- 1 TENNIS ELBOW**
Epicondylitis humeri radialis
*Literature: Mehra et al., Surgeon 2003;1:290-292 (I)**
- 2 SUBACROMIAL PAIN SYNDROME**
*Literature: Engebretsen et al., Brit Med J 2009;339:b3360 (I)**
- 3 GREATER TROCHANTERIC PAIN SYNDROME**
*Literature: Furia et al., Am J Sports Med 2009;37:1806-1813 (II-2)**
*Rompe et al., Am J Sports Med 2009;37:1981-1990 (I)**
- 4 PATELLA TIP SYNDROME**
*Literature: Furia et al., Knee Surg Sports Traumatol Arthrosc 2013;21:346-350 (II-2)**
- 5 MEDIAL TIBIAL STRESS SYNDROME**
*Literature: Rompe et al., Am J Sports Med 2010;38:125-132 (I)**
- 6 INSERTIONAL ACHILLES TENDINOPATHY**
*Literature: Rompe et al., Am J Sports Med 2007;35:374-381 (I)**
*Rompe et al., Am J Sports Med 2009;37:463-470 (I)**
- 7 MIDBODY ACHILLES TENDINOPATHY**
*Literature: Rompe et al., Am J Bone Joint Surg 2008;90:52-61 (I)**
- 8 PLANTAR FASCIITIS**
*Literature: Gerdemeyer et al., Am J Sports Med 2008;36:2100-2109 (I)**
*Ibrahim et al., Foot Ankle Int 2010;31:391-397 (I)**

> Randomized controlled clinical trials are ongoing regarding the following indications: rugby knee (Osgood-Schlatter disease), idiopathic low back pain, pseudoradicular syndromes and myofascial pain syndrome – the results will be published online

OTHER INDICATIONS →

> Moreover, the Swiss DolorClast® is also approved for the treatment of the following indications: calcifying tendinitis of the shoulder, primary and secondary lymphedema, Peyronie's disease, acute and chronic soft tissue wounds and cellulite

* Evidence levels defined by the United States Preventive Services Task Force



ULTIMATE RADIAL SHOCK WAVE EXPERIENCE

ALL ADVANTAGES AT A GLANCE →

- > Unique system that automatically displays the actual energy flux density applied to the patient (in mJ/mm^2), calculated on the basis of the selected air pressure (in bar). This allows the user to continuously monitor the energy applied to the tissue
- > 17 ready treatment protocols with preset recommended settings
- > Possibility to create up to 200 personalized treatment protocols
- > Up to 3000 patient files stored with automatic treatment history storage
- > USB memory port to upgrade software and easily export data
- > With 20° inclination for ideal screen vision
- > Energy Flux Density mJ/mm^2 - on display



TECHNICAL DATA

Frequency	1 – 20 Hz
Air Pressure Range	1.5 – 4.0 bar
Impulses Range	500 – 10'000
Weight	Approx. 6.4 Kg
Dimensions (HxLxD)	136 x 356 x 391 mm

REFERENCES

Swiss DolorClast® Master
 Dedicated Cart
 Compressor
 Swiss DolorClast®
 EVO BLUE Handpiece
 Cable and bottle holder

FT-217

DW-039

DW-017

FR-119A

FR-158/A



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