THE GENUINE SWISS LITHOCLAST® 2

THE EVOLUTION IN LITHOCLAST® STONE THERAPY – FROM THE INVENTOR OF THE SWISS LITHOCLAST® METHOD

- BETTER TREATMENT RESULTS
- BETTER HANDLING
- EASIER REPROCESSING

SETTING A NEW STANDARD FOR SAFETY AND EFFECTIVENESS
THE ORIGINAL PNEUMATIC PN3 HANDPIECE – INNOVATIVE FUNCTION AND DESIGN

THE RESULT OF RESEARCH AND DEVELOPMENT –
THE INNOVATIVE HANDPIECE OF THE SWISS LITHOCLAST®

- The Pn3 handpiece is extremely lightweight and ensures optimum operator control with its good ergonomic design.
- The coupling section of the air supply tube rotates and the compressed-air tube is now longer without losing any pulse efficiency. This allows greater freedom of movement for the user in all treatment situations.
- The Pn3 handpiece and compressed-air tube is a sealed system and can be autoclaved or sterilized without additional sealing caps. This means no penetration of liquids and moisture, no blocking of the projectile and no related handpiece failure.
- The quick-connection probe caps provide easy, fast and sterile probe change.
- All components – handpiece and probes – remain extremely durable due to highest material and manufacturing quality.

INNOVATION IN THE HANDS OF THE PHYSICIAN

- GREATLY REDUCED PROBE DISPLACEMENT WITH THE Pn3 HANDPIECE IMPROVES FRAGMENTATION CONTROL AND REDUCES PUSH-BACK EFFECT
- SWISS LITHOCLAST® Pn3 HANDPIECE COMPARED TO STANDARD HANDPIECE – PROBE DISPLACEMENT MEASURED AT A PRESSURE OF 2 BAR
FLEXIBLE IMPULSE FREQUENCY, CONTROLLED BY THE PHYSICIAN ➔

THE CHALLENGE FOR THE DEVELOPMENT TEAM OF THE SWISS LITHOCLAST® METHOD WAS THE “PUSH-BACK EFFECT” ➔

➤ Loss of mobile stones up the ureter, caused by the lithotripsy impulse, was frustrating. This was often caused by an impulse frequency badly suited to the treatment situation. This problem occurs, if the physician cannot control or adapt the impulse frequency quickly and easily.

THE SWISS LITHOCLAST® 2 FIGHTS THE PUSH-BACK EFFECT BY MEANS OF THREE ESSENTIAL INNOVATIONS ➔

➤ The impulse frequency can be adjusted in single Hertz increments – by means of the dual foot pedal, the physician can intraoperatively select between single impulse, low impulse frequency and boost frequency.

➤ The probe displacement has been greatly reduced – this reduces forward momentum on the stone at impact.

➤ The newly developed Swiss LithoVac® suction system – suction lithotripsy in the ureter – enables continuous irrigation ureteroscopy and controls the push-back effect on its own.

EVERYTHING IS UNDER CONTROL
FLEXIBILITY LINKED TO CONTROL ➔

NEWLY DEVELOPED SWISS LITHOVAC® SUCTION SYSTEM FOR CONTINUOUS IRRIGATION URETEROSCOPY HELPS TO CONTROL THE PUSH-BACK EFFECT ➔

CLINICAL PROOF FOR THE EFFECTIVENESS OF THE SWISS LITHOVAC® SUCTION SYSTEM ➔


FIRST-SHOT SOLUTION ➔

SAFE AND SUCCESSFUL LITHOTRIPSY WITH VERY SHORT TREATMENTS, INDEPENDENT OF STONE COMPOSITION

➔ SUCCESSFUL TREATMENT OF ALL TYPES OF URINARY STONES

The Swiss LithoClast® transmits energy from the probe onto the stone – thermal tissue damage is excluded.

The urothelium remains intact even after being hit repeatedly with impulses at the highest energy setting of the Swiss LithoClast® 2.

LARGE, MEDIUM, SMALL ➔

1. Flexible lithotripsy with the Swiss LithoClast® in the ureter
2. Suction lithotripsy of ureteric stones with Swiss LithoClast® and Swiss LithoVac®
3. Percutaneous application with flexible nephroscope and flexible Swiss LithoClast® probe
4. Percutaneous stone fragmentation with Swiss LithoClast® and Swiss LithoVac®
5. Pneumatic suction lithotripsy using Swiss LithoClast® and Swiss LithoVac® in the bladder

THE SWISS LITHOCLAST® METHOD TREATS ALL STONES IN ALL LOCATIONS
SWISS LITHOCLAST® 2, SWISS LITHOCLAST® ENDOSCOPES, SWISS LITHOVAC® SUCTION
THE GENUINE SWISS LITHOCLAST® METHOD

- Safe, effective and cold: these are the main features of the genuine Swiss LithoClast® Method – developed by EMS – since its market introduction in 1990.
- The Swiss LithoClast® generates energy without heat development – thermal damage in the urinary tract is eliminated for maximum tissue safety.
- No electrical energy is used for generating the acoustic waves – the highest safety for the patient and physician is guaranteed.
- The outstanding effectiveness of the Swiss LithoClast® results in short treatment duration, independent of the stone composition, with the flexibility of use in the entire urinary tract. And, last but not least, it is the quality of all components, as well as their ease of use and maintenance which made this a unique success.

THE ROAD TO SUCCESS

- The newly developed Swiss LithoVac® suction system is user friendly and easy to clean and to sterilize.
- The new generation of Swiss LithoClast® endoscopes has an impressive and outstanding optical system – ureteroscopy with 50000 Pixel image resolution in small-diameter scopes represents a new dimension in endoscopic image quality.
- The Swiss LithoClast® endoscopes enhance stone therapy – simple, safe handling, no kinking of lithotripsy and suction probes thanks to special guidance adapters.

THE GENUINE SWISS LITHOCLAST® METHOD – FOR MORE THAN A DECADE THE MODERN TERM FOR ENDOSCOPIC LITHOTRIPSY, SETTING THE BENCHMARK FOR SAFE AND EFFECTIVE STONE THERAPY
DEVICES, OPTIONS, ACCESSORIES ➔ COVERING ALL NEEDS FOR A SUCCESSFUL STONE THERAPY

SWISS LITHOCLAST®2
Swiss LithoClast® 2 basic unit
100-240 VAC, 40 VA, 50/60 Hz
incl. dual foot pedal, compressed-air connection, pneumatic Pn3 handpiece,
Swiss LithoClast® probes 0.8/1/1.6/2 mm

STONE CATCHER
Stone catcher holder
Stone catcher sterile (box of ten)

SWISS LITHOCLAST® PROBES
Probe Ø 2 mm, 425 mm length
EL-044
Probe Ø 1.6 mm, 605 mm length
EL-058
Probe Ø 1 mm, 605 mm length
EL-046
Probe Ø 0.8 mm, 605 mm length
EL-092
Probe Ø 3.2 mm, 425 mm length
AO-425
Handpiece probe cap for 3.2-mm probe
Probe Ø 1.6 mm, 453 mm length
for suction probe EL-212
Probe Ø 0.8 mm, 668 mm length
for suction probe EL-213
Flexible probe Ø 0.89 mm, 940 mm length
for flexible ureterorenoscopes
Flexible probe Ø 0.89 mm, 600 mm length
for flexible nephroscopes

ADAPTERS FOR ENDSOCOPES
For EMS Lithovision ureterorenoscope
FR-167 and FR-168
For Richard Wolf ureterorenoscope
FR-107, FR-108 and FR-132
For Olympus OES Pro Serie
ureterorenoscope WA20042A with
irrigation attachment A0396

STERILIZATION TRAY
Sterilization tray 700x120x75 mm, autoclavable
FR-172

STERILIZATION TRAY
Sterilization tray 500x200x60 mm, autoclavable
FR-082

STONCATCHER
Collection of stone fragments

SYSTEM
OF STONES CANNOT BE WRONG
THE SWISS LITHOCLAST® PRINCIPLE IS TODAY'S MOST COMMONLY USED ENDOscopic STONE TREATMENT METHOD – ITS PROVEN SAFETY AND ITS SUCCESS RATES MAKE IT ALSO THE MOST EFFICIENT AND COST-EFFECTIVE MODALITY

BEST RESULTS
FOUR HUNDRED AND TWELVE (412) PUBLISHED STUDIES ON THE SWISS LITHOCLAST® AND PNEUMATIC LITHOTRIPSY PROVIDE AMPLE CLINICAL EVIDENCE ON EFFICIENCY AND SAFETY OF THE SWISS LITHOCLAST® METHOD

HIGH STONE-FREE RATES
➤ Up to 95% for ureteral stones using pneumatic lithotripsy
➤ Up to 90% for PNL procedures using combination lithotripsy

HIGH TISSUE SAFETY
➤ The highest tissue safety of all endoscopic lithotripters

FAST FRAGMENTATION AND CLEARANCE TIME
➤ Combination mode with the Swiss LithoClast® Master clears stones twice as fast as ultrasound-alone lithotripters
➤ Pneumatic lithotripters with the Swiss LithoClast® fragments stones on average faster than Holmium laser

BEST COSTS
A FASTER STONE CLEARANCE WITH THE SWISS LITHOCLAST® RESULTS IN A SHORTER OPERATING TIME FOR COST-EFFECTIVE OR MANAGEMENT

➤ Save 28 minutes compared to laser lithotripsy
➤ OR time costs 62 $ per minute
➤ Save on average 1,736 $ per PNL compared to laser lithotripsy

1 Malik, Rizvi et. al, 2007: Comparison of HO-YAG laser and Swiss LithoClast® in percutaneous nephrolithotomies
2 A. Maccari, Stanford University USA, 2010: What does one minute of operating room time costs?