Section: Approval:	Division o	of Nursing	PROCEDURE		Index: Page: Issue Date: Reviewed:	7420.058a 1 of 3 February 26, 2002 March 12, 2010
		HACKE	TTSTOWN REGIONAL MEI	DICAL CE	NTER	
Originator: Revised by: Reviewed:	S. De S. Bre R. Tri	enhalter, RN oady, RN immer, RN	<u>OR</u> (Scope)			
TITLE:	MICROVASIVE UROLOGY LITHOCLAST, OPERATION OF					
PURPOSE		To outline proo Lithoclast.	cedure to delineate the staff's	s role in op	perating the Mic	crovasive Urology
SUPPORTI DATA:	VE	The Microvasi cystoscopies a The system ut up a stone or t	ve Urology Lithoclast System and ureteroscopies to blast be ilized a wave shock generate to pulverize the stone for eas	n is design oth bladde ed by a pis ey passage	ed to be used in er and urethral s ton under comp e and removal.	n conjunction with stones from removal. pressed air to break
EQUIPMEN	IT LIST:	 Microvasiv Lithoclast Lithoclast table) Nitrogen o 	e Urology Lithoclast unit (loca handpieces sterilized probes (probes must be steri r compressed air tank.	ated in OF	R III sub-sterile t open from ori	room) ginal package on
CONTENT:	1.	PROCEDURE Connect Lithocla air source to 70	: ast Unit to nitrogen or compre psi, or as directed by the phy	essed /sician.	KEYPOINTS:	
	2.	Plug in Lithoclas	t Unit to power source.		Unit should be pressure at all	e set at 1.5 bar times.
	3.	Turn on Lithocla as directed by th	st Unit and set bar pressure le physician.	1.5, or		
	4.	Start with unit or multiple pulse as	n single pulse and move to single bulse and move to single directed by surgeon.		Starting on mu stone to move	Iltiple may cause the up ureter.
	5.	Unscrew cap fro aside on sterile f	om sterile handpiece and set field.	сар	Do not throw of be replaced or procedure for sterilization.	cap out, as cap must n hand unit at end of cleaning and
	6.	Screw sterile pro	bbe into handpiece and tighte	en snug.		
	7.	Hand off end of tube into face of	handpiece to circulator and in unit.	nsert		
	8.	Place foot pedal	with cover over it at surgeon	n's feet.	Pressure shou center of peda	Ild be applied to II.

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- 9. The surgeon will insert desired size probe through scope and place probe directly on stone, trapping against the wall of ureter or bladder.
- 10. The surgeon will step on foot pedal to blast stone.
- 11. Move setting to multiple pulses and repeat step 10 as required by the surgeon.
- 12. After procedure completed, remove probe from handle and place cap of handle back onto handpiece snuggly.
- 13. Unplug handpiece from unit and send probe with handpiece for cleaning. They will be returned unsterlized and must be autoclaved prior to each use.
- 14. The probe and handpiece should be autoclaved for a 10-minute flash cycle prior to each use. Mark probe at base with a permanent marker before each sterilization cycle.

Tip of probe should be seen at end of scope.

The air source should be turned off and bleed the unit of remaining air.

The probe may be used up to 5 times before it is to be discarded. Staff will mark the probe each time it is sterilized.

Be sure cap is screwed snugly onto handpiece prior to autoclaving. Take care not to allow moisture to enter the handpiece.

Reference: Microvasive Swiss Lithoclast Instruction Manual and Quick Reference Guide 435234-01 Rev.B.

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MICROVASIVE UROLOGY LITHOCLAST QUICK REFERENCE

PRIOR TO THE PROCEDURE:

- 1. Set nitrogen or compressed air source to % PSI.
- 2. Start with 1.5 bar of pressure (on the unit) increasing as needed to 2.5 bar.
- 3. Start on single pulse and move to multiple pulse as needed.
- 4. Cover foot pedal to keep clean.

 Sterilize probes and handpiece: Autoclave at 132 degrees for 10 minutes, 4 minutes dry time. Silicone tubing must be tightly attached to the handpiece at all times. Options:

- Place tan sterilization cap tightly on handpiece and sterilize alongside probe (disassembled).
- Keep handpiece and probe fully assembled sterilize as one piece (assembled).
- 6. After sterilization, check the probes (especially under tan screw cap and silicone piece) and tubing for moisture and dry accordingly.
- 7. Have both handpieces assembled (probe is inserted and screwed on tightly) and on sterile field at start of case.

PROBE SIZESREORDER #*2.5 - 0.8mm – primarily for ureteroscopy840-208*3.0 - 1.0 mm – primarily for ureteroscopy840-210*4.8 - 1.6mm – primarily for bladder stones840-214*6.0 - 2.0 mm – primarily for Percutaneous Nephrolithotomy840-220Sizes of probes written in mm on the end of each probe – you must move the tan screw cap and silicone tube to see size.silicone tube to see size.

DURING THE PROCEDURE

- 1. Insert probe through scope should see tip of probe appear at end of scope.
- 2. Place probe **directly** on stone, trapping against the ureteral wall if needed.
- 3. Step on foot pedal to **BLAST** stone.

AFTER THE PROCEDURE

 Use water and an enzymatic detergent to clean the assemble handpiece, probe and silicone tube. Use of saline is not recommended. Do not disassemble the Lithoclast handpiece, probe and silicone tube for cleaning. Under no circumstances should water or moisture enter the interior of handpiece because moisture may inhibit free movement of the projectile. If moisture does penetrate the handpiece, the handpiece must be disassembled and each part inside wiped dry with a sterile gauze pad.