

Section: Division of Nursing

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PROCEDURE

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HACKETTSTOWN REGIONAL MEDICAL CENTER

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OR/MINOR PROCEDURES

(Scope)

TITLE: YAG LASER (SETTING UP AND BREAKING DOWN) PROCEDURE

PURPOSE: To define nursing responsibility in setting up and taking down of the Yag Laser for surgical procedures in the OR.

SUPPORTIVE

- DATA:**
- Lasers in the OR may be operated, including set up and break down, only by personnel properly trained via formalized instruction.
 - There are many hazards associated with the laser use of which all health care workers involved must be aware of and be knowledgeable in dealing with safely.

EQUIPMENT: Yag Laser OR II

- YAG Laser Machine
- Key - locked in box in sub sterile room
- Laser Signs
- Laser fiber
- Yag Laser Protective Glasses

CONTENT:

PROCEDURE:

- Obtain laser fiber
- Cover window with shade
- Place laser signs on all doors
- Hang protective glasses on hook outside door
- Have laser masks available at scrub sinks
- Plug laser machine in OR room
- Keep fire extinguishers available in OR (mount on back wall)
- Inspect all cords as you are plugging them in for intactness
- Remove laser key from box and place in machine
- Turn key clockwise to **ON** and allow laser to warm up
- Insert fiber into port
- After warm-up phase is over, switch to operate mode
- Set watts at 30, depress foot pedal and carbonize fiber by placing it on a wooden tongue blade covered with surgical marker.
- Change laser setting from operate to standby according to surgeon's usage and lower watts to 15w.
- After surgery, record joules and pulses used in Laser Log Book and on Operative Record before turning off machine
- Also record on Operative Record that all safety precautions were in place.

KEY POINTS:

Found in OR Room 2

Laser Log Book is kept on top of laser machine

17. Disconnect fiber from Yag laser machine and turn key to **off** position.
18. Return key to box for laser use.
19. Unplug laser machine from outlet
20. Remove laser safety signs from door and store on machine
21. Collect all laser safety glasses and return to their cases on side of machine
22. Return laser machine and pedal to corner of OR II

DOCUMENTATION: In Laser Log Book and on Operative Record please record:

- a. Joules
- b. Pulses
- c. Watts
- d. Mode
- e. Label which includes the patient's name, etc.

References: (1999) Laser Sonics Luxus 100 N.d: Yag Surgical Laser System; Operators Manual and Operations Steps in brief on machine door panel. Heroeus Laser Sonics, Inc. Field Service, 575 Cottonwood Drive, Milpitas, California 95035.