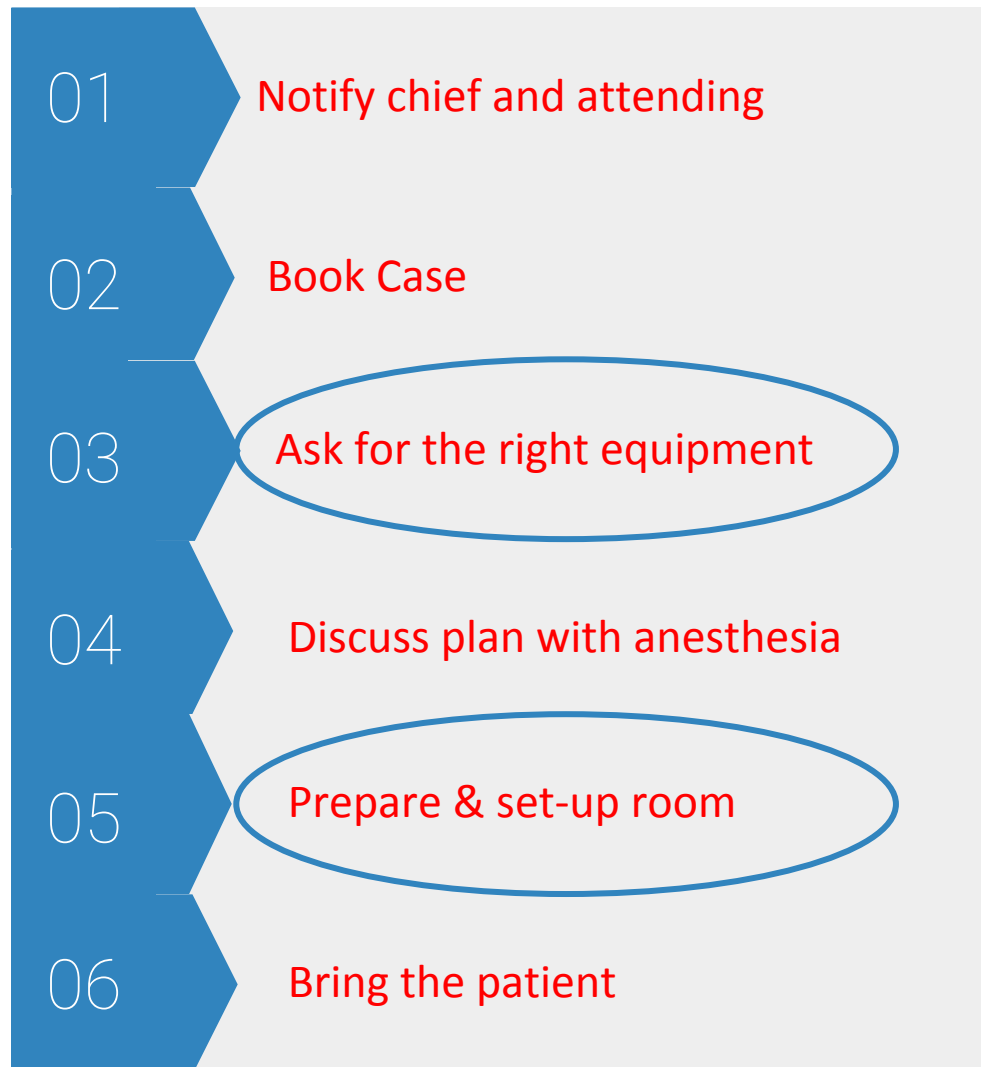


# Ronald Reagan Medical Center

## Operating Room: **Airway Equipment & Management Guide**



CPT CODES:

**31541** Laryngoscopy, direct, operative, with operating microscope or telescope, with excision of tumor (MDL + Laser)

**31571** Laryngoscopy, direct, operative, with injection (Steroid injection)

### 31641 Bronchoscopy with treatment of stenosis (Bronchoscopy with laser and dilation)

## ICD 10 Codes

## J38.6 Stenosis of the Larynx

### J39.8 Other specified diseases of the upper respiratory tract

[illegible]

## Standard ETT

Pediatric size 5 often used

## MLT (microlaryngoscopy) ETT 'mighty long tube'

Longer than standard ETT

high V, low P cuff

## LaserSafe ETT

- Can bend, not slide well, more difficult to pass

- What size? **Typically size 5**  
Tape to the left (if turning 90)

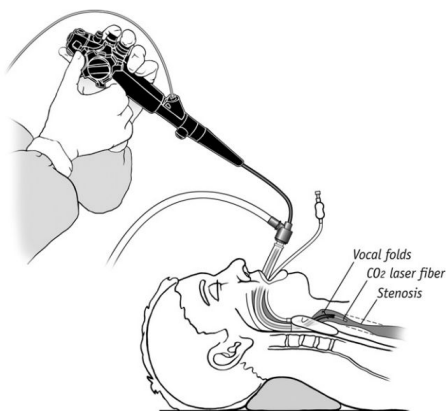




## Airway management and CO<sub>2</sub> laser treatment of subglottic and tracheal stenosis using flexible bronchoscope and laryngeal mask anesthesia

Dinesh K. Chhetri, MD, Jennifer L. Long, MD, PhD

Operative Techniques in Otolaryngology (2011) 22, 131-134



**Figure 1** Operative setup using the laryngeal mask airway anesthesia for CO<sub>2</sub> laser treatment of airway stenosis. The flexible bronchoscope is inserted through the mask device, past the vocal folds, and into the trachea to visualize the stenotic segment. A flexible laser fiber is passed through the bronchoscope's working channel.

### Steps:

1. Cut plastic bars
2. Sedation and placement by anesthesia
3. Attach bronch adapter
4. Topical 4% lido
5. Insert bronch



### Bronch adapter

-OR 10 drawer/ peds  
airway cart  
-call PSST 76479  
-Anesthesia cart  
should have it

What do you need to perform this case?

## OR Request form:

\*\*Print off website and staple to OR slip

### OR Airway Request Form

MRN		Request date	
PATIENT NAME		Request by	
		Contact pager	

OR date/time	
Attending	
OR #	<input type="text"/>

#### Equipment Request:

- ☒ Tooth guard
- ☒ DL tray
- ☒ Microlaryngoscopy tray
- ☒ Zero telescope (5mm)
- ☒ HD camera Storz \_\_ Light cord stz 5mm
- ☒ Suspension \_\_ storz/circle \_\_ pilling/straight \_\_ Suspension mayo and claw
- ☐ Lindholm scope
- ☐ CRE balloon \_\_ Inflation syringe \_\_ gun
  - ☐ size 8-10 (peds), size 10-12, size 13-15 (typical adult), size 16-18, size 18-20
- ☐ Lumenis Laser \_\_ '311' key \_\_ micromanipulator \_\_ microscope
- ☐ Omniguide laser \_\_ Test fiber \_\_ Elevate laser fiber
  - ☐ Elevate handpiece tray
- ☐ LMA/bronch adapter
- ☐ MPU cart water canister (olympus water bottle)
- ☐ Benjamin hollinger/weerda diverticuloscope
- ☐ Peds Airway cart

#### Medications/supplies:

- ☐ Afrin
- ☐ Cocaine solution 4%
- ☐ 4% lidocaine
- ☐ Kenalog 40mg/mL \_\_ 1cc syringe
- ☐ Mitomycin 0.4 mg/mL (needs separate submission form)
- ☐ MADgic stick/atomizer
- ☐ Pledgets ½ x 1 ½
- ☐ Butterfly needle 25g ( yellow, "old style")
- ☐ Voice Gel (Prolaryn)

MPU cart: Request made to MPU directly: Page 94391, call 79659



- ☐ Bronch: 1T (2.2mm) and P180 (2.8mm)
- ☐ Esophagoscope: N190 or N180
- ☐ Adapters
- ☐ Composite cord/universal adapter



# Where is everything? Inventory list:

Directory  
MPU: call 79659, page: 94391  
SPD/sterile processing: 76472  
PSST/anesthesia tech: 76479  
MPU: page 94391, call 79659

Directory  
MPU: call 79659, page: 94391  
SPD/sterile processing: 76472  
PSST/anesthesia tech: 76479  
MPU: page 94391, call 79659

## Inventory

Item	contents/picture	Location of items
DL tray	Dedo, ant com scope Light cord (blue, for dedo) Macro instruments Rigid esoph	Core A
Lindholm scope		Core A
Micro laryngoscopy tray	Micro instruments	SPD (call 76472)
Zero telescope		SPD (call 76472)
HD camera		SPD (call 76472) Light cord (grey): SPD
Suspension		All in equipment room across from OR 11: -storz/Circle: (also core C) -pilling/straight: -Suspension mayo and claw
Tooth guard		Head and Neck supply cart outside OR 10
MADgic stick/atomizer		Call PSST/ anesthesia cart
Butterfly needle 25g (with yellow, 'old style')		H&N supply cart outside OR10
CRE balloon	Sizes: <b>8-10 (typical peds),</b> <b>10-12, 13-15 vs 16-18</b> <b>(typical adult), 18-20</b> 	size 8-10 in core C Size 10-18: H&N supply cart outside OR 10. inflation syringe: H&N supply cart outside OR 10 Gun: OR front desk
Lumenis laser		Laser: room 2558 '311' Key: OR front desk cabinet Micromanipulator: OR front desk, or across hall
Omniguide laser		Laser: room 2558 Key code: '0000' Test fiber: on top of laser 'Elevate' Fiber: outside OR 10 'Elevate' Handpiece tray: SPD

LMA adapter		OR 10 drawer/ peds airway cart/ call PSST 76479
MPU cart water canister		SPD
MPU Cart	Flexible bronchs Flexible <del>esophagosopes</del> adapters Composite cord	Located behind PTU on 2nd floor Page 94391, call 79659
Peds airway cart		Outside OR 24
Benjamin hollinger/ weerd diverticuloscope		SPD
Voice Gel (Prolaryn)		Implant room (across from room 24) If you need extra outside OR 10
Mitomycin		Paper form needed to submit to OR pharmacy

MPU cart

# How do I get the MPU cart?

**Medical Procedure Unit: located behind PTU on 2nd floor**

After hours:

Page: 94391

Call: 79659

**Ask For:**

MPU cart, scopes, adapters, composite cord/universal adapter for screen

1. Request form for scopes is on each OR computer
2. After hours: Call/page the oncall MPU tech to request cart
3. Don't forget adapters
4. Pick up from MPU before the case



# Flexible Bronchoscope

## SCOPE REQUEST

MRN:

NAME:

Physician: DR. CHHETRI.D.

OR#

Scope Requested: Check all that apply

EGD ☐ Colon ☐ Bronch ☒ EBUS ☐

Nurse Requesting:

Date and Time Needed:

Special Equipment or Comments:

1T AND P180 FLEX BRONCH WITH LONG COMPOSITE CABLE.

Please Fax to: (310)267-3596

No later than 5pm one business day prior.

**PLACE FAXED SCOPE REQUEST AT THE MOR FRONT DESK**

MPU Use Only:

Tech or nurse filling request:

Date and time filled:

*Ask for:*

**P180:** 2.2mm diameter (can pass laser fiber, but not dilator)

**1T:** 2.8mm diameter working channel (able to put CRE balloon dilator/ flexible laser through this)

# Flexible Esophagoscope

## Aka 'The Noodle'

### SCOPE REQUEST

MRN:

NAME:

Physician: DR. CHHETRI, D.

OR#

Scope Requested: Check all that apply

EGD ☒ Colon ☐ Bronch ☐ EBUS ☐

Nurse Requesting:

Date and Time Needed:

Special Equipment or Comments:

N180 OR N190 "NOODLE SCOPE" WITH LONG COMPOSITE CABLE

Please Fax to: (310)267-3596

No later than 5pm one business day prior.

**PLACE FAXED SCOPE REQUEST AT THE MOR FRONT DESK**

MPU Use Only:

Tech or nurse filling request:

Date and time filled:

*Ask for:*

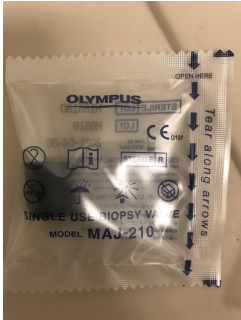
**N190 scope:** First choice

**N180 scope:** Second choice (older)





# Accessories to request



Biopsy valve



Suction valve

Bronch adapters



Composite cord/  
Universal adapter cord



Esoph adapter



Water canister  
(comes from OR,  
call SPD 76472)

# Lasers

# Laser use

**Do not forget:**

CO2 '10600nm' goggles and signs (OR front desk)

Laser time out

Saline soaked blue towels

Turn down O2 to room air before use

# Omniguide



Room 2558 before OR 8



Test fiber  
Code is '0000'



Fibers: Outside OR 10  
'Elevate' fiber

# Omniguide

## 1. TURN ON

TROUBLE SHOOT TIP:  
MAKE SURE EMERGENCY STOP BUTTON IS  
NOT PUSHED IN



# OmniGuide

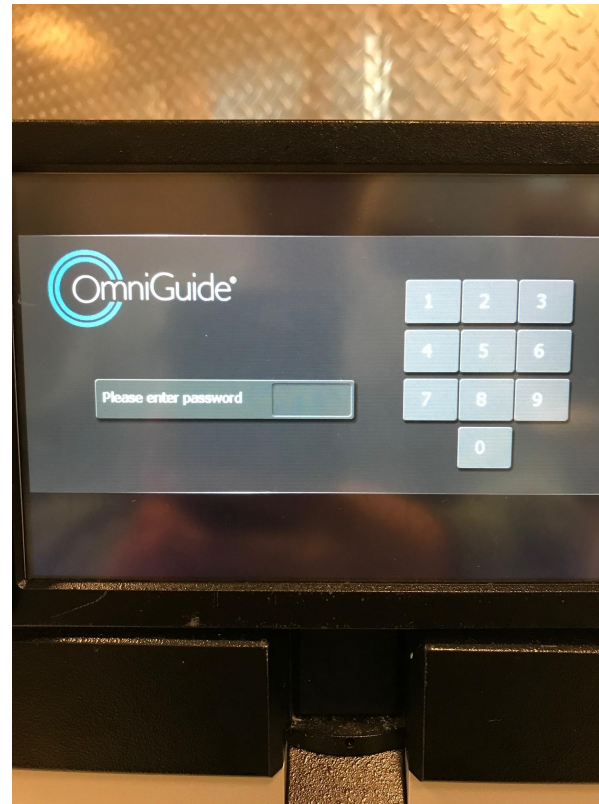
1. TURN ON
2. ATTACH TEST FIBER

TROUBLE SHOOT TIP:  
TEST FIBER IS USUALLY AN EXPIRED FIBER,  
LOCATED ON TOP OF THE LASER ITSELF



# Omniguide

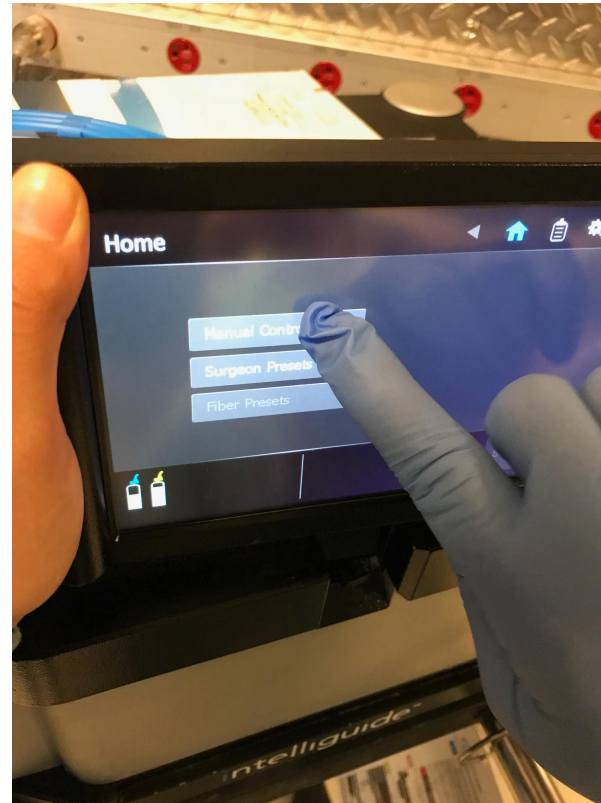
1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'





# Omniguide

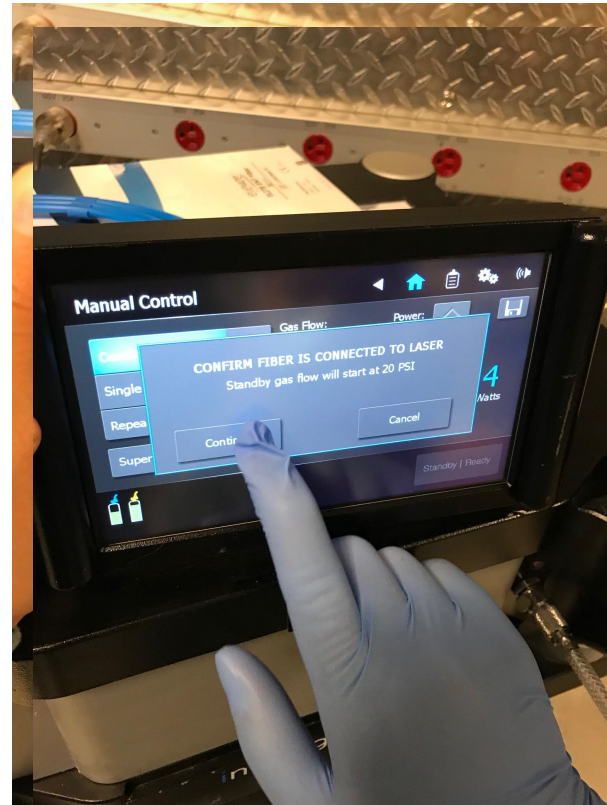
1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. **SELECT MANUAL CONTROL**





# Omniguide

1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. **CONFIRM FIBER IS ATTACHED**



# Omniguide

1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. CONFIRM FIBER IS ATTACHED
6. **EVAL TANK ICON AND TURN ON HELIUM**



## TROUBLE SHOOT TIP:

- CHOOSE WHICHEVER HAS AT LEAST 3 BARS
- IF NEED NEW TANK CALL PSST 76479



# Omniguide

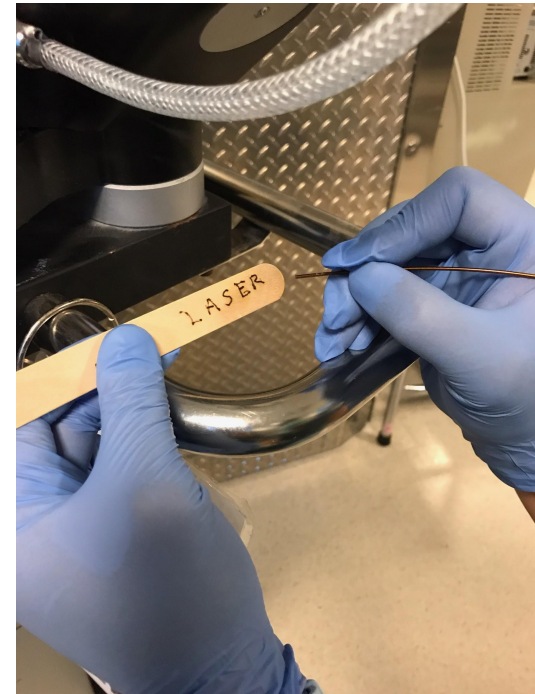
1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. CONFIRM FIBER IS ATTACHED
6. EVAL TANK ICON AND TURN ON HELIUM
7. **CONFIRM GAS IS FLOWING (70 PSI): USE SALINE OR SKIN TO CHECK**

TROUBLE SHOOT TIP:

- DIP TIP IN SALINE AND SEE IF BUBBLING
- HOLD TO SKIN TO FEEL FOR AIR

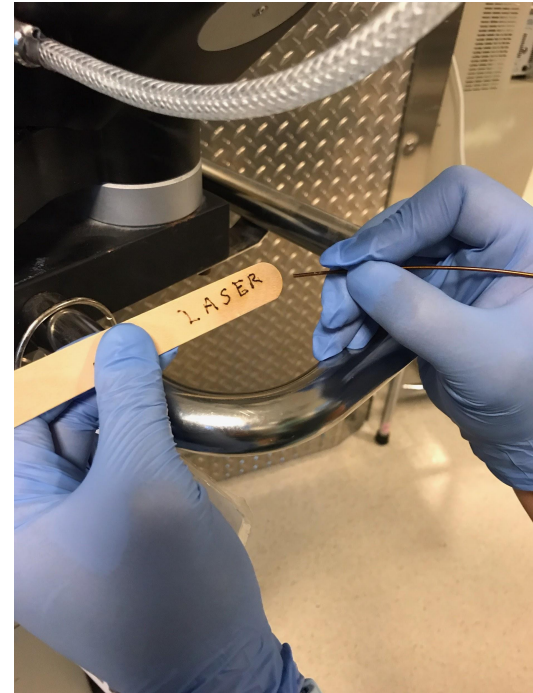
# Omniguide

1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. CONFIRM FIBER IS ATTACHED
6. EVAL TANK ICON AND TURN ON HELIUM
7. CONFIRM GAS IS FLOWING (70 PSI)
8. TEST LASER ON POPSICLE STICK (continuous, 4-8 Watts)



# Omniguide

1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. CONFIRM FIBER IS ATTACHED
6. EVAL TANK ICON AND TURN ON HELIUM
7. CONFIRM GAS IS FLOWING (70 PSI)
8. TEST LASER ON POPSICLE STICK
9. **PUT LASER ON STANDBY**



# Omniguide

1. TURN ON
2. ATTACH TEST FIBER
3. ENTER PASSWORD '0000'
4. SELECT MANUAL CONTROL
5. CONFIRM FIBER IS ATTACHED
6. EVAL TANK ICON AND TURN ON HELIUM
7. CONFIRM GAS IS FLOWING (70 PSI)
8. TEST LASER ON POPSICLE STICK
9. PUT LASER ON STANDBY
10. ATTACH 'ELEVATE' FIBER

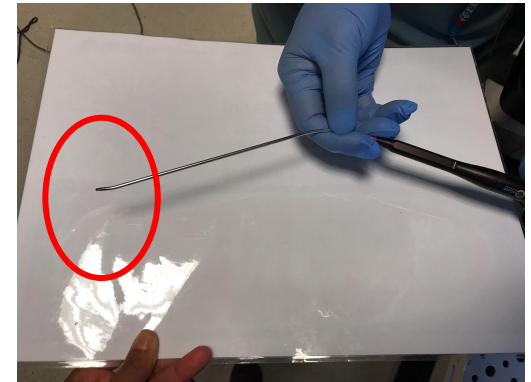
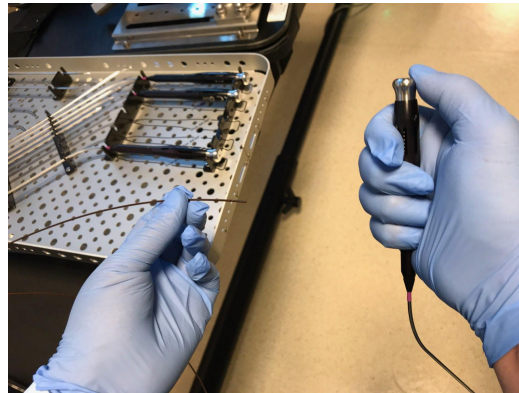
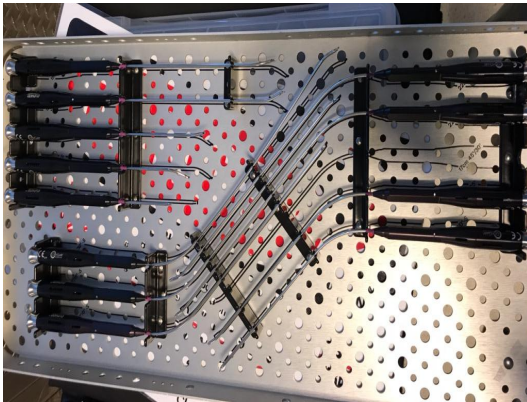
READY FOR USE!





# Omniguide: ‘Elevate’ Hand-held Tray

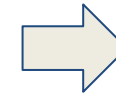
1. Ask for the “Elevate Omniguide Instrument Tray”
2. Push down on the top of the instrument
3. Advance the wire until you see a copper color at the tip



# Lumenis i.e. 'Line of sight'



Room 2558 before OR 8



★ **Micromanipulator:** Under OR charge desk or in closet across from charge desk

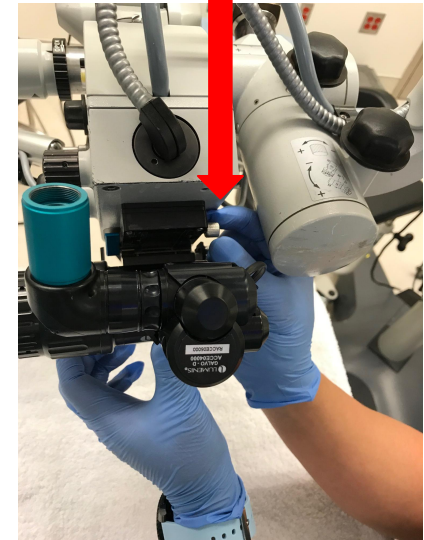
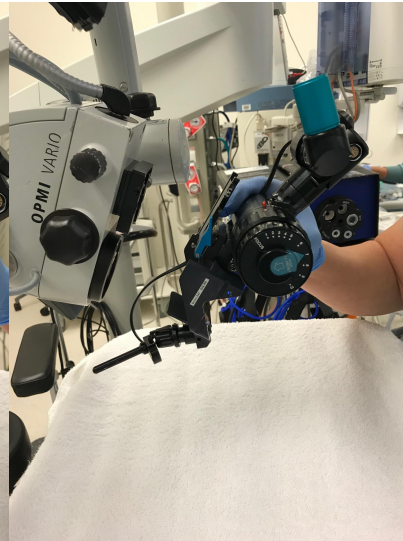
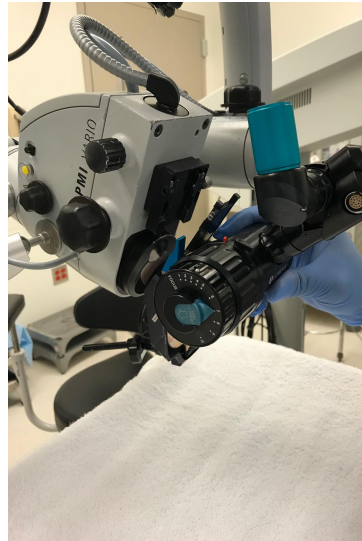
★ **'311' Key:** OR front desk



# Lumenis

1. BALANCE SCOPE (also at the end)
2. ATTACH MICROMANIPULATOR

TIGHTEN

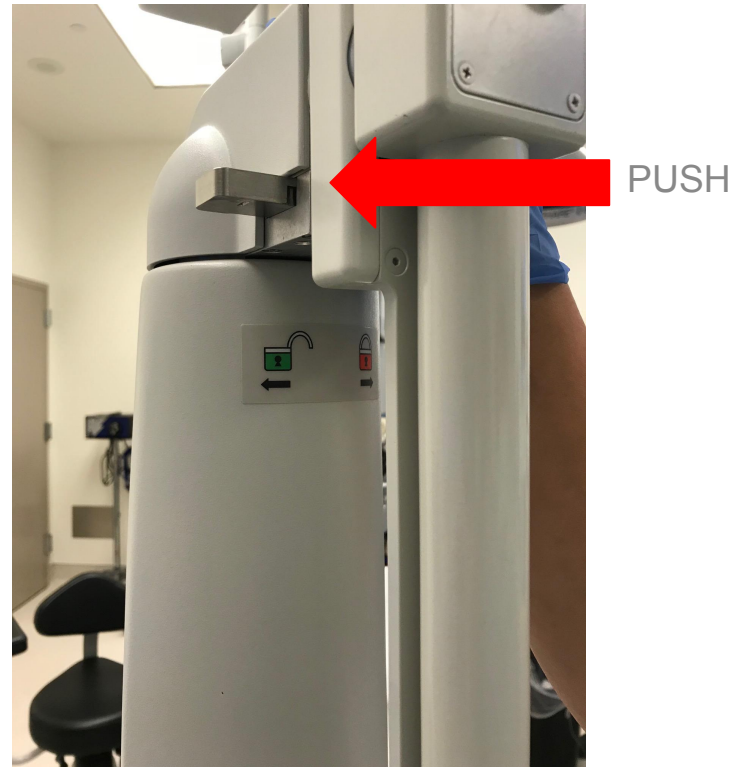


Orientation

# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER

1. UNLOCK LASER



# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER

1. UNLOCK LASER
2. ORIENT LASER ARM



UP STICKER UP

# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER

1. UNLOCK LASER
2. ORIENT LASER ARM
3. LASER ATTACHMENTS

1. **ATTACH ARM TO BLUE CYLINDER**



# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER

1. UNLOCK LASER
2. ORIENT LASER ARM
3. LASER ATTACHMENTS

1. ATTACH ARM TO BLUE CYLINDER
2. **DRAPE BLACK CORD AND ATTACH**



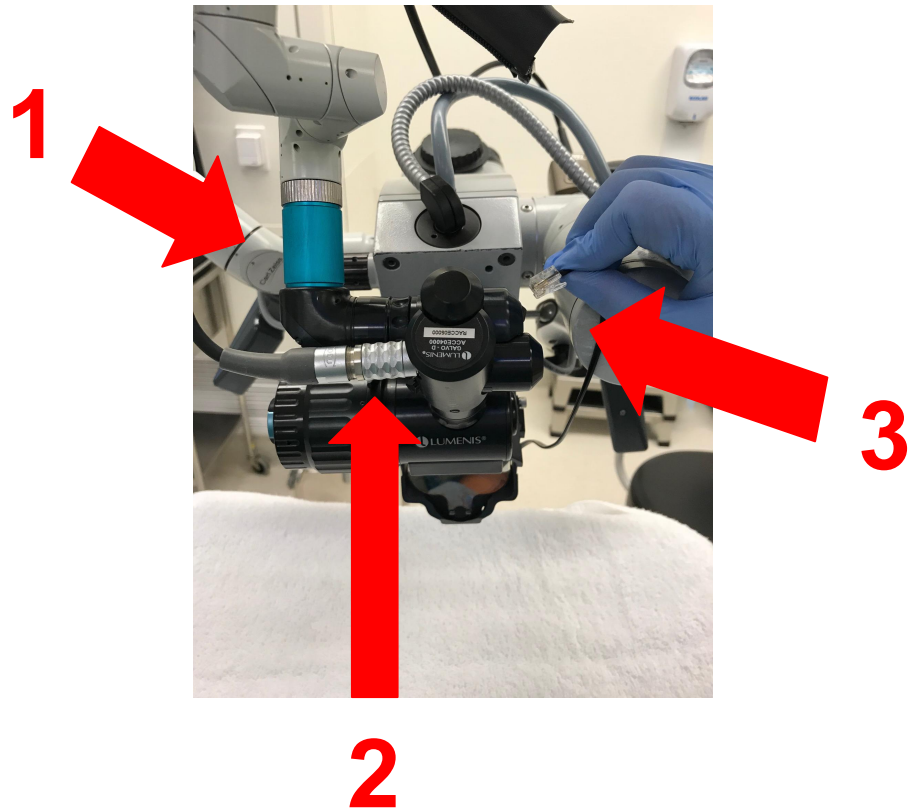


# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER

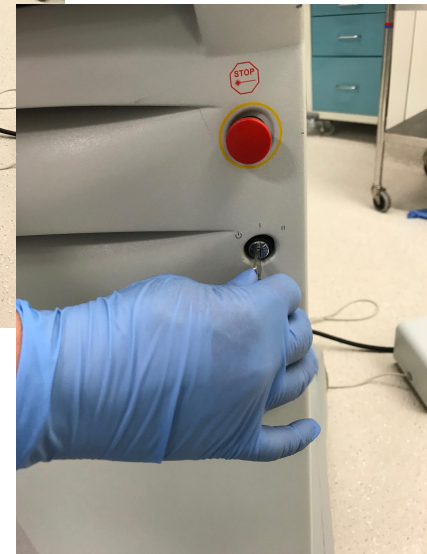
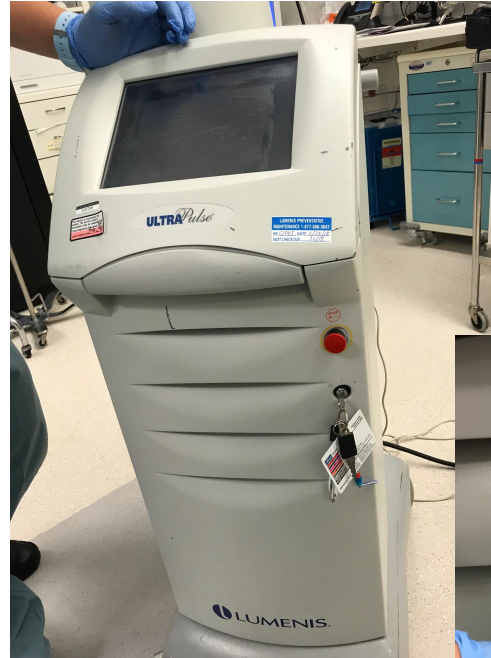
1. UNLOCK LASER
2. ORIENT LASER ARM
3. LASER ATTACHMENTS

1. ATTACH ARM TO BLUE CYLINDER
2. DRAPE BLACK CORD AND ATTACH
3. **ATTACH TELEPHONE CORD**



# Lumenis

1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER
4. INSERT '311' Key



“311” KEY: LOCATED AT OR FRONT DESK

# Lumenis

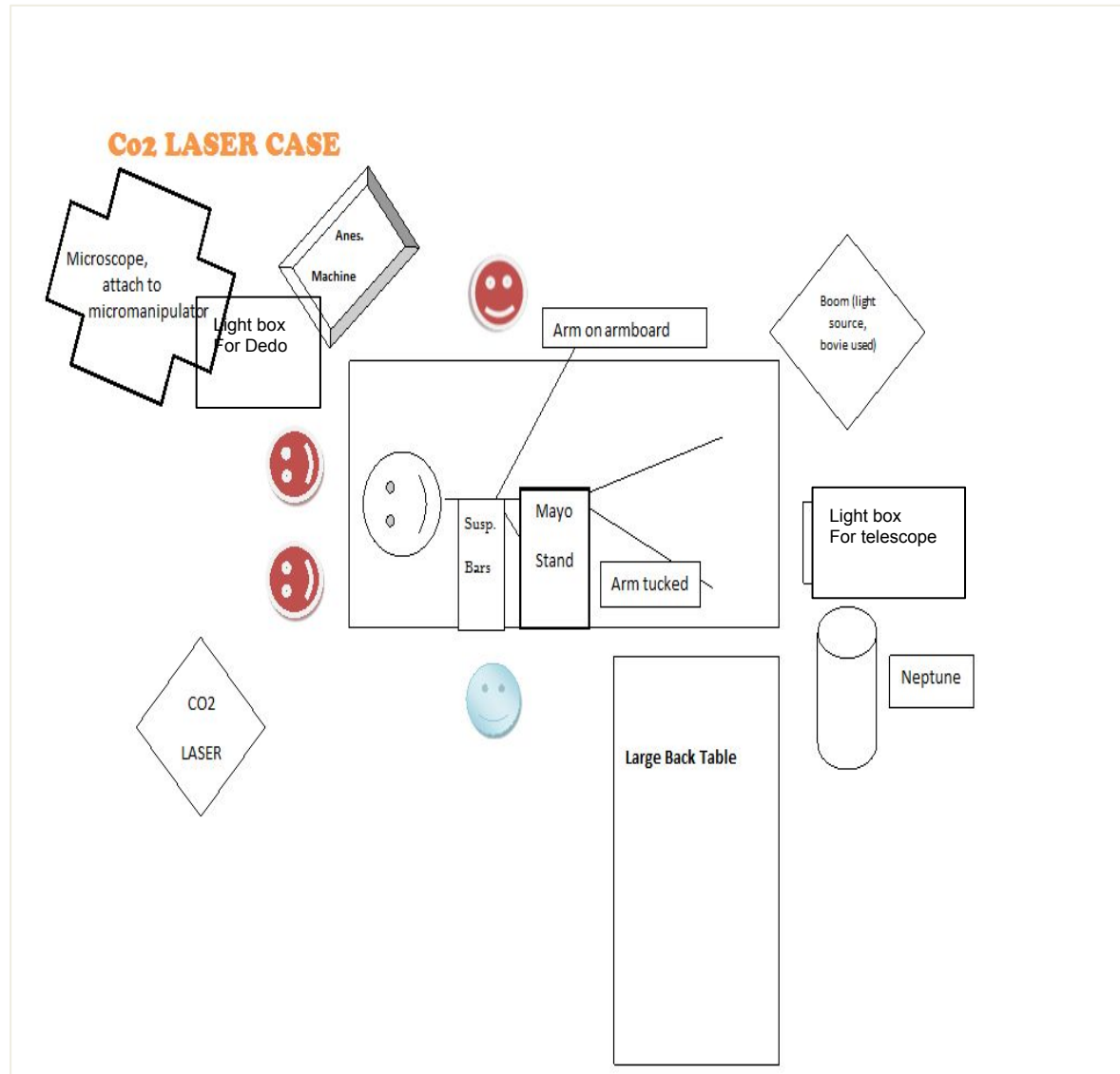
1. BALANCE SCOPE
2. ATTACH MICROMANIPULATOR
3. ATTACH LASER
  - a. UNLOCK LASER
  - b. ORIENT LASER ARM
    - i. Blue cylinder
    - ii. Black cord
    - iii. Telephone cord
4. INSERT '311' Key
5. TURN LASER ON

READY TO USE!





# Room Set-up



Thank You