

# Risks and Safety Instructions

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#### How safe is it to use a laser?







#### What is the intended use of a laser?







The use of laser devices is absolutely safe!

Only follow the...

7 golden rules for laser safety





#### 1. Set laser to standby mode

• Applies whenever the unit is not being used;

this prevents an accidental activation of the laser beam.

In case of emergency, press the red emergency stop
switch



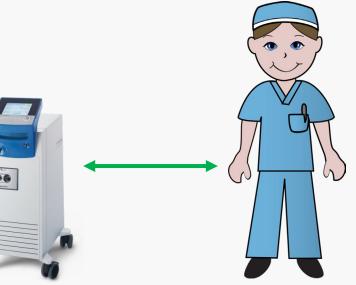


#### 2. Keep your distance!

Applies to anybody not directly working with the laser; minimizes risks

**IMPORTANT**: The laser device should stand as close as possible by the operating table  $\rightarrow$  no risk of tripping







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#### 3. Wear protective goggles in the entire "laser area"!

- Be sure to use suitable protective goggles! Mind the respective wavelength!
- "Laser area": marked area, in which the value of the permitted maximum radiation is exceeded













#### 4. Never use the laser as a pointer!

- Your colleagues are not supposed to be a target (risk potential).
- <u>Always remember</u>: Laser radiation is strongly collimated;

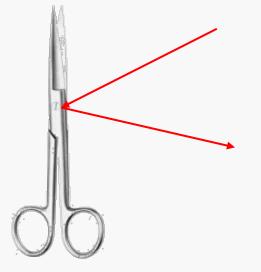
the laser beam's diameter hardly increases even over long distances.





#### 5. Keep laser beam under control!

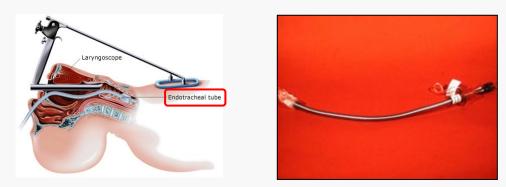
- Don't point it at instruments or other reflecting objects!
- Recommendation: Use instruments with a matt surface!





#### 6. Don't point the laser at flammable materials!

• Especially flammable tracheal tubes.







#### 7. Provide information and training!

- Detailed, practical instruction through manufacturer (documentation in device booklet of manufacturer)
- Basic laser courses (for example offered by special (laser) institutes)
- Specialized laser courses (according to medical field)
- ightarrow " Every car driver needs a license"



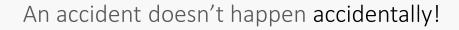


#### The German Accident Prevention Regulations (OStrV and TROS Laser)

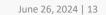
contains the following requirements that must be observed when operating a laser:

- Before using a laser for the first time, both the Employers' Liability Insurance Association and the federal state's Health and Safety at Work authority **must be notified** of its use.
- A "laser safety representative" must be appointed.
- During laser operation, the so-called "laser area" must be separated off and marked accordingly.
- All persons present must have been duly **instructed** about proper behavior and must **use the required protective equipment.**
- Radiation hazards due to reflected or scattered laser radiation must be avoided; for this reason, suitable surgical instruments (e.g. with a matt surface) must be used.
- Use warning lamps, low flammability materials and laser safety tubes and probes.
  - ightarrow National instructions/ regulations regarding the use of laser

### Risks and Safety Instructions - Conclusion



It is <u>never</u> the fault of the patient!









# Thank you for your attention. Let's connect!



## @klsmartin

