

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



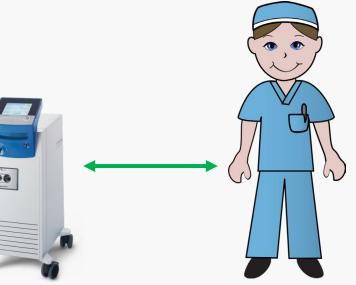


2. Keep your distance!

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;

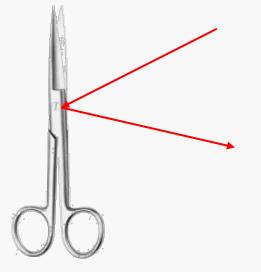
the laser beam's diameter hardly increases even over long distances.





5. Keep laser beam under control!

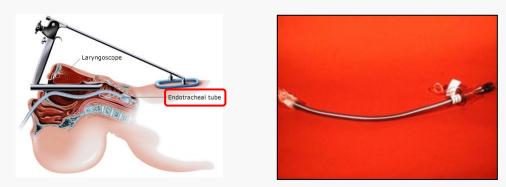
- Don't point it at instruments or other reflecting objects!
- Recommendation: Use instruments with a matt surface!





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"



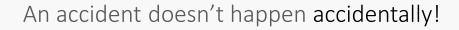


The German Accident Prevention Regulations (OStrV and TROS Laser)

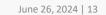
contains the following requirements that must be observed when operating a laser:

- 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

