



Fire Safety Toolkit

**Thank you downloading the
Jackson Medical Surgical Fire Safety Toolkit!**

These posters are meant to be placed in operating rooms and written on to indicate pertinent surgical fire safety information, such as hazards and the location and type of fire extinguishers. These posters are reminders of the seriousness of surgical fires, common risks, prevention, and mitigation. They are not a replacement for proper staff training and implementation of fire prevention best practices.

If you would like additional information or support, please contact us at **info@jackson-medical.com**.

CHECKLIST



Assessing Fire Risk & Taking Proper Precautions

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High Risk

Circulating Nurse

- Verify fire triangle, including verbal confirmation of the oxygen percentage
- Ensure appropriate draping techniques to minimize oxygen concentration under the drapes (i.e. tenting, incise drape)
- Minimize ESU setting
- Assess that enough time has been allowed for fumes of alcohol-based prep solutions to dissipate (>3 min)
- Ensure that a basin of sterile saline and bulb syringe are available for fire suppression
- Activate fire alarm when appropriate

Anesthesia Providers

- Ensure that a syringe full of saline is in reach for procedures conducted within the oral cavity
- Document oxygen concentrations and flows
- Use the MAC circuit for oxygen initially at FiO₂ of .30 using fresh gas flows of at least 12 L

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Low Risk, Potential to Become High Risk

- Standard fire safety precautions are followed w/ the potential to convert to high-risk precautions
- Observe alcohol-based prep drying times (minimum of 3 min)
- Protect heat sources (e.g. using the ESU pencil holster)
- Use standard draping procedure

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Low Risk

- Standard fire safety precautions are followed

CHECKLIST



Assessing Fire Risk & Taking Proper Precautions



Was alcohol-based skin antiseptic or other flammable solution used preoperatively?

YES **NO**



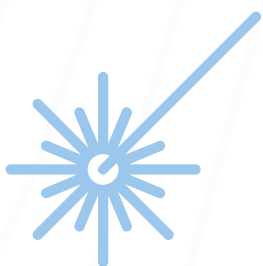
Is the location of the operation being performed above the xiphoid process or in the oropharynx?

YES **NO**



Is the patient receiving oxygen or nitrous oxide?

YES **NO**



Is an ignition source (fiber-optic light, electrosurgical unit, laser, cutter/burr) being used?

YES **NO**



Have you done everything possible to mitigate fire risk?

YES **NO**

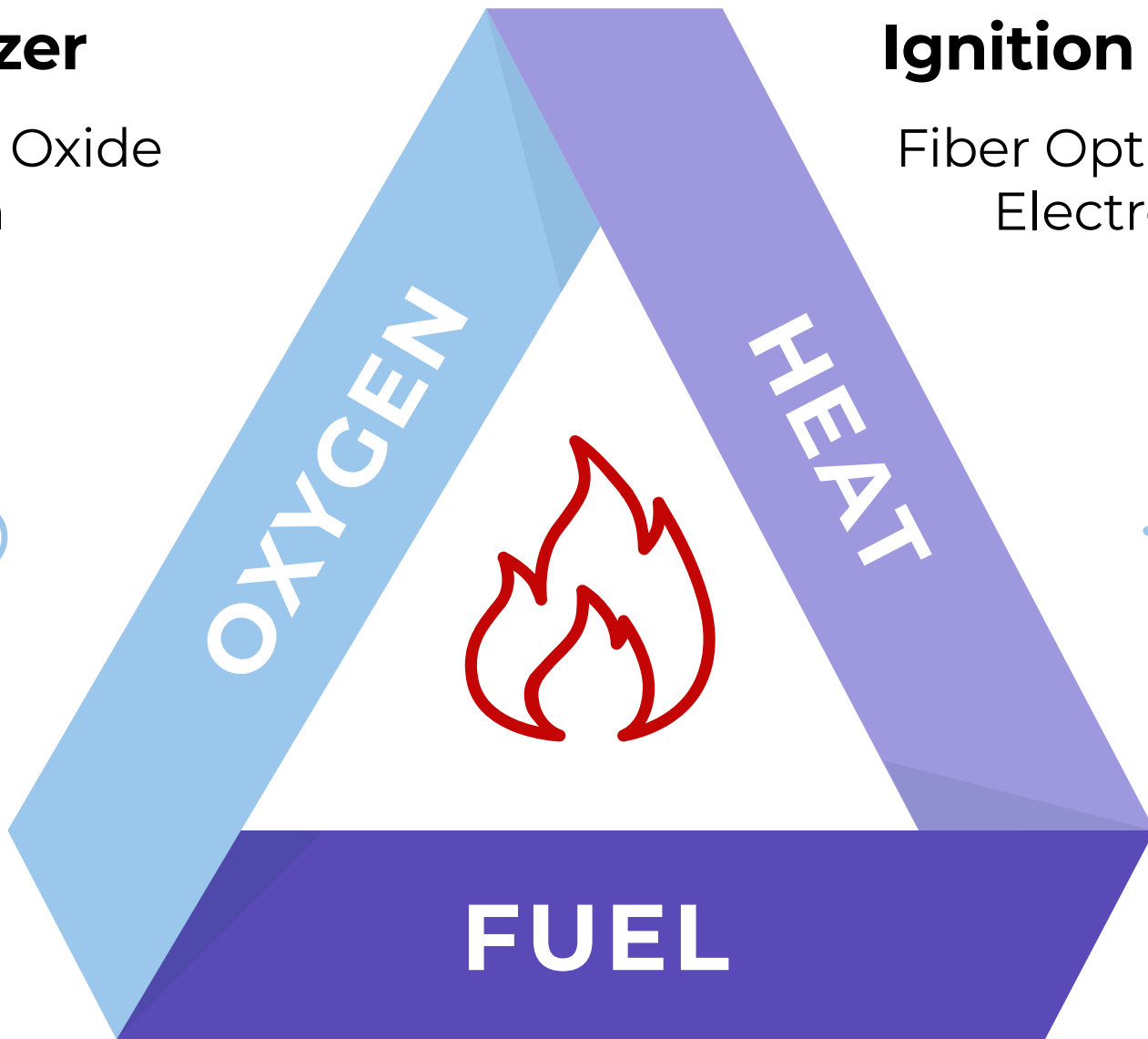
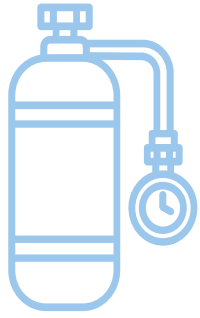


DON'T LET IT BURN

Top Fire Risks in Operating Rooms

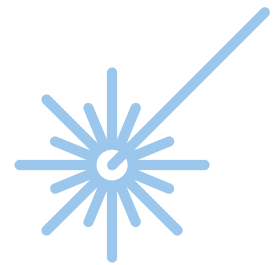
Oxydizer

Nitrous Oxide
Oxygen



Ignition Source

Fiber Optic Cables
Electrosurgery
Lasers



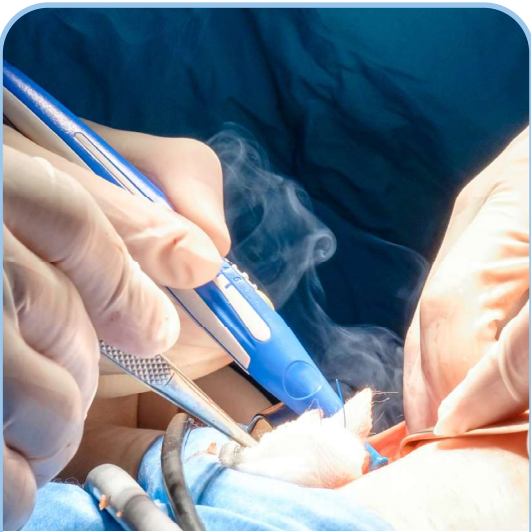
Fuel Source

Flammable Prep Solutions



DON'T LET IT BURN

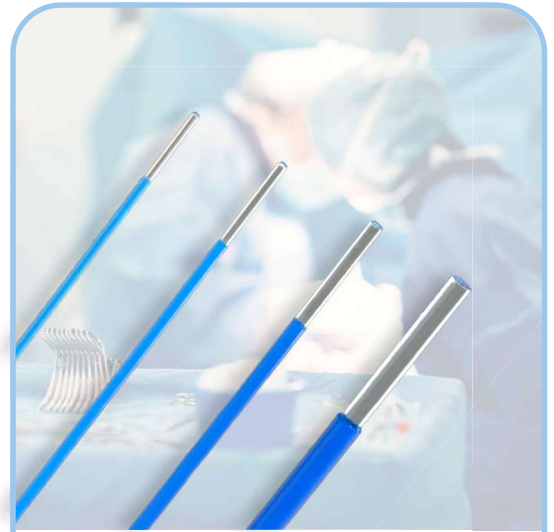
Top Fire Risks in Operating Rooms



Electrosurgery
Units



Fiber Optic
Light Cables



Lasers



Flammable
Prep Solutions



Surgical Drapes



ET Tubes



Fire Extinguisher

Location:

Type:

TAKE CONTROL OF YOUR OR

Fire Safety is Everyone's Responsibility



What to Do

- ✓ Activate the fire alarm when appropriate
- ✓ Encourage use of electrosurgical pencil holster
- ✓ Place energy on standby when not in use
- ✓ Place a safety cover on light cables
- ✓ Make sure you know your evacuation plan

What NOT to Do

- ✗ Proceed before the TIME OUT
- ✗ Allow oxygen to pool under drapes
- ✗ Use more oxygen than necessary
- ✗ Rest light cables on drapes
- ✗ Proceed without ample alcohol-based prep drying time (3+ min)



Fire Extinguisher

Location:
Type:

Time Out!

Everyone's Responsibility on the Road to Zero Harm



The time out is a critical step in surgical safety. A time out should be performed before every operation. Fire safety in the operating room is very important due to the hazards present.

- Identify all team members by name and role
- Confirm patient, site, and procedure Identify critical events, duration of operation, anticipated blood loss
- Identify patient-specific concerns
- Has antibiotic been given in the last 60 minutes?
- Essential imaging displayed?
- Has prep solution had time to dry (3 mins)?
- What is the fire risk and are fire risk mitigation solutions in place?
- Does everyone in OR know where fire extinguisher is and exit routes in case of fire?



Fire Extinguisher

Location:

Type: