FiOR

SMART OR DEVICE
AUTOMATING THE FUTURE OF OPERATING ROOM SAFETY

BACKGROUND

Cauterizers cut tissue and are a heat source during surgery

When supplied oxygen is high, cautery increases fire risk

Over 600 OR fires occur every year across the United States

WHEN SHOULD FiOR BE USED?
FiOR can be implemented in any operating room where anesthesia and cautery are used frequently. Device stays active throughout procedures

WHAT DOES FiOR DO?
FiOR automates OR safety

High oxygen supply detected in presence of cautery
FiOR shuts off cautertizer and notifies surgeon
Anesthesiologist reduces O2 to safe level

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68% of OR fires are caused by activating surgical heating elements in the presence of high O2 levels

PROTOTYPE AND VISION

Current Prototype

FiOR Module

Electrosurgical Unit
Connection to Cauterizer

Autonomous
Reliable
Minimal
Affordable