Among SRNAs at UPenn, will an interactive simulation-based education training improve SRNA knowledge of operating room (OR) fire risk assessment and management?

Participants:
Practicing Student Registered Nurse Anesthetists (n=15) (39% of SRNAs practicing at the hospital)
- Included first, second, and third year students

Setting:
Single Hospital:
- Non-profit
- Serves the Philadelphia area
- Up to 200 surgical cases per day

Intervention:
Simulation video recording/development and incorporated into an education module made by the project leads

Primary Outcome:
The anesthesia providers’ knowledge of OR fire preparedness, specifically risk mitigation and OR fire management.

Findings
- The students demonstrated adequate baseline knowledge, overall mean scores did not change when comparing pre- and post-test. Combined mean scores: pre-test 88.8%, post-test 88.5%.
- Knowledge in specific topic areas improved: communication, fire risk levels, oxidizer, ignition sources, and proper steps to respond to an active surgical fire.
- A qualitative analysis demonstrated the participants agreed the module helped them better understand the topic and clarified roles in the event of an OR fire.

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