

Prospective descriptive observational study: Multidisciplinary in-situ simulation highlighting the role of anesthesia technicians

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Background: Silent machine alerts reveal the critical safety role of anesthesia technicians, yet they are often excluded from crisis simulations.

Problem: silent alert → ? cause → technician identified the fire hazard alert → highlighting key role.

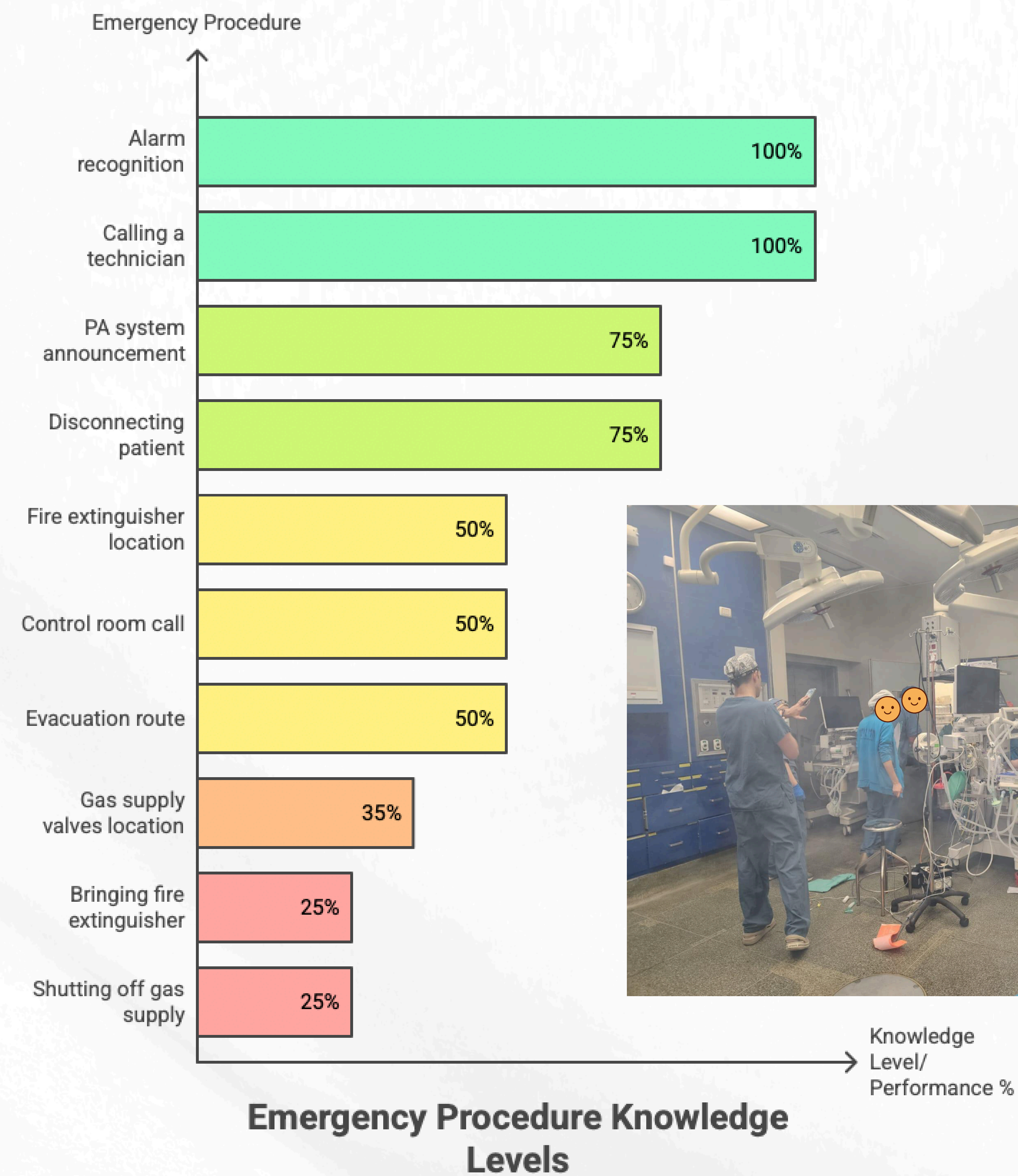
Methods:

- In-situ simulation: Response to silent “cooling fan failure” alert (fire risk).
- Tested on OR teams.
- Expected actions: Summon technician, disconnect patient, follow ASA fire protocol.

Results:

- All four teams recognized alert & called technician; 25% shut off gas, one team followed ASA fire protocol.
- All technicians identified alert & advised FiO₂ reduction; few conveyed urgency/fire risk.

In-situ OR simulation with multidisciplinary teams highlighted the essential role of anesthesia technicians as leaders, managing machine alerts



Conclusion:

This OR simulation positions anesthesia technicians as essential crisis leaders.

Their expertise maybe overlooked → Doctors rely on them to voice their critical concerns.

Dedicated training required to strengthen leadership and speaking-up skills.

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