

Audit on use of Standard Monitoring during Anesthesia according to Association of Anesthetists Guidelines of 2021

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BACKGROUND

Monitoring during anesthesia minimizes perioperative complications by detecting physiological disturbances early. The **Association of Anesthetists (AoA) Guidelines 2021** recommend the following minimum monitoring standards:

1. Pulse oximeter with plethysmograph
2. Electrocardiogram (ECG)
3. Non-invasive blood pressure (NIBP)
4. Temperature
5. Inspired and expired oxygen concentration
6. Waveform capnography
7. Quantitative neuromuscular

OBJECTIVES

To assess compliance with AoA 2021 standards of monitoring among anaesthetized patients in our operating rooms.

METHODOLOGY

Type: Prospective audit

Period 1 (Initial Audit): 1–28 February 2025

Re-audit: 1–31 August 2025

Inclusion criteria: Surgical procedures lasting \geq 30 minutes

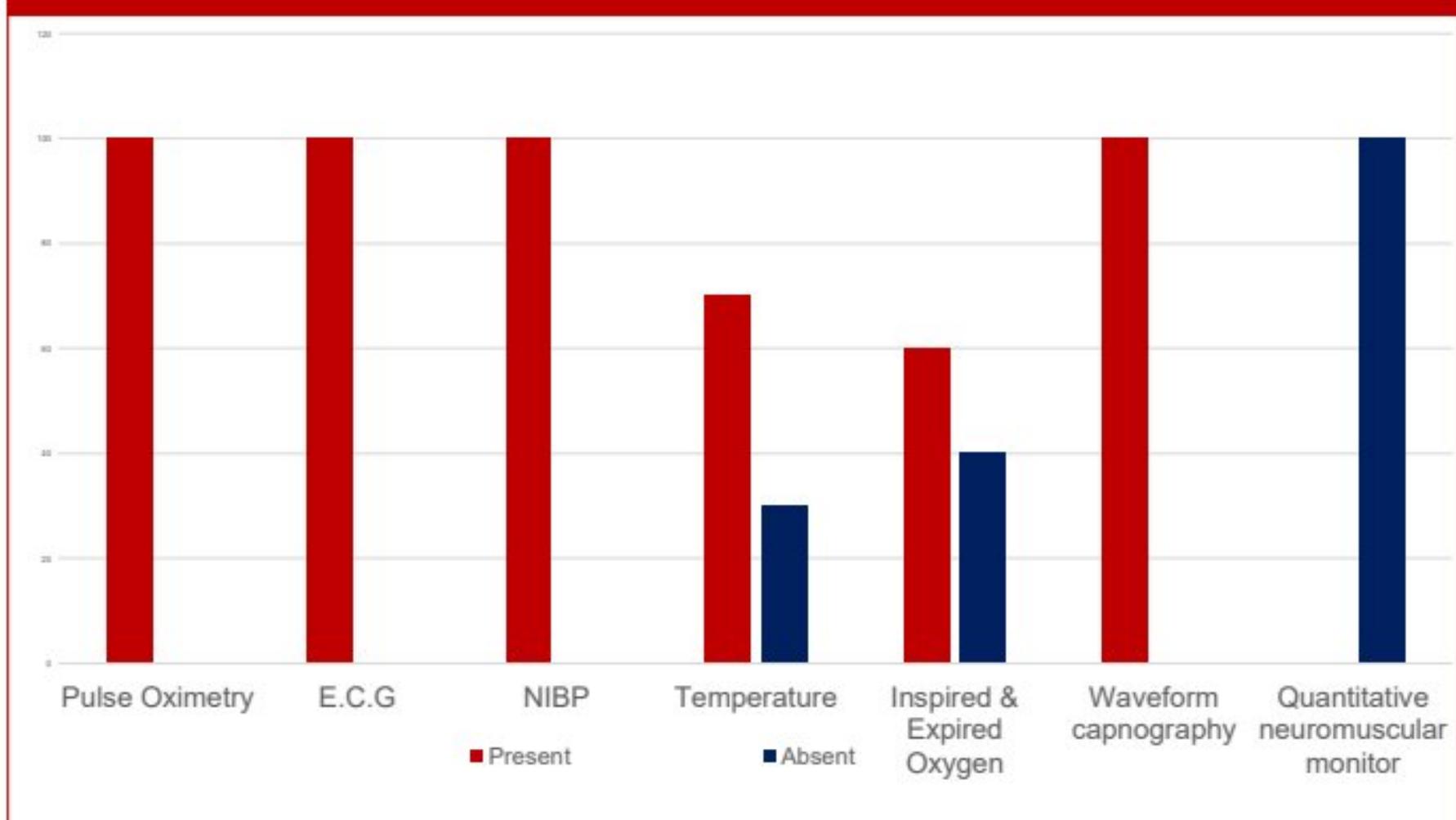
Process:

After induction, monitoring parameters were documented on a predesigned performa.

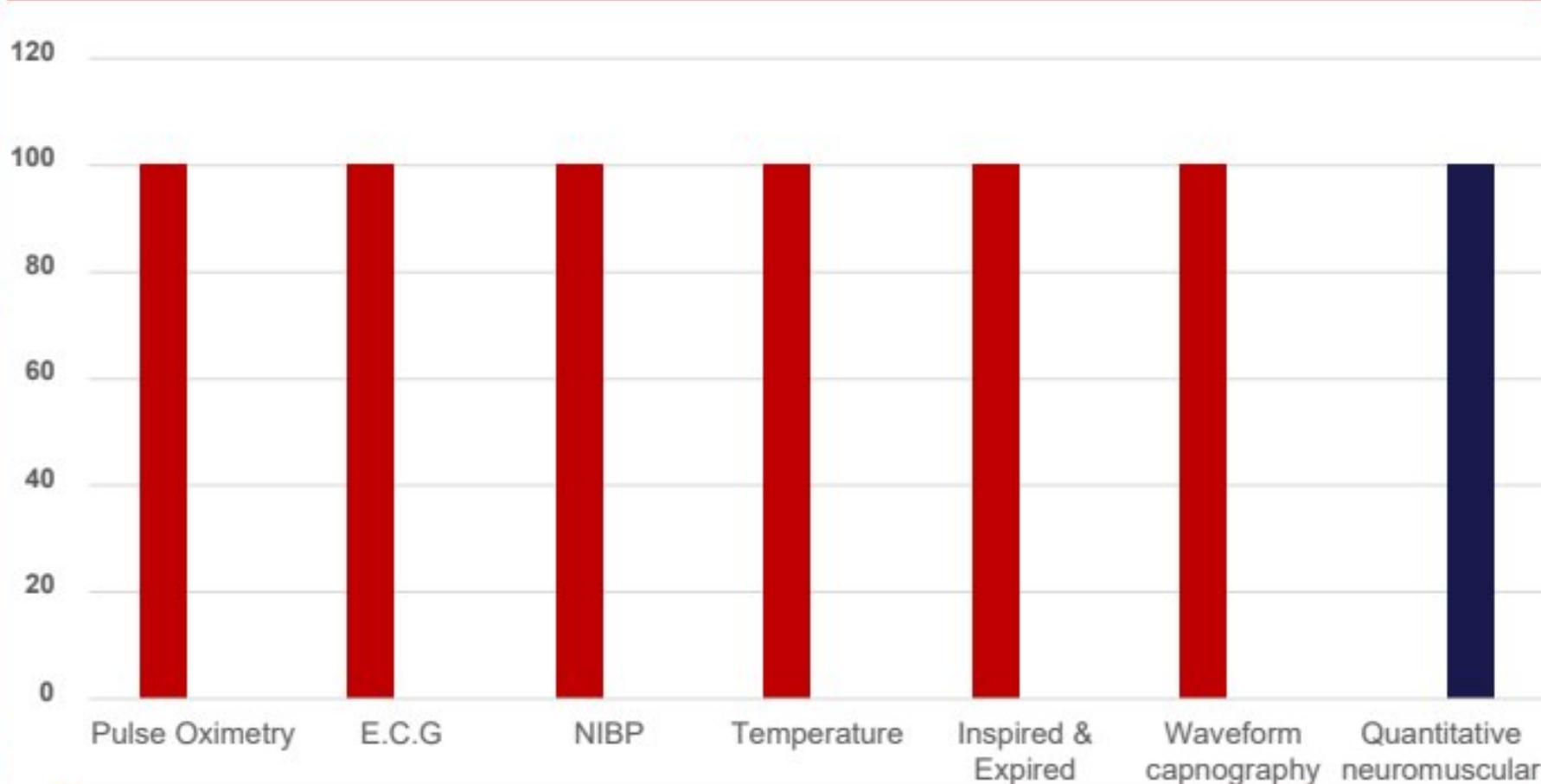
Data were compiled in Microsoft Excel and analyzed for compliance with AoA 2021 guidelines.

Re-audit conducted after educational interventions.

INITIAL AUDIT RESULT



RE-AUDIT RESULTS



CONCLUSION

The initial audit revealed incomplete compliance with AoA 2021 monitoring standards. After structured education and reinforcement of guidelines, compliance improved significantly in the re-audit. Continuous education and regular re-audits are essential to maintain standards of safe anaesthetic practice.

Recommendations

1. Regular training sessions for anesthesia residents, and technicians.
2. Periodic re-audits to ensure sustained compliance.
3. Encourage availability and adoption of **quantitative neuromuscular block monitoring** for all general anesthesia cases.



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