The GLOW Trial: implementing Guidelines for hypothermia prevention with Local adaptation to keep periOperative patients Warm.

ACTRN12623000814673

Status	RECRUITING
Sponsor	University of the Sunshine Coast
Enrollment	12,732 participants

Plain Language Summary

It might come as a surprise, but a significant number of patients who have surgery end up with a lower-than-normal body temperature — a condition called perioperative hypothermia. This happens when the body loses heat during the procedure and isn't properly monitored or warmed. The consequences are serious: more wound infections, greater blood loss, longer hospital stays, and patient discomfort. Yet in Australia, temperature is only monitored in about 20% of surgical procedures.

The GLOW Trial is evaluating a practical, hospital-wide implementation strategy to improve how Australian hospitals monitor and maintain body temperature during surgery. Rather than testing a new drug or device, this study is focused on changing clinical practice — implementing evidence-based guidelines consistently across multiple hospital sites.

You may be eligible as a patient if you are aged 16 or older and are having elective or emergency surgery under general or neuraxial anaesthesia. Clinicians working in perioperative departments are also invited to contribute to implementation surveys. Patients having only local anaesthesia, cardiac surgery, or obstetric surgery are not included in the main dataset.

Key Eligibility Criteria

Inclusion (2)

- Patient participants: Adults aged 16yrs or older having undergone general or neuraxial, elective or emergency surgery at the hospital site during the site's control or intervention period will be eligible for inclusion. A random sample of patients undergoing elective surgery will be approached prior to surgery to participate in the collection of data for patient-reported outcomes (Quality of Life, self-reported wound healing) in addition to clinical outcomes collected for the main study.
- Clinicians: For the implementation outcomes, clinicians will be included in implementation evaluation surveys if they have been involved in the Site Implementation Team (including registered or enrolled nurses, anaesthetic technicians, surgical and anaesthetic medical personnel). In addition, any clinician working in the perioperative department including registered or enrolled nurses, anaesthetic technicians, surgical and anaesthetic medical personnel) during the study period will be eligible to complete the surveys assessing Organisational Readiness for Implementation in addition to evaluation of the recommendations (feasibility, acceptability).

Exclusion (2)

- Patient participants
- Patients receiving planned therapeutic hypothermia or undergoing local anaesthesia only, or local anaesthesia with sedation only, or sedation only will be excluded. Patients who are transferred directly to the Intensive Care Unit from operating theatres and bypass the Post Anaesthetic Care Unit will be excluded from data collection. Patients who are who are undergoing cardiac or obstetric surgery, will be excluded from data collection.

Locations (5 total)

Royal Brisbane & Womens Hospital - Herston, QLD, Australia
Princess Alexandra Hospital - Woolloongabba, QLD, Australia
Sunshine Coast University Hospital - Birtinya, QLD, Australia
and 2 more locations