WHY WARM

Inadvertent perioperative hypothermia (IPH) is one of the most common surgical complications and has serious consequences to patient health. Healthcare professionals can prevent IPH by implementing proper patient warming strategies.

Incidence of IPH

50%

of all surgical patients enter the PACU with IPH unless preventative measures are taken.²

Maintain Normothermia

By warming patients before, during and after surgery to

Prevent IPH

NORMOTHERMIA: Normal body temperature (36.5°C - 37.5°C) **HYPOTHERMIA**: Dangerously low body temperature =/< 36.0°C

Pre-Warmed Fluids

Increase post-op temperatures, lower chances of UPH & ensure safe temperatures ¹



Warm Blankets

Calm the patient providing a sense of comfort, care & security.



For every

1L

of room temperature fluids administered, the core temperature decreases by

0.25°C







Increased heart rate, anxiety & discomfort. 4

3x's

more likely to have a **Surgical Site Infection**due to impaired wound

healing.⁵

Impaired Drug Metabolism



Longer hospitalization time due to lasting anesthetic effects.²

Excess Blood Loss



A 2.0°C drop in core body temperature can increase blood loss by 500ml &

increase risk of blood transfusion by 22%

REFERENCES

- 1. Andrzejowski, J C et al. "A randomised single blinded study of the administration of pre-warmed fluid vs active fluid warming on the incidence of peri-operative hypothermia in short surgical procedures." Anaesthesia vol. 65,9 (2010): 942-5. doi:10.1111/j.1365-2044.2010.06473.x
- protectures. Aniestries vol. 03,9 (2010), 942-3, 001.01.1171,1303-2044,2010.00473.x.

 Criscitelli, Theresa. "How Much Do You Know about Hypothermia? Staff & Patient Safety October, 2014." Association of PeriOperative Registered Nurses, Oct. 2014, https://www.aorn.org/outpatient-surgery/articles/special-editions/2014/october-staff-and-patient-safety/how-much-do-you-know-about-hypothermia.
- 3. House, Lorna. "Blankets Warmed to 200 degrees F. Do No Harm" https://enthermics.com/wp-content/uploads/2021/10/22751c49-a8a8-4797-be23-91272ecda767-research02.pdf
- 4. Lawson, Gary. "Why Warming Matters Ambulatory Anesthesia July, 2014." Association of PeriOperative Registered Nurses, 18 June 2014, https://www.aorn.org/outpatient-surgery/articles/special-editions/2014/july-ambulatory-anesthesia/why-warming-matters.

 5. O'Connor, Dan. "The Link between Warming and Wound Infections Infection Control May, 2016." Association of PeriOperative Registered Nurses, 22 Apr. 2016,
- https://www.aorn.org/outpatient-surgery/articles/special-editions/2016/may-infection-control/the-link-between-warming-and-wound-infections.

 6. Riley, C, and J Andrzejowski. "Inadvertent Perioperative Hypothermia." BJA Education, Elsevier, Aug. 2018, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7807998/.