



MTRE Allon Thermowrap Garment: Trial and Evaluation University of Ottawa Heart Institute

Purpose of Study: To evaluate the MTRE Allon ThermoWrap garment in off-pump coronary artery surgery and intermediate hypoxia post-cardiac arrest.

Observations:

- Ease of application
- Effectiveness of maintenance of temperature
- Observed complications or problems

Results of Trial:

- 12 MTRE Allon ThermoWrap garments were used, 10 in patients undergoing off-pump CABG and 2 in patients with intermediate- duration hypoxia. (5-15 minutes).
- Nurses and technicians reported that the garments were easy to apply. Inservice requirements were minimal to educate staff in the use of the garment.
- In all cases, the desired temperature was easy to achieve and maintain.
- The footprint of the heating/cooling unit was satisfactory

Observed Problems:

- Red depressions were noted on the skin of the patients. These subsided without sequelae after 1-2 hours. There were no longer-term implications.
- It was determined that the electrosurgical unit returns pad should not be placed in a location that was covered by the garment. As a result, the leg portion of the garment was not applied.
- Temperature drift was noted in the cardiac intensive care unit. It is recommended that the use of the warming garment be continued in the ICU following surgery. The length of time needed will be determined in ongoing trials of the garment.