Understanding nutritional requirements of severe burn injury patients treated with a new skin substitute by directly measuring their individual energy expenditure.

ACTRN12620000388910

Status	RECRUITING
Sponsor	Royal Adelaide Hospital
Enrollment	8 participants

Plain Language Summary

Severe burn injuries — those covering 20% or more of the body — place enormous demands on the body, and getting nutrition right during recovery is critical. A newer type of wound covering called Novosorb BTM (Biodegradable Temporising Matrix) is now being used in Australian burns units to help prepare wounds for skin grafting, but we don't yet know how much energy the body needs specifically while this product is in place.

This study measures the actual energy expenditure of severe burn patients who have received BTM, using a gold-standard technique called indirect calorimetry (measuring oxygen and carbon dioxide in breathed air). Measurements are taken at multiple points before and after surgery. This information is then compared to the predictions from standard formulas to see how accurate those formulas are in this specific population, helping dietitians prescribe the right amount of nutrition.

You may be eligible if you are an adult (18 or older) admitted to the Royal Adelaide Hospital burns unit with severe burns covering at least 20% of your body surface area and requiring BTM application. Severe head injury, inborn errors of metabolism, claustrophobia, or inability to consent would make you ineligible.

Key Eligibility Criteria

Inclusion (1)

- This study aims to recruit adult patients (18 years or greater) with equal to or greater than 20% TBSA full-thickness burns requiring BTM application as part of their surgical management, admitted over a 12 month period

Exclusion (1)

- Severe head injury, age <18 years of age, known pre-existing inborn errors of metabolism, claustrophobia, inability to obtain informed consent (from patient or family members)

Locations (1 total)

The Royal Adelaide Hospital - Adelaide, SA, Australia