

# Case Series Describing the Use of Pelnac® in Acute Full Thickness Wound Closure

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Dermal regeneration template (DRT) has been well implicated in the reconstruction of full thickness burns injury. The presentation aims to extend the potential usage of DRT on a variety of acute full thickness defect. We specifically examine the use of Pelnac® in complex wound closure at Concord Burns Unit. The case series include five patients with a variety of wound aetiologies which include; necrotising vasculitis, necrotising fasciitis, full thickness scalp defect, full thickness chemical and thermal burns. Five patients (four female and one male with a mean age 54±20) all had full thickness defects (mean defect size 6.2 ± 3.6% TBSA), some with exposed tendon and bone. The wounds were treated with Pelnac®; the silicone layer was removed at postoperative day 14 and a split thickness skin graft (0.0005 to 0.0007inch) was applied. Clinically, the reconstructed areas demonstrated good granulation tissue with 100 percent take of the skin graft. There were no major graft loss or rejection, there were small areas of graft loss which did not require re-grafting.

In conclusion, DRT provides a safe and efficacious alternative when dealing with acute contaminated full thickness wounds. We have demonstrated the versatility of Pelnac® in obtaining wound coverage in difficult complex wounds, especially in critically ill patients where free or pedicle flap reconstruction would be problematic.

## Key Words

Wound closure, dermal regeneration template (DRT), VAC, Pelnac®,

## Nominated Stream for Oral Presentations

- Medical
- Nursing
- Allied Health
- Scientific

## Nominated Stream for Poster Presentations

- Care
- Prevention
- Research