REDUCED WOUND TISSUE DISRUPTION SILVERCEL[™] NON-ADHERENT Dressing VS AQUACEL[®] Ag Dressing

(IN VIVO)

In an *in-vivo* study on porcine exudating partialthickness wounds, SILVERCEL[™] NON-ADHERENT Dressing was compared with AQUACEL[®] Ag.

Each dressing was compared in 8 replicate wounds. The wounds were secondarily dressed with an adhesive film dressing, and a protective gauze pad. Dressings and wound sites were assessed at days 2, 4 and 7, and the wound sites were harvested at day 7 for histological assessment.

On day 2 the AQUACEL® Ag dressing's structure was lost, forming a gel or disintegrating completely. It was assessed as difficult to remove in entirety, leaving high levels of debris. On day 4 the AQUACEL® Ag dressing formed a sticky gel and was again difficult to remove. On day 7 the AQUACEL® Ag dressing fibers dried into wound surface, requiring careful removal.

The SILVERCEL[™] NON-ADHERENT Dressing retained its structure on day 2 and was lifted off easily in entirety. Also in days 4 and 7 SILVERCEL[™] NON-ADHERENT's Dressing structure was retained throughout, and even in less hydrated conditions there was no adherence or fiber incorporation into the wounds - enabling rapid and clean removal.

After final dressing removal on day 7 there was significantly more:

- Debris in wounds treated with AQUACEL[®] Ag (p<0.001)
- Foreign body reactions in AQUACEL® Ag treated wounds (p=0.007)
- Tissue disruption in wounds treated with AQUACEL[®] Ag (p<0.001)

Fig 1: Dressing removal



Day 2. AQUACEL® Ag



Day 2. SILVERCEL[™] NON-ADHERENT Dressing

Fig 2: Wounds after saline cleaning

SILVERCEL[™] NON ADHERENT Dressing treated wounds had less debris on wound surface:





AQUACEL® Ag Dressing

SILVERCEL[™] NON-ADHERENT Dressing



Fig 3: Cross section histology sample from wound dressed with AQUACEL® Ag and SILVERCEL[™] NON-ADHERENT Dressing

AQUACEL® Ag Dressing

Caused substantial debris entrapment, tissue reactions and tissue disruption



Biopsy (**100**µm)

SILVERCEL[™] NON-ADHERENT Dressing

Minimal debris entrapment, tissue reactions and tissue disruption



The *in vivo* observations and potential clinical benefits of: SILVERCEL[™] NON-ADHERENT Dressing vs. AQUACEL[®] Ag

can be summarized as follows:

Stage	Observations	Potential Clinical Benefits
Live	 Lower adherence to wound surface Lower wound surface debris 	 Reduced damage to wound surface Reduced patient discomfort Faster dressing change
Histology	 Reduced debris in wound tissues Reduced foreign body reactions Reduced tissue disruption 	Reduced inflammationLess impediment to progression of repair

Hart J, Bell A. Evaluation of a novel non-adherent antimicrobial silver alginate/CMC wound dressing in the porcine partial-thickness excisional wound model. Wounds UK 2009.

To learn more about the benefits of SILVERCEL[™] NON-ADHERENT Dressing contact your Acelity[™] representative or visit **acelity.com**



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