AQUACEL™ Ag+ Extra™ and Silvercel™ Non-Adherent: A dressing comparison

Manage biofilm and infection-causing bacteria

In an *in vitro* biofilm model, AQUACEL™ Ag+ Extra™ dressing demonstrated superior ability to disrupt biofilm, prevent its reformation and kill infection causing bacteria.*1

**Pseudomonas aeruginosa**

![Graph showing bacterial counts over time for Pseudomonas aeruginosa with labels for AQUACEL™ Ag+ Extra™ (n=5), Silvercel™ Non-Adherent (n=5), and Reinoculation.]

**Community-associated Methicillin-resistant Staphylococcus aureus (CA-MRSA)**

![Graph showing bacterial counts over time for Community-associated Methicillin-resistant Staphylococcus aureus with labels for AQUACEL™ Ag+ Extra™ (n=5), Silvercel™ Non-Adherent (n=5), and Reinoculation.]

*As demonstrated *in vitro.*

In this *in vitro* model, mature biofilm was grown on a gauze substrate and confirmed by microscopy. Gauze biofilm substrates were then transferred to agar plates to create a simulated wound biofilm model; dressings were applied to the biofilm surface, hydrated and covered with an appropriate secondary dressing. Following incubation, the killing effect of the dressing on biofilm-embedded bacteria was assessed at several time points over a maximum of 120 hours. Biofilm reformation was also assessed by inoculating fresh bacteria onto the gauze substrate beneath the dressing, followed by assessment of biofilm presence or absence over a maximum of 96 hours.
Manage excess exudate to create an ideal healing environment

In an in vitro test of fluid management properties, AQUACEL™ Ag+ Extra™ dressing demonstrated:*

25% more fluid absorbed than Silvercel™ Non-Adherent dressing

604% more fluid retained than Silvercel™ Non-Adherent dressing

An in vitro test was performed to determine how simulated wound fluid would spread laterally through the dressings.†,2 Lateral fluid spread can lead to maceration of the periwound skin.

97% less fluid spread than Silvercel™ Non-Adherent dressing

Three wound healing villains: exudate, infection and biofilm.

One wound healing hero

*As demonstrated in vitro.
†Expressed as a % of original area to which fluid is applied.

2. In vitro physical testing of AQUACEL® Ag+ EXTRA dressing and Silvercel® Non-Adherent dressings. WHRI3914 MS123, 2014, Data on file, ConvaTec Inc.