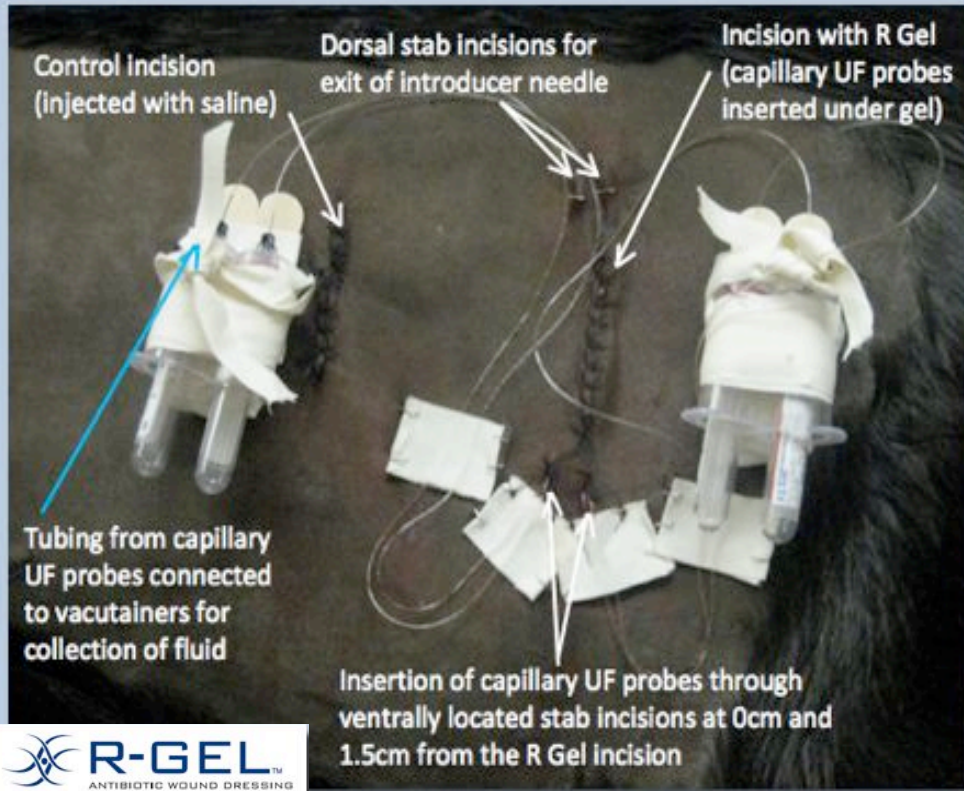


FALL 2009 Clinical Update

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In vivo Elution of R-Gel Delivered Antibiotics

- Antibiotic-impregnated R-Gel was placed in the incisions prior to closure
 - ☑ R-Gel with Vancomycin
 - ☑ R-Gel with Amikacin / Clindamycin
 - ☑ R-Gel with Amikacin
- Capillary ultrafiltration probes placed at the incision and 1.5 cm lateral to the incision (to measure diffusion)
- Interstitial fluid samples as function of time

Antibiotic Concentrations at 0 cm:

Antibiotic Gel	Time Above MIC
Vancomycin	10 days
Clindamycin (amikacin/ clindamycin)	10 days
Amikacin	10 days
Amikacin (amikacin/ clindamycin)	9 days

Antibiotic Concentrations at 1.5cm:

Antibiotic Gel	Time Above MIC
Vancomycin	8 days
Clindamycin (amikacin/ clindamycin)	8 days
Amikacin	7 days
Amikacin (amikacin/ clindamycin)	5 days