

# **WOUND GEL CLINICAL DATA & BIOFILM EFFICACY**

**NEXT SCIENCE™**

**MAYO CLINIC:**  
CLINICAL STUDY

NEXT SCIENCE™

## RESULTS

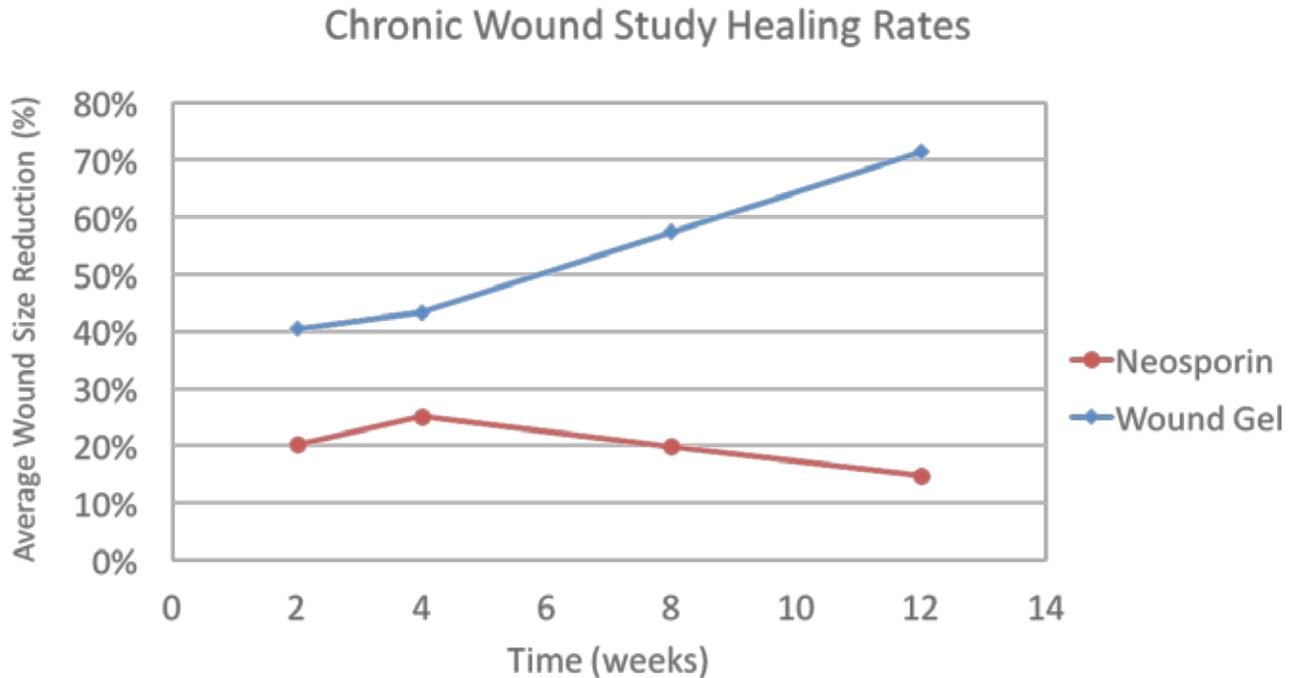
### This was a 36-patient study comparing the healing rates of chronic wounds

- Patients treated with either Next Science Wound Gel or Neosporin
- Randomized, open label
- 12-week study
- Average patient age = 61 years old
- Average wound age = 21 months
- Average wound size = 11 cm<sup>2</sup>

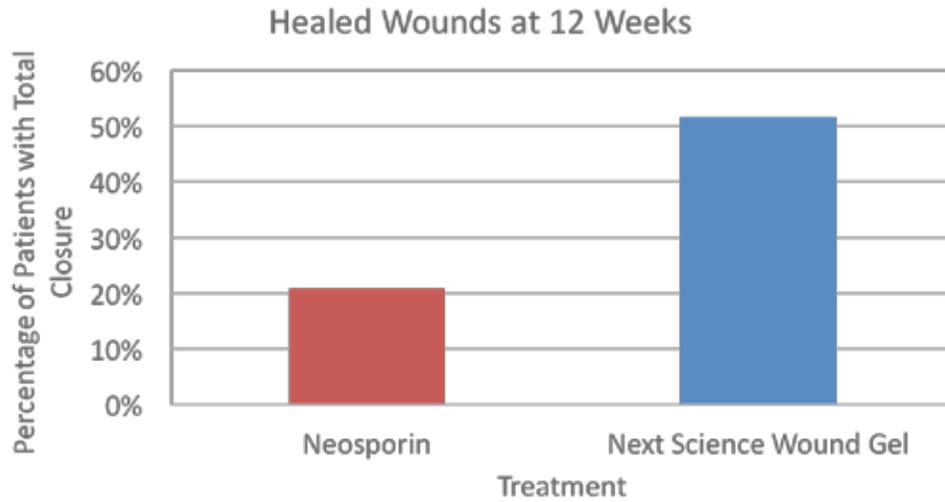
### Results

- 53% of patients treated with the Next Science Wound Gel had complete closure at 12 weeks compared to 11% for control
- Statistically significant to control at a p-value of 0.02 and for treatment time at 0.01.

## WOUND SIZE REDUCTIONS



## WOUND CLOSURES



## REAL RESULTS



Before Treatment



After 8 Weeks



Before Treatment



After 16 Weeks

## LARGE WOUNDS

**2-year-old Wound Right Foot-Heel**



6.6 cm<sup>2</sup>  
Baseline



0 cm<sup>2</sup>  
4 months

**4-year-old Wound Abdomen Midline-Lower**



38.5 cm<sup>2</sup>  
Baseline



5.8 cm<sup>2</sup>  
12 months

**SOUTHWEST  
REGIONAL WOUND  
CARE CENTER:  
CLINICAL STUDY**

## RESULTS

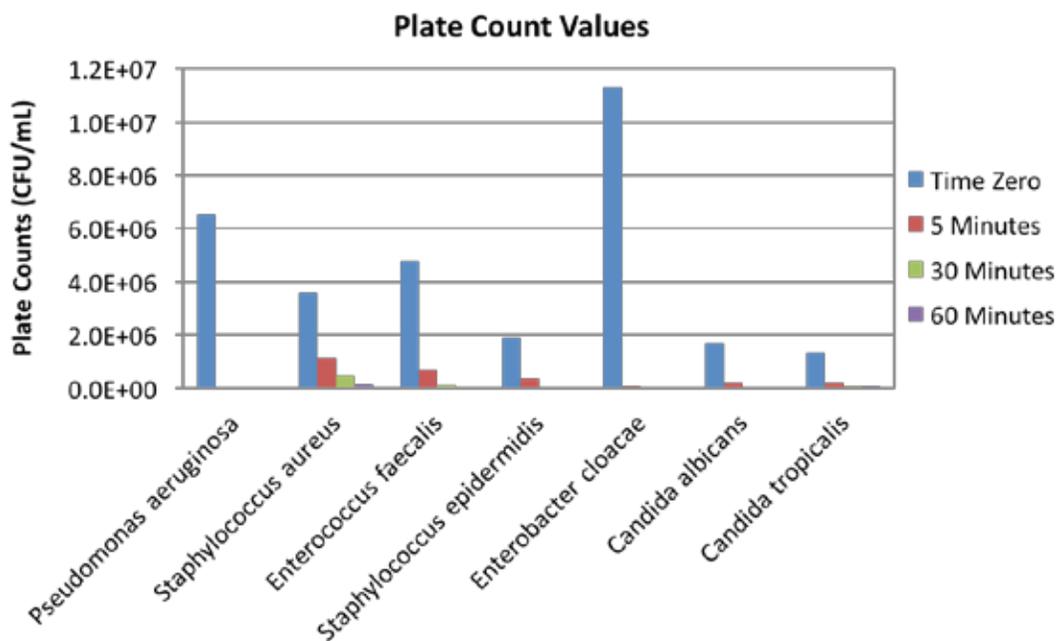
### This was a 45-patient study comparing the healing rates of chronic wounds

- Patients treated with: Next Science Wound Gel, custom DNA-derived antibiotic topical, or Next Science Wound Gel plus custom DNA-derived antibiotic topical
- Randomized, open label
- 4-week study
- Average patient age = 60 years old
- Average wound size = 3.5 cm<sup>2</sup>

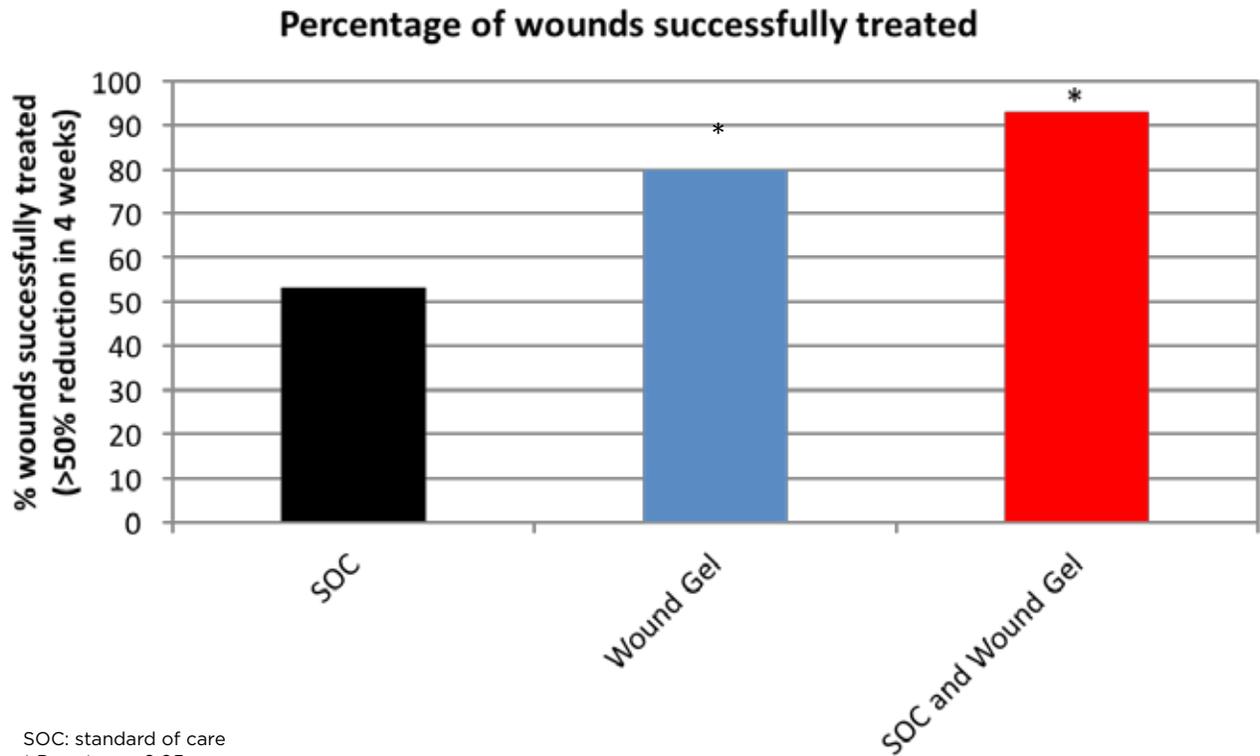
### Results

- 80% of patients treated with the Next Science Wound Gel had 50% closure at 4 weeks compared to 53% for custom antibiotic topical, and 93% for the combination of the Wound Gel and the custom antibiotic topical
- Statistically significant to control at a p-value of 0.05 and for treatment time at 0.01.

## SUSPENSION TIME KILL - BACTERIAL COUNTS AFTER TREATMENT



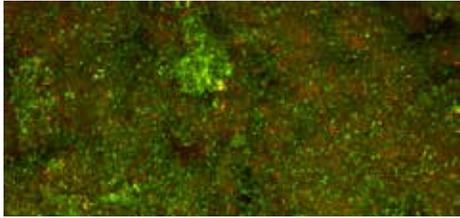
PERCENTAGE OF WOUNDS FROM EACH GROUP THAT HEALED BY MORE THAN 50% IN FOUR WEEKS



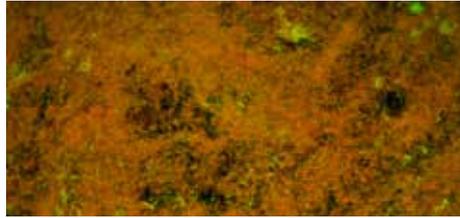
**MONTANA STATE  
UNIVERSITY:  
IN-VITRO BIOFILM  
DISINFECTION TEST**

## P. AERUGINOSA BIOFILM TESTING - 72-HOUR BIOFILM

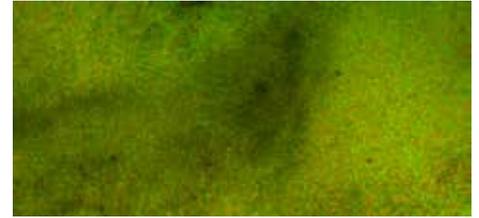
*P. aeruginosa* Biofilm Confocal Imaging-24 Hours of Treatment: Green Cells = Live, Red Cells = Dead



Control



Next Science Wound Gel



SilvaSorb Wound Gel

