

**CANON: Cardiovascular Surgery Assessment of Silverlon® versus Standard Wound Care Methods in Non-pre-complex Post-Operative Wounds in a Northwest Arkansas Community Hospital Setting.**

**Investigator(s), Study Site:**

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***Indication***

Patients undergoing cardiovascular surgery

***Objectives***

**Primary Objectives (Wound Healing Outcome)**

To evaluate the effectiveness of Silverlon when compared to standard wound care in patients undergoing planned, urgent and emergent cardiovascular surgical procedures. Postoperatively observation include:

- (1) Quality of Wound Healing: Scarring, contour and feel of the healed skin,  
Normalization of skin markings or pigmentation
- (2) Incidence and severity of post-operative incision site infection
- (3) Respiratory function
- (4) Analgesic and narcotic usage

**Secondary Objective: (Economic Outcome)**

To evaluate the overall economic impact of prophylactic use Silverlon when compared to standard wound care in this surgical patient population.

**Tertiary Objectives: (Patient Evaluated Outcome)**

To evaluate the effects of Silverlon on:

- Post-operative pain
- Appearance of the Scar
- Return to Activities of Daily Living

**Design**

Sixty Patients, Single center, prospective, cross-sectional, randomized trial.

**Setting**

Northwest Arkansas Community Hospital

**Population**

Patients requiring:

- A. planned, urgent or emergent CABG, or
- B. planned, urgent or emergent cardiac valve surgery, or
- C. planned, urgent or emergent vascular surgery

## Randomization Methods

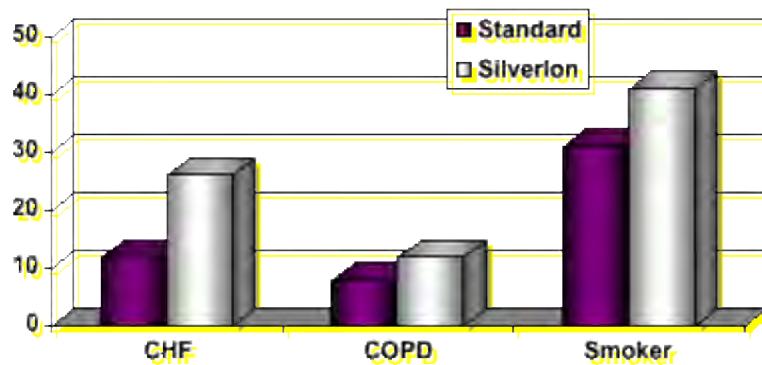
Patients, undergoing CV Surgery, randomized to sex, age, and diabetic status  
Wound care initiated in CVOR and continued throughout healing process  
Wound documentation, by nursing, using protocol-specific stickers

## Wound Preparation and Care

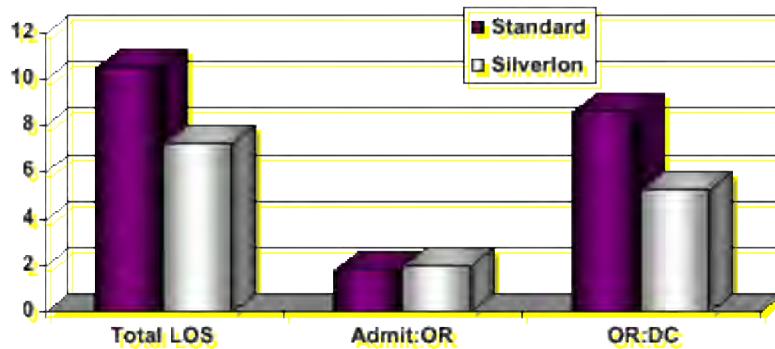
Cleanse wound with sterile water  
Apply either sterile Silverlon Dressing or sterile 4 X 4 's and Telfa  
Secure with Metapore Tape  
SetaPress compression bandage to lower leg incisions  
Wound Care:  
-Baseline (CVOR), 72 hours, Daily through Discharge, pm

## Results

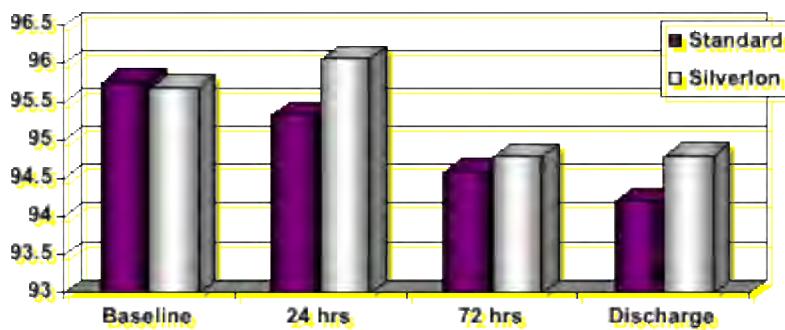
**Significant Medical History**



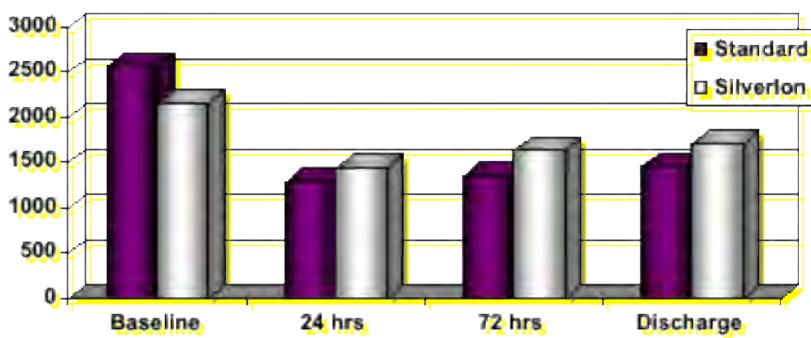
**Length Of Stay (Days)**



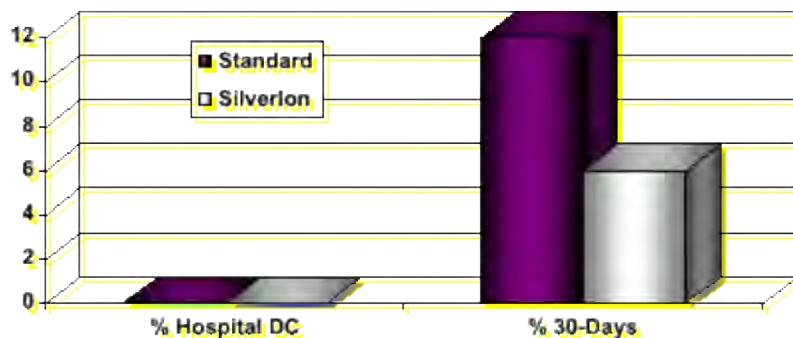
## SaO<sub>2</sub> Measurements



## Incentive Spirometry Measurements



## Post-Op Wound Infections



## Conclusions

Patients Randomized to Silverlon® group demonstrated:

- Historically more medical conditions that put the patient(s) at a greater risk for the development of post-operative wound infection(s).
- Global improvements seen in post-operative SaO<sub>2</sub> and IS.
- Dramatic reduction in post-operative wound CDC-Defined Post-Op Wound Infections