



Copper vs Silver Dressings

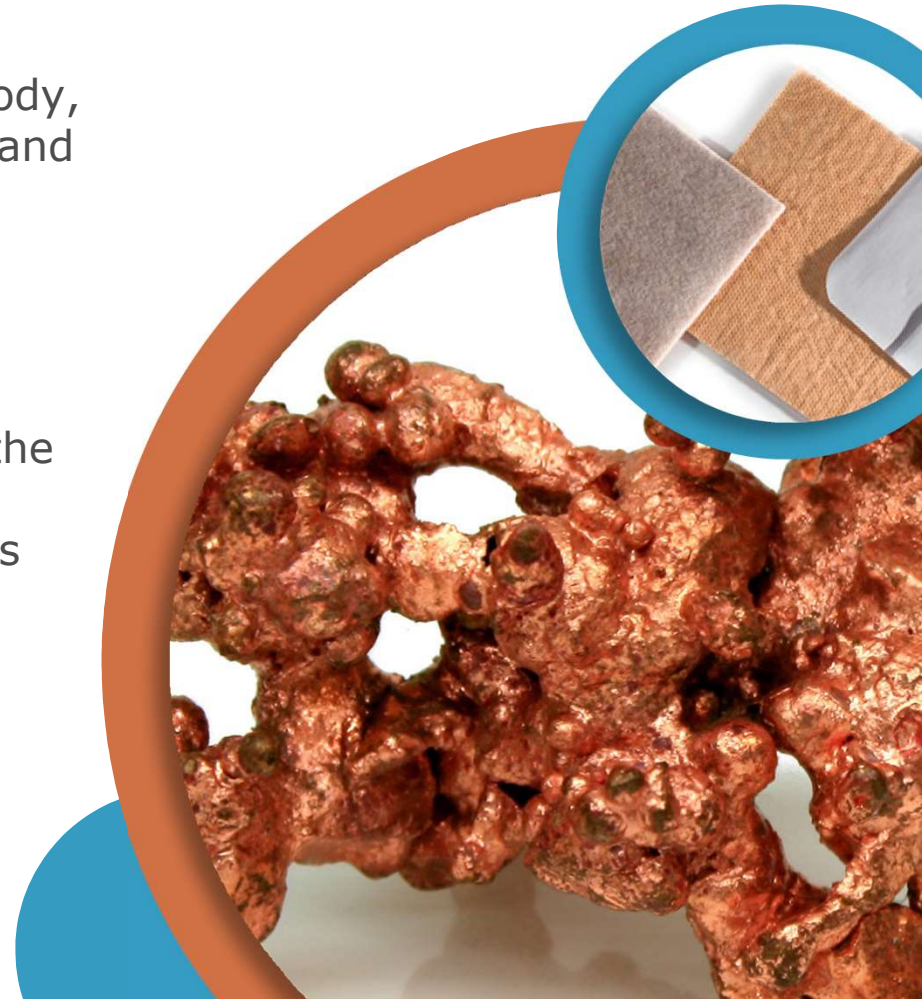


MEDCu

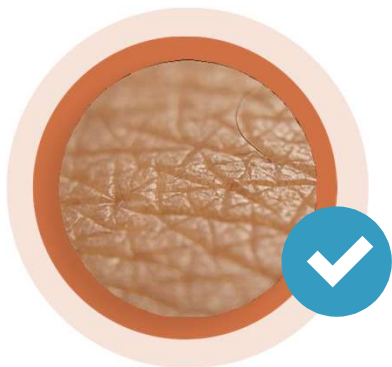
As a natural essential mineral for the human body, copper has been used for centuries to care for and treat wounds.

Copper is safe, biocompatible, non-sensitizing and non-irritating to the skin.

Today, antimicrobial wound dressings harness the power of copper to set a new standard in advanced care for acute, critical chronic wounds and surgical wounds.

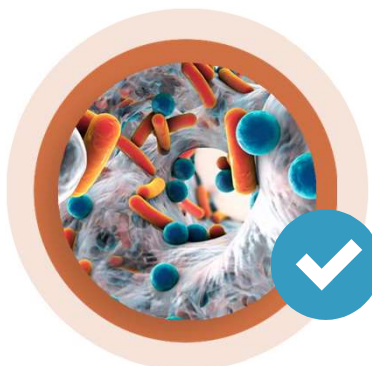


Core Properties Of Copper



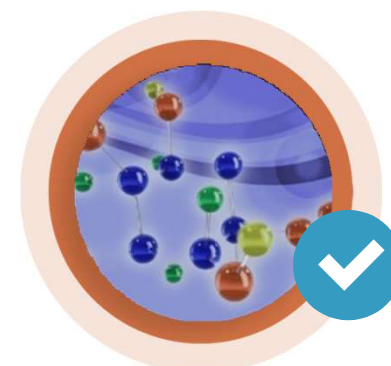
Wound & Skin Care

- Copper is an essential nutrient mineral in the body
- Stimulates production of collagen and other key skin proteins
- Stabilizes skin layers
- Improves skin elasticity
- Improves look and appearance of skin



Antimicrobial

- Antibacterial
- Antifungal
- Antiviral



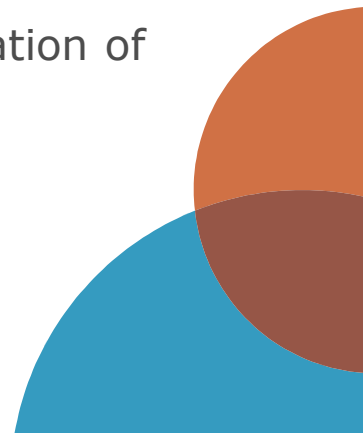
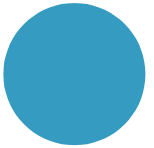
Odor Control

- Microbial odor prevention
- Human odor absorption



Copper Facts

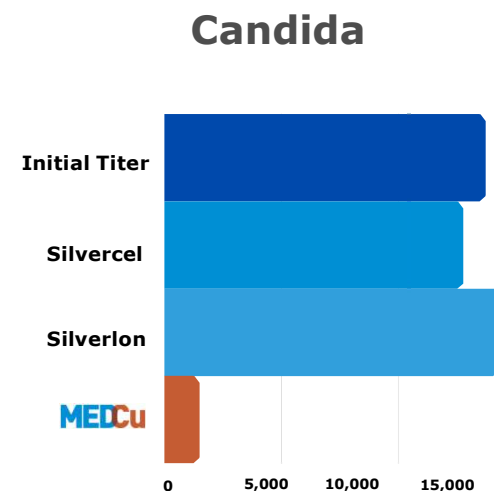
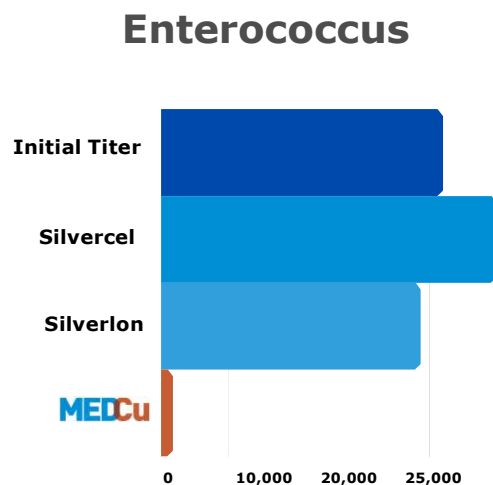
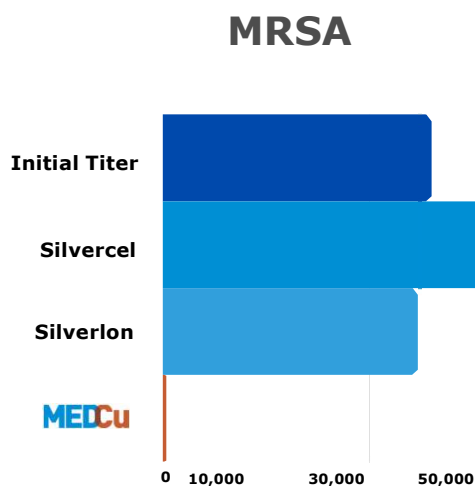
- Copper is one of the 11 essential trace elements the body needs
- The official recommended dietary allowance of copper for adults is 1mg/day
- Copper is antimicrobial (antibacterial, antifungal, antiviral)
- Copper stimulates production by dermal fibroblasts of collagen, elastin and other extracellular matrix (ECM) skin proteins
- Copper is essential for the production of growth factors needed for formation of blood capillaries



Copper Provides the Antimicrobial Properties Of Silver, Plus Offering Added Benefits

PROPERTY	SILVER	COPPER
Antibacterial	✓	✓
Antifungal	✓	✓
Potent Antiviral	✗	✓
Essential element for human body	✗	✓
Positive effect on intact skin	✗	✓
Necessary part of balanced diet	✗	✓
Stimulation of angiogenesis	✗	✓
Production of extracellular matrix (ECM) skin proteins	✗	✓
Stabilization of ECM skin proteins	✗	✓

MedCu Copper Dressings Out-Perform SOC Silver Dressings In Antimicrobial Efficacy Comparison

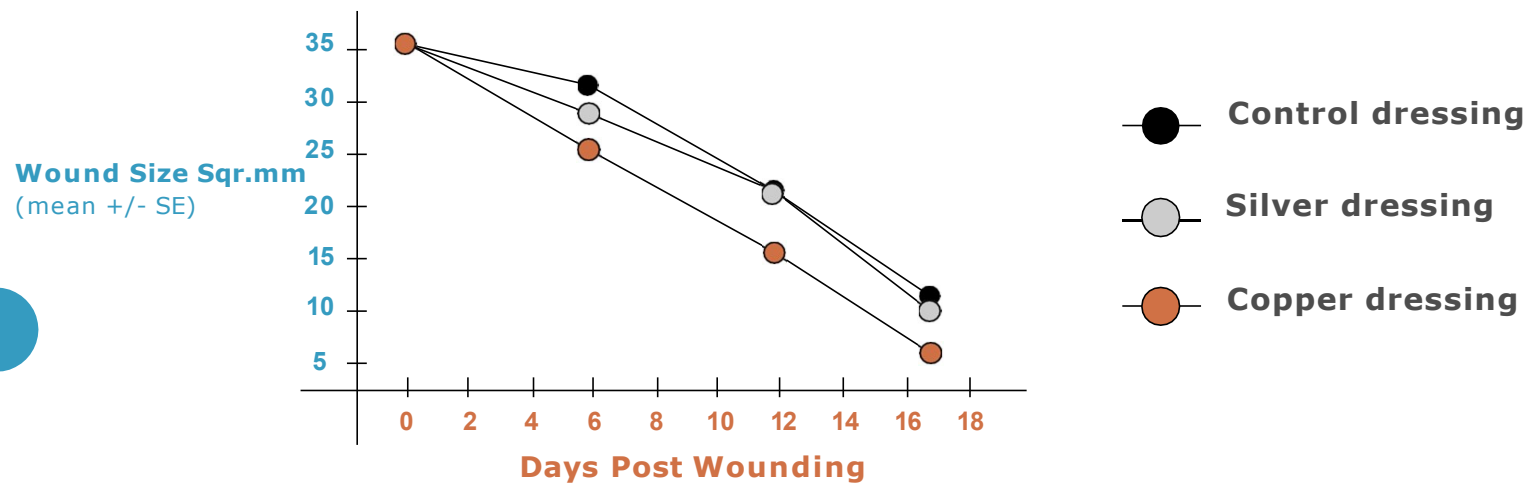


About the graphs

- Efficacy comparisons - using AATCC 100 test method
- Results after 1 hour incubation at 37° Celsius

Antimicrobial Efficacy Comparison Between Copper and Silver Dressings - Wound Size

- Antimicrobial properties help prevent infection to allow for wound healing to occur unimpeded
- This study demonstrated how wounds covered with copper dressings healed faster than those covered by silver/control dressings





Case Study: Necrotizing fasciitis arm ready for skin grafting

Patient BN suffered with loss of skin and subcutaneous tissue due to necrotizing fasciitis of the forearm and wrist.

After one week of applying silver-based dressings, the wound had pale granulation tissue with extensive fibrin and necrotic tissue.

The clinical plan was changed to applying MedCu copper dressings. After two weeks of MedCu copper dressings application large islands of red granulation tissue replaced the necrotic and fibrinous tissue.

After three weeks of MedCu application, the wound was full with dense red granulation tissue and ready for skin grafting.

**Upon arrival at clinic
and after silver dressings**



**2 weeks
with copper dressings**



**3 weeks
ready for skin graft**





Case Study: Venous ulcer infected with multidrug-resistant bacteria

Patient arrived at the clinic with a nonhealing wound on the anterior aspect of the distal right leg, which had been treated previously with many wound dressings, including silver sulfadiazine. Wound cultures revealed a biofilm layer with multidrug resistant *Escherichia coli* colonizing the wound.

Wound underwent conservative desloughing and wound bed preparation. The wound was then covered with MedCu copper dressing, which was changed every two to three days.

After seven days of applying the MedCu copper dressings, dramatic improvement was seen. A follow up bacterial culture was found to be negative, and there was a drastic reduction in edema and intense granulation tissue formation.

**Upon arrival at clinic
and after silver dressings**



**Day 3
with copper dressings**



**Day 5
with copper dressings**



**Day 7
ready for skin graft**





Copper Will Change The Way You Think About Wound Care

- MedCu's copper dressings are creating a revolution in wound care
- With better protection than silver against pathogens, 7 day wear-time allowing for fewer changes, and irritant-free biocompatibility
- MedCu is the first and only copper impregnated dressing to receive FDA and CE clearance
 - ✓ Bacterial barrier protects against a broad spectrum of wound pathogens
 - ✓ Non-sensitizing and non-irritating, biocompatibility
 - ✓ Easy adhering and pain free removal
 - ✓ Safe for use throughout the entire wound care process
 - ✓ 7 day wear-time, allowing for fewer changes
 - ✓ Can be used on chronic, acute, and surgical wounds
 - ✓ The 1st and only copper dressings with FDA & CE clearance



THANK YOU!

medcu.com
info@medcu.com

