Human BioSciences, Inc.
The Kollagen™ Technology Difference
*DEVELOPER *MANUFACTURER *DISTRIBUTOR *MULTINATIONAL COMPANY

About Us
- We are a multinational specialty biotechnology company focused on collagen-based products.
- We have been a developer, manufacturer, and distributor for 30 years of advanced wound care collagen products.
- Our products are FDA cleared and ISO certified.
- We believe every patient matters and provide quality products at lowest cost.

What is Collagen?
- Collagen is the most abundant protein in the human body and is a major component of the extracellular matrix (ECM).
- Over 20 different types of collagen have been identified in humans.
- The main types are type I, II, and III
- Together they make up 80% of the body’s collagen.
- Type I and III are important for wound healing.

What is the Role of Collagen in Wound Healing?
Collagen works in every phase of wound healing that helps wounds move towards healing.
- Hemostasis
- Inflammatory
- Proliferative
- Remodeling
Wound Healing Phase Activity
- Platelet activation at the site of injury
- Recruiting factors for clotting events
- Activating cofactors for thrombosis
- Preparation and Cleansing of Wounds
- Attracting macrophages and monocytes
- Activating macrophages at the injury site
- Attracting plasma components
- Removal of bacteria and debris by phagocytosis an absorption
- Acts as a matrix for epithelial cells to move across the wound surface
- Actively promotes cellular differentiation and keratinocyte migration
- Initiates attachment of epithelium to dermis by acting like a glue

What are Collagen Dressings?
- Not all collagen technologies are the same.
- Native intact collagen provides a natural scaffold for new tissue growth.
- Collagen dressings provide the wound with an alternative collagen source.
- Reduction of high levels of MMPs

Indications for Medifil® II and Skin Temp® II
- Arterial Ulcers
- Venous Leg Ulcers (VLUs)
- Diabetic Foot Ulcers (DFUs)
- Pressure Injuries (PIs)
- Surgical Wounds
- Trauma Wounds
- Donor Sites
- Atypical Wounds
- Other
- Superficial, Partial, and Full Thickness Wounds

PARTIAL THICKNESS WOUNDS
- Superficial wounds: scrapes, abrasions
- Stage 2 Pressure Injury
- Skin Tears
- Arterial ulcers
- Venous ulcers
- Diabetic ulcers
- Scalds, Second-degree burns
- Moisture Associated Skin Damage/Incontinence Associated Dermatitis
**FULL THICKNESS WOUNDS**
- Stage 3,4 Pressure Injuries
- Unstageable Pressure Injuries with scattered slough/eschar
- Skin Tears
- Arterial ulcers
- Venous ulcers
- Diabetic ulcers
- Donor sites
- Dehisced Surgical Wounds
- Trauma wounds healing by secondary intention

**Contraindications for Collagen Dressings**
- Third-degree burns
- Sensitivities to bovine (cattle)

**KOLLAGEN TECHNOLOGY PROPRIETARY BLEND PRODUCTS**
- Medifil® II Collagen Particles (1-gram vial or pouch)
- Skin Temp® II Collagen Sheets (2x2, 3x4, 7x7, 8x12)
- Collatek® Collagen Gel (1 oz, 3 oz)

**What is our Product Made of?**
- 100% NON-HYDROLYZED TYPE I NATIVE BOVINE COLLAGEN
- We keep the collagen molecule intact and in its purest form.
- Our products are natural and compatible with topical agents and dressings.

**Medifil® II Collagen Particles Features**
- Medifil® II is 100% non-hydrolyzed type 1 bovine native collagen particles
- Proprietary Kollagen™ technology process protects and retains collagen molecule
- Stability of the molecule and scaffolding through all four phases of wound healing
- Absorbs 40-60 times its weight in fluid
- Used in hard-to-reach areas or any location
Application of Medifil® II
- Cleanse the wound per physician order.
- Apply Medifil® II particles ¼ inch to entire wound bed surface, including any undermining and or tunneling.
- Cover the wound with a secondary absorbent dressing to promote thermoregulation and maintain an optimal moist wound healing environment.
- Frequency of dressing change is based on exudate amount, clinical findings, and per physician recommendations.

Skin Temp® II Collagen Sheets Features
- Skin Temp® II is 100% non-hydrolyzed type 1 bovine native collagen.
- Proprietary Kollagen™ technology process protects and retains significantly more native triple helical protein structure
- Superior stability of the molecule and scaffolding through all four phases of wound healing
- 2x2, 3x4, 7x7, 8x12 sizes

Application of Skin Temp® II
- Cleanse the wound per physician order.
- Remove the backing of collagen sheet. Apply Skin Temp® II collagen sheet to wound bed surface, including any undermining and or tunneling.
- Collagen sheets may be moistened with tap water or saline in dryer wounds.
- Cover the wound with a secondary absorbent dressing to promote thermoregulation and maintain an optimal moist wound healing environment.
- Frequency of dressing change is based on exudate amount, clinical findings, and per physician recommendations.

Contact Info:
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Our Kollagen™ technology sets the standard for Wound Care
based on intact collagen – the body’s natural healing material

SkinTemp® II Collagen Sheets
Bovine collagen scaffolds bioengineered with our proprietary Kollagen™ technology with a non-woven fabric backing for easy application

Indications:
SkinTemp® II Collagen Sheets are indicated for the management of burns, scrapes, blisters, sores, ulcers, acute & chronic wounds, superficial, partial & full-thickness wounds, non-infected & infected wounds; minimal to heavily exuding wounds.

Precautions:
- SkinTemp® II should not be used on third-degree burns.
- All open and unused portions must be discarded.
- Do not use if sensitive to materials of bovine origin.

HCPCS: A6021, A6023

Medifil® II Collagen Particles
Bovine collagen fibers bioengineered for advanced wound care applications using our proprietary Kollagen™ technology

Indications:
Medifil® II Collagen Particles are indicated for the management of burns, scrapes, blisters, sores, ulcers, acute & chronic wounds, superficial, partial & full-thickness wounds, non-infected & infected wounds; minimal to heavily exuding wounds.

Precautions:
- Do not pack the wound tightly, allow for expansion of the particles.
- Apply collagen particles 1/4" to entire wound bed surface area.
- Medifil® II is insoluble collagen and should never be used as an injectable soluble collagen.
- All open and unused portions must be discarded.
- Do not use if sensitive to materials of bovine origin.

HCPCS: A6010

All products are reimbursable in the USA

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