

From the start to completion of wound healing

D-WOUND SOLUTION



From the start to completion of wound healing

D-WOUND SOLUTION

Treatment for ALL type of wound

Burn, Pressure ulcer

Diabetic Foot ulcer

Scar prevention

Easyef⁺

CuraVAC[®]

Curasys[™]

EasyFoam[™]
The Professional's Choice

EasyDERM[™]
Plus

CGDERM[™]

Easy[®]dew
Dew Control
Scarring Controlling
ESP

Easyef[®]
Ointment

Scarsense[®]



World healthcare provider

No.1
Wound Healing and
Bone Regeneration
Company

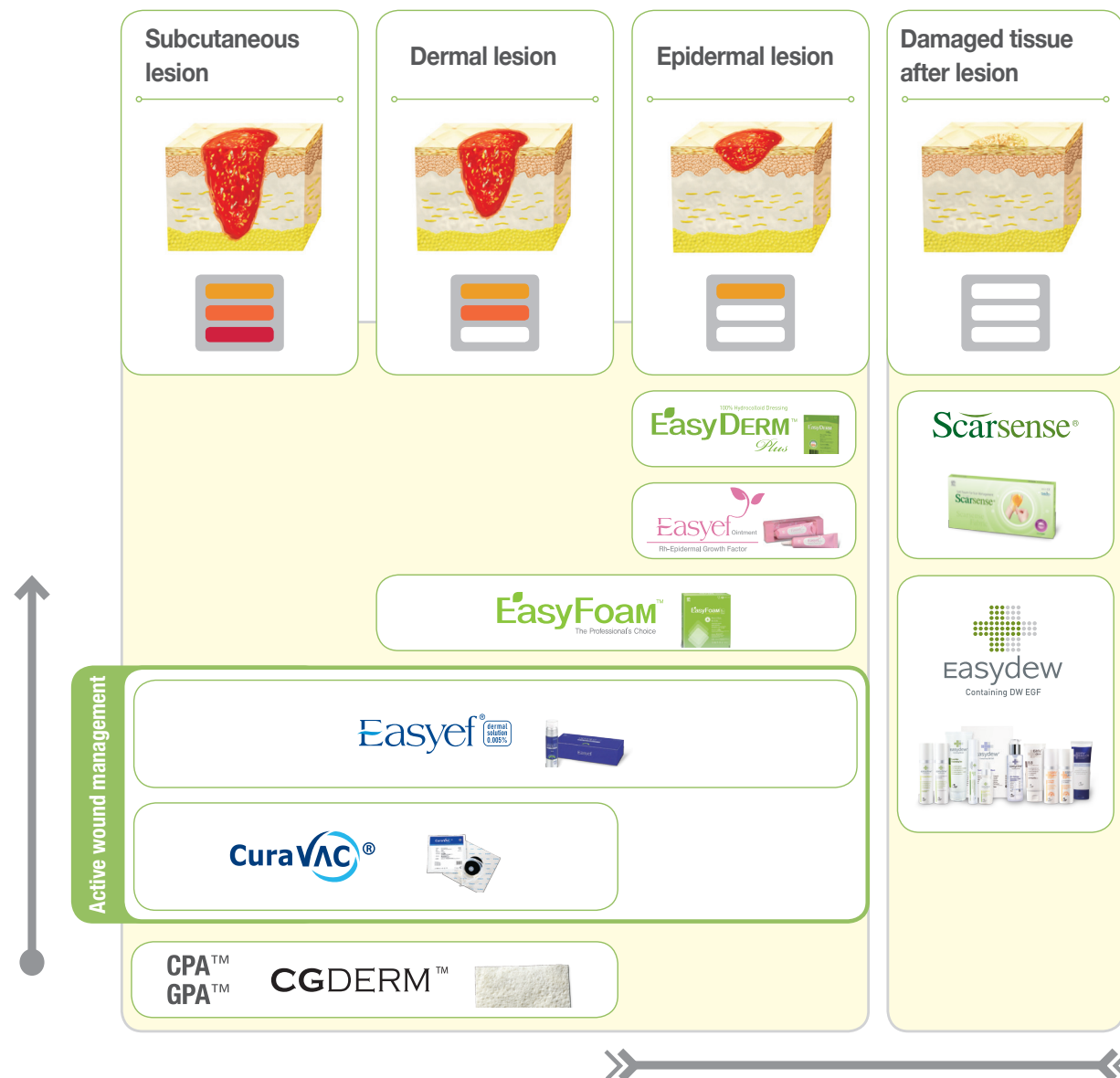
Innovative Solution of CG Bio Inc. has been offering range of human tissues and medical devices especially designed for bone and wound healing.

With CG Bio's extensive research activity on growth factors, CG Bio has been developing combined medical devices such as BMP-2 containing bone grafts, EGF-base wound dressings. CG Bio has state of the art facility with class 100 clean rooms, purified water system fit for human injection and well-trained technician

D-WOUND SOLUTION ?

The letter D in the D-wound solution is a reminiscent of the word 'Dressing'. It also represents the full line-up of **CG Bio's wound care products** which can provide ideal solutions towards all stages of the wound healing process.

D-WOUND SOLUTION GUIDE



Easyef®
dermal solution 0.005%

Injured or damaged skin is covered with granulation tissue yet still requires maturation period of 6months~2years for the skin to become similar to that of normal skin. During the healing period can be itchness, pain, and contraction on the skin.

To relieve these symptoms, skin should be covered with a moisturizing membrane to keep the skin moisturized and to aid in its recovery



Mechanisms

01. Re-epithelialization

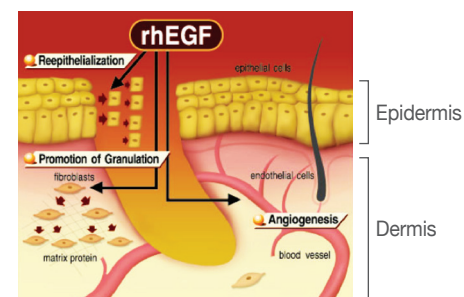
EGF promotes epithelial cells to proliferate and migrate to fill wounds.

02. Formation of granulation tissue

EGF stimulates fibroblasts in dermal tissue to facilitate dermal cells to differentiate and proliferate.

03. Angiogenesis

EGF promotes endothelial cells to proliferate to regenerate blood vessels.



Advantages of Easyef

01. Korea's First Biotechnological Drug

Easyef® Is the first formulation of Rh-EGF developed in Korea.

02. Identical to Natural Human EGF

Has the same structure and activity as the human EGF.

03. Remarkable Healing of Diabetic Foot

Easyef® clinical outcome of diabetic foot ulcers showed a high cure rate of 73%.

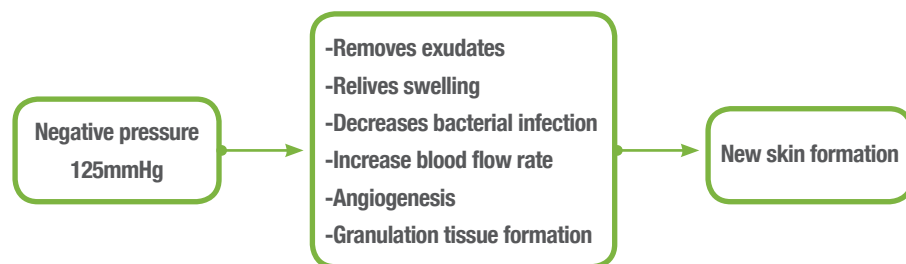
Indication

Burn, skin-transplantation areas, bedsores, preventive management of diabetic foot ulcers, dermatitis due to radiological treatment, broad range of general wounds



CuraVac is an innovative and modern technique that has been restored to follow the footsteps of our ancestor's traditional therapeutic technique in Oriental medicine. The principals of NPWT is application of negative pressure to facilitate granulation of tissue when there is a deep or unclosed chronic wounds

📌 Mechanisms



01. Removal of excess interstitial fluid

- Acceleration of cell proliferation by reducing cytokine
- Restoration of flow in small blood flow

02. Mechanical stress

- Granulation tissue formation; angiogenesis, stimulating cell growth

03. Provide moist wound environment

- Stimulation of angiogenesis and local blood flow
- Reduction in bacterial count
- Mitogenesis of cell involved in the wound repair process

📌 Advantages of CuraVAC

01. New Concept of Negative Pressure therapy

- Cyclic mode [50mmHg – 125mmHg] improves tissue perfusion, faster wound closure and reduce pain of patient.

02. Convenient

- VAC system compatible with wall suction.

03. Reasonable cost

- Reasonable cost compare to other products

04. Equivalence

- Showed similarities with other products VAC through physicochemical analysis

05. Patent product

- One touch silicone suction head facilitates complete vacuum.
- Convenient application of foam dressing onto the drape that does not roll during attachment.

📌 Indication

Chronic wounds, Acute and traumatic wounds, subacute and dehisced wounds, partial-thickness burns, Ulcers (such as diabetic or pressure), flaps and grafts



Curasys is Negative Pressure pump that has been manufactured solely by Korean technology. It has numerous published clinical cases by leading medical practitioners and has been customized based on patients' needs. The 'Cyclonic mode' is a unique feature of Curasys which has been developed to minimize the patients' discomfort



📌 How to use

01. Assemble all components and press orange power button to turn on unit
02. Adjust mode and pressure settings and press start/stop button to activate therapy.
03. Key lock system for patient mobility. To exit from lock mode, press any key for 1 second.
04. Make sure seal is maintained when the curasis is tuned on.
05. Press power button for 1 second to turn off unit.
06. Press any button to stop alarm sound.

📌 Curasys Key Feature

01. Compact design- light weight, wide LCD screen
02. Portable and convenient-up to 12 hours of battery life, A/C or battery operational
03. Safety features-key lock system, alarming system
04. Select mode depend on patient condition- continuous mode, cyclonic mode
05. Easy to use-simple set up, easy control
06. No-pain

📌 Indication

Chronic wounds, Acute and traumatic wounds, subacute and dehisced wounds, partial-thickness burns, Ulcers (such as diabetic or pressure), flaps and grafts



EasyFoam™

The Professional's Choice

Easyfoam™ is a primary or secondary type of dressing on wound with exudates. The thin and semi permeable polyurethane foam effectively protects the wound from bacterial invasion and contamination.

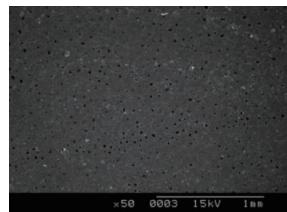


🔑 Mechanisms

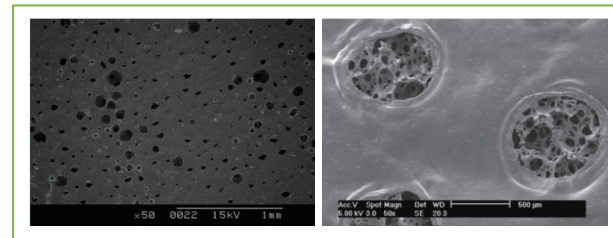
The healing process on the epithelial layer is elevated when the wound surface contains moderate amount of moisture and exudate contains growth factor for skin regeneration. Easyfoam dressing keeps the wound surface moistened allows the skin to regenerate faster.

🔑 Advantages of EasyForm

- 01.** Clinical Stability Skin sensitization, acute systemic toxicity, skin irritation, cytotoxicity, pyrogen, sterility tests have been passed.
- 02.** Excellent absorbency effectively absorbs wound exudates on high level
- 03.** Various product range Consists of various thickness(7mm, 5mm, 2mm) & size (5*20cm, 10*10cm, 20*20cm, 40*60cm)
- 04.** Wound contact layer of Easyfoam has smaller pore size, compared to other foam dressings
 - Reduces risk of newly formed epithelium penetrating the foam (helps to prevent adherence to the wound bed)
 - Reduces risk of wound trauma and pain during dressing changes



EasyFoam™



Other foam dressings

🔑 Indication

Venous and arterial leg ulcers, Pressure ulcers, Diabetic ulcers, Superficial and partial thickness burns, Skin grafts and skin donor sites, Lacerations and abrasions, Trauma wounds, Post operative wounds

*Ref.) J. k Park, morphology of wound contact layer by SEM, 2011, Daewoong bio lab.



EasyDERM™ Plus

100% Hydrocolloid Dressing

EasyDerm is a hydrocolloid dressing to provide exuding wound with a moist environment. Bacterial barriers of the EasyDerm protects the wound from infection and the flexible dressing allows contouring around the wound.

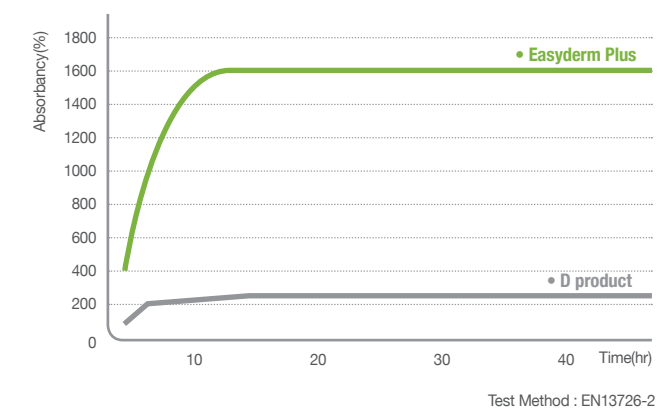


🔑 Mechanisms

In the dry environment, the new epithelial cells have to burrow under the scab and it does not help in healing sufficiently. Under moist environment, the cells are able to move across an unobstructed surface freely, being lubricated by the retained exudates. Wound healing is facilitated up to 60% under the moist environment than dry environment.

🔑 Advantages of EasyDerm

- 01. Optimum condition**
Maintains moist environment and enhances epidermal migration
- 02. Bacterial barrier and Waterproofness**
Reduces risk of infection and allows a patient to wash.
- 03. UV protection**
Protects the wounded skin from discoloration caused by UV.
- 04. Breathable Hydrocolloid wet dressing (Moisture vapor permeability)**
FHC is 7 times higher than the product D and allows the moisture to be released (MVTR). The number of wound healing substances increase within the FHC and concentrated allowing the time of wound healing process to decrease.



• FHC = Fluid Handling Capacity
• MVTR = Moisture Vapor Transmission Rate

🔑 Indication

Venous and arterial leg ulcers, Pressure ulcers, Diabetic ulcers, Superficial and partial thickness burns, Skin grafts and skin donor sites, Lacerations and abrasions, Trauma wounds, Post operative wounds



CGDERM™

In the absence of an immune response, the role of dermis is to provide the necessary framework for the input of fibroblasts and the regeneration of nerves, and blood vessels. CGDerm is an acellular dermal matrix allograft and applied to soft-tissue defects. Compared to other products, CGDerm has morphologically the most similar matrix to human dermal tissue and gives significantly better tensile strength and elasticity.



Advantages of CGDERM

01. Safety

No immune rejection after acellularizing process. CGDerm meets the safety criteria of KFDA and US FDA permitting sale ability in the United States.

02. Effectiveness

Equal or better uptake rates compared to other existing dermal matrix allograft and dermal matrix xenograft.1,2

03. Convenience

Custom-made sizes for the intended use

Indication

Grafting – Burns, ulcers, wound coverage, contracture removal Breast (Post-mastectomy) – Breast reconstruction Abdominal Wall Repair – Hernia



easydew

Containing DW EGF

Easydew can be applied after a dermatological treatment or certain skin problems to treat the damaged, dry and sensitive skin layer. After dermatological treatment, your skin is more exposed to irritation and stimulation and redness. Therefore, it is necessary to have specific care such as rejuvenation, moisturizing and sun protection for fast stabilization and recovery of the skin.



Mechanisms

01. Re-epithelialization

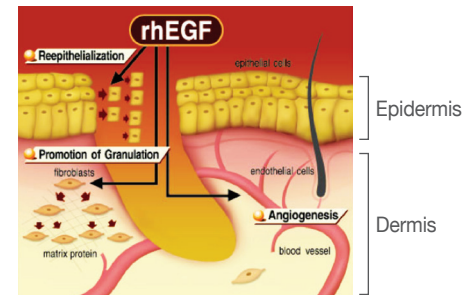
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03. Angiogenesis

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Advantages of Easydew CR

01. Skin Repair

Daewoong EGF contains nano-liposomes that quickly stabilize damaged skin.

02. Skin Moisturizer

Contains 100% natural moisturizing ingredients (Camellia and mistletoe oil) making Easydew® a stronger moisturizer. It does not contain steroids.

03. Formation of Skin Barrier

Contains a high concentration of natural ceramide which improves skin elasticity and prevents moisture-related damage.

Indication

Burn, skin-transplantation areas, bedsores, preventive management of diabetic foot ulcers, dermatitis due to radiological treatment, broad range of general wounds



Scarsense®

Scarsense® Is used to minimize and reduce scars resulting from traumatic or surgical injuries. The Silcon Technology of Scarsense® provides superior silicone flexibility and adhesion. Meanwhile the Teflon provides a combination of strength and elasticity. Technology that improves physical properties of the product has patent-protection in the United States and related countries.



Mechanisms

01. Water supply

Hydration ▷ decrease capillary activity ▷ Reduced accumulation of collagen
▷ scar contraction

02. Temperature rise

Temperature rise ▷ Collagenage enabled ▷ Collagen degradation
▷ scar contraction

03. Increase in the partial pressure of oxygen

Increased pressure ▷ decreased angiogenesis
▷ collagen production is reduced ▷ scar contraction

Advantages of Scarsense

01. Thin & Flexible

Made of silicon material so that provides strong flexibility.

02. Breathable

Breathable sheet used without causing skin irritation.

03. Pre-Cutting

For being cut-customized Scarsense® can be used efficiently in specific medical specialties.

Indication

Caesarean section, thyroidectomy, spine surgery, breast reconstruction, liver resection, transplantation, etc., or any other areas where scar formation is expected to occur.



Easyef[®] Ointment

Rh-Epidermal Growth Factor

New concept for acute wound healing with Nepidermin[Rh-EGF] as its active ingredient. Easyef ointment is safe because the product does not contain any steroid and antibiotics.



Mechanisms

01. Re-epithelialization

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02. Formation of granulation tissue

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03. Angiogenesis

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Advantages of Easyef ointment

01. Identical Natural Human EGF

Has the same structure and activity as the human EGF.

02. Clinical Evidence

Easyef clinical outcome (phase II, III) of acute wound showed a significant difference in healing time compared to standard therapy.

03. No Significant Adverse effect

Clinical trial in humans has proven the safety of Easyef.

Indication

Additional local treatments on wounds and skin ulcers