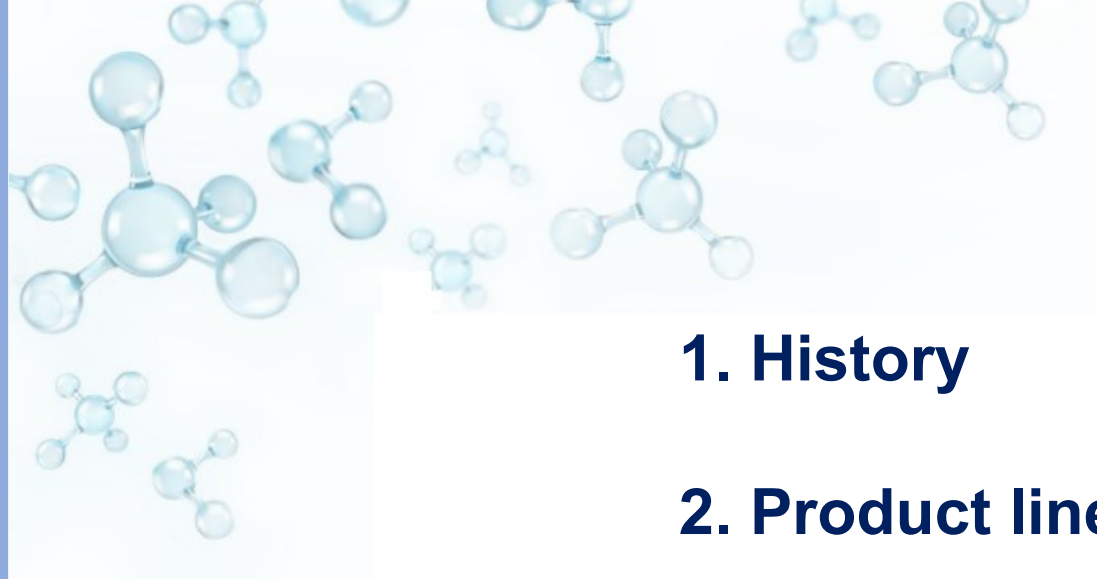


Expert in wound healing

# DAEUN MEDICAL



# Contents



**1. History**

**2. Product line**

**3. Certificate & Patent**

**4. Mechanism**

**5. Main products**

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# History



# Product line



Medical Device



Veterinary  
Medical Device



Cosmetic

# Certificate

ISO 9001, ISO 13485, ISO 22716

INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body No. MSCB-105

**CERTIFICATE**

No. 23-A-3585 Rev. 0  
DAEUN Medical

1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
Bucheon-si, Gyeonggi-do, Republic of Korea  
Company Reg. No.: 130-41-84250

has documented and implemented system in compliance with the requirements of

**ISO 9001:2015**  
Quality Management System  
for  
Production of Sales of Cosmetics Product and Animal Medical Devices

IAF Code: 12, 19

The certificate is issued on the basis of the results mentioned in the pertinent audit report.  
Validity of the certificate is conditionally limited by positive results of surveillance audits,  
which the certified company is committed to undergo.

This certificate can be invalid if the certificate holder does not fulfill the conditions set out in  
the certification agreement.

Initial issue date: Jul. 27, 2017  
 Re-issue date: Aug. 08, 2023  
 Expire date: Jul. 26, 2026

  
 G. Gilbert  
 Head of Certification Body





Rm. 501, Daeryung techno town, 638, Seobusan-gil,  
 Geumcheon-gu, Seoul, Republic of Korea  
 www.igcert.org



INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body No. MSCB-105

**CERTIFICATE**

No. 23-B-0206 Rev. 0  
DAEUN Medical

1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
Bucheon-si, Gyeonggi-do, Republic of Korea  
Company Reg. No.: 130-41-84250

has documented and implemented system in compliance with the requirements of

**ISO 13485:2016**  
Medical Devices Quality Management System  
for  
Production and Sales of Wound dressing

**Technical Area:**  
A: Non-active Medical Devices - Devices for wound care

The certificate is issued on the basis of the results mentioned in the pertinent audit report.  
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(Exclusions : Clause 7.3 / 7.5.3 / 7.5.4 / 7.5.9.2 / 7.5.10 / 8.3.4)

Initial issue date: Aug. 03, 2017  
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 Expire date: Aug. 02, 2026

  
 G. Gilbert  
 Head of Certification Body





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INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body

**CERTIFICATE**

No. 21-H-0091 Rev. 0  
DAEUN Medical

1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
Bucheon-si, Gyeonggi-do, Republic of Korea  
Company Reg. No.: 130-41-84250

has documented and implemented system in compliance with the requirements of

**ISO 22716:2007**  
Cosmetic – Good Manufacturing Practices (GMP)  
for  
Production of Skin Care Products(Lotion) and Hair Care Products(Lotion)

The certificate is issued on the basis of the results mentioned in the pertinent audit report.  
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Initial issue date: Dec. 04, 2018  
 Re-issue date: Aug. 31, 2021  
 Expire date: Dec. 03, 2024

  
 G. Gilbert  
 Head of Certification Body



Rm. 501, Daeryung techno town, 638, Seobusan-gil, Geumcheon-gu, Seoul, Republic of Korea  
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# Certificate

## Patent



# Certificate

U.S. FDA

## Establishment Registration & Device Listing

[FDA Home](#) [Medical Devices](#) [Databases](#)

[New Search](#)

[Back To Search Results](#)

**Proprietary Name:** DWA-DE, DWA-HE, DWA-AT, Neo Hemoseal, Vi-Low Gel, Endotra Gel, Neo Derm Sil, Chieut Intensive Care Gel, Vi-Low Gel Forte; Eco Shield, Dr. Lacle Wound Care; Hermedi, Mucorex, Mucotect; I-Spray, Chieut Daily Care Spray.; METISDERM S.O.S SCALP SOLUTION BLACK, Neo Derm Spray, Eco Hairskin; NDA Plus, Neo Dermal Activator Plus, Eco AT Gel; NDA-X, NDA-a, Vi-Low Gel Plus, Neo Surgi Gel; Neo HC Gel, CARE VITA-M; Neo Mucosal Activator, Neo Dermal Activator, HyFer OraShot; Neo Mucosal Forte, METISDERM S.O.S SCALP SOLUTION, Neo Nose Forte; Neo Skin-D, Can Oral Dr.; ReFoot Touch, Neo Mucosal Max, Neo Nose Max, Xeno Derm Spray, Xeno Actovizole, Xenosten, Xenopren, XenoMax; Skin AtoZ, METISDERM S.O.S SKIN SOLUTION, Fau Skin Solution SOS Cream MD,

**Classification Name:** DRESSING, WOUND, HYDROGEL WITHOUT DRUG AND/OR BIOLOGIC

**Product Code:** [NAE](#)

**Device Class:** 1

**Regulation Number:** [878.4022](#)

**Medical Specialty:** General & Plastic Surgery

**Registered Establishment Name:** [DAEUN MEDICAL](#)

**Registered Establishment Number:** 3014848316

**Owner/Operator:** [DAEUN MEDICAL](#)

**Owner/Operator Number:** 10058365

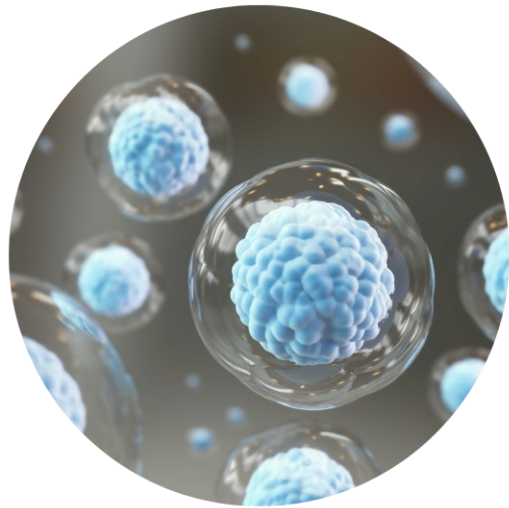
**Establishment Operations:** Manufacturer

# Mechanism





# Goal of Daeun



**Skin  
Regeneration**

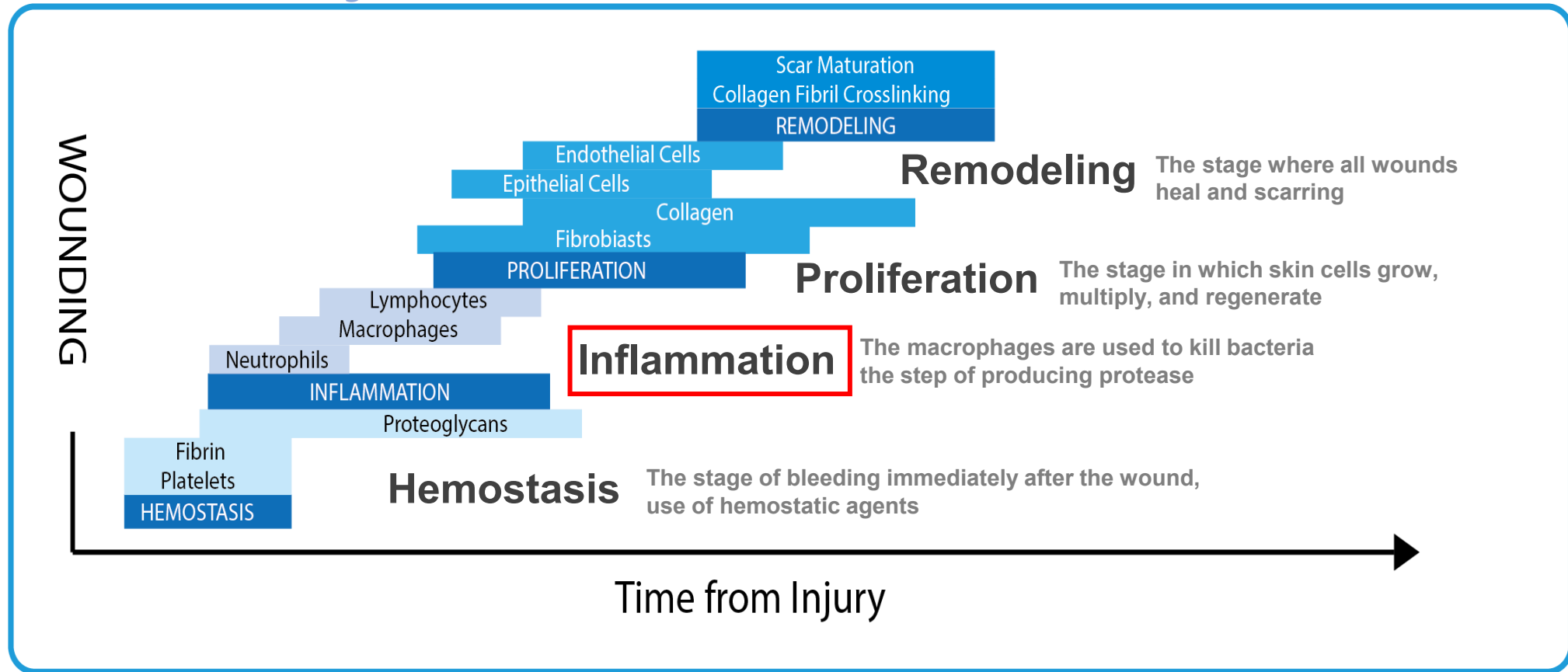


**Pain  
Relief**



# Wound Healing Process

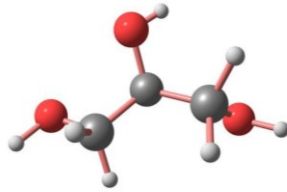
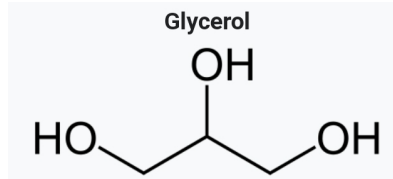
Act in the inflammation stage



Unlike other products that act in the proliferative stage, our products act from the inflammation stage in the previous step to provide wound care

# PULLING & BINDING

Key of mechanism



## PULLING

Glycerol, the main ingredient, attracts bodily fluids to the wound, **PULLING** out unnecessary and harmful substances that hinder skin healing, by utilizing osmotic pressure.



## BINDING

Natural substances from plants like green tea and wine, which have hydroxyl groups that strongly **BIND** to proteins, and tannins work together to **BIND** proteins like viruses and bacteria.

# Product line



Medical Device



Veterinary  
Medical Device



Cosmetic

# Certificate

ISO 13485, ISO 22716, ISO 9001

INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body No. MSCB-105

**CERTIFICATE**

**No. 23-B-0206 Rev. 0**  
**DAEUN Medical**  
 1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
 Bucheon-si, Gyeonggi-do, Republic of Korea  
 Company Reg. No.: 130-41-84250

has documented and implemented system in compliance with the requirements of

**ISO 13485:2016**  
**Medical Devices Quality Management System**  
 for  
**Production and Sales of Wound dressing**

**Technical Area:**  
 A: Non-active Medical Devices - Devices for wound care

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Initial issue date: Aug. 03, 2017  
 Re-issue date: Aug. 08, 2023  
 Expire date: Aug. 02, 2026

  
 G. Gilbert  
 Head of Certification Body

  
 ISO 13485 CERTIFIED

  
 IAS ACCREDITED

  
 IAF ACCREDITED

Rm. 501, Daeryung techno town, 638, Seobusot-gil,  
 Gumi-cheon-gu, Seoul, Republic of Korea  
 www.igcert.org



INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body

**CERTIFICATE**

**No. 21-H-0091 Rev. 0**  
**DAEUN Medical**  
 1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
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INSTITUTE OF GLOBAL CERTIFICATION

  
 Institute of Global Certification  
 Management System Certification Body No. MSCB-105

**CERTIFICATE**

**No. 23-A-3585 Rev. 0**  
**DAEUN Medical**  
 1404, 1405, SAMBOTECHNOTOWER, 122, Jomaru-ro 385beon-gil,  
 Bucheon-si, Gyeonggi-do, Republic of Korea  
 Company Reg. No.: 130-41-84250

has documented and implemented system in compliance with the requirements of

**ISO 9001:2015**  
**Quality Management System**  
 for  
**Production of Sales of Cosmetics Product and Animal Medical Devices**

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# Certificate

## Patent



# Certificate

U.S. FDA

## Establishment Registration & Device Listing

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**Proprietary Name:** DWA-DE, DWA-HE, DWA-AT, Neo Hemoseal, Vi-Low Gel, Endotra Gel, Neo Derm Sil, Chieut Intensive Care Gel, Vi-Low Gel Forte; Eco Shield, Dr. Lacle Wound Care; Hermedi, Mucorex, Mucotect; I-Spray, Chieut Daily Care Spray.; METISDERM S.O.S SCALP SOLUTION BLACK, Neo Derm Spray, Eco Hairskin; NDA Plus, Neo Dermal Activator Plus, Eco AT Gel; NDA-X, NDA-a, Vi-Low Gel Plus, Neo Surgi Gel; Neo HC Gel, CARE VITA-M; Neo Mucosal Activator, Neo Dermal Activator, HyFer OraShot; Neo Mucosal Forte, METISDERM S.O.S SCALP SOLUTION, Neo Nose Forte; Neo Skin-D, Can Oral Dr.; ReFoot Touch, Neo Mucosal Max, Neo Nose Max, Xeno Derm Spray, Xeno Actovizole, Xenosten, Xenopren, XenoMax; Skin AtoZ, METISDERM S.O.S SKIN SOLUTION, Fau Skin Solution SOS Cream MD,

**Classification Name:** DRESSING, WOUND, HYDROGEL WITHOUT DRUG AND/OR BIOLOGIC

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**Owner/Operator Number:** 10058365

**Establishment Operations:** Manufacturer

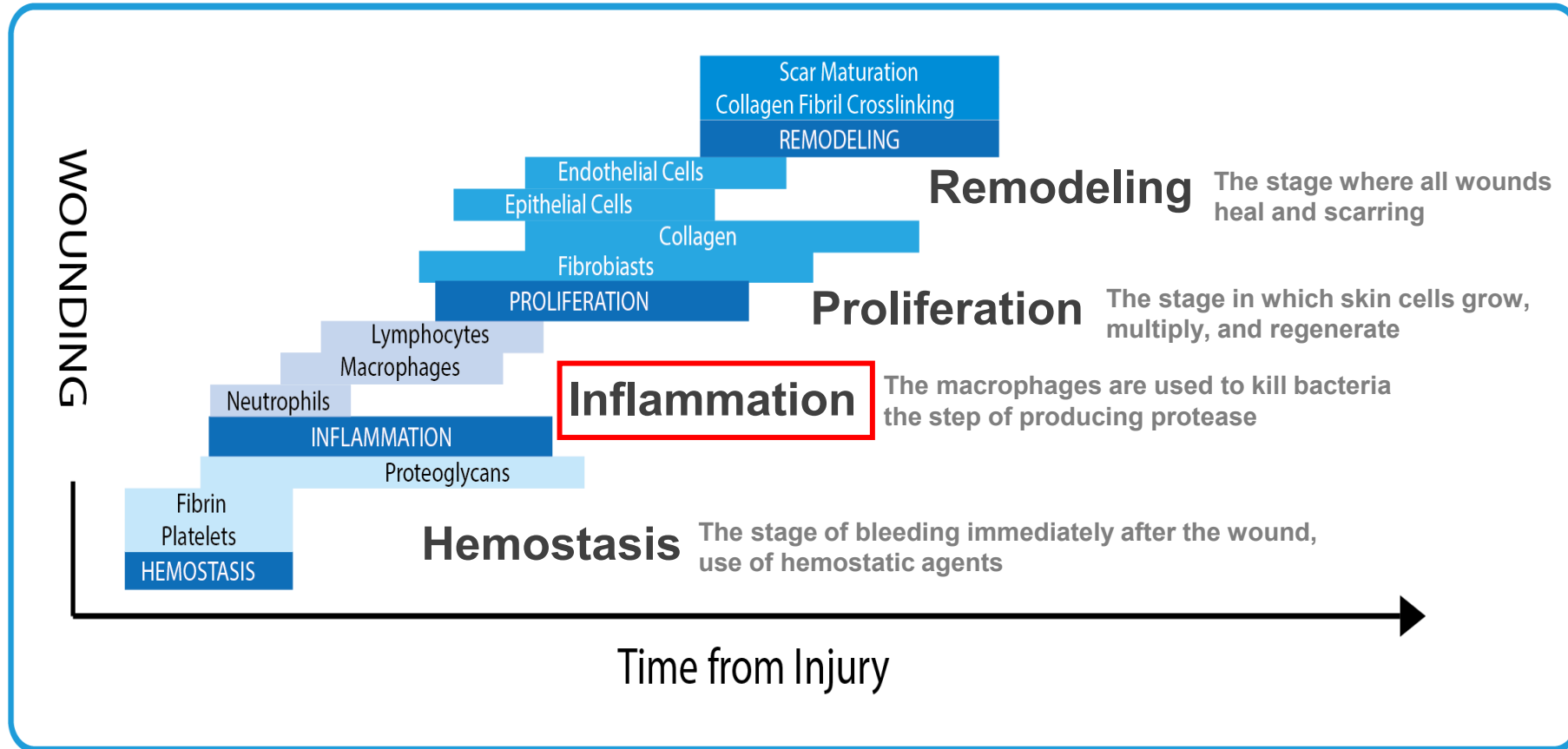
# Mechanism





# Wound Healing Process

Act in the inflammation stage



Unlike other products that act in the proliferative stage, our products act from the inflammation stage in the previous step to provide wound care

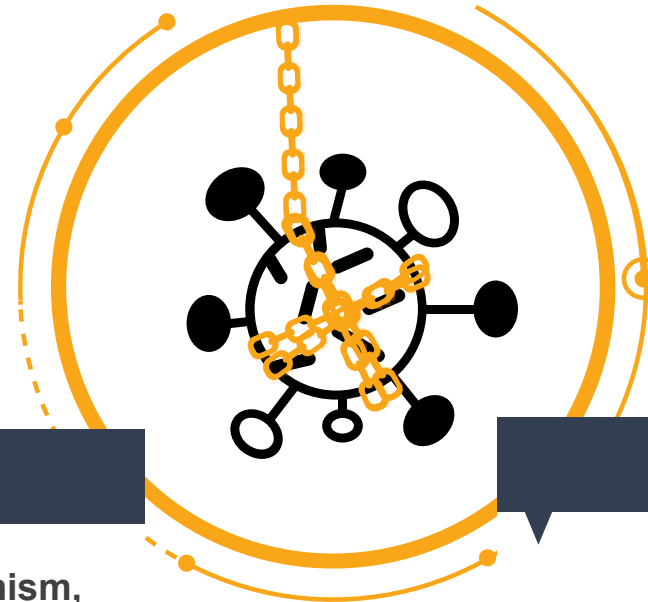
# PULLING & BINDING

Key of mechanism



## PULLING

In osmotic pressure mechanism, The product drags body fluid out of the wound area which contains the viruses and various sort of negative substances.



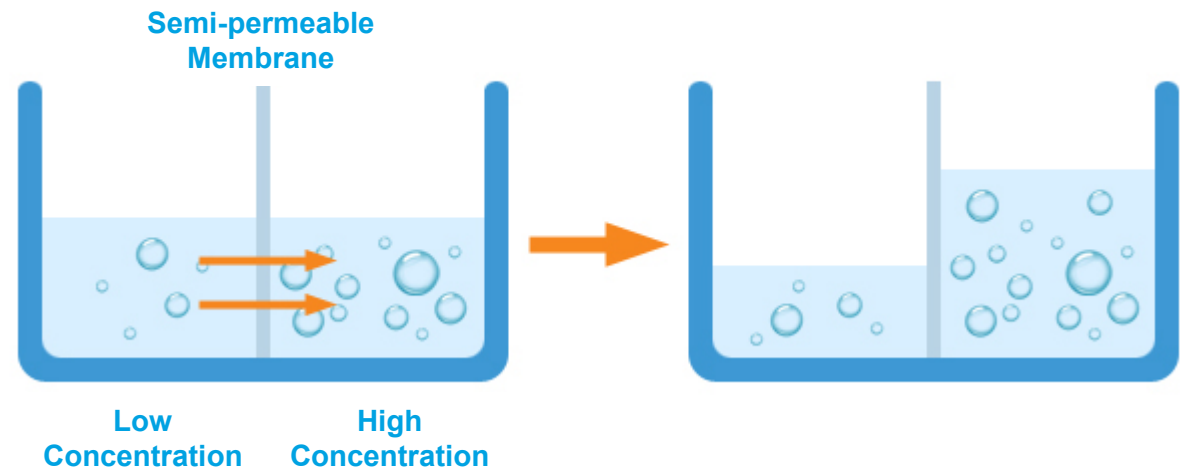
## BINDING

Tannin, once expelled extracellularly, prevents the re-infiltration of viruses, bacteria, etc. by binding.

# PULLING

## Osmotic pressure

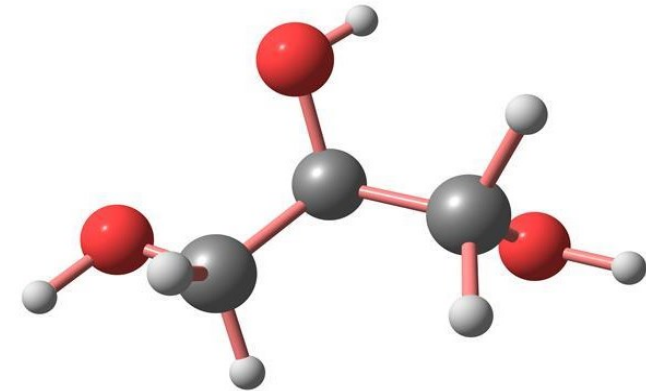
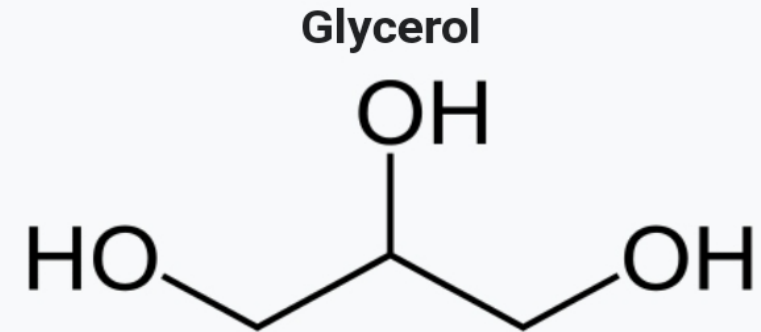
- When two liquids with different concentrations are blocked with a semi-permeable membrane, the solvent moves from the low concentration of the solute to the high concentration
- The action of using osmotic pressure to pull body fluids from the body to the outside of the body.



# PULLING

## Glycerol

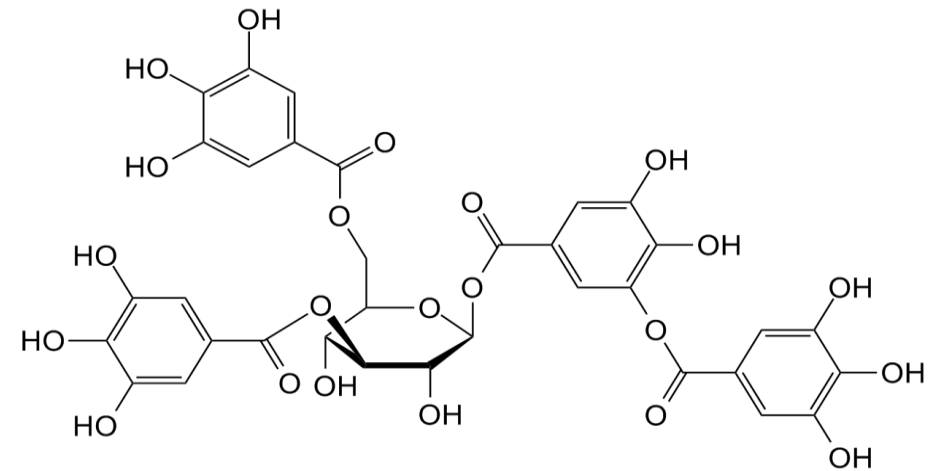
- Using glycerol, which has a large molecular weight and forms a strong bond with water molecules, to make a difference in concentration and induce a strong osmotic pressure
- The role of pulling body fluid within the wound by the principle of osmotic pressure
  - Minimize the risk of cell infection by reducing the virus inside the wound during this process.
- Glycerol with high molecular weight is not absorbed into the cell membrane.
  - The role of forming a membrane over a wound.



# BINDING

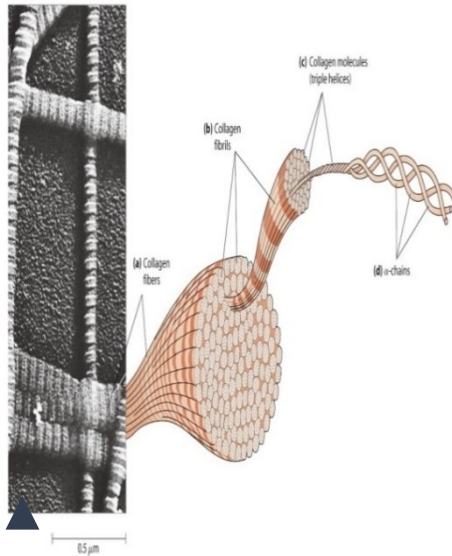
## TANNIN

- Natural substances extracted from plants as indicator substances such as green tea and wine
- Contains many Hydroxyl groups, which bind strongly to protein
- Tannin in DAEUN MEDICAL Products combines with proteins such as viruses and bacteria to precipitate these molecules

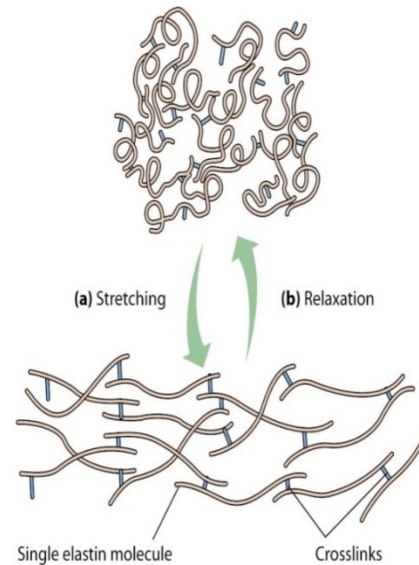


# ECM : Extracellular Matrix

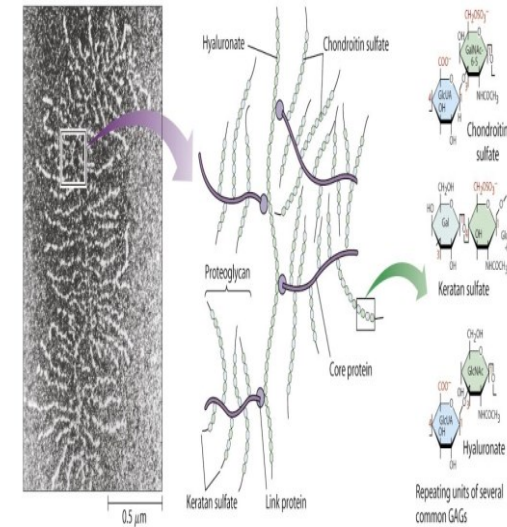
## Purpose of ECM



COLLAGEN



ELASTIN



HYALURONIC ACID

## ECM, Extracellular Matrix

- ECM provides structural and biochemical support to surrounding cells
- ECM is essential for cell proliferation

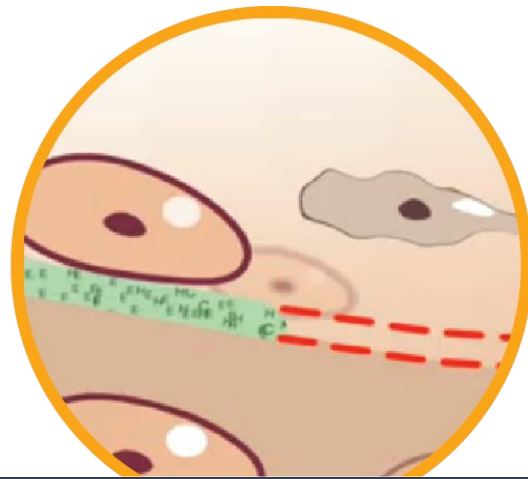
# The Role of ECM In Wound Healing

Protease inhibition effect of tannin



1

Cells grow on the  
Extracellular Matrix



2

When our body has a wound,  
it produces protease.  
However, excessive protease  
resolves ECM as well.

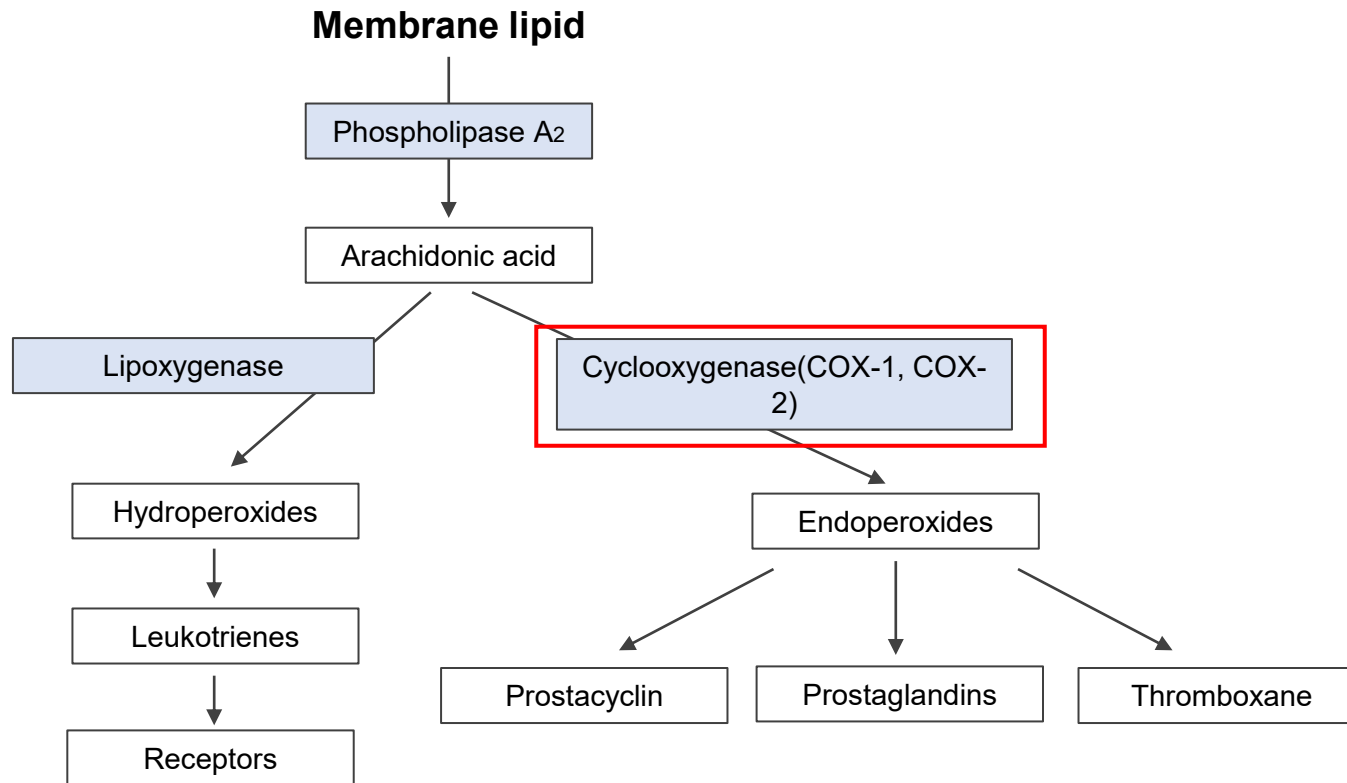


3

DAEUN MEDICAL product  
eliminates protease and  
protects ECM helping cell  
proliferation

# Pain Relief Mechanism

Oxygenase inhibition effect of tannin



## Pain Relief Mechanism

- Damaged cells release Arachidonic acid from the cell membrane of phospholipids
- A protease called Cyclooxygenase converts it into Prostaglandin, a pain-causing substance
- Reduce pain by reducing Cyclooxygenase



# PULLING & BINDING

Using effect of products

| Causal substance              | Causal substance influence                       | Causal substance removal effect        |
|-------------------------------|--|--|
| Virus, Bacteria, Fungus, etc. | Infection, Inflammation                          | Infection Prevention,<br>Wound Healing |
| Protease                      | ECM decomposition,<br>Delayed cell proliferation | ECM Protection, Cell<br>Proliferation  |
| Pain-causing substances       | Pain Induction                                   | Pain Relief                            |

# | Main Products & PMS



# Main products

Medical device



## NDA Plus



NDA Plus is a wound healing product for a serious deep wound.

Serious Wound

Net Weight: 1g, 5g, 10g, 20g

- + Burn
- + Diabetic Ulcer
- + Pressure Sore
- + Surgical Wound

# Main products

Medical device



## Neo Mucosal Forte



NMF is a wound healing product for the oral cavity and surgical wound.

| Oral and Surgical Wound  | Net Weight: 15g, 18g, 20g, 25g  |
|--|---|
| <ul style="list-style-type: none"> <li>✦ Stomatitis</li> <li>✦ Cancer-related Mucositis</li> </ul> | <ul style="list-style-type: none"> <li>✦ Cheilitis</li> <li>✦ Hand-Foot-and-Mouth Disease</li> <li>✦ Pharyngitis</li> </ul> |

# Main products

Medical device



## Neo HC Gel



Neo HC Gel is a healing product for virus, especially Herpes, causing wound.

Herpes sore

Net Weight: 1g, 5g, 10g, 20g, 30g

✦ Dermatitis Herpetiformis

✦ Herpes Zoster

✦ Cold Sore

✦ Herpetic Stomatitis

✦ Herpetic Otitis

✦ Herpetic Lesions

# Main products

Medical device



## DWA-DE



DWA-DE is a wound healing product for skins where skin barriers are destroyed, such as Hemorrhoid & Piles.

Hemorrhoid & Piles

Net Weight: 1g, 6g, 10g, 20g

✚ Internal/External Hemorrhoid & Piles

# Main products

Medical device



## DWA - AT



DWA- AT is a wound healing product for dry skin where the skin barrier is damaged. It relieves the symptoms like redness, itchiness, etc.

Dry Skin

Net Weight: 1g, 5g, 10g, 20g, 30g

+ Psoriasis

+ Atopic Dermatitis

+ Eczema

# Main products

Medical device



## Skin Atoz



Skin Atoz is a wound care product for the skin where the skin barrier has been destroyed.

Destroyed Skin

Net Weight: 100g

+ Atopic Dermatitis

+ Laser skin treatment



# Main products

Medical device



## Eco Shield



Eco Shield is a wound healing product for the nasal cavity. It is perfect for the low-exudate wound. No-Steroid, no-antihistamines, no antibiotics.

| Nasal Wound   | Net Weight: 10g, 15g, 20g, 30g, 40g, 50g                       |
|---|--|
| <ul style="list-style-type: none"> <li>+ Rhinitis</li> </ul>          | <ul style="list-style-type: none"> <li>+ Sinusitis</li> </ul>  |
| <ul style="list-style-type: none"> <li>+ Allergic Rhinitis</li> </ul> | <ul style="list-style-type: none"> <li>+ Sinus cold</li> </ul> |

# Main products

Medical device



## Neo Skin-D



Neo Skin-D is a scar care product which helps to flatten and fade the scar.

Scar Care

Net Weight: 1g, 5g, 6g, 10g, 20g, 30g

- + Scar Care(after cesarean sections or cosmetic surgery)
- + Keloid-prone Scars

# Main products

Medical device



## Eco HairSkin



Eco HairSkin is scalp moisturizer which keeps scalp alive and healthy.

Dry Scalp

Net Weight: 30ml, 50ml, 100ml

+ Dandruff

+ Dry Scalp

+ Seborrheic Dermatitis

+ Hair Loss

+ Scalp Inflammation for Infants

# Main products

Medical device



## I-Spray



I-Spray is a eye care product which helps to provide lipid supplement of the tear film and keeps the eyes in the best condition.

Dry eye

Net Weight: 30g

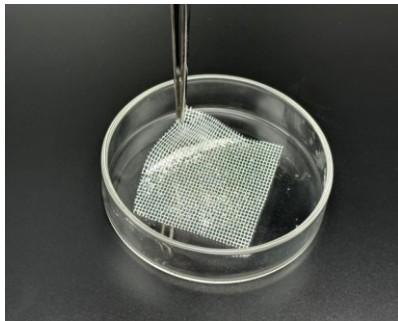
- |           |  |
|-----------|--|
| + Dry eye | + Post Operation(LASIK, LASEK, Cataract Surgery) |
|-----------|--|
- + Eye fatigue from Blue light exposure

# Brand-new Products

Medical device

## Dermal Guard Sheet

Dermal Guard Sheet is used for the protection of areas with compromised skin barriers, as well as for absorption of exudate, prevention of fluid loss, and contamination control.



Serious Wound

Size : 7x15, 7x7 (cm)

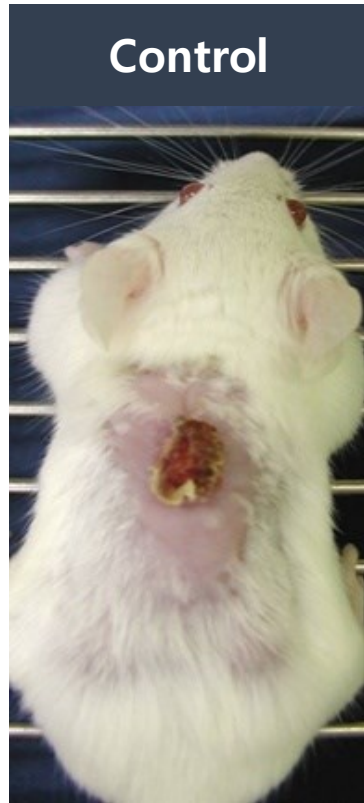
- + Burn
- + Diabetic Ulcer
- + Pressure Sore
- + Surgical Wound
- + Wound recovery post cosmetic surgery

# Case study



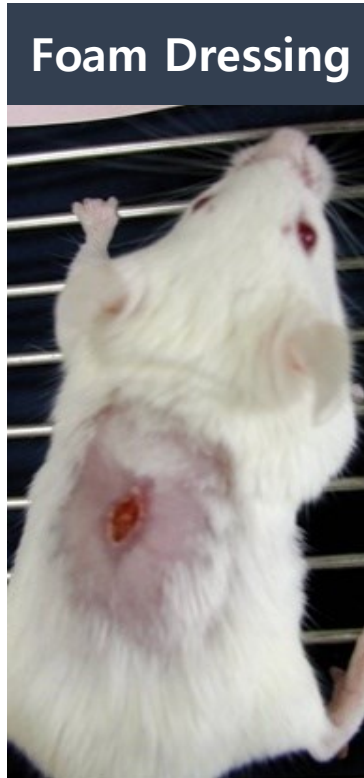
# Animal Testing 1

Day 2



# Animal Testing 1

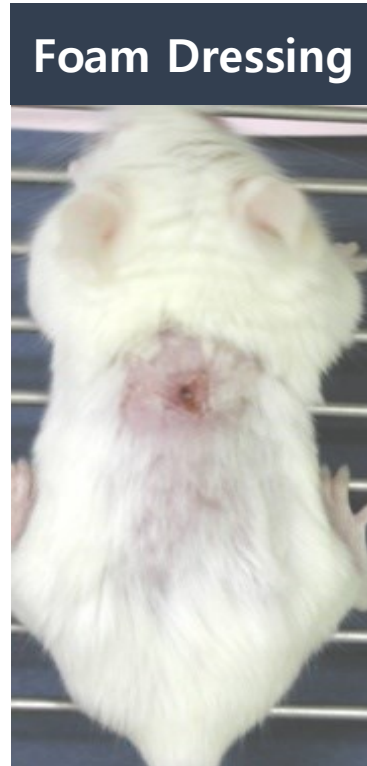
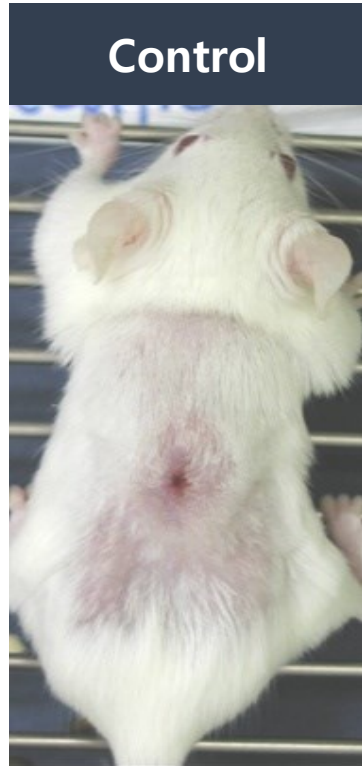
Day 5





# Animal Testing 1

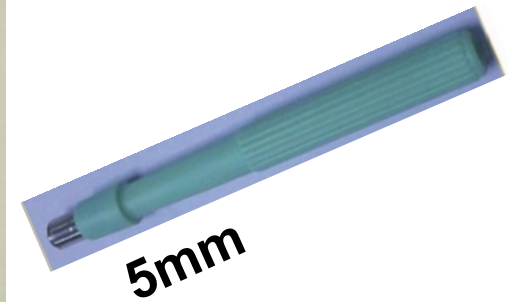
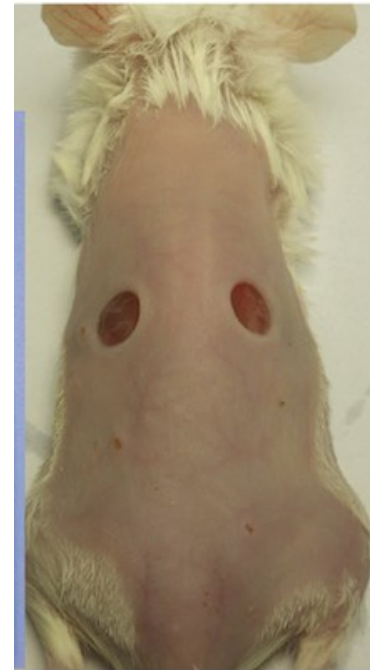
Day 8



# Animal Testing 2

## Experiment Design

- **Mouse**  
: BALB/C Twenty
- **Wound model**  
: **Mouse dorsal excisional wound**



# PMS

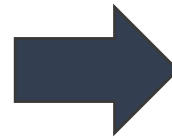
## Case 1: Bedsore

66y Male

- Name of diagnosis: cerebral infarction, paralysis on the left side, diabetes, bladder cancer
- Nursing problems - Decubitus ulcer in the left ankle area
- NDA Plus used 3 times in total, once a week for 3 weeks



Pre-treatment (2011. 4. 27)



After 3 weeks of treatment

# PMS

## Case 2: Diabetic Ulcer

**61y Male**

- Name of diagnosis – Diabetic ulcer on the right front leg
- NDA Plus used 9 times in total, once a day for 9 days



**Day 1**



**Day 5**



**Day 9**

# PMS

## Case 3: Cyst

28y Male

- Name of diagnosis – Cyst on foot surgery
- NDA Plus used 12 times in total, once a day for 12 days



Day 1



Day 3



Day 5



Day 12

# PMS

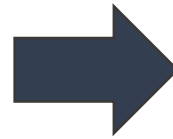
## Case 4: Surgical Wound, Infection

44y Male

- Name of diagnosis – Infection from the surgery
- Nursing problems – Upper left side on the leg
- NDA Plus used 7 times in total, every two days for 14 days



Day 1



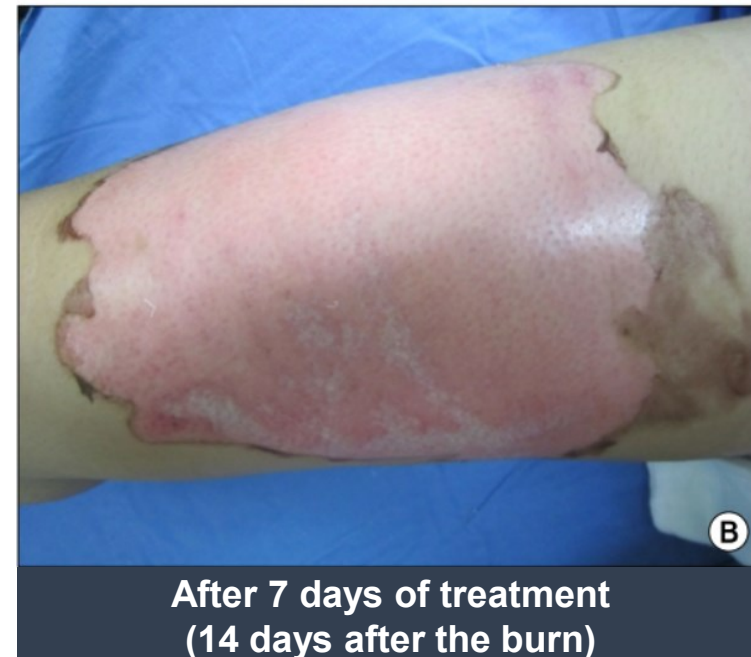
Day 14

# PMS

## Case 5: Burn

**29y Female**

- Name of diagnose : a second degree Burn
- Nursing problem : Burn on calf
- NDA Plus used 3 times in total for 7 days



# PMS

## Case 6: Surgical Wound

49y Female

- Scars after 6 months of mastectomy
- NDA Plus used case



Left : Control (Not using NDA Plus)



Right: NDA Plus used



# PMS

## Case 7: Caesarean Section

**32y Female**

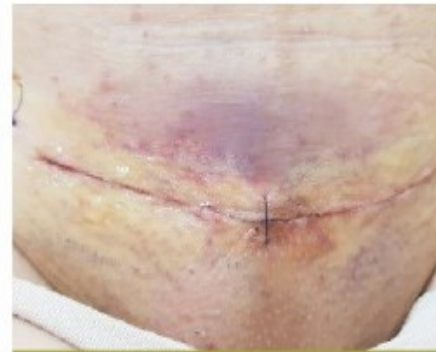
- Name of diagnose : Caesarean Section
- Neo Skin-D used 8 times in total, once a day for 8 days



OP Day



Post OP Day 1



Post OP Day 3



Post OP Day 8

# PMS

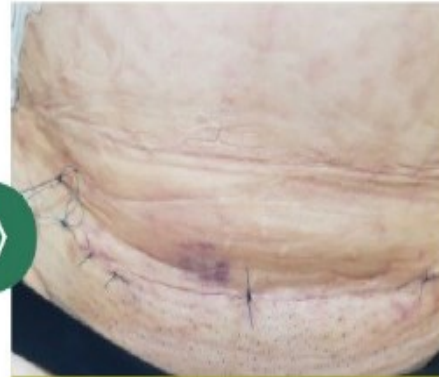
## Case 8: Caesarean Section

**28y Female**

- Name of diagnose : Keloid scars after Caesarean Section
- Neo Skin-D used 8 times in total, once a day for 8 days, after keloid scar removal surgery



OP Day



Post OP Day 1



Post OP Day 4



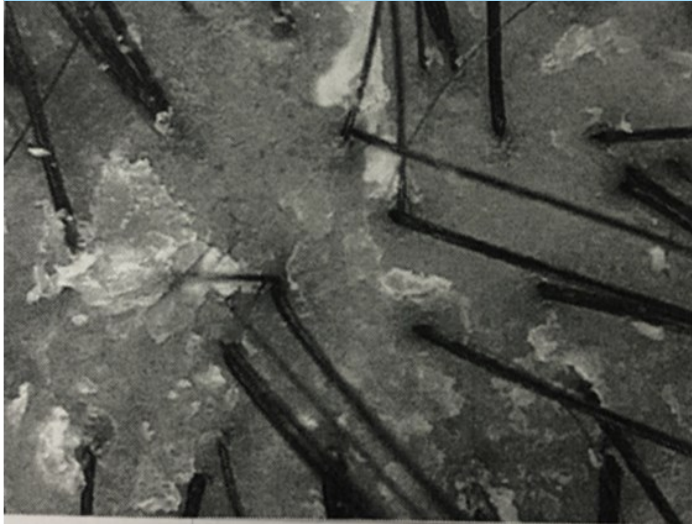
Post OP Day 8

# PMS

## Case 9: Seborrheic Dermatitis

### Use of Eco Hairskin for Seborrheic Dermatitis

Before



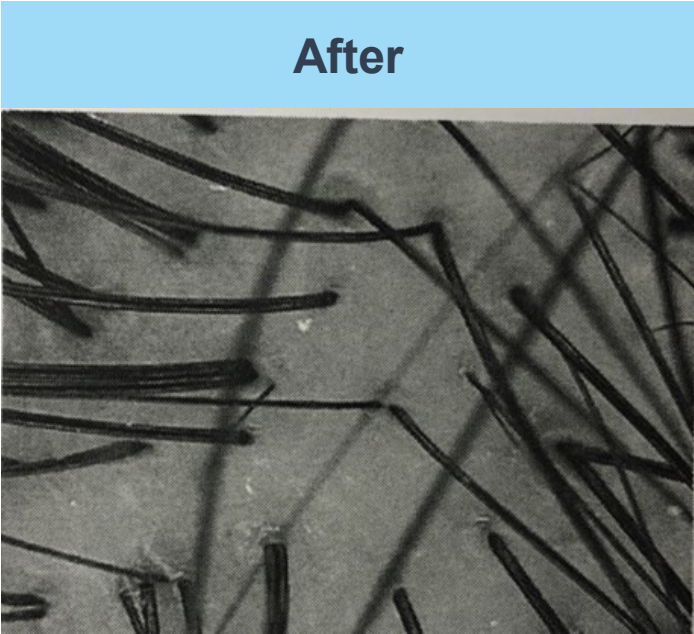
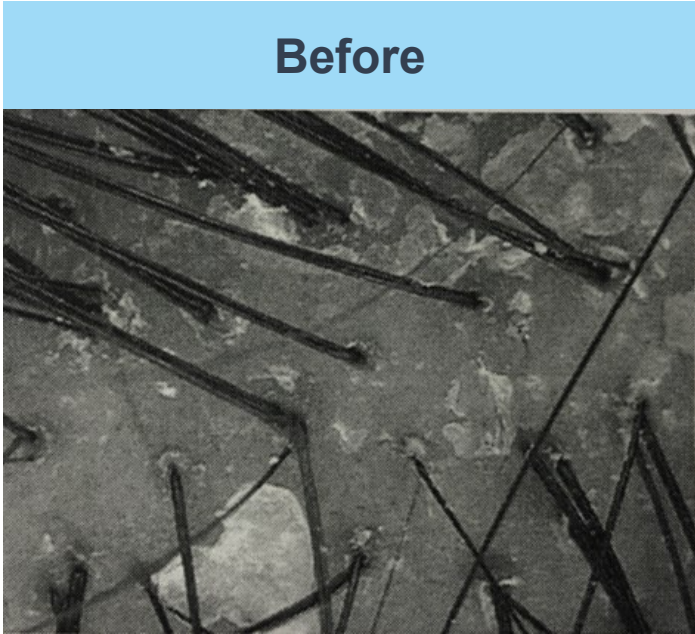
After



# PMS

## Case 10: Seborrheic Dermatitis

### Use of Eco Hairskin for Seborrheic Dermatitis



# PMS

## Case 10 : Laser Skin Treatment

- Treatment name: Fraxel laser procedure
- Experimental group(using Skin Atoz), Control group(not using product)



- **Nothing used** on this side of the face.
- On the next day, patient had soreness and redness was observed



- After the laser skin treatment, **used Skin Atoz** on the left side, **3 times for a day**.
- **Skin Atoz helped calming and decreased redness.**

# Thank you for your attention

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