

**BONNEHEURE**



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# BONNEHEURE Guidebook



## Recombinant Human Type III Collagen

New Generation Full long spacing Collagen 1068  
Macromolecule/Long-Chain/High-Activity/Scar-Free Repair

**BONNEHEURE**  
**BONNEHEURE|Dedicated to Scar-Free**  
**Repair of Compromised Skin**

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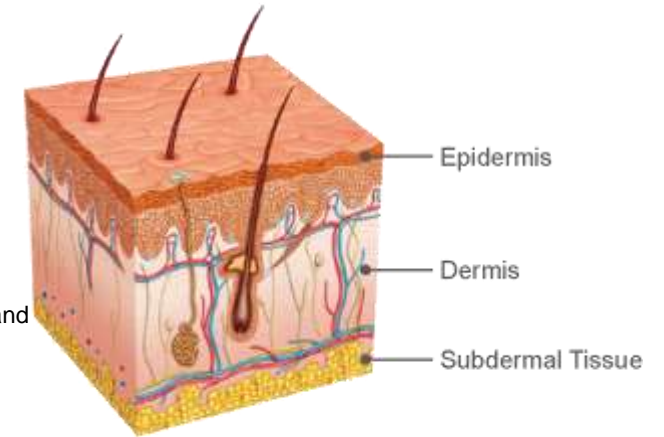
# 01 Skin Knowledge

## It is the largest organ of the human body

- Total skin weight comprises approximately 16% of body mass
- Adult skin surface measures 1.5m<sup>2</sup>, newborn skin approximately 0.21m<sup>2</sup>
- Skin thickness varies between 0.5~4mm, with substantial variations based on individual, age, and anatomical location

## Composition

The skin comprises the epidermis, dermis, and subcutaneous tissue, incorporating appendages (sudoriferous glands, sebaceous glands, finger and toe nails) plus vasculature, lymphatics, neural tissue, and muscular elements.



## Functions

As the body's primary defense barrier, the skin serves **protective, absorptive, sensory, secretory, excretory, thermoregulatory, and metabolic purposes.**

### • Quick Facts •

Prolonged use of high-alkalinity soap-based facial cleansers can compromise the skin barrier through over-cleansing, resulting in dehydration, sensitization, and inflammation. For skin health maintenance, opt for mild cleansers with skin-compatible pH levels.

# 02 Collagen Fundamentals

## Back to Basics - The Skin's Essential Core

Collagen constitutes over 75% of human skin composition, serving as the key component in maintaining cutaneous and tissue organ morphology and structure, while being vital for various tissue repair processes.

About 28 collagen types have been identified in the human body, with Types I and III making up more than 95%.



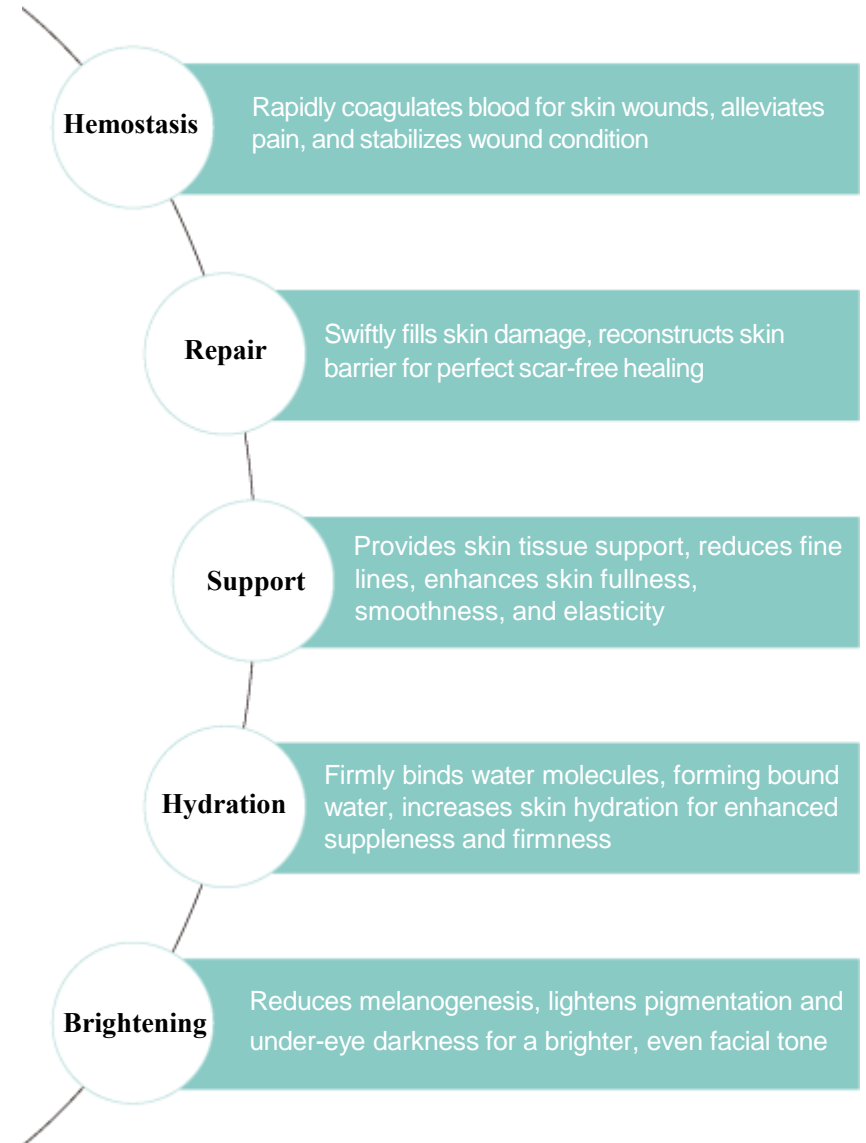
**Dr. J. Brandt**

The Global Father of Collagen declared in 1713, "Skin aging is essentially a process of substantial collagen depletion."

Physical aging manifests as dermal collagen depletion, which causes the breakdown of supporting collagen peptide chains and elastin matrix. Following helical network structure deterioration, dermal atrophy ensues, leading to skin laxity and progressive facial aging.

**Maintaining facial youth means replenishing what the skin needs!**

# 03 Five Important Benefits



## 04 Type I and Type III Collagen



**Type I collagen** accounts for roughly 85% of cutaneous tissue, featuring thick, bundled fibers that primarily provide structural support and stimulate epithelial cell proliferation.

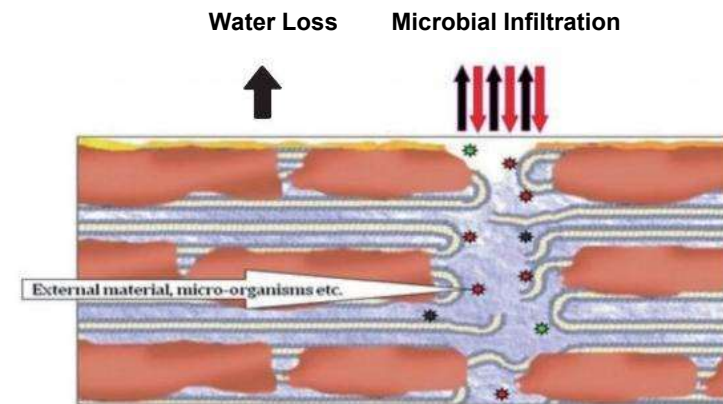
Excessive Type I collagen may result in scarification.



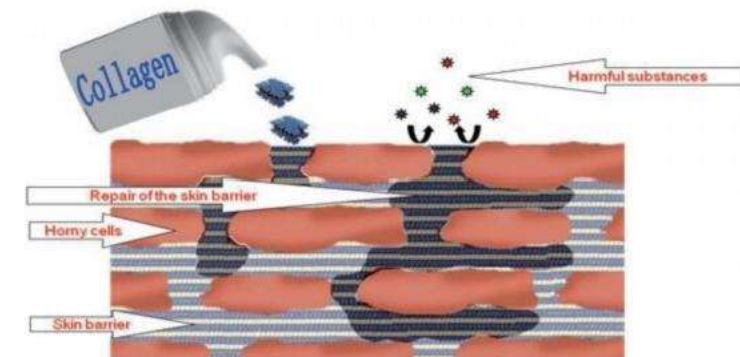
**Type III collagen** presents a loose reticular structure, representing approximately 60% in infant skin and 15-20% in adult dermis, primarily sustaining and restoring skin elasticity.

**Elevated Type III collagen levels** contribute to refined skin texture and reduced scar formation. .

## 05 Principles Of Collagen Repair



Following skin barrier compromise, water loss occurs and microorganisms including bacteria can penetrate the dermis, resulting in prolonged wound healing.



**RhCollagen** self-assembles into a collagen "fibrillar network" on wound surfaces, functioning as a physical barrier against external contaminants while maintaining optimal wound moisture, thus expediting cutaneous repair and regeneration.

# 06 Distinctions Between Animal-Sourced and Recombinant-Derived Collagen

The application of collagen has an extensive history with multiple sources. Animal tissue extraction was among our earliest methods of collagen procurement. However, with ongoing biotechnological advancement, genetic recombination-based fermentation production has emerged as the predominant method.

Origin	Animal-Sourced	Recombinant
Production Method	Chemical-enzymatic extraction from animal tissues	Genetic engineering fermentation
Viral Risk	Present	None
Allergic Reaction	Present	Minimal
Water Solubility	Non-water soluble	Readily water-soluble
PH	3.0-4.5	6.5-7.5
Denaturation Point	>37C-43°C	>72°C
Tissue Compatibility	Lower	High
Benefits	Abundant source, scalable manufacturing	Homologous with human collagen gene sequence, exhibiting all human collagen functionalities. High bioactivity, scalable production.
Limitations	Reduced bioactivity, potential viral and cytotoxicity risks	Higher production expenses

# 07 Distinctions Between Long-chain and Short-chain Collagen

Item	Next-Generation Long-Chain Collagen 1068	Short-Chain Collagen
Structure	Complete peptide sequence, high MW	Truncated sequences or hydrolyzed fragments, low MW
Application	Medical-grade collagen (device classification)	Cosmetic-grade
Benefits	Structural integrity, full biological activity	Superior permeability, dermal bioavailability
Limitations	Restricted dermal penetration	Incomplete functional sequences
Effects	Primary protective barrier, TEWL reduction, antimicrobial and particulate barrier	Primary dermal nutrition, enhanced cell turnover

### • Quick Facts •

In fact, large collagen molecules are bioavailable to the skin. When skin barrier is compromised, high molecular weight collagen can penetrate through micro-pathways in damaged areas, promoting regeneration. Intact skin's pilosebaceous units and eccrine glands can also facilitate partial absorption of macromolecular collagen. During regular application, high molecular weight collagen creates a protective barrier and undergoes enzymatic breakdown into amino acid molecules for dermal absorption, delivering essential nutrients to the skin.

# 08 BONNEHEURE VS Compromised Skin

Compromised skin refers to impaired skin barrier function resulting from physical trauma, chemical irritation, environmental factors, or internal conditions, characterized by dryness, desquamation, erythema, and stinging sensations, requiring gentle skincare approaches and restorative products for recovery.

**BONNEHEURE is specifically indicated for:**



# 09 Key Treatment Principles for Sunburn

Sunburn occurs from overexposure to ultraviolet radiation (UV), presenting symptoms within 1-24 hours, reaching maximum intensity within 72 hours (excluding severe cases). Symptoms progress from mild erythema with temporary desquamation to algesia, edema, skin tenderness, and vesication, typically requiring extended recovery periods.

Preventive measures include sun avoidance during peak hours, umbrella usage, wide-brim hat protection, long-sleeve coverage, dark fabric selection (due to superior UV filtering compared to light fabrics), sunscreen application on exposed regions, and restricted outdoor exposure during summer periods.

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Sunburn	BONNEHEURE Spray + Soothing Ointment (escalate to BONNEHEURE Gel for intense cases)	Direct spray application to sunburned areas as needed, unlimited frequency, paired with cooling ointment for inflammation relief. For severe sunburn, incorporate BONNEHEURE Gel.	Delivers dermal hydration, establishes fibrous matrix for moisture barrier, provides immediate soothing action and erythema reduction.

## Clinical Case: Sunburn



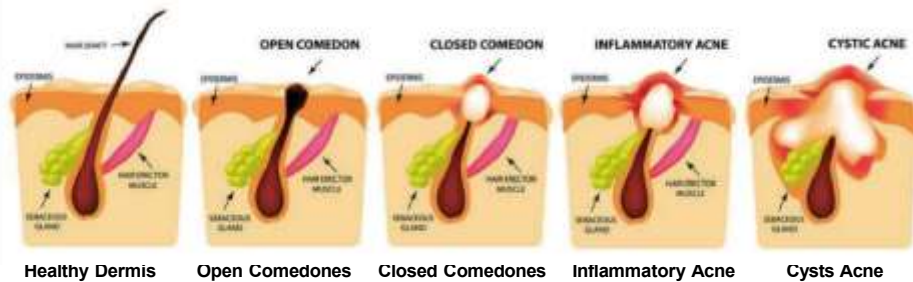
# 10 Key Treatment Principles for Facial Acne

Facial acne presents in multiple manifestations, primarily characterized by facial comedones, papules, pustules, and nodules as polymorphic lesions, with severe cases progressing to suppuration.

Primary pathogenesis involves excessive sebum production, follicular-pilosebaceous duct obstruction, resulting in pore blockage due to impaired sebum excretion, leading to bacterial proliferation, epidermal cell destruction, and subsequent inflammatory response.

## Acne Severity Grades:

Grade I	Grade II	Grade III	Grade IV
Comedones (Open/Closed)	Inflammatory Papules	Pustular	Cysts, Scarring, Ulceration
Mild	Moderate		Severe



### • Quick Facts •

According to the 2019 Chinese Acne Treatment Guidelines, topical antibiotics remain a cornerstone in acne therapy. The protocol recommends selecting antibiotics with dual action against *P. acnes* and inflammatory processes, and implementing combination therapy based on specific pathogenic mechanisms.

## Clinical Case: Facial Acne



Before

After

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Comedonal Acne	BONNEHEURE Spray + Metronidazole Gel	Post-cleansing application of BONNEHEURE Spray, 2-3 times daily, minimum 7-day duration, concurrent with Metronidazole Gel application.	Acne is fundamentally a follicular inflammatory condition, with primary therapeutic challenges being scar formation, pigmentation, and recurrence. BONNEHEURE products serve as prophylaxis against scarring and hyperpigmentation, optimizing barrier function restoration while normalizing skin condition through hydration and regeneration.
Pustular Acne Lesions	BONNEHEURE Spray + BONNEHEURE Gel + Povidone-iodine or Antibiotic Ointment	Post-antimicrobial treatment (with povidone-iodine or antibiotic preparations such as clindamycin phosphate gel/fusidic acid ointment), apply gel 2-3 times daily for a 15-day treatment cycle. May be used in conjunction with BONNEHEURE Spray. Severe cases may require oral minocycline.	
Post-Acne Marks and Atrophic Scarring	BONNEHEURE Gel (recommended in combination with laser therapy)	Apply BONNEHEURE Gel via spot treatment to post-inflammatory hyperpigmentation, 2-3 times daily for a 15-day treatment cycle. Severe cases of atrophic scarring and PIH are recommended for concurrent laser therapy.	

# 11 Key Treatment Principles for Dermatitis and Eczema

Dermatitis encompasses inflammatory skin conditions triggered by various **endogenous** and exogenous factors, characterized by pruritus, vesiculation, erythema, edema, often accompanied by exudation, crusting, and desquamation.

Clinical manifestations are diverse, primarily including contact dermatitis, atopic dermatitis, seborrheic dermatitis, neurodermatitis, and steroid-dependent dermatitis.

	Seborrheic Dermatitis	Contact Dermatitis	Steroid-Dependent Dermatitis	Atopic Dermatitis	Neurodermatitis
Symptomatology	Mild xerosis, with/without pruritus	Acute Stage: Notable algesia, pruritus, and thermal hyperesthesia Chronic Stage: Significant cutaneous dehydration	Steroid Cessation: Pronounced burning sensation, pruritus, and xerotic discomfort approximately 3 days post-discontinuation"	Chronic, relapsing, pruritic condition with eczematoid manifestations.	Cutaneous lichenification and dehydration
Affected Areas	Primary erythema or mild plaque formation	Pan-facial or localized contact regions	Primary malar distribution with erythematous presentation	Malar or flexural predilection	Possible pan-facial distribution

### • Quick Facts •

BONNEHEURE Type III recombinant collagen establishes a protective barrier for physical restoration without cutaneous irritation. Free from corticosteroids and synthetic pharmaceuticals, it is particularly suitable for special populations including pregnant women and infants with dermatitis/eczema.

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Acute Dermatitis/Eczema	BONNEHEURE Ointment + Oral Loratadine	Ointment TID, combined with loratadine for allergy symptom management, 7-day duration	Physical restoration without cutaneous irritation. Free from corticosteroids and synthetic pharmaceuticals, it is particularly suitable for special populations including pregnant women and infants with dermatitis/eczema.
Pediatric Dermatitis/Eczema	BONNEHEURE Ointment+ Tacrolimus	Combination therapy with tacrolimus, ointment BID-TID post-cleansing of affected areas, 15-day duration	

## Clinical Case: Dermatitis and Eczema



Before

After

### Supplementary Guidelines:

- ① Educational Intervention: The recurring nature of dermatitis manifestations frequently induces patient agitation, anxiety, and psychological distress. Therefore, it is recommended to emphasize therapeutic potential for resolution to mitigate fear and boost treatment confidence.
- ② Maintenance Care: Incorporate hypoallergenic and moisturizing medical skincare products to restore barrier function and reduce cutaneous sensitivity. Acute phase management may include cold spray/compress therapy; avoid facial massage.
- ③ Nutritional Management: Restrict intake of irritant foods and alcoholic beverages. Emphasize consumption of vegetables, fruits, and vitamin-rich dietary sources.



# 12 Key Treatment Principles for Sensitive Skin and Hormone-Dependent Dermatitis

## Sensitive Skin

Sensitive skin is an issue that can arise with any skin type, notable for its delicate, thin appearance and visible blood vessels.

### Common features of sensitive skin include:

1. A thin look with visible red capillaries (enlarged microvessels).
2. Prone to flushing easily with temperature shifts, becoming red and warm with exposure to cold or heat.
3. Easily affected by environmental elements, seasonal shifts, and skincare product irritation. This is often attributed to genetic factors and can be associated with systemic skin sensitivity.

### Challenges:

1. Experiencing redness, warmth, itching, and a stinging sensation when exposed to external triggers.
2. Severe reactions can include swelling and rashes.
3. Accompanied by an uneven complexion, with post-inflammatory marks or spots remaining after irritation clears.

### Clinical Case: Sensitive Skin



## Hormone-Dependent Dermatitis (Steroid Face)

Hormone-dependent dermatitis arises from the periodic or long-term overuse of steroid ointments or cosmetic products laced with hidden steroids, constituting a severe dermatological condition due to the toxic and adverse effects of steroids.

Unlike ordinary skin sensitivity or allergies, steroid-induced dermatitis severely disrupts the skin's normal structural and physiological integrity.

### Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Sensitive Skin/Steroid Face	BONNEHEURE Ointment + Halometasone/Mometasone Furoate/Red and Yellow Light Therapy	Use in conjunction with Halometasone, Mometasone Furoate, or red and yellow light therapy. Apply the Ointment 2-3 times a day after cleansing, continuing for at least 3 months.	This treatment plan aids in restoring the thickness of the stratum comeum, repairing the skin barrier, and returning the skin to its natural state. The formula, free from steroids and focused on physical repair, is associated with an exceptionally low rate of allergic reactions and helps decrease reliance on steroids.

### • Quick Facts •

Given the heightened sensitivity and prolonged nature of this skin condition, it is recommended to initially test a small amount behind the ear. If no severe reactions occur, proceed with broader and continued application. Combining with anti-allergy medication may help prevent steroid rebound effects.

# 13 Key Treatment Principles for Traumatic Injuries

Traumatic injuries are defined as the damage to human tissues or organs due to mechanical factors, which manifest as skin lacerations, bleeding, wound swelling, and noticeable pain. Examples include contusions, abrasions, and cuts.

The repercussions of trauma can be extensive, from immediate sharp pain and transient discomfort to severe bleeding, infection, impaired function, or potential life-threatening conditions. Additionally, scars may form, and psychological effects (such as anxiety or depression) may arise, impacting life quality and emotional well-being. Prevention and early medical care are essential for reducing complications and promoting comprehensive recovery.

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Traumatic Injuries	BONNEHEURE Gel + Spray + Disinfection Process	<p>Step 1: Use povidone-iodine or iodophor for wound disinfection, avoiding alcohol, iodine tincture, and mercurochrome. Apply Spray afterward.</p> <p>Step 2: Apply Gel evenly over the affected area several times a day.</p> <p>Step 3: Determine whether bandaging is required based on the wound's condition.</p>	BONNEHEURE, containing Type III collagen, creates a protective layer over the wound, blocking bacteria and maintaining a moist environment to enhance healing. This helps accelerate skin repair and regeneration, reducing the risk of scarring and pigmentation.

### • Quick Facts •

About BONNEHEURE and Post-Operative Infection Risks: The BONNEHEURE recombinant collagen dressing enables quick healing by leveraging the adhesive and filling properties of high-molecular collagen. It forms a protective membrane over the wound, shielding it from external bacteria and dust, thereby promoting expedited wound recovery. This process does not lead to infection; instead, it reduces infection risk by providing an extra barrier and enhancing the healing effect.

## Choose BONNEHEURE for Scar Prevention

### Clinical Case: Traumatic Injuries



### Healing Benefits of BONNEHEURE at Various Stages

#### Early Stage

Quickly clots blood, alleviates pain and inflammation, and establishes a protective web-like film, lowering the chance of infection.

#### Intermediate Stage

Speeds up skin collagen network reconstruction, promoting rapid and structured cell regeneration at the wound site for a shorter healing time.

#### Late Stage

Prevents scar formation and melanin accumulation, allowing for flawless wound healing with no scarring or pigmentation.

# 14 Key Treatment Principles for Burns and Scalds

Burns and scalds typically describe tissue damage from heat sources such as hot liquids (water, soups, oils), steam, high-temperature gases, and flames. These injuries mainly affect the skin or mucous membranes but can extend to deeper tissues, including subcutaneous layers (e.g., muscles, bones, joints, or even internal organs) in severe cases.

## Burn Classification Chart

Grade	First Degree	Superficial Second Degree	Deep Second Degree	Third Degree
Injury Depth	Outer epidermal layer	Superficial dermal layer	Deep dermal layer	Full skin thickness
Symptoms	Superficial erythema, redness, dryness, accompanied by a burning sensation, without noticeable skin damage.	Blisters of different sizes emerge, with evident localized swelling; the wound base is flushed red, painful, and may exhibit a temporarily darker skin tone.	Presence of small blisters, wound base alternating between red and white or bright red, diminished pain response, and cooler skin temperature.	No blistering on the wound, presence of scabs or carbonization; the affected area appears dry and cool, with absent pain sensation.

## Primary Pathological Changes Following Burns and Scalds:

- ① **Vascular Permeability and Swelling:** Burns lead to increased vascular permeability, fluid exudation, and localized swelling. Severe cases can cause a drop in blood volume, impacting organ perfusion and potentially leading to organ dysfunction or failure.
- ② **Stress Response and Metabolic Surge:** Major burns induce an increase in catecholamine and cortisol levels, promoting a hypermetabolic state characterized by tachycardia, increased cardiac output, and heightened metabolic rate, increasing the risk of shock.
- ③ **Elevated Infection Risk:** Burns disrupt the skin's protective barrier, making it susceptible to bacterial invasion and higher infection rates.

## First Aid Steps for Burns and Scalds:

- ① **Prompt Cooling:** Use running cold water to rinse or immerse the burn site to swiftly lower the temperature and prevent deeper injury.
- ② **Delicate Clothing Removal:** Carefully trim away clothing from the affected area using scissors, avoid rupturing blisters or damaging the skin.
- ③ **Sustained Hydration:** Maintain moisture in the burn area with wet compresses or soaking.
- ④ **Seek Medical Attention:** Severe burns should be treated by specialists at a hospital or burn care unit as soon as possible.

## Clinical Case: Burns and Scalds



Post-Hospital Discharge

After 3 Months of Application

After 6 Months of Application

Treated Forehead Area

Untreated Neck Area

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Burns and Scalds	BONNEHEURE Gel + Spray	For grade I to II burns, employ BONNEHEURE Gel + Spray: Apply the Spray to the affected area, followed by Gel application. Alternate these applications three times daily. If inflammation occurs, follow the advice of a healthcare provider or pharmacist to combine with antibiotics or other treatments.	Supports skin barrier restoration, ensures wound stability, and helps prevent infection, scarring, and pigmentation issues.

# 15 Key Treatment Principles for Post-laser Repair

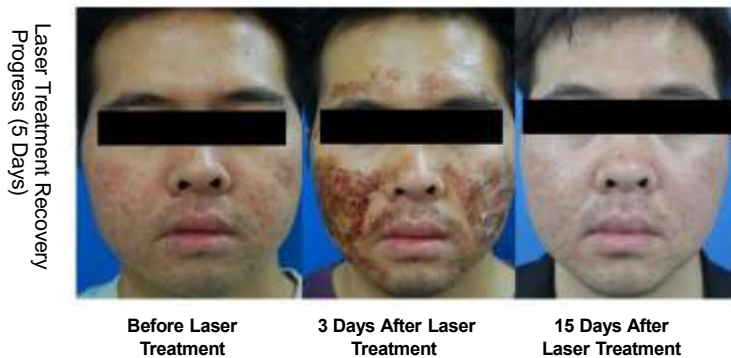
Laser aesthetic treatments primarily address facial dullness, pigmentation, and skin laxity, enhancing complexion radiance, elasticity, and delivering anti-aging benefits for cosmetic improvement.

While current laser aesthetic modalities offer enhanced safety profiles and minimal invasiveness, these photo-thermal interventions inherently involve tissue interaction. Improper laser post-operative care may result in localized infection, erythema, cutaneous hypersensitivity, or hyperpigmentation. More aggressive treatments with greater depth may present hypertrophic scarring risk, necessitating proper post-procedural rehabilitation protocols.

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Laser Postoperative Repair	BONNEHEURE Sheet Mask + Gel + Spray	After laser treatment, immediately apply the Spray to the treated area, followed by a cold compress with the Sheet Mask (no need to rinse after removing the mask). Carry the Spray for on-the-go use (at least 3 times per day), while using the Sheet Mask 1-2 times a day. Maintain this routine for a minimum of 15 days. In cases of more severe skin damage, apply Gel after using the Sheet Mask for additional repair.	This treatment replenishes collagen to the skin, repairs the damaged skin barrier, and helps thicken the stratum corneum.

## Clinical Case: Laser Postoperative Repair



Before Laser Treatment

3 Days After Laser Treatment

15 Days After Laser Treatment

# 16 Key Treatment Principles for Scars

Scars are the result of changes in the appearance and histopathology of skin tissue caused by various types of trauma, and can be seen as an inevitable outcome of the body's wound healing process.

In one psychological experiment involving scars, participants were asked to place a scar patch on their face and then quickly remove it. Even though no scar was visible afterward, the participants still felt they were being stared at, judged, and excluded by others.

**Insight: Most people are highly concerned about scars.**

So, how can BONNEHEURE products help eliminate scars?

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Scars	1. BONNEHEURE Ointment 2. BONNEHEURE Spray + Gel	Non-Surgical Approach: (1) For mild scars and pigmentation, applying the Ointment alone is adequate. (2) For hypertrophic scarring, use the Ointment in combination with silicone products, applied 2-3 times a day, with pressure massage on the affected area. Surgical Approach: Laser or abrasion techniques are employed to create an artificial wound on the scar, followed by the use of the Spray + Gel regimen for repair.	The Ointment acts to revitalize the skin and soften scar areas. Post-surgical application of the Spray + Gel can expedite skin recovery and inhibit scar tissue and pigmentation formation. (Note: The Ointment, being oil-based, should not be applied to fresh wounds.)

### Quick Facts

Scars are notoriously difficult to remove, and conventional treatment options often show minimal effectiveness. This is why preventing the formation of scars is more important than their treatment. Applying BONNEHEURE's human Type III collagen (in Gel or Spray form) to new wounds promptly can significantly reduce the likelihood of scarring, accelerate the return of the skin to its natural state, and ease any subsequent scar treatment if needed.

# 17 Key Treatment Principles for Dry Skin

Desert skin is a type of dry skin characterized by low sebum secretion and weak moisture retention. Insufficient moisturizing can lead to severe water loss, causing the desiccated corneocytes to shed in large amounts and resulting in significant peeling.

## Application Protocol:

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Desert Skin	BONNEHEURE Spray +Ointment	(1) Use the Spray as needed for hydration, applying the Ointment 2-3 times daily. (2) Supplement with Vitamin E cream to soften the stratum corneum and improve the skin barrier's water retention capacity.	Replenish the skin, fortify the stratum corneum, adjust the skin's pH level, achieve water-oil balance, seal in hydration, and return the skin to its optimal condition.

BONNEHEURE's recombinant human Type III collagen, upon penetration, forms an intricate collagen fiber matrix that enhances the skin's moisture-locking ability. This collagen effectively secures water molecules, creating bound water and significantly increasing skin hydration levels. Furthermore, it provides an effective barrier function, slowing the rate of water loss and ensuring prolonged hydration.



Noticeable Changes

Before and After Use



**Recommendations for Dry Skin Maintenance:** Include a diet rich in vitamins, particularly vitamins A and B; apply moisturizers immediately after cleansing to minimize water loss; use mild cleansing agents; incorporate routine moisturizers; avoid excessive washing; adhere to regular sleep patterns and maintain a positive outlook.

# 18 BONNEHEURE's Daily Skincare Applications

Collagen depletion accelerates with age progression, manifesting in hyperpigmentation, dullness, wrinkles, and volume loss due to collagen deficiency. Facial aging fundamentally results from collagen degradation; therefore, collagen replenishment is crucial for facial rejuvenation.

All BONNEHEURE products are formulated to supplement **Type III collagen**, facilitating skin brightening, texture refinement, moisture retention, and fine line reduction.



- ② Initial restoration with spray application, followed by mask application
- ③ Remove mask after 20-minute duration
- ④ Full-face gel application for collagen supplementation
- ⑤ Full-face ointment application for moisturization and nourishment

### Quick Facts

BONNEHEURE products are versatile and can be integrated with other skincare routines. The Spray can be used as a toner, the Gel as a serum, and the Ointment as a cream substitute.

# 19 BONNEHEURE Product Portfolio

## • BONNEHEURE Gel •

[rhCollagen Gel Dressing, 30g/Bottle]

### "Versatile Collagen Concentrate"

Facial Acne/Blackheads  
Laser/Cosmetic Procedures Aftercare  
Traumatic Injury/Surgical Wound



The gel is refreshing, non-oily, forms a protective layer, has a water-like feel, and quickly repairs acne-affected areas and compromised skin barriers.

## • BONNEHEURE Spray •

[rhCollagen Spray Dressing, 30g/Bottle]

### "Collagen Emergency Solution"

Laser/Medical Aesthetics Post-Care  
Sunburn/Thermal Burn Recovery  
Acne/Blackheads/Pimples



This ultra-fine mist delivers contactless broad-spectrum treatment for cleansing + repair + sebum regulation, perfect for quick restoration of sun-Compromised Skin and impaired skin barrier.

## • BONNEHEURE Ointment •

[rhCollagen Ointment Dressing, 20g/Tube]

### "Mini Tube for Rosy Cheeks"

Sensitive Skin/Steroid Dermatitis  
Dermatitis Eczema (Infant Diaper)



This ointment has a delicate, lubricating texture that deeply nourishes and hydrates the skin, soothing dryness, tightness, and irritation while promoting safe, non-addictive skin repair.

## • BONNEHEURE Sheet Mask •

[Recombinant Human Type III Collagen Sheet Mask, 25g/piece x 5 pieces]

### "Post-Light & Energy Therapy Companion"

Laser/Medical Aesthetics Post-Care  
Facial Acne/Blackheads  
Skin Brightening/Texture Refinement



A repair and care sheet mask made from human collagen with a simplified formula and no-rinse application. Contains concentrated essence for deep hydration and repair, featuring a lightweight sheet with excellent adherence and fast absorption.

# 20 Company Profile

## D-Nutrimec - Biologically-Derived Wellness and Aesthetic Solutions

**Pioneer of Medical-Grade Recombinant Type III Collagen PLUS 1068**  
**China's leading provider of premium vial-based functional devices**

Founded in 2021, Shandong D-Nutrimec Biopharmaceutical Co., Ltd. functions as D-Nutrimec Group's cutting-edge synthetic biology platform integrating R&D, production, and commercialization. Recognized as a National High-Techonology Enterprise, Shandong Provincial Key Project, Technology-Based SME, and Innovation-Driven SME. Our expertise centers on rhCollagen market advancement and innovation. Beyond pioneering next-generation recombinant human Type III Collagen Plus 1068, we specialize in developing, manufacturing, and marketing "biomedical materials," "innovative medical devices," and "performance skincare," delivering premium solutions to advance healthcare while fulfilling aesthetic and wellness aspirations.



# 21 BONEHEURE Core Technology Overview

100% Human-Sequence-Derived, Complete 1068 Amino Acid Chain

## D-Nutrimec - Core Proprietary Patents



Origin: Human Genome Project Initiative core collagen and target sequence  
 Report ID: BT220616013-16



100% sequence identity between



Novel purification and production process for recombinant type III human collagen  
 Patent ID: ZL201710306215.X

Following 8 years of research, D-Nutrimec-BONEHEURE developed 30-ton scale fermentation technology for full-length 1068 amino acid human Type III collagen via yeast expression system, yielding recombinant human Type III collagen with comprehensive functionality, maximum chain length, and optimal molecular mass.



Made in China:  
 Ingredients/Manufacturing/Branding  
 Global Certifications: SGS+FDA+CPSR+CE  
 Non-Cobalt-60 Terminal Sterilization

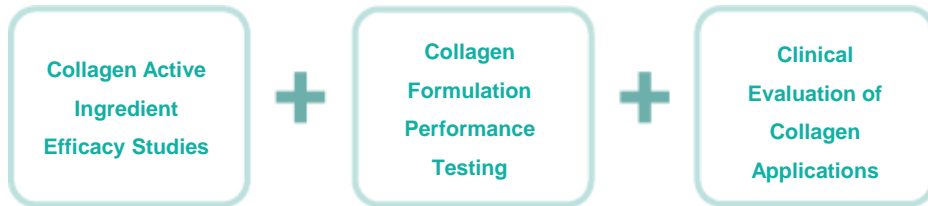
**Clean Formula Medical-Grade Cosmetics**



## Advanced Collagen Benchmarks

### New Targes/New Architecture/New Innovation/New Materials

D-Nutrimec has secured 110+ independent authoritative testing certifications, validating quality from source materials to final formulation, performance to safety protocols.



## Supply Chain Leadership Position

30t Fermentation Capacity (Tank)	60M Units Annual Gel/Spray Production Capacity	
50M Units Annual Sheet Mask Production Capacity	30M Units Ointment Annual Output	

## D-Nutrimec's New Manufacturing Protocol: Five-Point Transparency

BONNEHEURE | Innovator of Medical-Grade rhCOL3 PLUS1068

### Homology Transparency

BONNEHEURE's rhCollagen shows

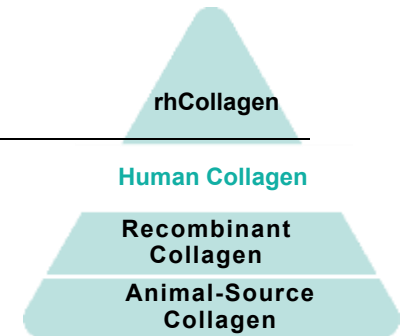
100% homology with native human

collagen, featuring identical amino acid

sequences, ensuring safety, gentleness,

low immunogenicity, and distinction from

animal-derived collagen.



Collagen Type Transparency BONNEHEURE's rhCollagen specification: Type III human collagen characterized by singular core components and defined functionality

### Type I and Type III Collagen Comparison



Type I: Thick fibrillar structure, provides tensile strength, forms dense parallel bundles. Excessive deposition leads to scarring



Type III: Forms reticular network, provides tissue elasticity. Higher proportions correlate with reduced scar formation

### Source Transparency

BONNEHEURE's rhCollagen dressing materials are manufactured by D-Nutrimec, with complete quality and safety traceability.

### Efficacy Transparency

BONNEHEURE's rhCollagen contains only validated active ingredients. We avoid conceptual marketing; all core components are clinically verified for guaranteed effectiveness.

### Quality Consistency Transparency

BONNEHEURE's rhCollagen dressings utilize pharmaceutical-grade packaging and WFI. Production occurs in Class 10,000 clean room facilities (sterile grade) with in-process sterilization capabilities, eliminating the need for post-production radiation sterilization, ensuring stability and consistency between raw materials, formulation, clinical efficacy, and marketing claims.



# 22 FAQ (Frequently Asked Questions)

## **Q: What causes the "balling" effect with BONNEHEURE Gel and how can it be prevented?**

A: The "balling" occurs when the protective membrane formed on the skin surface is disrupted through excessive friction.

Resolution: 1. Apply using makeup sponges or beauty blenders with gentle pressing motions. For makeup application, combine the gel essence with your hydrating products in palm before application to prevent product displacement.

## **Q: Is post-application cleansing required for BONNEHEURE products?**

A: BONNEHEURE's complete product range requires no removal post-application. The products create a reticulated moisture barrier for skin protection. Rest period can commence immediately after application.

## **Q: What causes the tingling sensation with BONNEHEURE Spray?**

A: BONNEHEURE Spray incorporates PBS buffer containing NaCl (saline) to ensure collagen stability and bioavailability. The resulting sensation is temporary and non-harmful, while providing auxiliary antimicrobial properties.

## **Q: What is BONNEHEURE's efficacy profile and results timeline?**

A: Validated through clinical studies and 100+ independent laboratory assessments, BONNEHEURE demonstrates significant efficacy in compromised skin restoration and barrier repair. Results initiate within 3-5 days, with optimal outcomes at 15 days.

## **Q: Are there antimicrobial properties in BONNEHEURE?**

A: BONNEHEURE functions as a collagen regenerative solution, not an antimicrobial product. Mild acne infections require supplementary antibiotic treatment (oral/topical).

## **Q: What is BONNEHEURE's excipient profile and skin compatibility?**

A: As a Class II medical device, BONNEHEURE adheres to regulatory exclusion of corticosteroids, antibiotics, fragrances, and pigments. The pure collagen formulation ensures long-term dermal compatibility.

# 23 BONNEHEURE Application Protocols by Scenario

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Sunburn	<b>BONNEHEURE Spray + Soothing Ointment</b> (escalate to BONNEHEURE Gel for intense cases)	Direct <b>spray</b> application to sunburned areas as needed, unlimited frequency, paired with <b>cooling ointment</b> for inflammation relief. For severe sunburn, incorporate BONNEHEURE Gel.	Delivers dermal hydration, establishes fibrous matrix for moisture barrier, provides immediate soothing action and erythema reduction.
Comedonal Acne	<b>BONNEHEURE Spray + Metronidazole Gel</b>	Post-cleansing application of <b>BONNEHEURE Spray</b> , 2-3 times daily, minimum 7-day duration, concurrent with Metronidazole Gel application.	Acne is fundamentally a follicular inflammatory condition, with primary therapeutic challenges being scar formation, pigmentation, and recurrence. BONNEHEURE products serve as prophylaxis against scarring and hyperpigmentation, optimizing barrier function restoration while normalizing skin condition through hydration and regeneration.
Pustular Acne Lesions	<b>BONNEHEURE Spray + BONNEHEURE Gel + Povidone-iodine or Antibiotic Ointment</b>	Post-antimicrobial treatment (with povidone-iodine or antibiotic preparations such as clindamycin phosphate gel/fusidic acid ointment), apply gel 2-3 times daily for a 15-day treatment cycle. May be used in conjunction with <b>BONNEHEURE Spray</b> . Severe cases may require oral minocycline.	
Post-Acne Marks and Atrophic Scarring	<b>BONNEHEURE Gel</b> (recommended in combination with laser therapy)	Apply <b>BONNEHEURE Gel</b> via spot treatment to post-inflammatory hyperpigmentation, 2-3 times daily for a 15-day treatment cycle. Severe cases of atrophic scarring and PIH are recommended for concurrent laser therapy.	
Acute Dermatitis/Eczema	<b>BONNEHEURE Ointment + Oral Loratadine</b>	<b>Ointment TID</b> , combined with loratadine for allergy symptom management, 7-day duration	
Pediatric Dermatitis/Eczema	<b>BONNEHEURE Ointment+ Tacrolimus</b>	<b>Combination therapy with tacrolimus ointment</b> BID-TID post-cleansing of affected areas, 15-day duration	Physical restoration without cutaneous irritation. Free from corticosteroids and synthetic pharmaceuticals, it is particularly suitable for special populations including pregnant women and infants with dermatitis/eczema.

Condition	Treatment Plan	Usage Instructions	Therapeutic Effects
Sensitive Skin/Steroid Face	<b>BONNEHEURE Ointment + Halometasone/Mometasone Furoate/Red and Yellow Light Therapy</b>	Use in conjunction with Halometasone, Mometasone Furoate, or red and yellow light therapy. Apply the Ointment 2-3 times a day after cleansing, continuing for at least 3 months.	This treatment plan aids in restoring the thickness of the stratum corneum, repairing the skin barrier, and returning the skin to its natural state. The formula, free from steroids and focused on physical repair, is associated with an exceptionally low rate of allergic reactions and helps decrease reliance on steroids.
Traumatic Injuries	<b>BONNEHEURE Gel + Spray + Disinfection Process</b>	Step 1: Use povidone-iodine or iodophor for wound disinfection, avoiding alcohol, iodine tincture, and mercurochrome. Apply Spray afterward. Step 2: Apply Gel evenly over the affected area several times a day. Step 3: Determine whether bandaging is required based on the wound's condition.	<b>BONNEHEURE</b> , containing Type III collagen, creates a protective layer over the wound, blocking bacteria and maintaining a moist environment to enhance healing. This helps accelerate skin repair and regeneration, reducing the risk of scarring and pigmentation.
Burns and Scalds	<b>BONNEHEURE Gel + Spray</b>	For grade I to II burns, employ <b>BONNEHEURE Gel + Spray</b> : Apply the Spray to the affected area, followed by Gel application. Alternate these applications three times daily. If inflammation occurs, follow the advice of a healthcare provider or pharmacist to combine with antibiotics or other treatments.	Supports skin barrier restoration, ensures wound stability, and helps prevent infection, scarring, and pigmentation issues.
Laser Postoperative Repair	<b>BONNEHEURE Sheet Mask + Gel + Spray</b>	After laser treatment, immediately apply the Spray to the treated area, followed by a cold compress with the Sheet Mask (no need to rinse after removing the mask). Carry the Spray for on-the-go use (at least 3 times per day), while using the Sheet Mask 1-2 times a day. Maintain this routine for a minimum of 15 days. In cases of more severe skin damage, apply Gel after using the Sheet Mask for additional repair.	This treatment replenishes collagen to the skin, repairs the damaged skin barrier, and helps thicken the stratum corneum.
Scars	<b>1. BONNEHEURE Ointment 2. BONNEHEURE Spray + Gel</b>	Non-Surgical Approach: (1) For mild scars and pigmentation, applying the Ointment alone is adequate. (2) For hypertrophic scarring, use the Ointment in combination with silicone products, applied 2-3 times a day, with pressure massage on the affected area. Surgical Approach: Laser or abrasion techniques are employed to create an artificial wound on the scar, followed by the use of the Spray + Gel regimen for repair.	The Ointment acts to revitalize the skin and soften scar areas. Post-surgical application of the Spray + Gel can expedite skin recovery and inhibit scar tissue and pigmentation formation. (Note: The Ointment, being oil-based, should not be applied to fresh wounds.)
Desert Skin	<b>BONNEHEURE Spray + Ointment</b>	(1) Use the Spray as needed for hydration, applying the Ointment 2-3 times daily. (2) Supplement with Vitamin E cream to soften the stratum corneum and improve the skin barrier's water retention capacity.	Replenish the skin, fortify the stratum corneum, adjust the skin's pH level, achieve water-oil balance, seal in hydration, and return the skin to its optimal condition.