HansBiomed ______L Investor Relations 2023



Chapter 01. About Us

1) Company Overview	1-1. Introduction
	1-2. History
	1-3. Infrastructure
	1-4. Corporate governance

2) Product Portfolio

Chapter 01. About Us 1) Company Overview - Introduction

HansBiomed

A leader in tissue engineering and plastic surgery medical devices in Korea A leader in the global bio industry

HansBiomed.Corp

Company Name Date Established CEO Business Areas HQ LAB / GMP In Global

Affiliates

September 15, 1999
GeunYoung Kim
Development, manufacturing, and sales of allografts and medical devices
7, Jeongui-ro 8-gil, Songpa-gu, Seoul, Republic of Korea 05836
Yuseong-gu, Daejeon, Republic of Korea
Hans USA(NJ, CA) / Hans UK / Hans Mexico / Hans Columbia
Hans Thailand / Hans China
Hans Phama / Hans Care / ATEMs / Mint Medical / Rebirth(LCC)

Establish Technology

- 1993 Established HANS Medical for scar treatment business
- **1999** Converted Hans Biomed Co., Ltd. into Hans Biomed Corp.
- 2002 Established the largest tissue engineering research laboratory in Asia

Registered the first bone graft in Korea with the U.S. FDA

Selected as a world-class certified company

• 2005 Permitted to establish the first tissue bank in Korea

Make Innovations

- 2008 Gained CE certification (Europe) for breast implants for the first time in Asia
- 2009 Listed on KOSDAQ for the first in the industry
- 2011 Established Hans USA
- 2012 Became the first in Asia to be approved by AATB (American Association of Tissue Banks)
- 2014 Awarded the \$10 Million Tower of Export
- 2015 Successfully developed the first breast implants in Korea (first in Korea to be approved for production and sales)
- 2017 Constructed and relocated to the headquarters in Munjeong
- 2018 Established Hans Thailand

Steady Development

- 2019 Established a GMP manufacturing facility Established Hans UK, Mexico and Columbia Expanded Hans Daedeok R&D Center
- 2020 Selected as a "Youth-Friendly Small Giant" by the Ministry of Employment and Labor Established Mint Medical Co., Ltd.
- 2021 Established a joint venture corporation, Rebirth, with Wego Group
- 2022 Applied for domestic clinical IND for ATEMs A-paste-C

A company that creates unprecedented innovation based on innovative R&D technology

Chapter 01. About Us 1) Company Overview - Infrastructure



HansBiomed HQ

- location in SEOUL
- Established in 2017
- Floor
 1F New Tech. R&D
 4F Podium
 8F GMP Facility(clinical)
 9F Cellular treatment R&D
- R&D New launchings: Cellular treatments / Coil loader etc

HansBiomed GMP

- location in DAEJEON
- Established in 2002
- GMP Silicone Human Tissue(Bone/Skin) Medical Device
- R&D Tissue / Silicone
- First Tissue Bank in Korea





Hans Phama

- location in DAEJEON
 Established in 2019
 R&D Stem Cell D
- R&D Stem Cell Derived Exosome
- Certi ISO9001, ISO14001, ISO22716

HansBiomed Laboratory

- location in DAEJEON
- Established in 2019
- R&D High-Technology Biopharmaceuticals
- GMP Facility



Chapter 01. About Us 1) Company Overview - Corporate governance



Ownership percentage of subsidiary companies



Treasury shares -

HoChan Hwang

25.04

%

4.45 HansBiomed Ownership percentage

Total issued shares 12,116,064

* 2023.04.30

others

70.51

Biologics

24 th Sales(%)	23 th Sales(%)
32,292	24,832
(43%)	(42%)

Medical Device

Lifting thread

•

24 th Sales(%)	23 th Sales(%)
35,121	27,941
(47%)	(47%)

· Primarily used in plastic surgery and

dermatology for facelift procedures

Hair transplant device

Dion-HT

· Efficient hair follicle implantation device

Bone graft ۲

- · Used in orthopedic and neurosurgical spinal surgeries, fractures, and bone tumors
- · Used for gum reconstruction during dental implant surgery



SureChip

Skin graft

- · Used for reconstruction surgeries such as breast cancer and rotator cuffs
- · Used for skin grafting in burn patients



Silicone Polymer

24 th Sales(%)	23 th Sales(%)
1,894 (3%)	3,075 (5%)

Breast implants

 Breast augmentation surgeries in plastic surgery · Reconstruction surgeries in breast surgery for breast cancer patients



Scar treatment

· Scar-minimizing treatments · Sold as OTC in pharmacies



Facial implant

· Used in nasal, forehead, and chin augmentation procedures in plastic surgery

(Unit: KRW 100 million)

3,109 2,176 (3%)

Skin booster

Biocosmetic

24th Sales(%)

· Anti-aging product line used in dermatology, plastic surgery, and aesthetic clinics

23th Sales(%)

(5%)



Cosmeceutical

· Cosmetics containing cell culture solution and fusidium extract.



Chapter 02. Business areas

1) Biologics	1-1. Bone graft 1-2. Skin graft 1-3. Sales analysis 1-4. Chinese Market	
2) Medical device	2-1. Lifting thread (Mint lift) 2-2. Hair transplant device (Lion)	
3) Biocosmetic	3-1. Cosmeceutical (Klardie)	
4) Silicon Polymer	4-1. Breast implants (BellaGel) 4-2. Facial implants	

Chapter 02. Business areas 1) Biologics – Bone Graft



Allografts from DFDBA, Cancellous and Carrier (gel or putty type whose shape can be adjusted to fit the transplantation site)



Genesis[™] Sponge

Sponge-type allograft with compression and elastic of cancellous bone

(Sponge-type increases convenience for transplantation)

Product applications

NS/OS Wiz Meditech

Used in surgical procedures to enhance bone conduction and osteoinductive abilities, as well as strengthen fixation, when bone defects occur due to various reasons such as trauma, infection, or degenerative changes

Dentistry OSSTEM

Using bone grafting prior to dental implant surgery to enhance fixation



Sales through diverse channels both home and abroad through collaboration with various partners Further sales growth expected via additional distribution channels

Chapter 02. Business areas 1) Biologics – Bone Graft



Products are categorized according to needs for various fields (dentistry/orthopedics/neurosurgery) using bone allografts



Hans Biomed is the first company outside North America to register its bone grafting materials with the American Association of Tissue Banks (AATB), which guarantees the production of products using legal and safe donors

* The AATB is recognized as a role model for various international guidelines and standards, serving as a benchmark not only for the Korea Food and Drug Administration but also for tissue banks worldwide.



Obtained FDA 510K (US) to enter the US market, the largest market in the world



BellaCell HD™

- Non-cellular allogeneic dermal products used in breast surgery and other procedures to transplant onto patients with skin defects
- Available for immediate use upon opening as a ready-to-use (RTU) product
- Increased flexibility by 40% compared to the previous products



SureDerm™



SureDerm[™] UroMax

Product applications

PS/GS

Used in breast cancer reconstruction and burn treatment

NS/OS/URO

Used for ligaments and skin defect areas Used for phalloplasty and defect areas

Dentistry

Used for gum defect areas during dental implants surgery

Promotion of rapid growth for BellaCell HD

Exploring emerging markets for ADM: PS breast reconstruction, wound care

BellaCell HD sales trend



Reconstructive surgery patients using breast implants and skin grafts have been increasing annually due to the expanded coverage for breast reconstruction surgeries starting from April 2015

2

Suitable for use in breast reconstruction due to excellent suitability and high tensile strength

Potential for market expansion due to high demand in breast cancer reconstruction

Paradigm shift subpectoral→Prepectoral

4 Plans to increase prescriptions from plastic surgeon clients

Biologics Sales trend



Chapter 02. Business areas 1) Biologics – Chinese Market

WEGO顧高

- 10.5 trillion KRW market capitalization, 2.6337 trillion KRW in annual sales
- A full cash investment of 120 million yuan (approximately 21.5 billion won)
- A distribution infrastructure that includes over 6,000 medical corporate entities in China
- Manufacturer and distributor of medical devices
 *2023.04.28



Rebirth Biotechnology(LCC)

- Scheduled to complete a production facility on a 15,000-pyong (49586.8-square-meter) site in Qingdao, China
- Goal 1: To obtain product approvals by the first half of 2025
- Goal 2: To sell locally produced products by 2025
- Goal 3: To list locally in 2028
- Up to a maximum of 5% in royalties to be paid (taking into account the operating profit of Hans Biomed)

HansBiomed holds the groundbreaking ceremony for 'Rebirth' marking the start of its business in China



처 : 20220711_한국경제TV(한스바이오메드 레보스 착공식 진행사업 분격화 | 한국경제TV owtv.co.kr))





- A cash investment of 20 million yuan (approximately 3.5 billion won)
- Intellectual property rights recognized worth 100 million yuan (approximately 18 billion won)
- Providing expertise and technology in Allograft
- The largest form of compensation for technological provision in Korean human tissue medical device industry

Size of the Chinese medical device market



* Source: China Medical Device Report, published in 2019



The overall medical device market in China growing rapidly each year, with a CAGR of at least 20% since 2014

Chinese bone graft material market growth rate



* Source: Industrial Information Network, Dongxin Securities Research Report





The size of the bone graft market in 2023 is predicted to be 9.69 billion yuan (1.8 trillion won)

360° HELICAL DESIGN lifting thread MINT Lift®

- Certified by MFDS (Korea), FDA (US), CE (Europe), NMPA (China), and others in 10 countries
- Being sold by export to 40+ countries
- Approved as Facial Tissue Fixation Thread for use in lifting for the first time in Korea
- During the press-molding process, the barbs are positioned in a 360° helical pattern around the MINT[™] PDO threads. This design allows the PDO thread to better anchor onto the 3D structures of the skin for powerful repositioning effects
- Offers a diverse product portfolio for customized procedures to meet the specific needs



Patented manufacturing method

360° HELICAL DESIGN



360

Manufactured using molds for increased and approved **tensile strength and fixation**

* Manufacturing method patented in 11 countries (Higher fixation and sustainability than those offered by other companies)

H-Faculty

- Information-sharing platform for health professionals worldwide
- Enhances product understanding through ongoing training and webinars



Awarded the Brand Award for three consecutive years



MINT Lift[®] Sales trend by Country



- MINT Lift showed a sales growth of 311%, with a particularly outstanding growth record of 839% in the US market, over the past four years
- High growth in various countries, including Colombia (203%), Mexico (171%), and Thailand (123%)

Patented hair transplant device, LION



- Lion is a hair transplant device approved in more than 10 countries, including the USA (FDA) and Korea(MFDS)
- Patented clips allow shortened procedure time and easier, faster replacement of transplantation needles
- Precise transplantation needles help reduce potential scalp injuries during procedures
- Positive growth trend of annual sales, and development in progress for hair transplant, hair loss treatments, and more

Lion Sales trend



A rebranded bio-cosmetic brand, Klardie

Klardie technologies

Klardie product portfolio



Continuous research on stem cell structure medium

A research paper on the topic of "The effects of human umbilical cord-derived mesenchymal stem cell (hUC-MSCs) culture medium on skin cells" published in an international academic journal



Found positive results in terms of skin cell regeneration, whitening, and antioxidant effects



Skin booster

Skin tightening and whitening care for dermatological use

• Fusicare line

Timeless line

Moisturizing and soothing home care for consumers in their 20s and 30s

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Patent registration for neural stem cell culture medium



US MSC culture medium Ne listed in INCI n

Neural stem cell culture Induced neural stem cell culture medium listed in INCI

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Scalp care line

Effective for preventing hair loss and improving scalp environment

Premium anti-aging home care for c

onsumers in their 30s and 40s

Breast Implant

BELLAGEL[®] Smooth Round base, Smooth surface



BELLAGEL[®] SmoothFine Round base, SmoothFine surface

2023.03.31





• An issue with BellaGel emerged in 2020

• Operation of the BellaGel CS Center

-Ran an integrated website for compensation and long-term monitoring -Compensated 9,756 patients with a total of 1.65 billion KRW

1st retrospective observational study conducted

-Completed by a total of 6,623 individuals from 14 research institutions (e.g., Seoul National University Hospital, JW Plastic Surgery)

-2nd retrospective observational study scheduled in 2024 (a total of 5 study phases, biennially)

• Goal: to establish marketing strategies for global re-launch in the first half of 2024



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▲ BellaGel long-term monitoring brochure

Chapter 03. Growth strategy

1) R&D1-1. Tissue Engineering Research Center1-2. Research center for advanced medical devices

2) ATEMs

Chapter 03. Growth strategy 1) R&D - **Tissue Engineering Research Center**

The largest tissue engineering research center in Asia

An institution for research and production of allografts and medical devices equipped with world-class facilities recognized by the FDA

Research and production of products for skin and bone grafting and reconstruction, as well as Silicone Polymer products We have top-notch facilities for the development of the world's best therapies and are dedicated to continuous R&D by constantly working with professionals and experts with specialties in relevant fields





4F | Silicone / Lion Product
3F | BONE / Product
2F | SKIN / MINT Product
1F | Silicone / MINT Product

Chapter 03. Growth strategy 1) R&D - **Research center for advanced medical devices**

Research center

for safety and high-performance advanced medical devices

Medical device R&D institution for vascular disease treatment

Research for advanced medical devices and treatment of embolic substances - vascular diseases

We are conducting various R&D activities, such as the development of cutting-edge medical procedure materials and pharmaceutical raw materials, including embolic agents, tissue regeneration patches, vascular hemostatic devices, and hemostatic adhesives.

Hemostatic agent for bone

- Increasing usage due to the rise in surgeries for musculoskeletal disorders such as spine, artificial joint insertion, and nonunion fracture surgery
 - Immediate hemostasis with bioabsorbable material
 - Expected MFDS approval in Q3 2023 (scheduled for launch in 2024)



Intraoperative bleeding in orthopedic surgery



Physical compression (formation of barrier membrane)

Hemostatic effect

Hans Coil loader

Embolic coils

- First embolization device for endovascular procedure to be developed in Korea
- Product superiority compared to competition (performance, efficacy)
- Ongoing non-clinical trials in 2023 (launching in March 2024)

Chapter 03. Growth strategy 2) ATEMs

ATEMs specializing in regenerative therapy with globally globally competitive technology

R&D of cutting-edge medical and bio-therapy products for the treatment of degenerative tissue defects based on tissue engineering

A-paste-C Regenerative therapy for hyaline cartilage

Market size

- The number of knee osteoarthritis patients worldwide is approximately 250 million and is increasing annually
- There is currently a fundamental lack of treatment options for regenerating hyaline cartilage

Global incidence of knee osteoarthritis (Over K&L Grade 2)



Source : DatamornitorHealthcare : Osteoarthritis and osteoarthritis pain * The Burden of Musculoskeletal Diseases in the United States

Global prevalence map of knee osteoarthritis



Source : Allen,K. D. (2015) "Global, regional prevalence, incidence and risk factors of knee osteoarthritis in population-based studies". EClinicalMedicine, 29

Chapter 03. Growth strategy 2) ATEMs

ATEMs specializing in regenerative therapy with globally globally competitive technology

R&D of cutting-edge medical and bio-therapy products for the treatment of degenerative tissue defects based on tissue engineering



- A-paste-C provides a fundamental treatment method for the chronic condition of osteoarthritis that leads to repeated damage to cartilage tissue and
 inflammatory responses -> regenerates hyaline cartilage with elastic and translucent properties resembling native cartilage
- A stem cell-based therapeutic agent derived from immature cartilage tissue, ensuring safety from immune rejection, toxicity, or tumorigenicity
- Improves patient accessibility based on large-scale production processes compared to competition: applicable to over 1 million patients with just one tissue (1 to 300 patients in the case of competition)
- Secured a base for entering the global market thanks to its longer effective period compared to competition

Intra-articular injection to treat damaged knee cartilage

About CartiSave

Indication	Mone Steoarthritis, ICRS 1-3 Grade	
Mechanism of action	Creating a conducive growth environment for chond- rocytes through extracellular matrix supplementation	
Key features	Pain relief based on anti-inflammatory properties, improvement of joint function, supplementation of key components of cartilage including Type II collagen and GAGs	
Development	item approval expected in 02 2022	

Development item approval expected in Q3 2023 schedule





- As of 2019, the HA injection market accounted for 53.7% of the Intra-articular injection market
- The market for HA injection agents is declining due to the research findings that the pain reduction effect of HA does not reach a clinically significant level

* Company P recorded sales of 51 billion KRW in 2022 (PN) | Company S recorded sales of 11.8 billion KRW in 2022 (Type I collagen)

Chapter 04. Business performance and ESG

1) Business performance and Forescast

2) ESG

Goal: sustainable growth of sales and generation of profit

(Unit: KRW 1won)



CSR



 Quarterly employee volunteering and donation activities to contribute to the community

Carbon neutrality



- Implementing eco-friendly paper and ink packaging, using biodegradable materials to minimize negative impacts on human health and the environment
- Participation in the Ministry of Environment's eco-friendly campaign 'GoGo Challenge'

Compliance



• Declaration of ethical management to minimize the risk of management corruption



