REGENERATIVE MEDICINE & HEALTHCARE SOLUTION

MIRAE BIO

42 years of research | 23 years of health check up experience



MIRAE BIO MEDICINE

SINCE 1982

WE Promise your
Young 120
Healthy 150



MIRAE GROUP

MIRAE BIO MEDI

MIRAE N MEDI

(주)엔바이오텍 N-BIOTEK Leading Life science

서울국제바이오의료미용협회

SNUH 서울대학교병원 SEOUL NATIONAL UNIVERSITY HOSPITAL

서울아산병원 Asan Medical Center

EUMC 이대서울병원 SEOUL

SAMSUNG 삼성서울병원

가톨릭대학교 서울성모병원 THE CATHOLIC UNIV. OF KOREA SEOUL ST. MARY'S HOSPITAL

양지병원

의료법인 미래의료재단 MIRAE MEDICAL CENTER

세브란스병원 SEVERANCE HOSPITAL

HARVARD MEDICAL SCHOOL

Massachusetts Institute of Technology

Cleveland Clinic

JOHNS HOPKINS MEDICINE





Diseases Derived From Lack Of Stem Cells

MIRAE BIO MEDICINE

Brain Disease

Alzheimer's disease, cerebral infarction, ALS ,Parkinson's disease, etc

Ocular diseases

Visual impairment, optic nerve damage, etc.

Liver Disorder

Cirrhosis, liver cancer, etc.

Neural Disorder

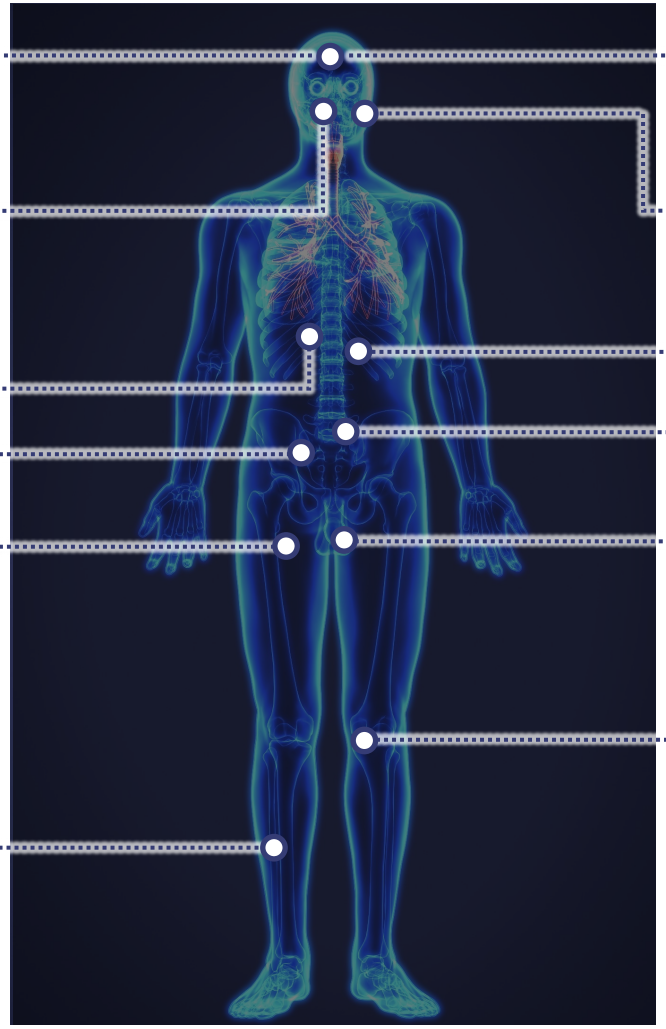
Cerebral infarction, spinal cord atrophy, etc.

Circulatory Disorders

Heart failure, angina pectoris, atherosclerosis

Muscular Disrorders

Muscular dystrophy, amyotrophic lateral sclerosis, etc.



Scalp And Hair Disorders

Hair loss, scalp diseases, etc.

Skin Disorders

Atopy, skin pigmentation loss, aging, etc.

Kidney Disease

Chronic renal failure, etc.

Endocrine Disorders

Diabetes etc.

Reproductive Disorders

Menopause, infertility, erectile dysfunction, etc.

Joint Disorders

Degenerative arthritis, rheumatoid arthritis, etc.

Stem cell technology that is superior to Japan, Switzerland, and Germany and is recognized worldwide for its safety.

FDA KFDA JFDA CE

9 Differentiation Methods

MIRAE BIO MEDICINE

01	Development of specialized equipment for 38 types of stem cells
02	42 years of stem cell application clinical data (ISSCA)
03	International certifications (Korea, Japan, USA))
04	Technology transferred to Samsung, LG, hospitals, pharmaceutical companies
05	Quality assurance (QC)
06	Extraction (isolation)
07	Cryopreservation
08	Culturing
09	Thorough pre-inspection and post-inspection

Stem cell technology that is superior to Japan, Switzerland, and Germany and is recognized worldwide for its safety.

Judged as Grade 1 stem cells of regenerative medicine standards

1 Direct Development and Production of Specialized Stem Cell Equipment

MIRAE BIO MEDICINE



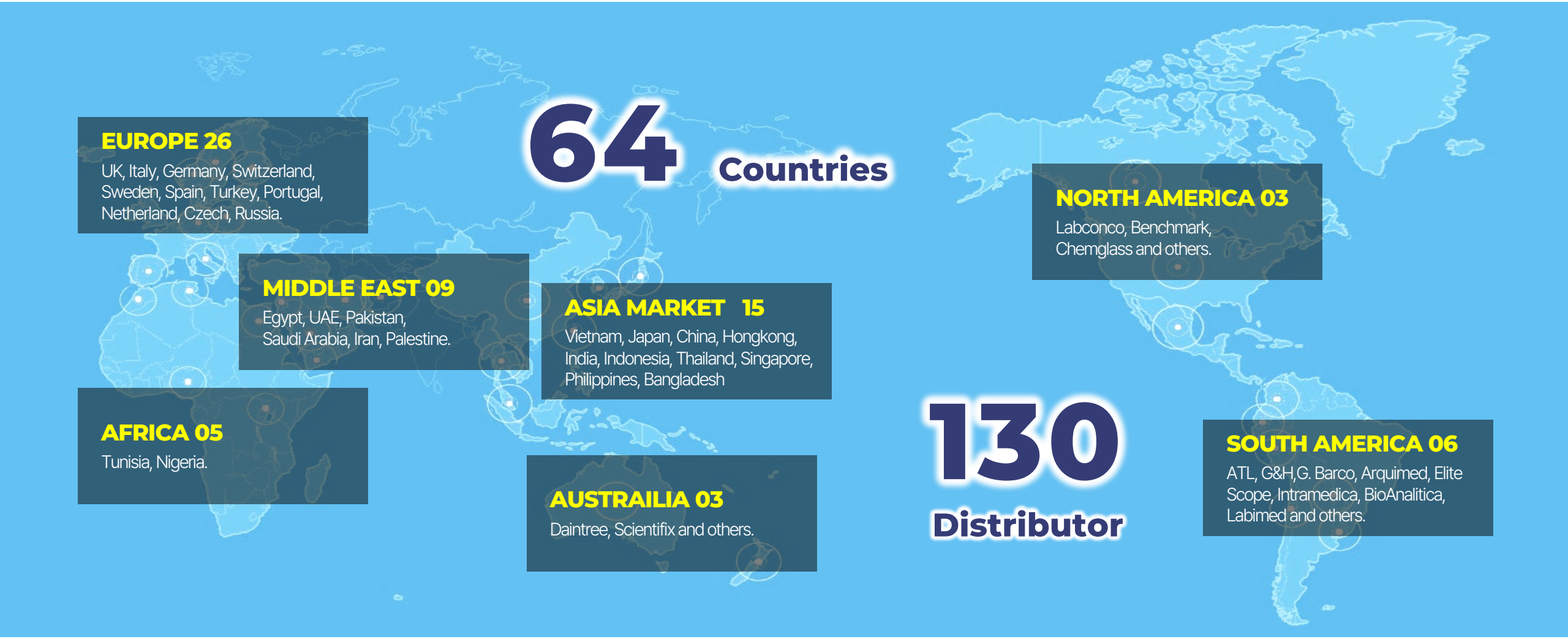
Japan, Switzerland, and Germany use technology from 10 years ago, but biotechnology is rapidly advancing each year.

The latest technology must be used to keep up with the rapid advancement

We develop the latest equipment based on cutting-edge technology

1 Stem cell education, training, and technology transfer completed in 64 countries

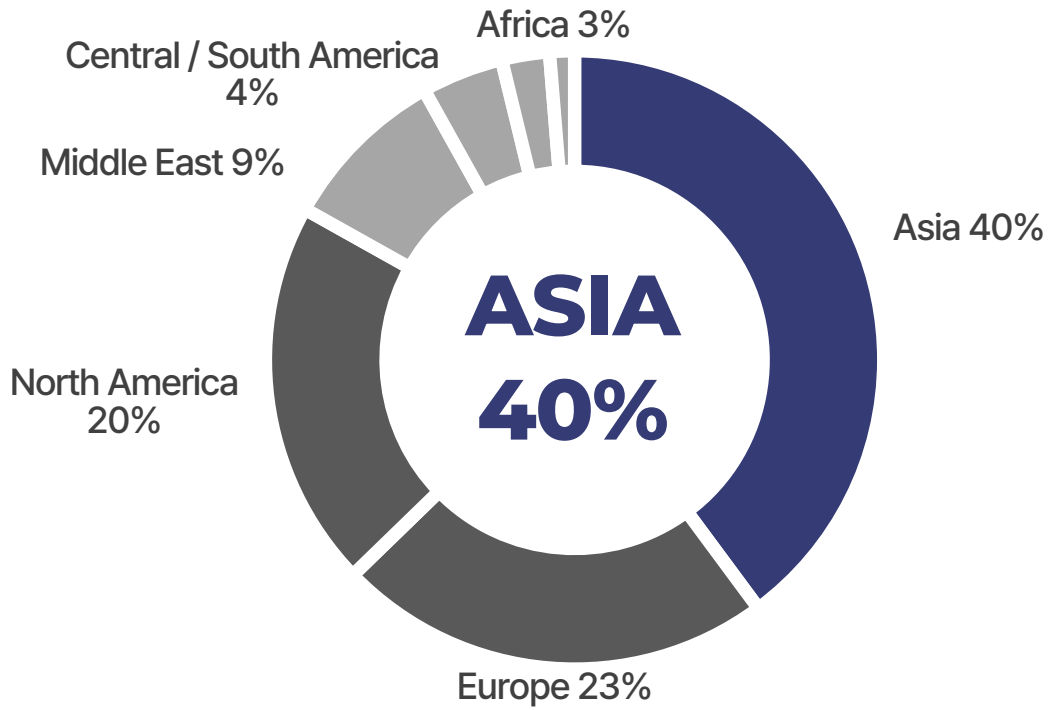
MIRAE BIO MEDICINE



2 42 Years of Stem Cell Application Clinical Data (ISSCA)

MIRAE BIO MEDICINE

- **Held 21 specialized stem cell conferences**
- **Established clinical data with stem cell specialists, researchers, and government institutions worldwide**





2 42 Years of Stem Cell Application Clinical Data (ISSCA)

MIRAE BIO MEDICINE

- **Held 21 specialized stem cell conferences**
- **Established clinical data with stem cell specialists, researchers, and government institutions worldwide**





















MIRAE BIO MEDICINE

3 International Certificates (KR,US,JP)

MIRAE BIO MEDICINE



CERTIFICATE OF PATENT

Patent Number 10-1643315

Application Number 10-2013-0129042 호

Filling Date 2013. 10. 29.

Registeration Date 2016. 07. 21.

Title of the Invention
Culture media for adiposed derived stem cell

Patentee
Listed in the registration column

Inventor
Listed in the registration column

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2017. 06. 02.

COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

특허청
Korean Intellectual Property Office

Culture Method for Adipose Derived Stem Cell



CERTIFICATE OF PATENT

Patent Number 10-1624514

Application Number 10-2013-0129040 호

Filling Date 2013. 10. 29.

Registeration Date 2016. 05. 20.

Title of the Invention
Method for culturing adiposed derived stem cell

Patentee
Listed in the registration column

Inventor
Listed in the registration column

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2017. 06. 02 .

COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

특허청
Korean Intellectual Property Office

Method for Subculturing Adipose-Derived Stem Cells



특허증
CERTIFICATE OF PATENT

특허 Patent Number 제 10-1590416 호

출원번호 Application Number 제 10-2013-0129041 호

출원일 Filing date 2013년 10월 29일

등록일 Registeration date 2016년 01월 26일

발명의 명칭 Title of the Invention
지방유래 줄기세포 계대배양방법

특허권자 Patentee
등록사항란에 기재

발명자 Inventor
등록사항란에 기재

위의 발명은「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2016년 01월 26일

특허청장
COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

특허청
Korean Intellectual Property Office

Method for Subculturing Adipose-Derived Stem Cells

3 International Certificates (KR,US,JP)

MIRAE BIO MEDICINE



특허증
CERTIFICATE OF PATENT

특허 Patent Number 제 10-1749932 호

출원번호 Application Number 제 10-2015-0136971 호

출원일 Filing date 2015년 09월 25일

등록일 Registeration date 2017년 06월 16일

발명의 명칭 Title of the Invention
지방조직 유래 기질혈관분획 분리용 키트 및 이를 이용한 지방조직 유래 기질혈관분획의 분리 방법

특허권자 Patentee
등록사항란 에 기재

발명자 Inventer
등록사항란에 기재

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

특허청
Korean Intellectual Property Office

2017년 06월 16일

특허청장
COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

Method for Culturing Adipose-Derived Stem Cells



특허증
CERTIFICATE OF PATENT

특허 Patent Number 제 10-1624514 호

출원번호 Application Number 제 10-2013-0129040 호

출원일 Filing date 2013년 10월 29일

등록일 Registeration date 2016년 05월 20일

발명의 명칭 Title of the Invention
지방유래 줄기세포 배양방법

특허권자 Patentee
등록사항란에 기재

발명자 Inventer
등록사항란에 기재

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특허청
Korean Intellectual Property Office

2016년 05월 20일

특허청장
COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

Method for Culturing Adipose-Derived Stem Cells



특허증
CERTIFICATE OF PATENT

특허 Patent Number 제 10-1863344 호

출원번호 Application Number 제 10-2016-0089727 호

출원일 Filing date 2016년 07월 15일

등록일 Registeration date 2018년 05월 25일

발명의 명칭 Title of the Invention
줄기세포의 무혈청 배양액을 유효성분으로 함유하는 피부 항노화용 화장료 조성물

특허권자 Patentee
등록사항란에 기재

발명자 Inventer
등록사항란에 기재

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

특허청
Korean Intellectual Property Office

2018년 05월 25일

특허청장
COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

Cosmetic Ingredients Made with Safe Stem Cell Culture Medium

3 International Certificates (KR,EU)

MIRAE BIO MEDICINE



특허증
CERTIFICATE OF PATENT

특허 Patent Number 제 10-1877793 호

출원번호 Application Number 제 10-2016-0089726 호

출원일 Filing date 2016년 07월 15일

등록일 Registeration date 2018년 07월 06일

발명의 명칭 Title of the Invention
줄기세포 배양용 무혈청 배지 조성물 및 이를 이용한 줄기세포의 배양 방법

특허권자 Patentee
등록사항란에 기재

발명자 Inventor
등록사항란에 기재

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2018년 07월 06일

특허청장
COMMISSIONER,
KOREEAN INTELLECTUAL PROPERTY OFFICE

특허청
Korean Intellectual Property Office

Cultivation Method Using Safe Stem Cell Culture Medium



줄기세포 및 의료기기 품질 적합 인정서
(Certificate of GMP)

의료기기 제조 및 품질관리기준 GMP MINISTRY OF FOOD AND DRUG SAFETY

소재지(location)
402-803, 1404 Technopark, 655, Pyeongcheon-ro, Wonmi-gu, Bucheon-si, Gyeonggido, KOREA REPUBLIC OF

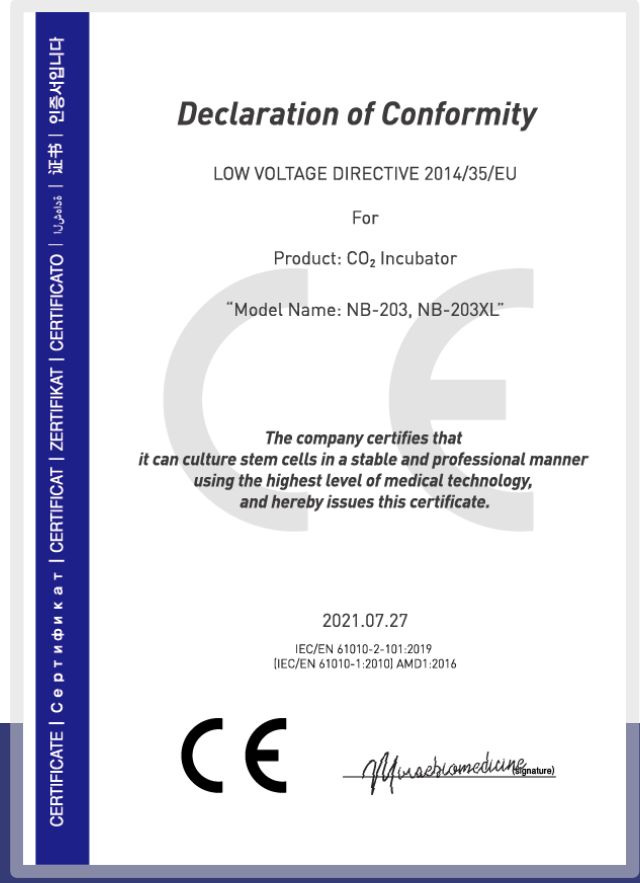
줄기세포 및 의료기기 품질관리기준에 적합함을 인정합니다.
Accordingly, we certify that the above company complies with Korea's excellent manufacturing practices of stem cells and medical devices

발행일자(Date of Issue) : 2021. 05. 17
유효기간(Date of Expiration) : 2029. 10. 30

식품의약품안전처

KCL 인정번호(No.) : KCL-AAAA-11224

Government Officially Certified Safety Facility



CERTIFICATE | Сертификат | CERTIFICAT | ZERTIFIKAT | CERTIFICATO | شهادة | 证书 | 인증서입니다

Declaration of Conformity

LOW VOLTAGE DIRECTIVE 2014/35/EU

For

Product: CO_2 Incubator

"Model Name: NB-203, NB-203XL"

The company certifies that it can culture stem cells in a stable and professional manner using the highest level of medical technology, and hereby issues this certificate.

2021.07.27

IEC/EN 61010-2-101:2019
(IEC/EN 61010-1:2010) AMD1:2016

CE

Miraebiomedicine (signature)

CE Officially Certified CO_2 Incubator

3 FDA Approved Stem Cell Technology

MIRAE BIO MEDICINE

FDA


CERTIFICATE
of FDA REGISTERATION

This certificate of Registeration certifies that

FDA Class I Medical Device Certification for STEMPIA Stem Cell Extraction Kit

Adress: 402-803, 1404 Technopark, 655, Pyeongcheon-ro, Wonmi-gu, Bucheon-si, Gyeonggido, KOREA REPUBLIC OF

FDA REGISTERED

Device Classification:	Class 1 Medical Device
Device Name(product Code) :	JQC
Listing Number(product Code) :	D292918
Owner/Operator Number :	10054679

The U.S. Food and Drug Administration (FDA) hereby certifies that the STEMPIA Stem Cell Extraction Kit is classified as a Class I medical device, ensuring its safety and effectiveness. This product is considered a low-risk medical device and complies with the FDA's General Controls regulations.

FDA
USA · Compound
Food and Drug Administration

Premium Quality Stem Cell Extraction Kit, Class 1 Medical Device Certification

KFDA


대한민국 식약처
줄기세포 치료제 개발.생산 허가증

세포 – 자가 (지방유래줄기세포, 면역세포 (NK cell, T cell)

ADSC (Adipose derived mesenchymal stem cell), MSC(Mesenchymal stem cell), NK CELL, T CELL, Neuron cell

[화농재생보고 및 화농케이오의약품 안전 및 지원에 관한 법률]_제16조제1항 화농 및 [화농케이오의약품 안전 및 지원에 관한 규칙]_제5조제4항에 따라 위와 같이 허가합니다

유효기간: 2026년 08월 15일

MIRAE BIO MEDICINE

2023년 03월 26일

식품의약품안전처


대한민국 식약처
줄기세포 전문 시설 허가증

세포 – 자가 (지방유래줄기세포, 면역세포 (NK cell, T cell)

ADSC (Adipose derived mesenchymal stem cell), MSC(Mesenchymal stem cell), NK CELL, T CELL, Neuron cell

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유효기간: 2026년 08월 15일

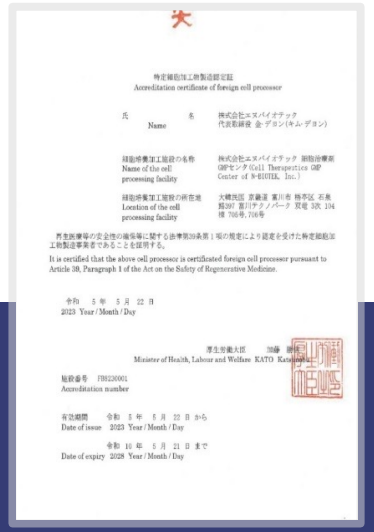
MIRAE BIO MEDICINE

2023년 03월 26일

식품의약품안전처

Official License for Stem Cell Laboratory and Manufacturing of Stem Cell Therapeutics

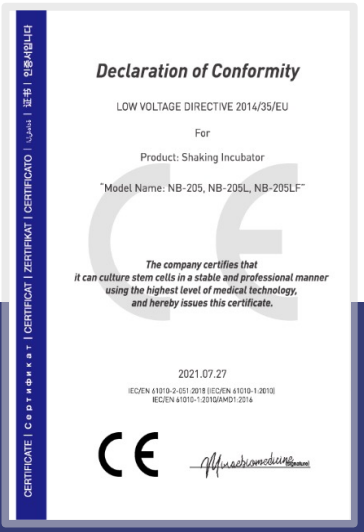
JFDA


Accreditation certificate of foreign cell processor

It is certified that the above cell processor is certificated foreign cell processor pursuant to Article 38, Paragraph 1 of the Act on the Safety of Regenerative Medicine.

Licensed for Use in Japan, Stem Cell Approval

CE


Declaration of Conformity

LOW VOLTAGE DIRECTIVE 2014/35/EU

For

Product: Shaking Incubator

"Model Name: NB-205, NB-205L, NB-205LF"

The company certifies that it can culture stem cells in a stable and professional manner using the highest level of medical technology, and hereby issues this certificate.

2021.07.27

CE

CE Official Certification, Premium Quality Incubator

4 Stem Cell Clinical Research & Stem Cell Therapy (New Drug)

MIRAE BIO MEDICINE

- Technology transfer to Seoul National University Hospital and Asan Medical Center
- Currently conducting clinical stem cell therapy with our company

SNUH 서울대학교병원 SEOUL NATIONAL UNIVERSITY HOSPITAL



서울아산병원 Asan Medical Center



4 Stem Cell Clinical Research & Stem Cell Therapy (New Drug)

MIRAE BIO MEDICINE

- **Many hospitals in Korea receive cells from us and conduct clinical treatments**









4 Partnering Companies

MIRAE BIO MEDICINE

- A specialized stem cell development company with 42 years of experience
- Provides services to customers such as establishing stem cell research institutes, technology transfer, and cell education
- Collaborates with various hospitals, universities, pharmaceutical companies, and biotechnology companies in Korea



(There are many more hospitals, pharmaceutical companies, and enterprises under confidentiality agreements that we cannot disclose.)

World-class, Exceptional Future Technology, Grade 1 Stem Cells At The Level Of Regenerative Medicine

FDA KFDA JFDA CE

9 Differentiation Methods

MIRAE BIO MEDICINE

01	Development of specialized equipment for 38 types of stem cells
02	42 years of stem cell application clinical data (ISSCA)
03	International certifications (Korea, Japan, USA))
04	Technology transferred to Samsung, LG, hospitals, pharmaceutical companies
05	Quality assurance (QC)
06	Extraction (isolation)
07	Cryopreservation
08	Culturing
09	Thorough pre-inspection and post-inspection

Stem cell technology that is superior to Japan, Switzerland, and Germany and is recognized worldwide for its safety.

Judged as Grade 1 stem cells of regenerative medicine standards

5 Thorough Safety and Quality Inspection

MIRAE BIO MEDICINE

- **We use the latest equipment technology developed by us → The safest and highest-quality cells**
- **Possesses official stem cell certification form the Korean and Japanese governments**

Inspection Item	Mirae Bio Result	Standard	Code
Morphological Test	none	Proves normality in shape, color, and quality	
Microbial Test	none	Proves no bacteria in stem cells	
Cell Count Test (Pure Stem Cells)	Cultivated over 2 billion cells within 3 weeks (50cc fat)	Proves the exact number of pure stem cells using an electron microscope	80 million - 120 million / 5 mL (Recommended by the health authority)
Survival rate Test	93%~94%	Proves cell survival rate according to health authority standards	80% or higher survival rate (Recommended by the health authority)

5 Thorough Safety and Quality Inspection

MIRAE BIO MEDICINE

- **We use the latest equipment technology developed by us → The safest and highest-quality cells**
- **Possesses official stem cell certification form the Korean and Japanese governments**

Inspection Item		Mirae Bio Result	Standard	Code
Quality Test		Pharmaceutical grade	Proves the ability to enhance immunity and reduce inflammation to pharmaceutical standards	CD73(+)
		Highest quality	Proves the technique includes vesicles that maximize stem cell functions	CD90(+)
		Highest quality	Proves differentiation and proliferation ability to pharmaceutical standards	CD105(+)
Purity Test		Pure stem cells	Proves the purity of stem cells	CD34(+)
		Pure stem cells	Proves the absence of other cells	CD45(+)
Endotoxin Test		none	Proves the presence of endotoxins below 1/1th limit (close to 0)	
Extracellular Virus Negativity Test		none	Proves 99.9% absence of viruses	
Mycoplasma Test	Fast Method	none	Proves 99.9% absence of bacteria	
	Direct Method	none	Proves 99.9% absence of mycoplasma bacterial contamination	

Self-Adipose Stem Cell Processing Procedure

MIRAE BIO MEDICINE

Fat Extraction 50cc

01



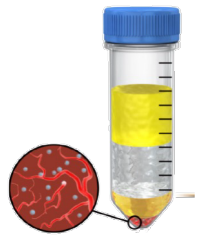
02



03

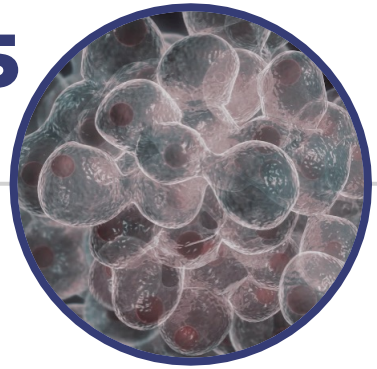


04



Centrifuge

05



Culturing,
Proliferation (4 weeks)

06



Cryopreservation

임상 사용

6 Stem Cell Extraction and Separation Technology

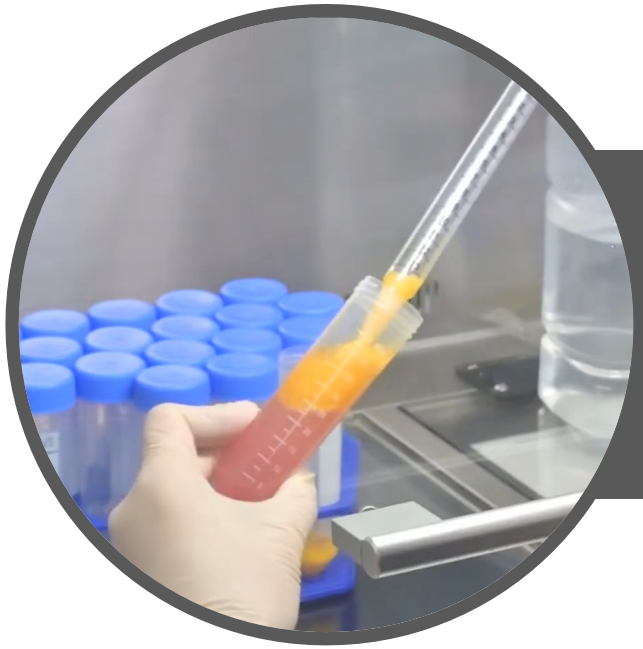
MIRAE BIO MEDICINE

MIRAE BIO



MIRAE holds a patent for safely extracting the highest quality stem cells using medical devices registered with the FDA, CE, and KFDA

Others



Other companies manually separate the cells, which often leads to a decline in cell quality and can result in contamination

6 Stem Cell Extraction and Separation International Patent Technology

MIRAE BIO MEDICINE

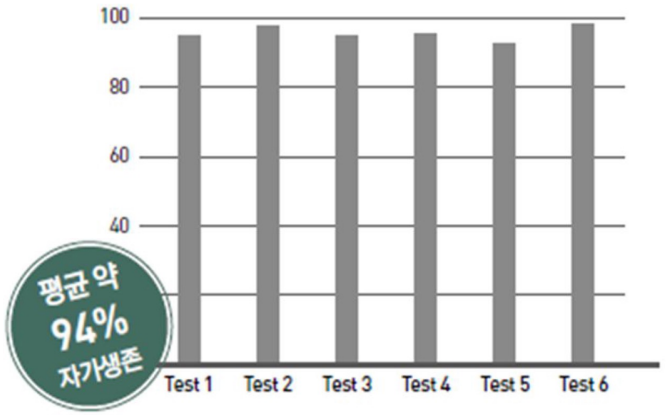
FDA **Medical Device Grade 1**

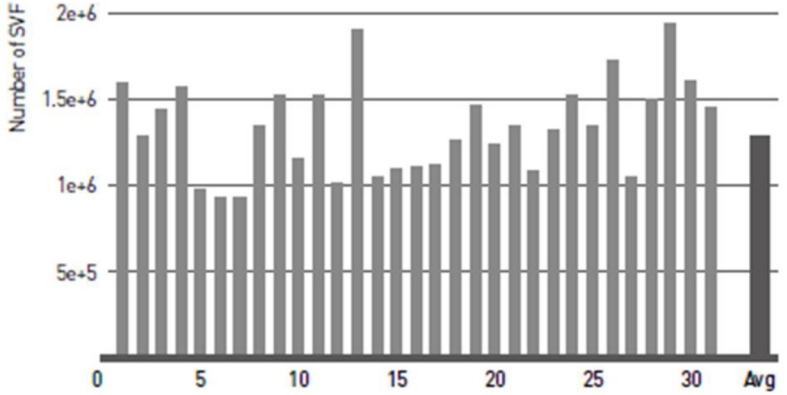
CE **Research Use, Class 1**

KFDA Korea Food & Drug Administration 식품의약품안전청 **Medical Device Grade 3**



- **Extracts with twice the extraction rate, safely and without damage**
- **Uses self-manufactured kits for high-quality stem cell extraction from adipose tissue**
- **Extraction guarantees a survival rate of over 94%**





6 Stem Cell Extraction

MIRAE BIO MEDICINE

MIRAE BIO Extraction



Extraction Process

- Extracts stem cells automatically without manual handling
- Extracts top-quality cells using medical devices registered with FDA, CE, and KFDA
- Safely separates and extracts stem cells without exposure to air



Result

- Extracts the highest quality stem cells at the level of regenerative medicine
- Maintains high cell quality and survival rates while being protected from contamination

Other Companies Extraction



Extraction Process

- Manual stem cell extraction methods used for over 10 years (Japan, Switzerland, Germany)
- Exposure to air increases the risk of cell contamination
- Results are inconsistent with each extraction



Result

- Stem cells are damaged, resulting in lower quality
- Cell contamination can lead to severe side effects

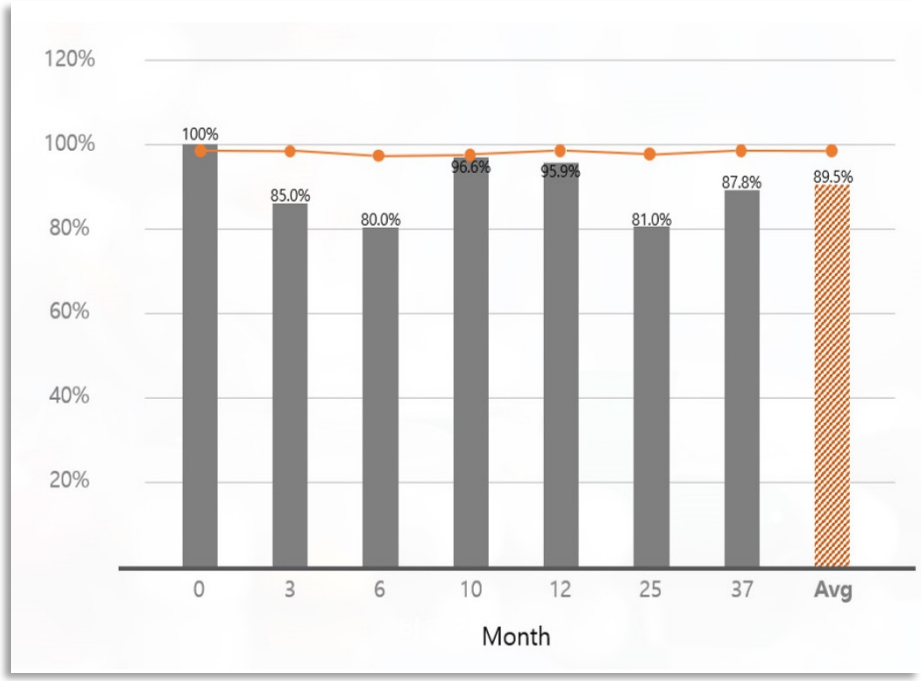
7 Stem Cell Cryopreservation

MIRAE BIO MEDICINE





- Maintains 90% cell viability even after 10 years of cryopreservation
- Maintains cell quality and activity through unique cryopreservation technology
- Superior cell quality preserved with certification from Seoul National University Hospital



Certification of the Highest Quality

실험 결과 보고서
인체 지방유래줄기 세포
(Human Adipose-derived Stem Cell)의
Athymic Mode Mouse에서 정맥내
단회투여 분포 시험 결과
활동성 매우 우수
(SNUH 2102304R)

SEOUL NATIONAL UNIVERSITY HOSPITAL · 서울대학교병원
SNUH
2022년 11월 15일

서울대학교병원 의생명연구원

8 Latest Cultivation Technology

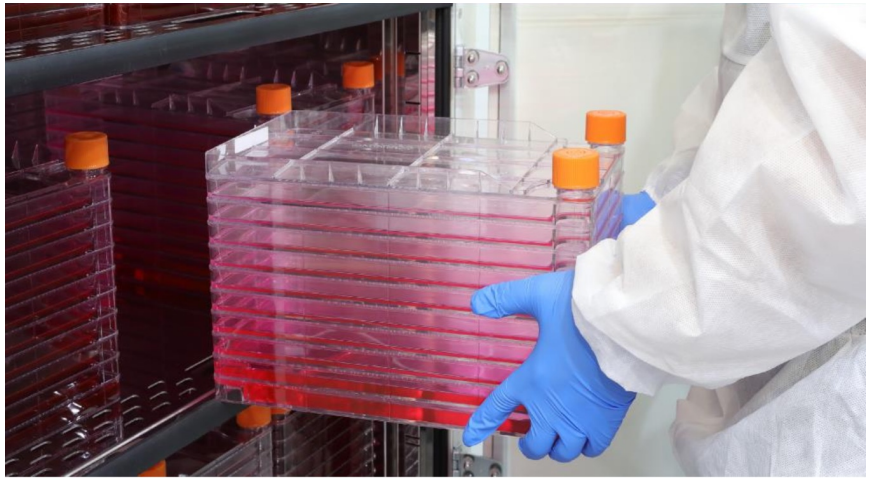
MIRAE BIO MEDICINE

Stem cells are cultured using the latest 2024 cultivation technology

MIRAE BIO completes the cultivation process in only 3 stages through hierarchical cultivation

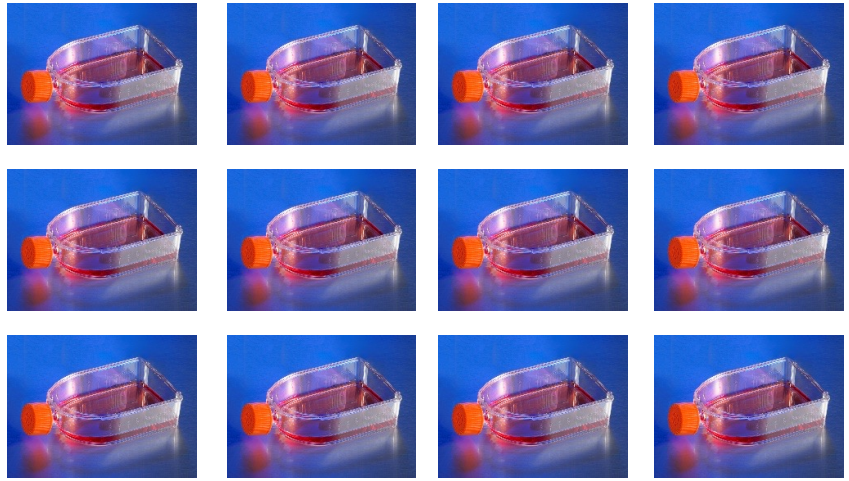
Other companies have lower cultivation technology, requiring 10 to 15 stages for cultivation

MIRAE BIO Cultivation



- 3-stage cultivation, top-quality stem cell cultivation at the level of regenerative medicine
- Cultivation technology verified by the FDA, SNUH
- Ensures the highest quality in cell viability and activity

Other Companies Cultivation



- 15-stage cultivation produces lower quality cells, exposed to contamination
- Lower cell viability and activity

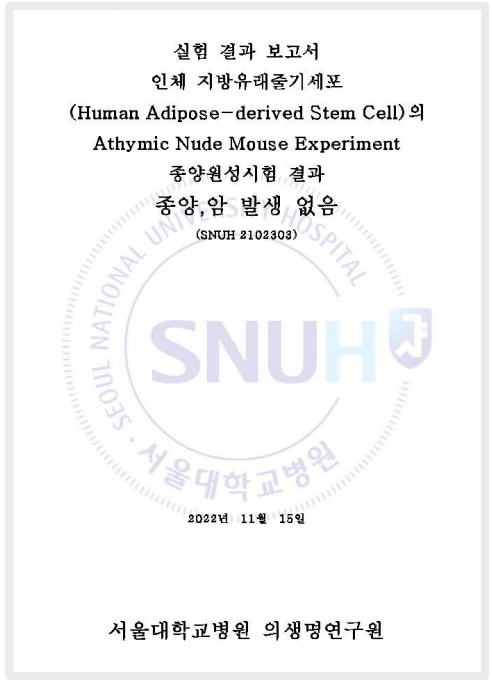
9 Latest Culturing Technology Safety Verification

MIRAE BIO MEDICINE

SNUH

Cell Quality Verification Data from Korea's No. 1 Seoul National University Hospital

No Tumor or Cancer Formation

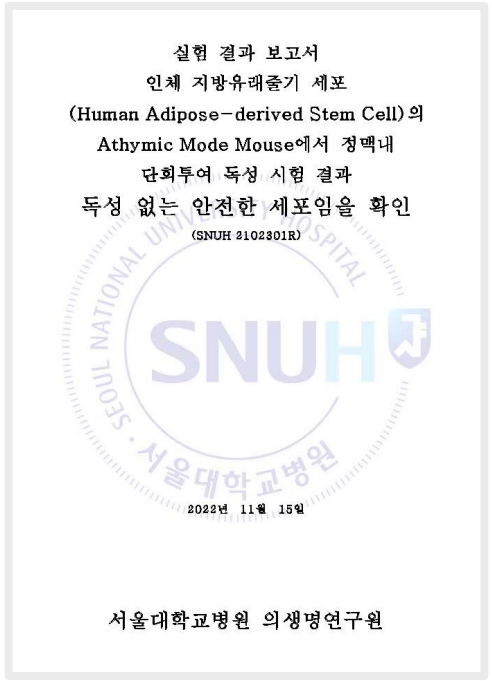


실험 결과 보고서
인체 지방유래줄기세포
(Human Adipose-derived Stem Cell)의
Athymic Nude Mouse Experiment
종양원성시험 결과
종양,암 발생 없음
(SNUH 2102303)

2022년 11월 15일

서울대학교병원 의생명연구원

No single-dose toxicity or mutant cells detected

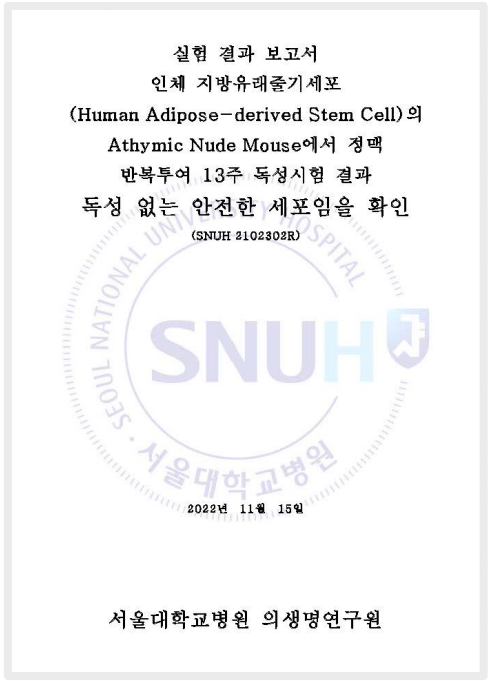


실험 결과 보고서
인체 지방유래줄기 세포
(Human Adipose-derived Stem Cell)의
Athymic Mode Mouse에서 정맥내
단회투여 독성 시험 결과
독성 없는 안전한 세포임을 확인
(SNUH 2102301R)

2022년 11월 15일

서울대학교병원 의생명연구원

No repeated-dose toxicity or mutant cells detected



실험 결과 보고서
인체 지방유래줄기세포
(Human Adipose-derived Stem Cell)의
Athymic Nude Mouse에서 정맥
반복투여 13주 독성시험 결과
독성 없는 안전한 세포임을 확인
(SNUH 2102302R)

2022년 11월 15일

서울대학교병원 의생명연구원

9 Thorough Preliminary and Follow-up Examinations

MIRAE BIO MEDICINE

- **Over 200 thorough tests are used to accurately measure the body's biological age**
- **Early detection and precise prediction of diseases if present**

Type	Test Items	Related Diseases & Description
Liver Function Test	• Hepatitis A Antibody	
	• Hepatitis B Antibody	
	• Hepatitis C Antibody	
	• Liver Disease Blood Test	• Hepatitis B, C, jaundice, acute and chronic fatty liver disease
Blood Disorders	• General Blood Disorder Test	• Anemia, white blood cell infection, viral infection
Cardiovascular	• T-Cholesterol, TG, CPK	• High blood pressure, heart disease, arteriosclerosis, etc.
Diabetes	• Blood Sugar Test	• Diabetes, pancreatic disorders
	• Glycated Hemoglobin	• 2–3 months average blood sugar tracking
Kidney Function	• Kidney Disease Blood Test	• Acute, chronic nephritis, kidney dysfunction
Arthritis, Gout	• Uric Acid, Purine Metabolism Blood Test	• Rheumatism, gout, joint inflammation, metabolic abnormalities
Cancer Test	• AFP (Liver Cancer Marker)	• Tests for markers of colorectal cancer, gastric cancer, lung cancer, pancreatic cancer, bile duct cancer, ovarian cancer, endometrial cancer, prostate cancer, and more.
	• CEA (Cancer Antigen)	
	• PSA (Prostate Cancer)	
	• CA-125 (Ovarian Cancer)	
Infectious Disease	• RPR, HIV Antibody	• AIDS, syphilis presence
Thyroid Disease	• Free T4, Thyroid Stimulating Hormone (TSH)	• Thyroid dysfunction
Biological Age Test	• Telomere Test	• Current biological age measurement



MIRAE provides The highest quality stem cells

The Anti-Aging Effect of Genuine Stem Cells

MIRAE BIO MEDICINE

Reverse aging

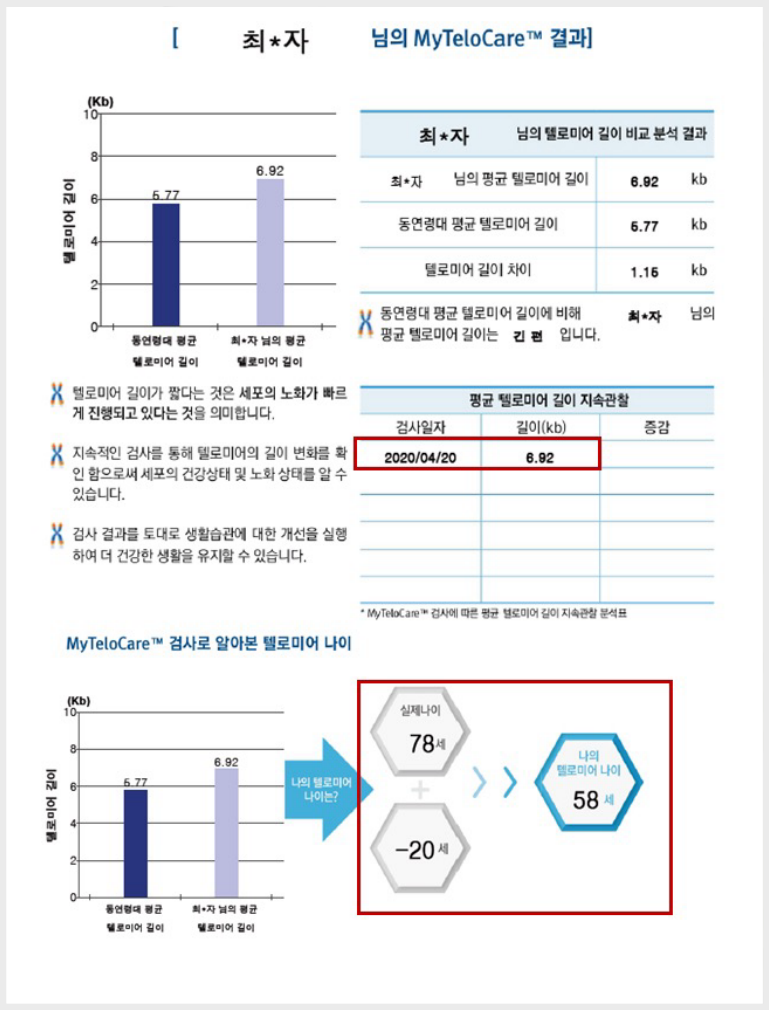
- Stem cell treatment not only makes you look younger than you are now, but it also rejuvenates your body from the inside out



Ms. Lee Gil Ya
93 years old
(1932.3.9)

Stem Cell Anti-Aging

MIRAE BIO MEDICINE



78 Years old » **58 Years old**

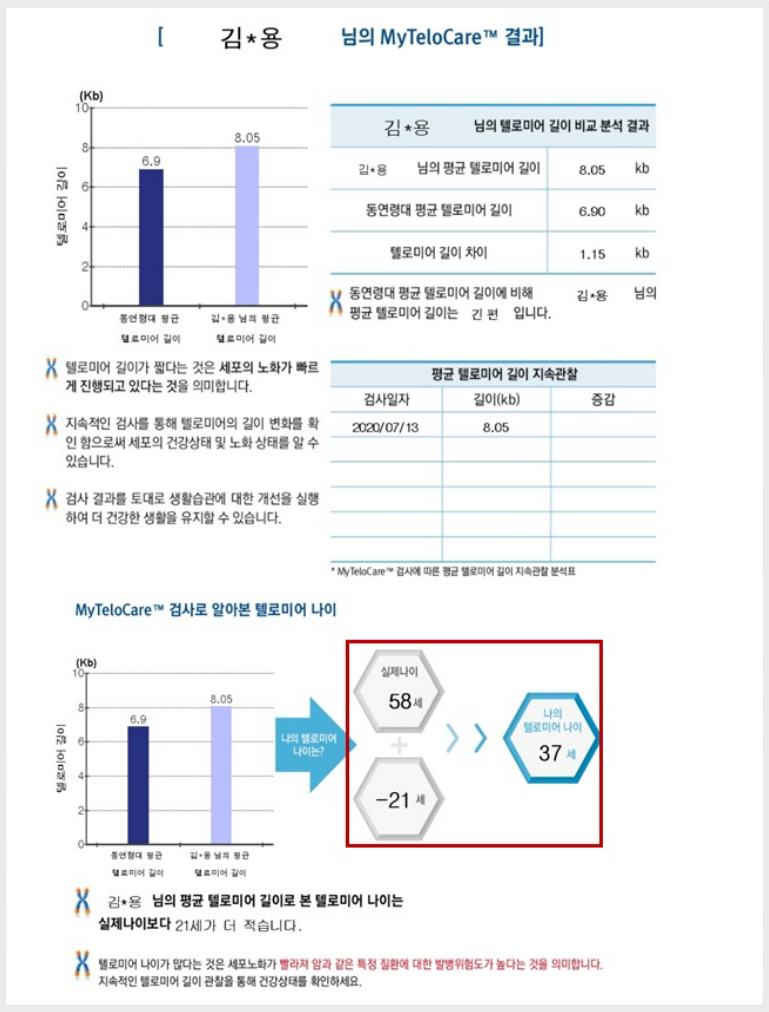
5+ Stem Cell Treatments

- 1st Injection : 2019.12.12
- 2nd Injection : 2020.02.20
- 3rd Injection : 2020.04.13

Date		2020. 4. 20
Telomere Length(kb)		6.92
Average Length of the Same Age Group (kb)		5.77
Distance (kb)		1.15
Actual Age	Age	78 years old
Telomere	Age	58 years old

Stem Cell Anti-Aging

MIRAE BIO MEDICINE



58 Years old » **37 Years old**

Stem Cell Treatment: Over 10 times

- N-Biotek Research Director
- Treatment Period: 10 years



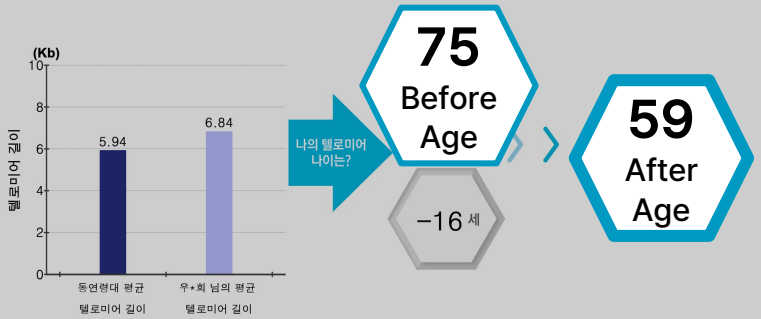
Stem cell Anti-aging

MIRAE BIO MEDICINE

SCL Healthcare

MyTeloCare™ 검사

MyTeloCare™ 검사로 알아본 텔로미어 나이

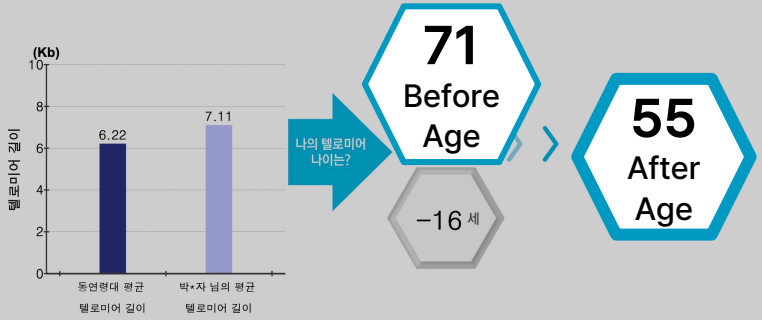


우*희 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 16세가 더 적습니다.

SCL Healthcare

MyTeloCare™ 검사

MyTeloCare™ 검사로 알아본 텔로미어 나이

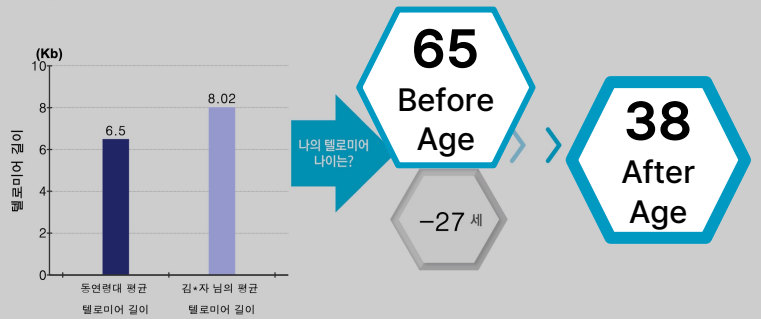


박*자 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 16세가 더 적습니다.

SCL Healthcare

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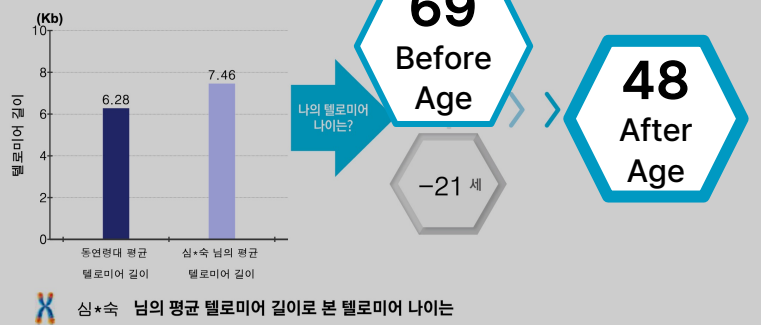


김*자 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 27세가 더 적습니다.

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MyTeloCare™ 검사

MyTeloCare™ 검사로 알아본 텔로미어 나이

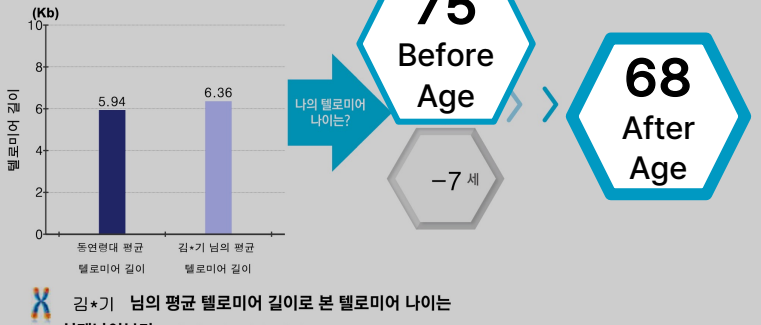


심*숙 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 21세가 더 적습니다.

SCL Healthcare

MyTeloCare™ 검사

MyTeloCare™ 검사로 알아본 텔로미어 나이

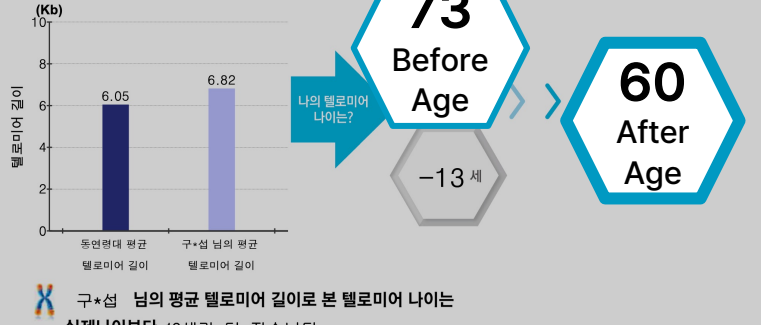


김*기 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 7세가 더 적습니다.

SCL Healthcare

MyTeloCare™ 검사

MyTeloCare™ 검사로 알아본 텔로미어 나이



구*섭 님의 평균 텔로미어 길이로 본 텔로미어 나이는 **실제나이보다** 13세가 더 적습니다.

Stem Cell Treatment Process

Stem Cell Procedure Timeline for Health Maintenance

MIRAE BIO MEDICINE

01 Health Checkup



- Fasting the evening before
- health checkup in the morning (including blood tests)

02 Fat Extraction



- Extract 50cc of fat from the abdomen

03 1st Injection



- Administer stem cell injection 1 month later

04 2nd and 3rd Injections



- Repeated stem cell injections at 1-month intervals.

05 4th to 10th Injections

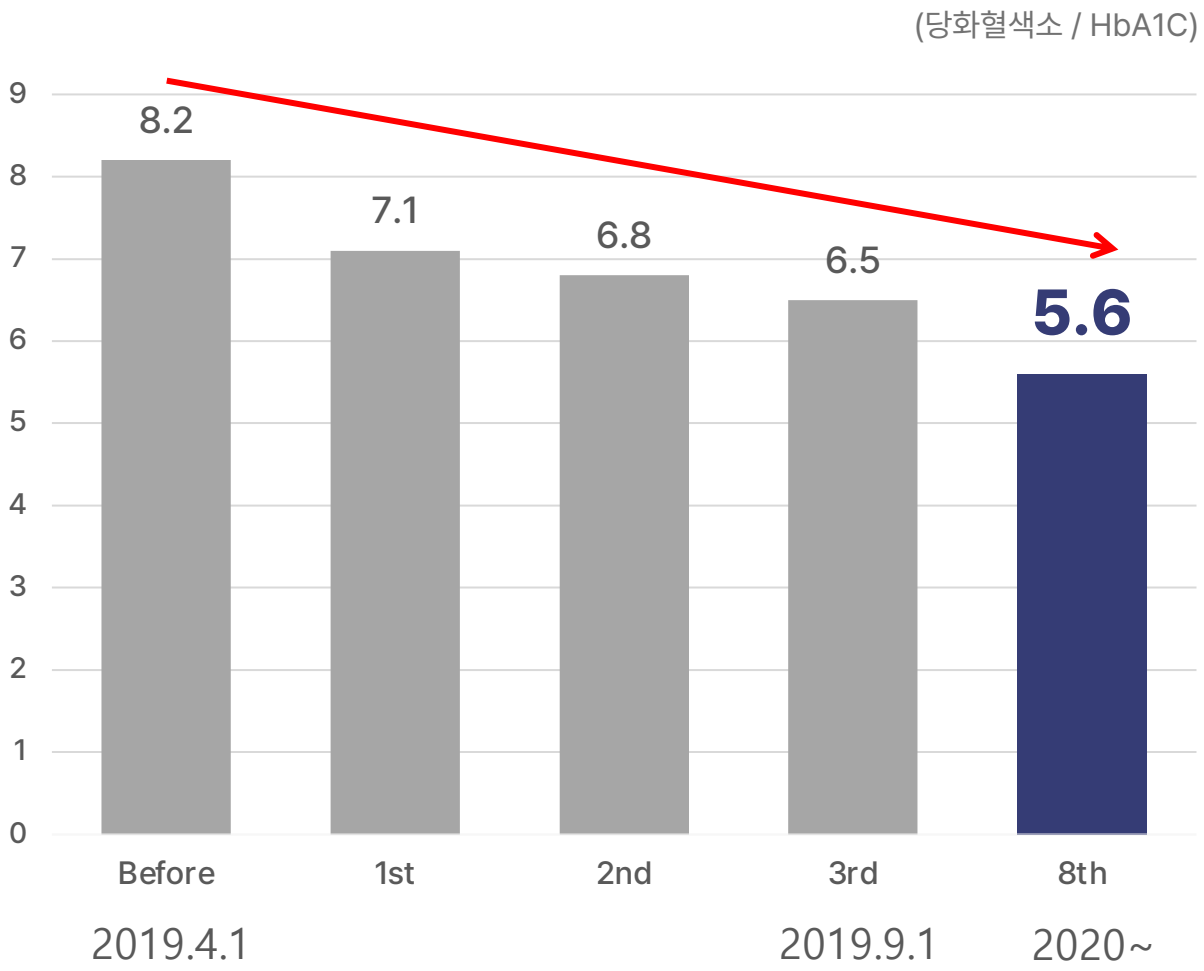


- Repeated stem cell injections at 1-month intervals.

Stem cell clinical trial

Diabetes

MIRAE BIO MEDICINE



Clinical Trial for Diabetes Treatment

-Participants

68 year old / Male

- 10 years of diabetes, hypertension, and hyperlipidemia
- IV intravenous injection / 8 sessions
- Approximately 1.5 billion cells

Since 2020, diabetes has been completely cured and maintained

Diabetic foot ulcer

MIRAE BIO MEDICINE



Before



After 1 month



After 2 month



After 4 month

Clinical Trial for Diabetic Foot Ulcer Treatment

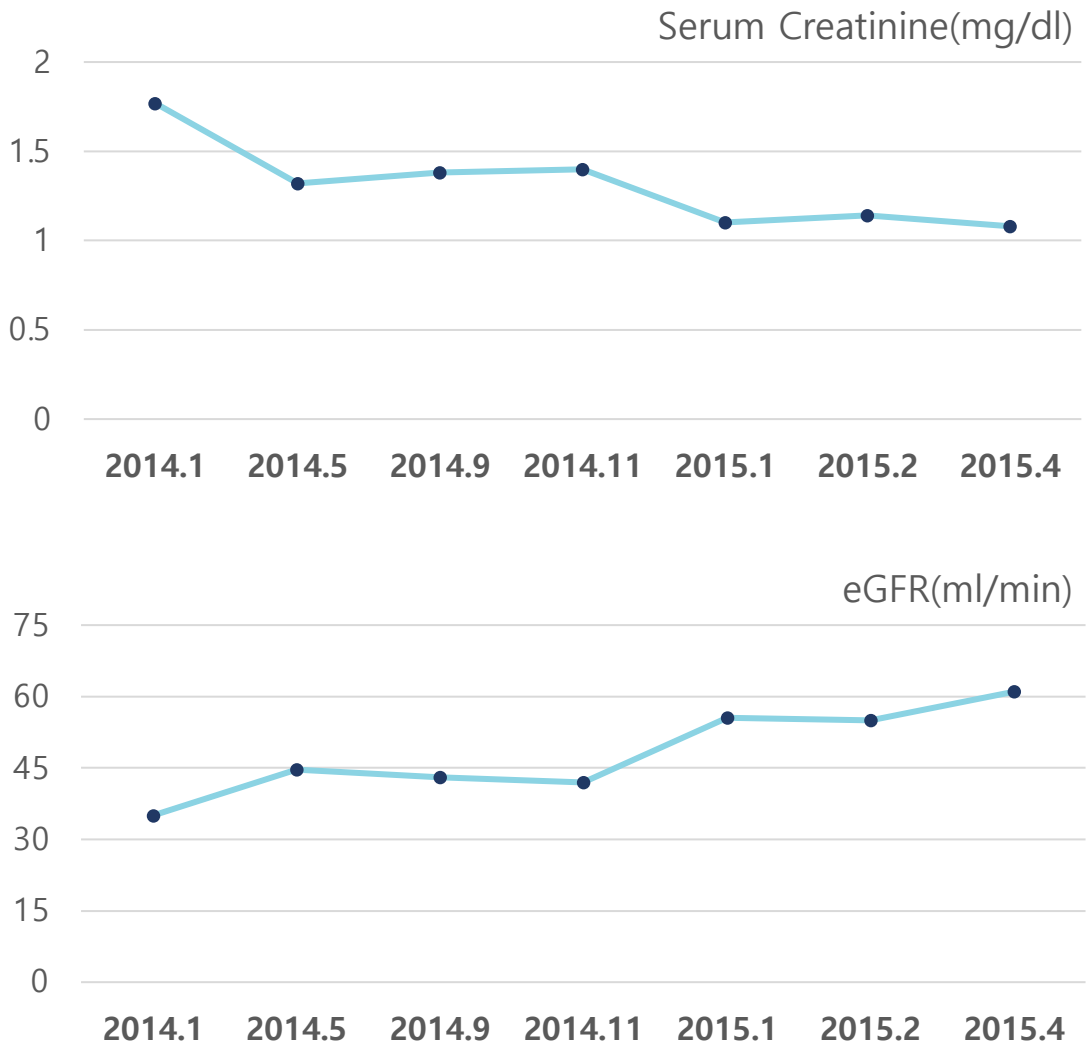
-Participants

72 year old / Male

- Developed a foot ulcer due to long-standing diabetes
- Methods: IV + direct injection / 4 sessions
- Approximately 1.5 billion cells

Complete recovery from the ulcer, normal walking restored

Kidney Disease



Clinical Trial for Chronic Kidney Disease Treatment

57 years old / Male

Advanced stage 3 chronic kidney disease

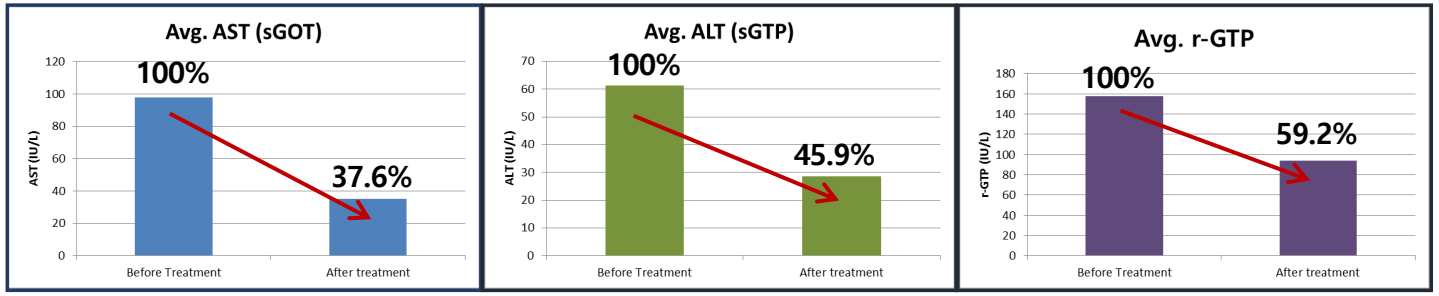
6 IV infusions | 1.5 billion cells per session

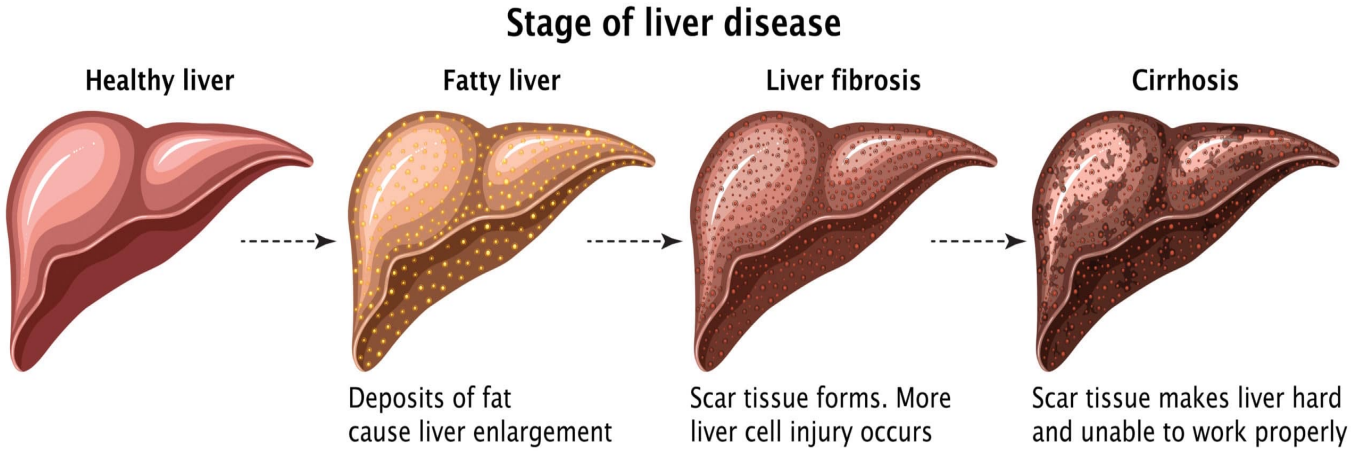
Reduction in blood creatinine (waste indicator)

Increase in eGFR (waste processing capability)

Chronic kidney stage 3 ➤ stage 1.5

Liver Disease





Clinical Trial for Liver Disease Treatment

Other liver disease patients: 13

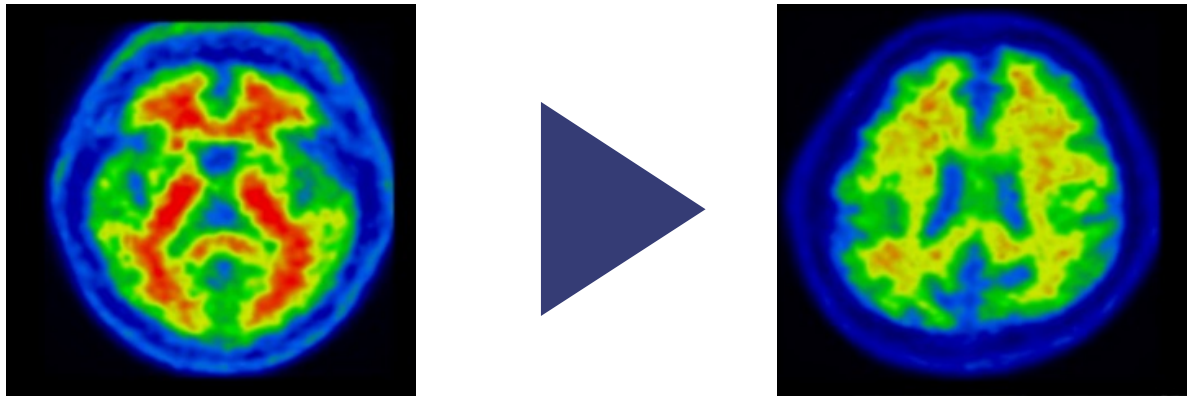
Each patient had 2 follow-up exams

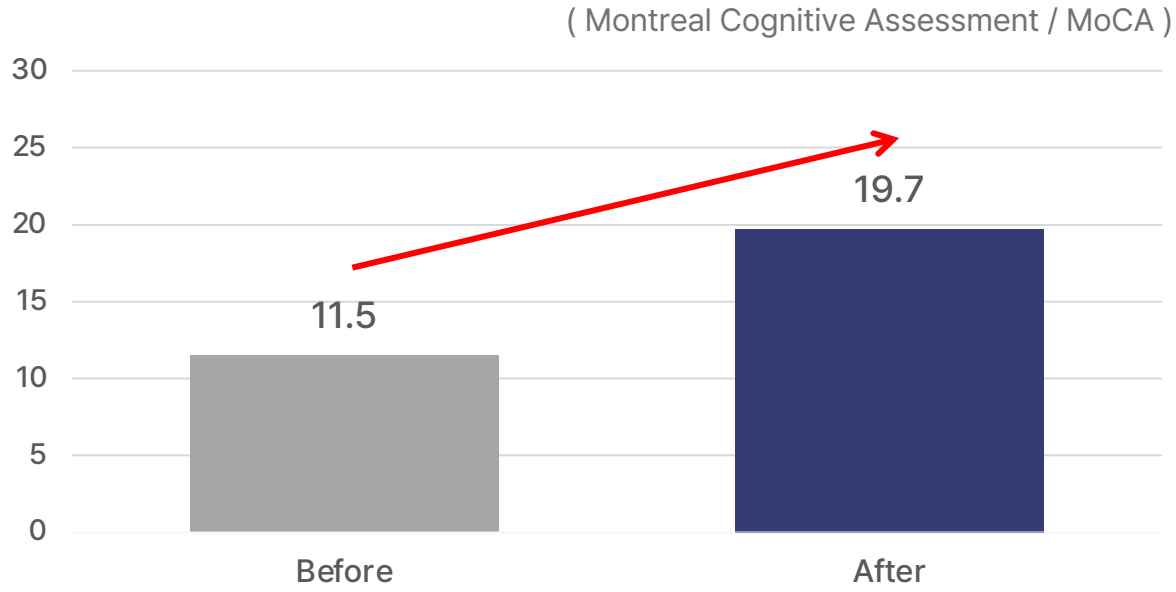
4 IV infusions | 1 billion cells per session

Improvement from moderate to mild or normal condition

Alzheimer's, Parkinson's Disease

MIRAE BIO MEDICINE





Clinical Trial for Neurological Disease Treatment

Neurological disease patients: 15
(Alzheimer's, Parkinson's, COPD)

Cognitive test after cell treatment

6 IV infusions | 1.5 billion cells per session

recovery to above-average cognitive scores, along with overall improvement in motor function

Knee Joint Disease

MIRAE BIO MEDICINE



Before



After 1 Year



Clinical Trial for Joint Disease Treatment

cartilage tissue damage Patients
3-5 individuals, random assignment

Cartilage condition observed after treatment

4 knee injections | 200 M cells per session

Regeneration of damaged cartilage tissue

moderate arthritis ➤ mild or complete resolution

REGENERATIVE MEDICINE & HEALTHCARE SOLUTION

MIRAE BIO

42 years of research | 23 years of health check up experience



MIRAE BIO MEDICINE