



FY2019 Q3 Financial Results

Company

HEALIOS K.K. (TSE 4593)

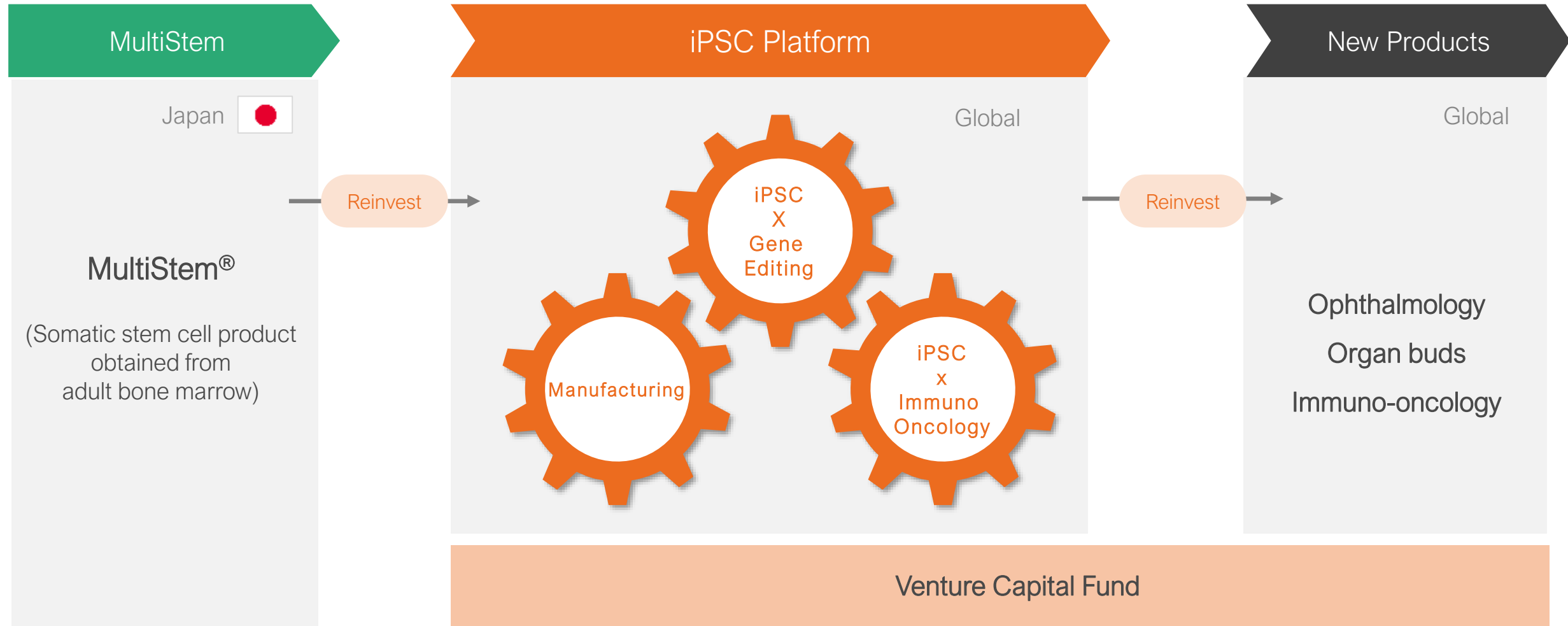
Date

November 14, 2019



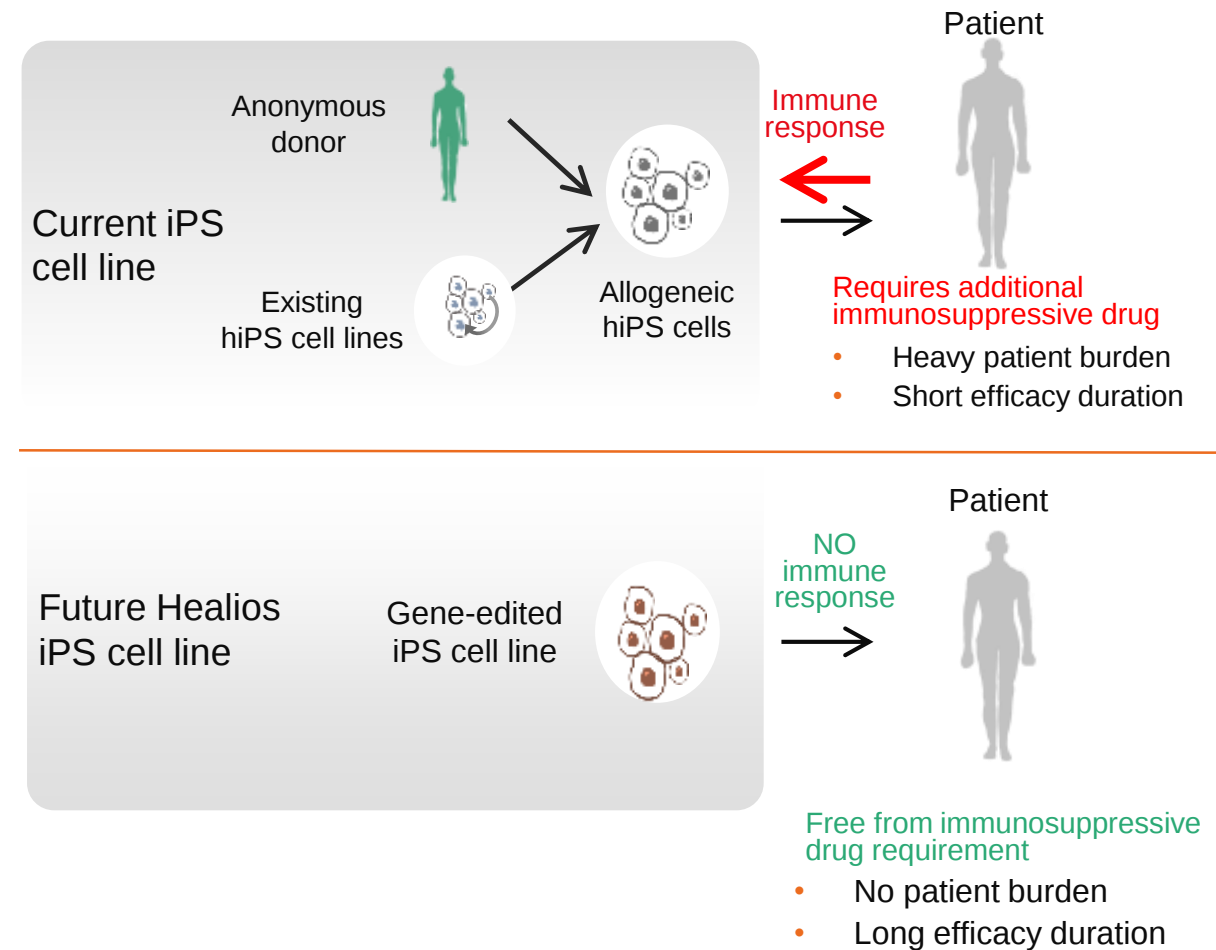
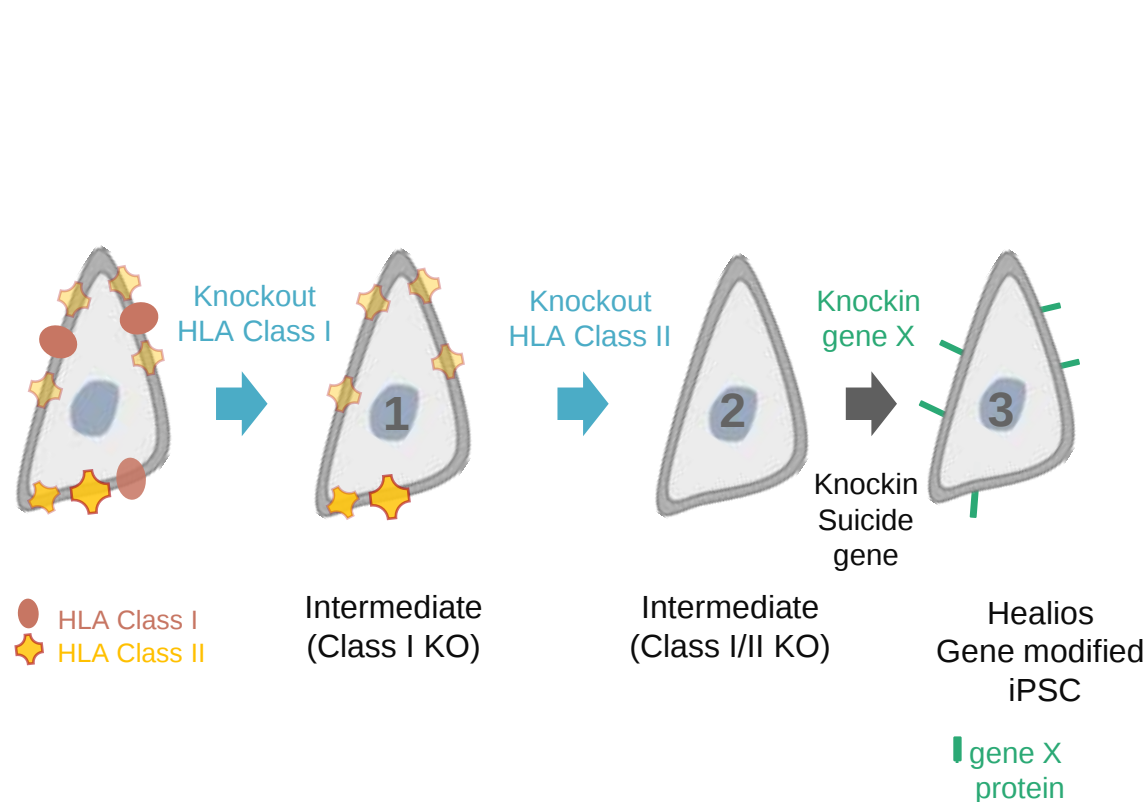
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Reinvest somatic stem cell product earnings to establish next-generation stem cell platform
Expect synergistic benefit from venture capital fund



Leading the Development of Next-Generation iPSC cells

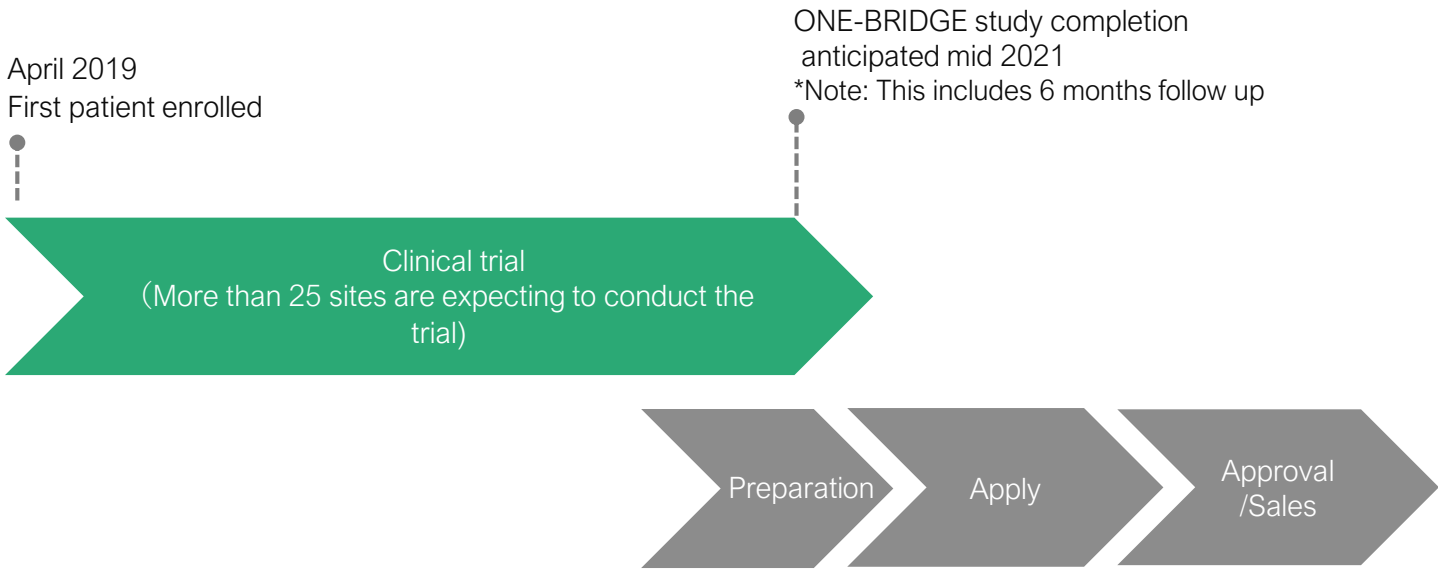
- Starting material for allogeneic cell products for use without immunosuppressants
- Accelerates progress toward next-generation therapies in ophthalmology, organ buds, and immuno-oncology



Ongoing Phase 2 trial for patients with pneumonia induced ARDS in Japan (ONE-BRIDGE study)

Development Plan

On November 13th, 2019, HLCM051 was accepted for the designation as an orphan regenerative medicine based on the deliberation of the Pharmaceutical Affairs and Food Sanitation Council. Hereafter, it will receive an official designation from the Ministry of Health and Labour Welfare.



Overview of ONE-BRIDGE study

Clinical Trial	Efficacy and Safety Study of HLCM051 (MultiStem®) For Pneumonic Acute Respiratory Distress Syndrome (ONE-BRIDGE)
Subjects	Patients with pneumonia induced ARDS
Conditions	Open label, Standard therapy-controlled
Enrollment	30 (MultiStem20, Standard therapy 10) Randomized
Primary Endpoint	The number of days out of 28 in which a ventilator was not used for the patient (i.e. ventilator free days)

Orphan regenerative medicine designation is available in cases of rare diseases with small patient numbers and no existing direct treatments.

【Criteria for designation as a rare disease】

1. Number of patients with this disease in Japan is lower than 50,000
2. Unmet medical needs
 - A serious target disease with very high medical needs
 - No alternative drug, medical device, regenerative medicine, or therapy exists
 - A significantly higher efficacy and safety than that of existing drugs, medical devices, or regenerative medicines can be expected
3. A theoretical basis for using regenerative medicines exists and the developmental plan is considered appropriate

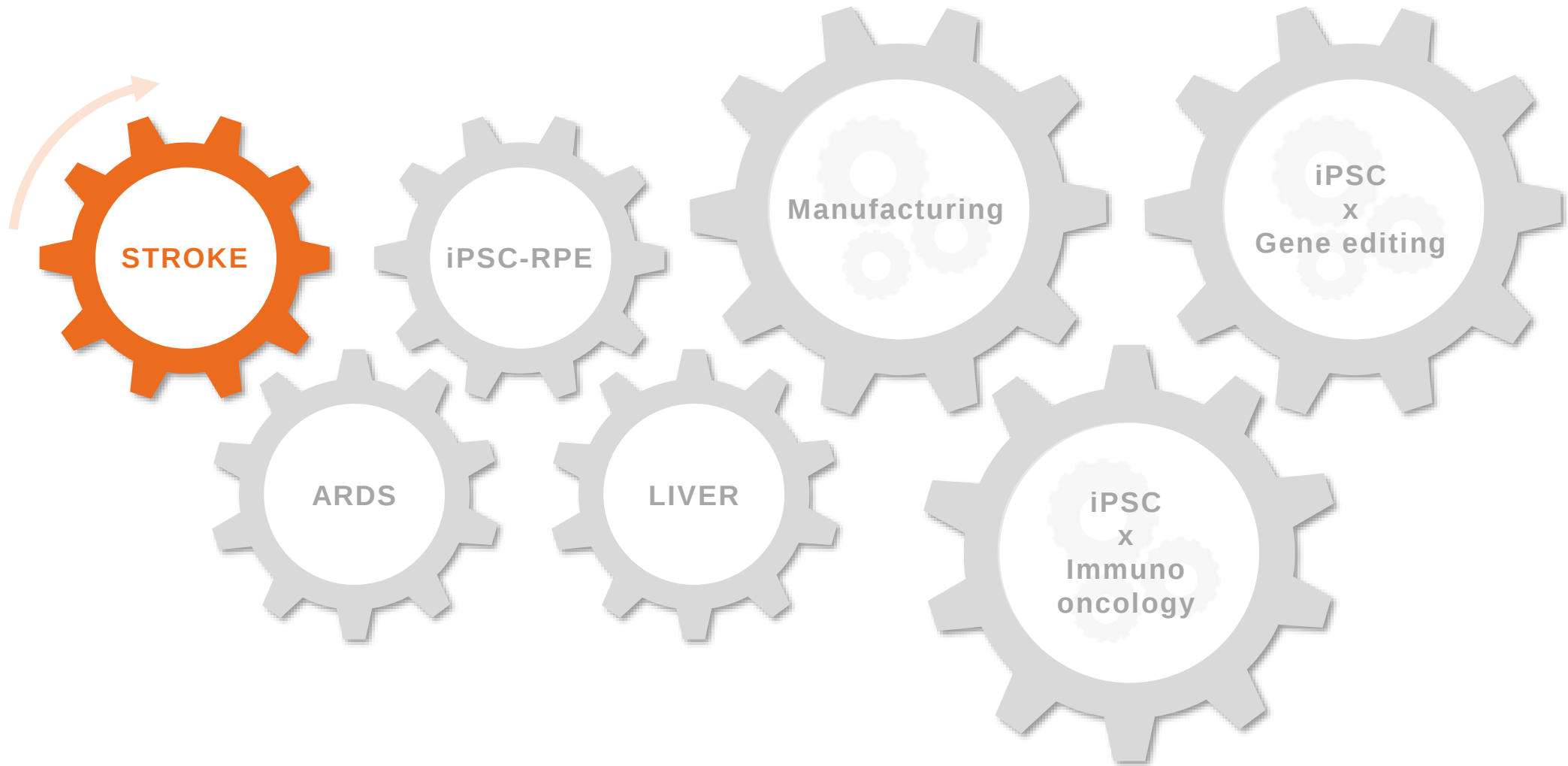
【Benefits of receiving orphan designation】

- Granting of subsidies to reduce development expenses
- Tax measures, priority advice and consultations and priority review
- Longer Reexamination period

ARDS is also a rare disease with an estimated incidence of 7,000 to 12,000 patients per year.

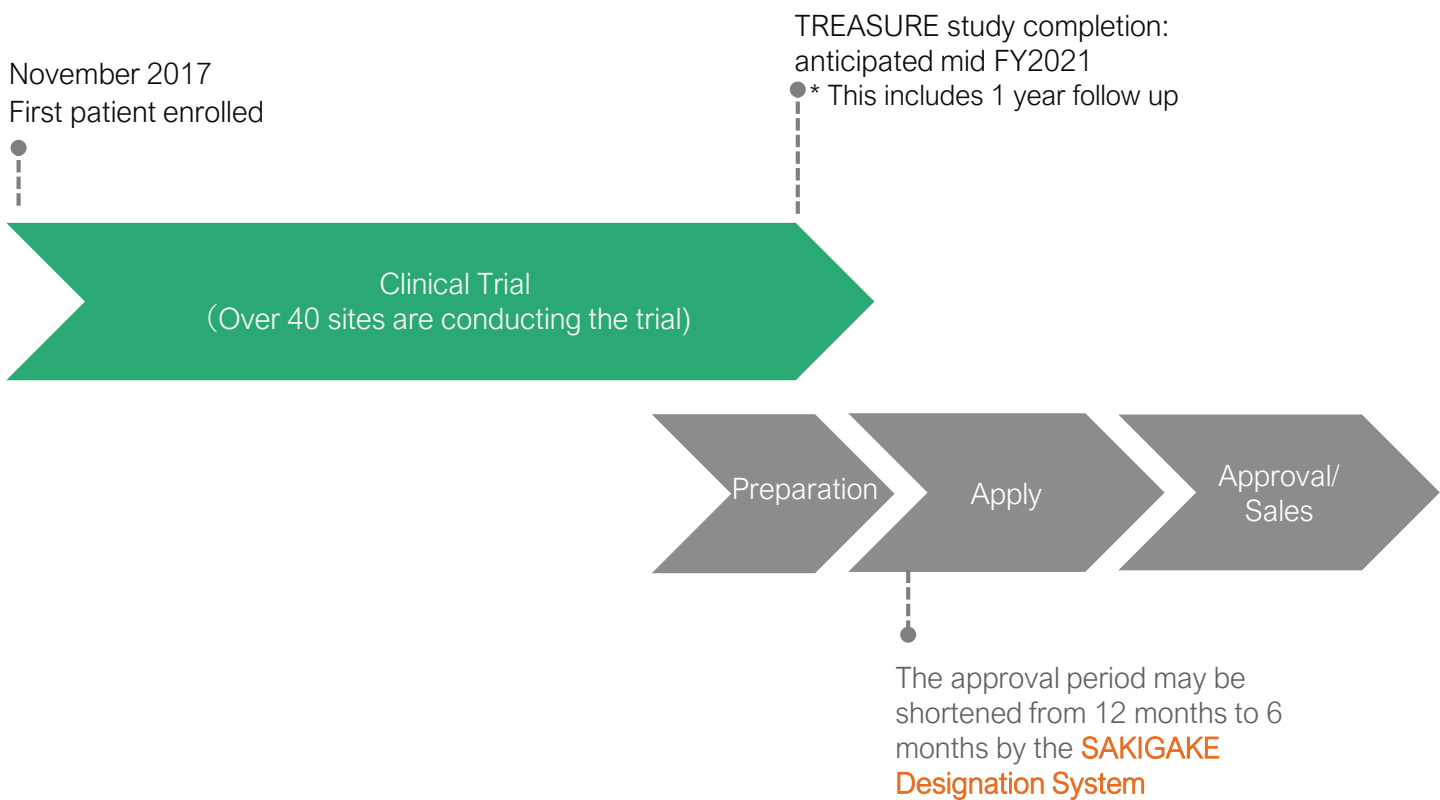
Market	Field	Development Code	Indication	Pre-clinical test	Clinical trial			Apply-approve	On Market	Progress status
Japan	Somatic Stem Cell Regenerative Medicine	HLCM051	Ischemic Stroke						Clinical trial ongoing	
			ARDS						First patient enrolled in April 2019	
	iPSC Regenerative Medicine	HLCR011	Wet AMD						Undergoing preparation for clinical trial Joint development with Sumitomo Dainippon Pharma	
		HLCL041	Metabolic Liver Disease						Joint research with Yokohama City University	

Market	Field	Development code	Indication	Pre-Clinical test	Phase 1 trial	Phase 2 trial	Phase 3 trial	Apply-approve	On Market	Progress status
US EU	iPSC Regenerative Medicine	HLCR012	Dry AMD							CRADA with NEI



Ongoing Placebo-Controlled, Double-Blind, Phase 2/3 Efficacy and Safety Trial of HLCM051 (MultiStem®) in Patients With Ischemic Stroke

Development Plan



Overview of TREASURE study

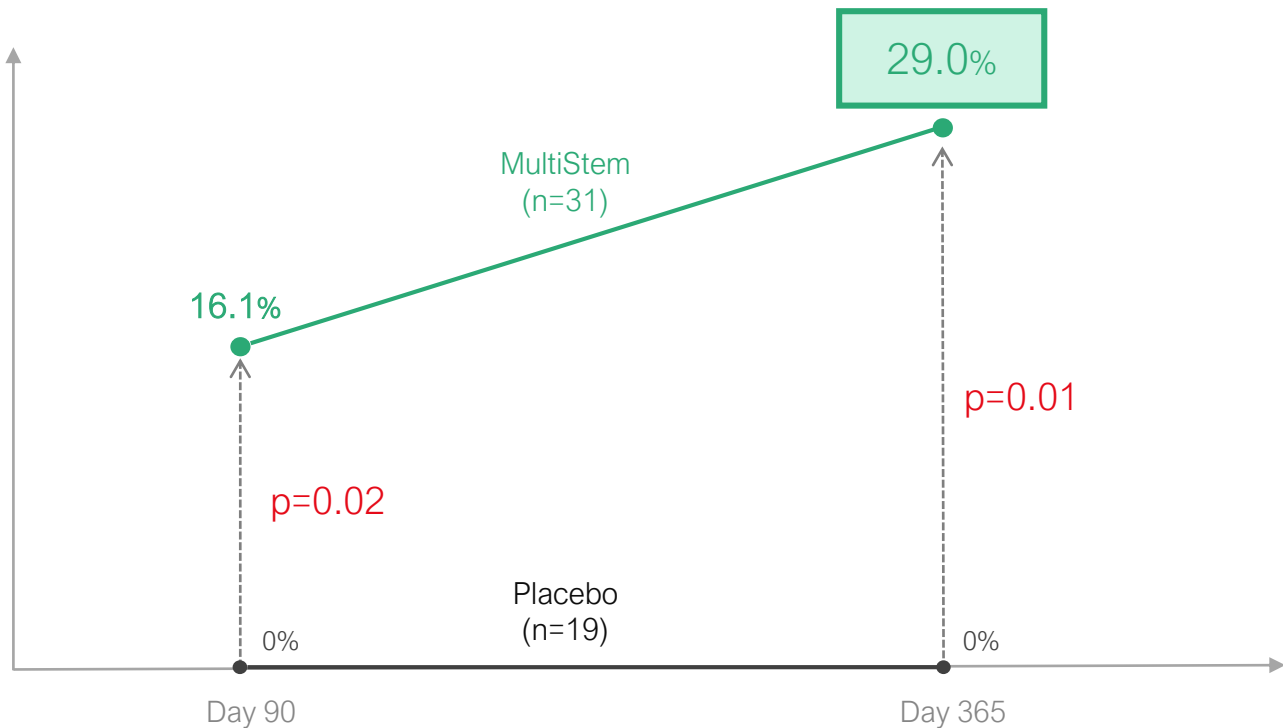
Trial	Placebo-Controlled, Double-Blind, Phase 2/3 Efficacy and Safety Trial of HLCM051 (MultiStem®) in Patients With Ischemic Stroke (TREASURE study)
Subjects	Ischemic stroke within 18 to 36 hours
Conditions	Placebo-Controlled, Double-Blind
Enrollment	220 (HLCM051 [n=110], placebo [n=110], randomized)
Primary Endpoints	Proportion of subjects with an excellent outcome defined by functional assessments [Time Frame: Day 90]

- “Excellent Outcome” is defined as achieving mRS ≤1, NIHSS ≤1, and BI ≥95. mRS, NIHSS, and BI are the three major indices of functional assessment for stroke patients.

The proportion of patients who achieved Excellent Outcome was **statistically significant** in the group of patients who received MultiStem within 36 hours of the onset of cerebral infarction

Analysis of the Double-blind study conducted by Athersys

Overview of the Analysis



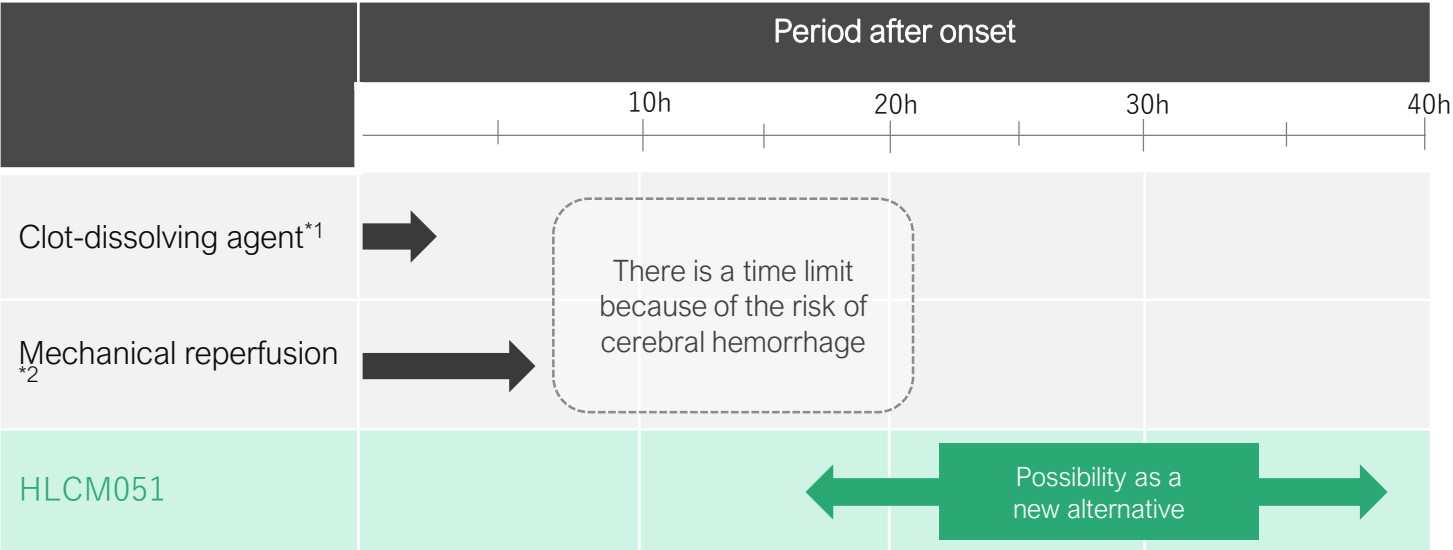
Trial	The placebo-controlled double-blind Phase 2 study conducted by Athersys in the US and the UK (MASTERS study)
Subjects	Administered MultiStem or Placebo within 36 hours of the onset of stroke
Endpoint	Proportion of subjects with an Excellent Outcome on Day 90 and Day 365

*<Excellent Outcome> is defined as mRS score of ≤1 (scale, 0 to 6), NIHSS score of ≤1 (scale, 0 to 42), and BI score of ≥95 (scale, 0 to 100).

(Source) This material was based on Lancet Neurol. 2017 May;16(5):360-368; 16 360–68 Supplementary appendix Table 5

Expected development of a new therapy that can be applied in a longer treatment window period following the onset of ischemic stroke (ability to help more patients)

Treatment in Accordance with the Period After Onset



※1 Dissolves blood clots in the brain vessels
※2 Insertion of the catheter into a blood vessel and recovery of the thrombus directly with a wire.

Ischemic Stroke

Ischemic stroke, which represents the most common form of stroke (70 - 75% of cases in Japan), is caused by a blockage of blood flow in the brain that cuts off the supply of oxygen and nutrients, resulting in tissue loss.

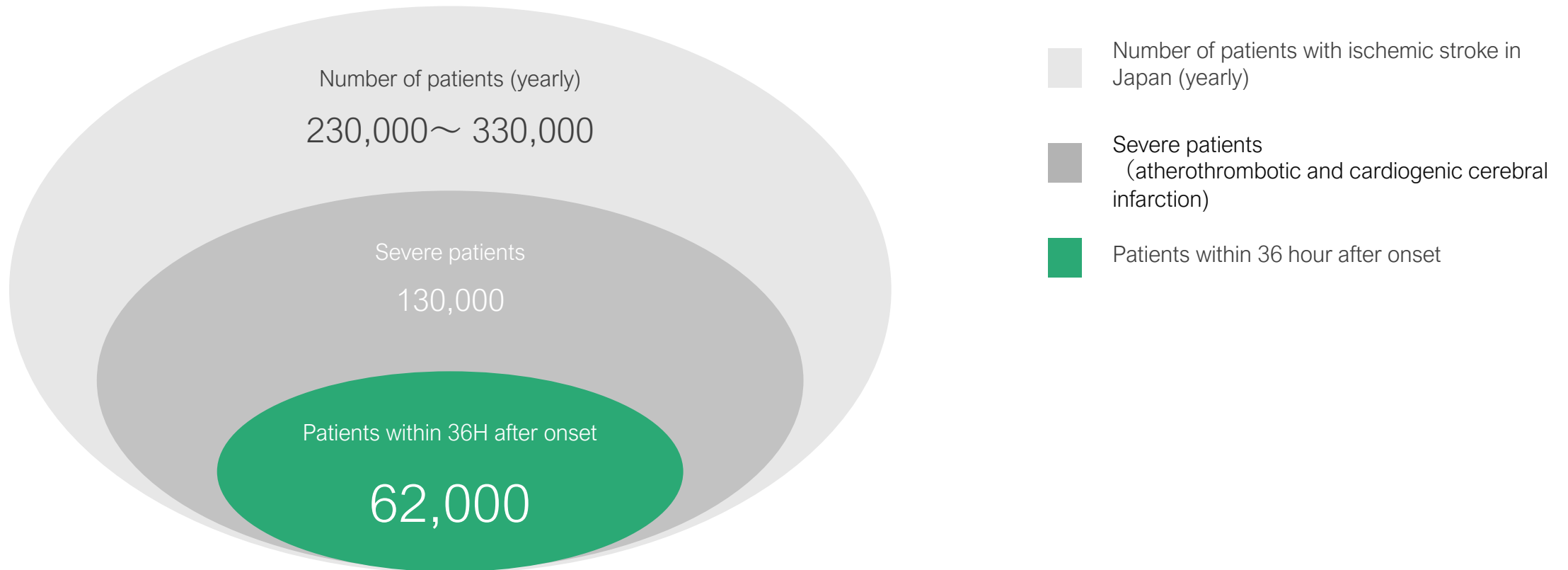


(Source) Athersys

It is estimated that 37.9% of bedridden patients and 21.7% of persons who were in need of care were affected by ischemic stroke.

(Note) This material was prepared to explicitly describe the major therapeutic options for ischemic stroke and their treatment window periods after onset. Appropriate treatments are conducted according to patients' conditions and classification of their symptoms. Experimental or investigational treatments not included in the above are also performed.

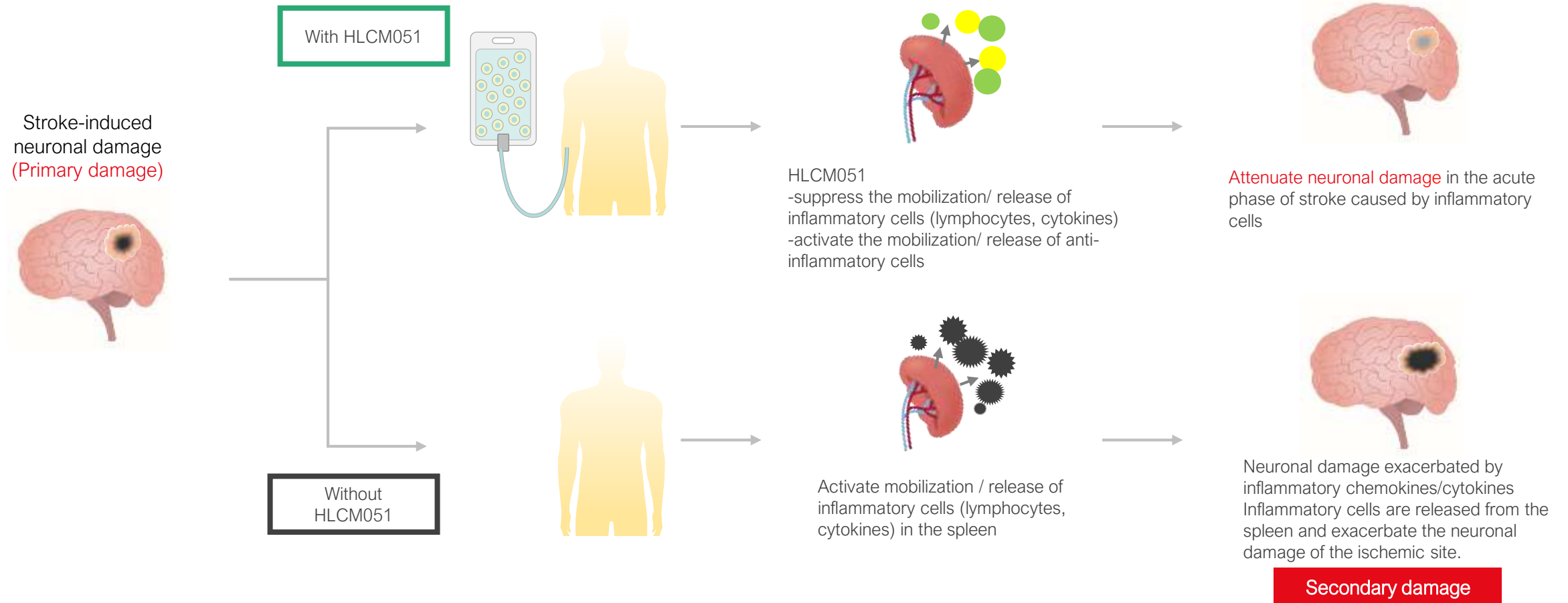
The number of patients in Japan targeted for HLCM051 is estimated to be 62,000 a year



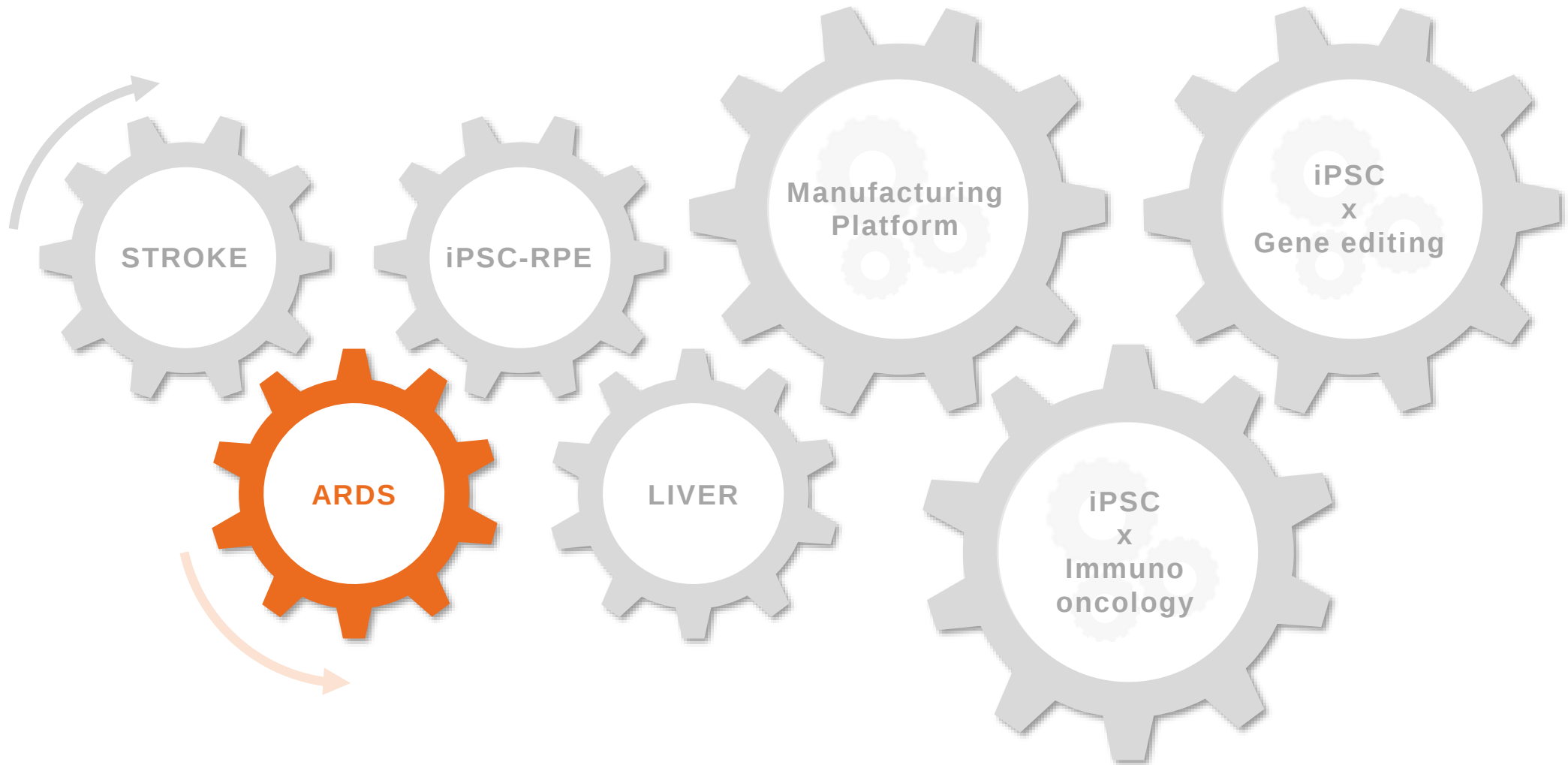
(Source) Healios estimated the annual number of new patients with ischemic stroke in Japan according to materials issued by the Fire and Disaster Management Agency, the Ministry of Internal Affairs and Communication, and the Ministry of Health, Labour and Welfare – DATAMONITOR epidemiological estimates also shown as upper end of range.

(Source) Healios estimated the percentage of patients who reach the hospital within 36 hours after onset at 47% according to the results of its market research.

Administered intravenously, HLCM051 distributes to the spleen downregulating the hyperinflammatory response and promotes a neuroprotective effect by releasing various cytokines and growth factors.



(Source) This figure was based on Stroke. 2018 May;49(5):1058-1065.Fig.2



There is demand for new treatments for ARDS that will lead to improvements in patients' symptoms and prognosis

| About ARDS

Acute Respiratory Distress Syndrome (ARDS) is a general term for the symptoms of acute respiratory failure suddenly occurring in all seriously ill patients.

The major causes are severe pneumonia, septicemia, trauma etc.

Inflammatory cells are activated in response to these diseases or injuries, causing damage to the tissue of the lungs. As a result, water accumulates in the lungs, leading to acute respiratory failure.



(Source) Athersys

Typically, ARDS is said to occur within 24 to 48 hours of the onset of the illness or injury that caused it. **The mortality rate is approximately 30 to 58%*.**

(* ARDS treatment guideline 2016)

| Current Treatment

Artificial respiration using an endotracheal tube or mask is used to treat for respiratory failure in an intensive care unit (ICU). However, it is known that prolonged use of a ventilator worsens a patient's prognosis.

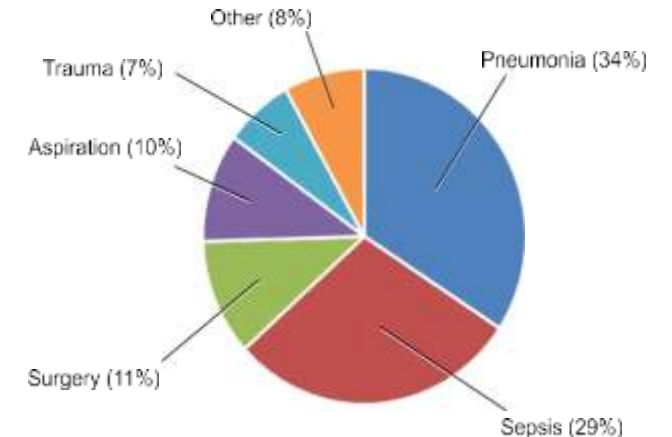
At present, there are no therapeutic drugs that can make a direct improvement to a patient's vital prognosis when ARDS develops. There is demand for new treatments for ARDS that will lead to improvements in patients' symptoms and prognosis.

Number of ARDS patients in Japan estimated approximately 7,000 ~ 12,000 per year
Approximately 1/3 of ARDS cases caused by pneumonia

Epidemiological data

Epidemiological data	Incidence rate	The estimated number of ARDS patients in Japan
Epidemiology, Patterns of Care, and Mortality for Patients With Acute Respiratory Distress Syndrome in Intensive Care Units in 50 Countries. Source : JAMA.2016; 315(8): 788-800	• 0.42 cases per ICU bed • 10.4% of ICU admissions • 23.4% of patients requiring mechanical ventilation	11,937
Epidemiology of Acute Lung Injury (ALI) / Acute Respiratory Distress Syndrome (ARDS) in Chiba Prefecture Source : Journal of Japanese Association for Acute Medicine 2007; 18(6): 219-228	6.1 per 100,000 persons	7,320

Underlying diseases of ARDS

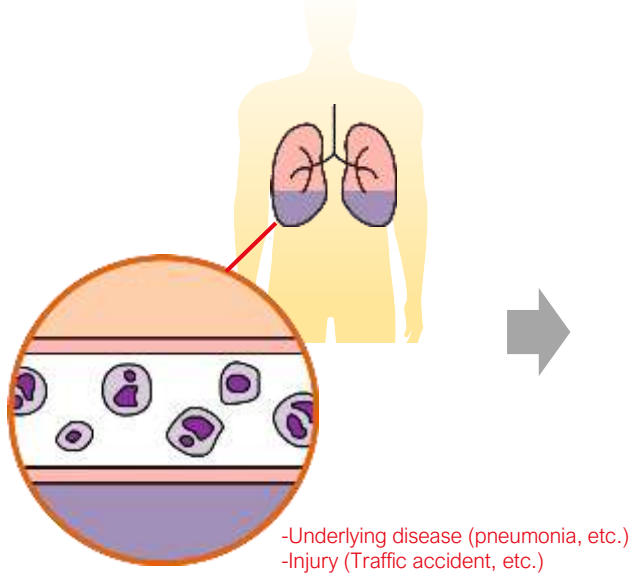


* The number of ARDS patients in Japan is estimated by Healios based on the incidence rate of epidemiological data and the total demographical population in Japan.

(Source) Respiratory Investigation; 55(4): 257-263

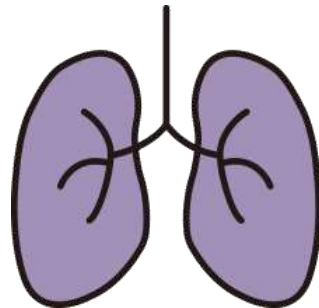
Following intravenous administration after ARDS, HLCM051 accumulates in the lungs and controls excessive inflammation, protects damaged tissue and promotes restoration.

Inflammatory cells are released



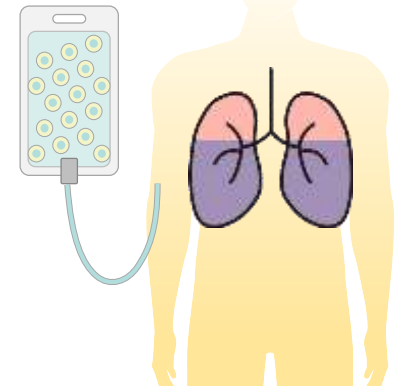
When the tissue is damaged, inflammatory cells are released in large quantities.

Inflammatory cells attack the lungs



The inflammatory cells attack the lungs. As a result, hypoxia develops and the patient falls into severe respiratory failure.

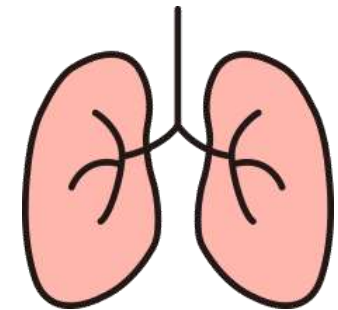
HLCM051 Administered



- Suppresses excessive inflammation in the lungs.
- Protects damaged tissue and facilitates healing.

HLCM051 accumulates in the lungs as a result of intravenous administration.

Lung function improves



We can anticipate earlier ventilator removal and a lower mortality rate.

Promising results from Athersys' exploratory clinical study in US and UK using MultiStem for ARDS patients

Analysis of the Double-blind study conducted by Athersys

	MultiStem	Placebo
Mortality	25%	40%
Ventilator- free (VF) days	12.9 days	9.2 days
Intensive Care Unit (ICU) free days	10.3 days	8.1 days

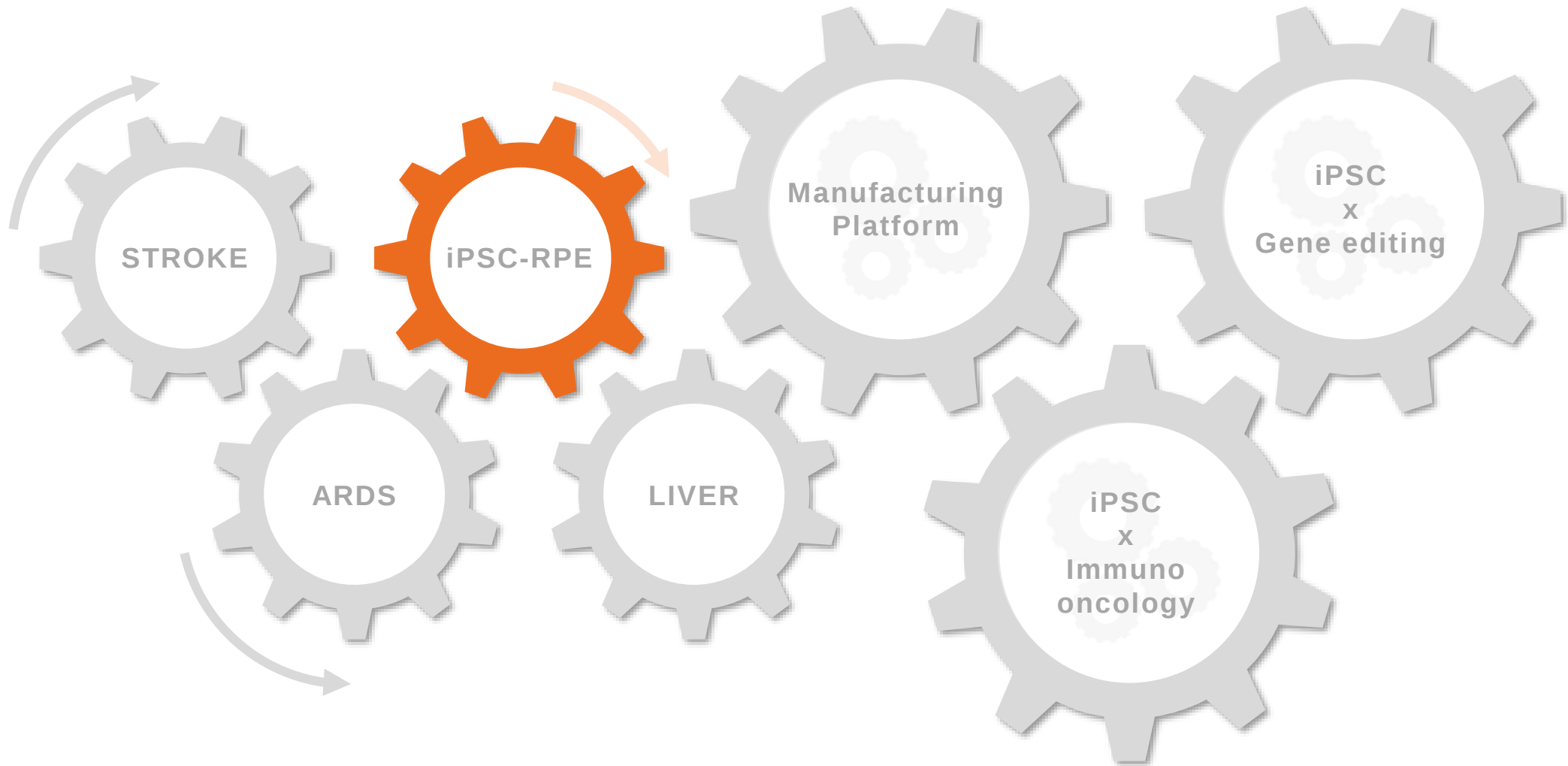
Post-hoc Analysis of patients in severe condition and pneumonia-induced ARDS

	MultiStem	Placebo
Mortality	20%	50%
Ventilator- free (VF) days	14.8 days	7.5 days
Intensive Care Unit (ICU) free days	12.0 days	5.0 days

Overview of the Analysis

Clinical trial	Exploratory clinical trial (Phase 1/2) conducted by Athersys in US and UK (MUST-ARDS study)
Subjects	ARDS patients administered MultiStem or Placebo intravenously (In Phase 2 trial, MultiStem 20, Placebo 10)
Endpoints	- Mortality - Ventilator Free days (The number of the days out of 28 in which a ventilator was not used for the patient) - ICU Free Days (The number of the days out of 28 in which the patient was out of Intensive Care Unit)

(Source) Athersys



To focus our clinical development on two ongoing trials, we revised the joint development framework with Sumitomo Dainippon Pharma in relation to iPSC-RPE cells in Japan

Major changes

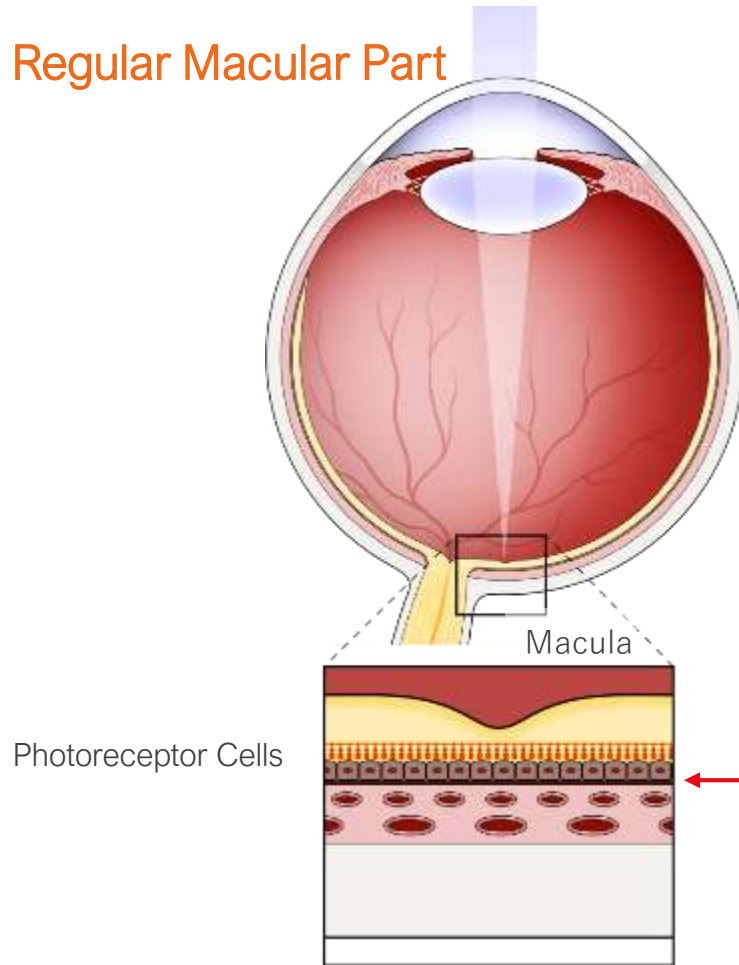
1. Changes in Development Roles
 - Sumitomo Dainippon Pharma will lead the clinical trial going forward
 - Both companies can apply for sales and manufacturing approval based on the results of the clinical trial
2. Changes in the License Agreement
 - The total amount of milestone payments Healios will receive from Sumitomo Dainippon Pharma revised to 1 billion yen (of which 0.7 billion has been received)
 - Development cost allocation adjusted with flexibility (the details are confidential)
 - A non-exclusive overseas license is granted to Sumitomo Dainippon Pharma regarding RPE cell products
3. Changes to the Role of the Joint Venture
 - Only the manufacturing of RPE cell products will be outsourced to Sighregen, a 50-50 Healios and Sumitomo Dainippon Pharma joint venture

History of Joint Development



Age-related Macular Degeneration (AMD) causes Retinal Pigment Epithelial (RPE) cells to degenerate, which damages function

Regular Macular Part



Photoreceptor Cells

Retinal Pigment Epithelial (RPE) Cell

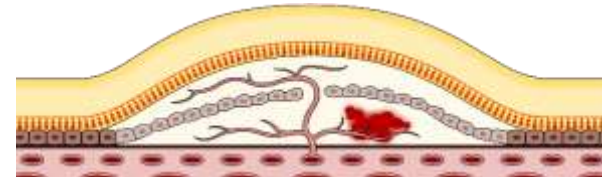
Developed Dry-AMD

Immunity barrier maintained
→ Degeneration of photoreceptor → Dry AMD



Wet AMD

Destruction of immunity barrier → Invasion of immune cells
→ Inflammation → Wet AMD



Large number of both Wet and Dry AMD patients (including mild cases)

	(Thousand patients)		
	US 	Japan 	Others
Number of AMD Patients	10,000	9,230	13,000
Number of AMD Patients in Serious Cases	2,000	690	2,600~3,220
Wet-AMD patients in serious cases	1,000~1,500	630	1,300~1,950
Dry-AMD patients in serious cases	850~900	60	1,100~1,170

※According to research by Hisayama Kyushu University Graduate School of Medicine in Fukuoka (based on a comprehensive study), the total number of patients in Japan is calculated, estimating the total number of first-stage age-related macular degeneration and latter stage of age-related macular degeneration based on population statistics (2007). Also, the Disease Information Center announced that the number of patients suffering serious cases is approximately 690,000. The total number of patients in the US, which the National Eye Institute reports, includes the total number of age-related macular degeneration patients in mild cases and patients with visual field defects. Also, our company calculated the total number of Dry/Wet patients based on the incidence rates presented by AMDF (2010). Our company calculated the total number of patients in Europe based on incidence rates in each grade of European population statistics (2010)

※Source: Prevalence of age-related maculopathy in older Europeans: the European Eye Study (EUREYE).Source: Arch Ophthalmol. 2006 Apr;124(4):529-35

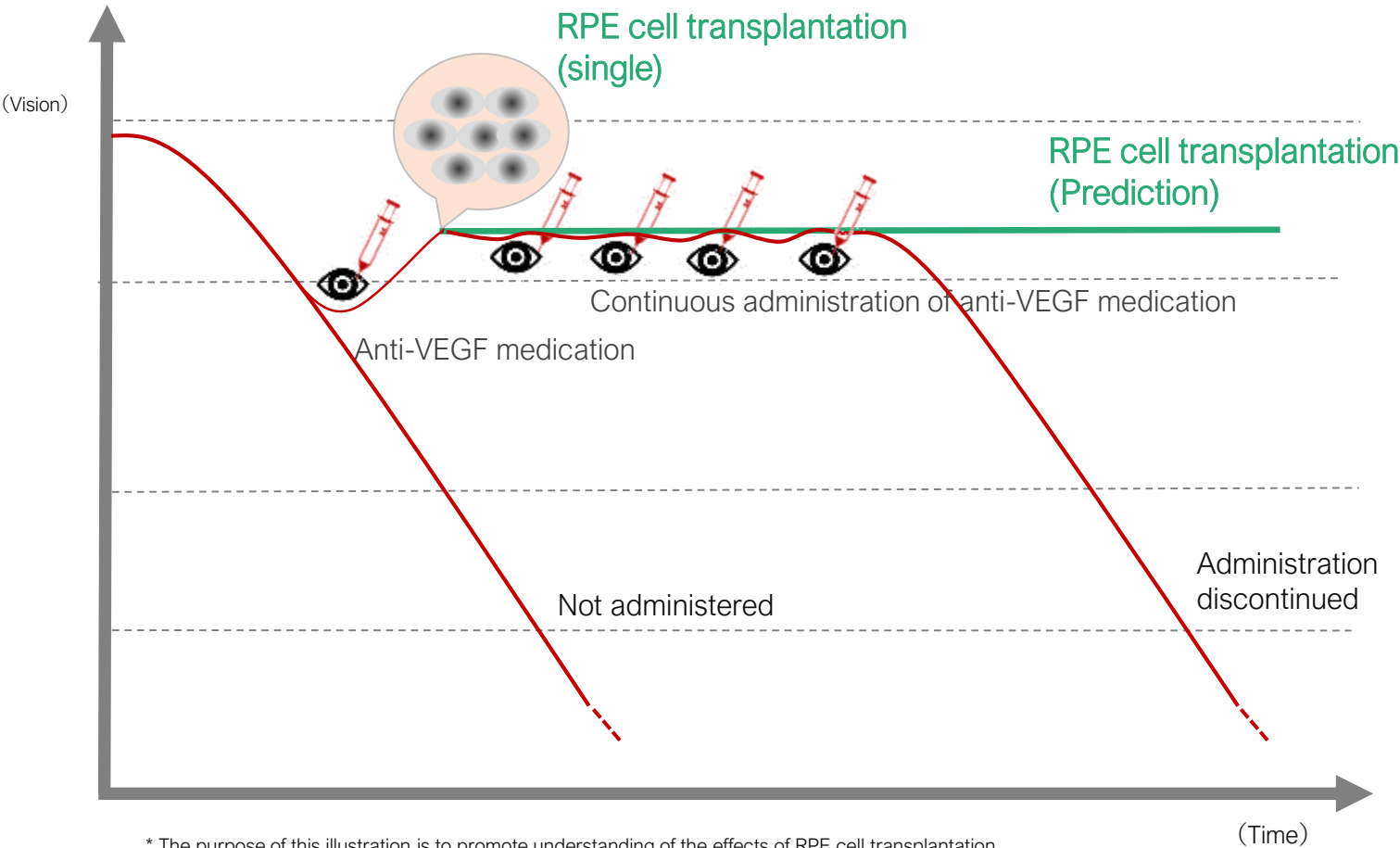
Sales of anti-VEGF treatment are increasing every year

No medicine for Dry AMD

Indication	Medicine/Effect	Year				Total
			US 	Japan 	Others	
Wet AMD and other 3 diseases	Anti-VEGF treatment/ Restraint of New Blood Vessels	2016	4.729 billion USD	580 million USD	3.127 billion USD	8.436 billion USD
		2017	5.116 billion USD	632 million USD	3.483 billion USD	9.231 billion USD
		2018	5.735 billion USD	713 million USD	4.001 billion USD	10.45 billion USD
Dry AMD						

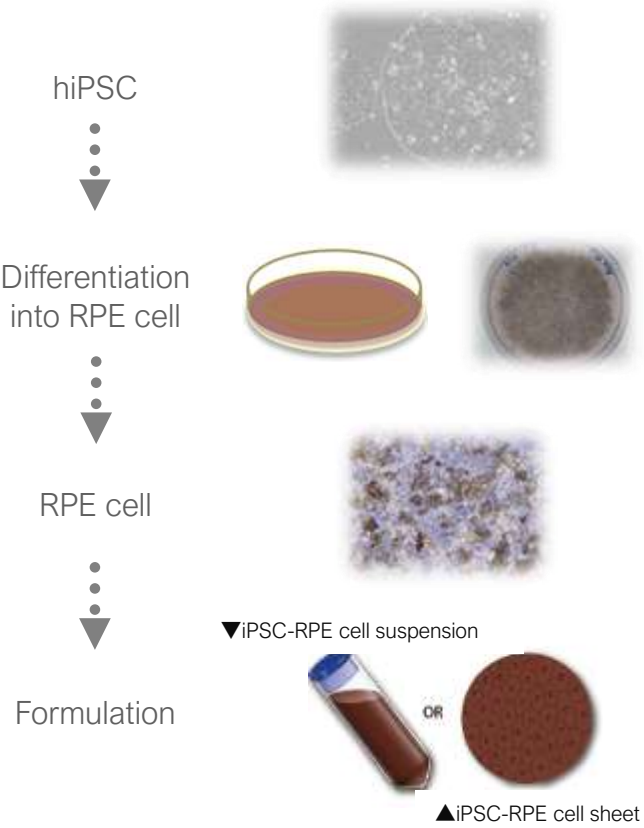
(Source) Market scale was calculated using official materials from drug companies (Roche Diagnostic, Novartis, Regeneron, Bayer HealthCare, Santen Pharmaceutical Co., Ltd).
Calculated using 2015,2016,2017 fiscal year-average exchange rates. (FY2016: \$1=¥110, FY2017: \$1=¥112, FY2018:\$1=¥110)

Good vision can be maintained with early treatment



* The purpose of this illustration is to promote understanding of the effects of RPE cell transplantation.
Changes in vision with the administration of anti-VEGF medication vary according to patient symptoms and administration frequency.

iPSC-RPE Cell Differentiation



Anti-VEGF medicine mostly continues from the beginning of treatment until death

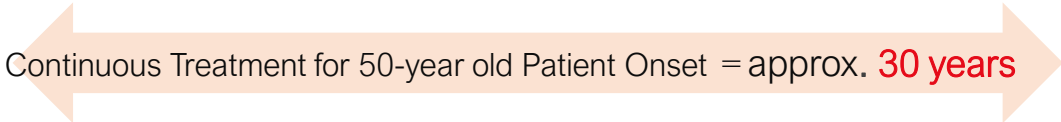
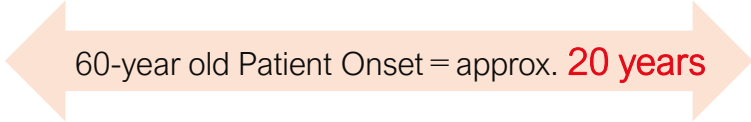
Annual Medical Expense

$$\begin{array}{ccccc} \text{Unit Price of Anti-VEGF + Treatment Price} & & \text{Annual Recommended} & & \text{Annual Medical Expense} \\ 160,000 \text{ yen} & \times & \text{Medication Protocol} & = & 1,000,000 \text{ yen} \\ & & 6 \text{ Times} & & \end{array}$$

Estimate of Lifetime Medical Expense

On the Assumption of Average Life Span (Japan): 80 years old (Male) / 86 years old (female)

Estimate of Lifetime Medical Expense

 Continuous Treatment for 50-year old Patient Onset = approx. 30 years	$\times$	1 million yen	$=$	Approx. 30 million yen
 60-year old Patient Onset = approx. 20 years	$\times$	1 million yen	$=$	Approx. 20 million yen

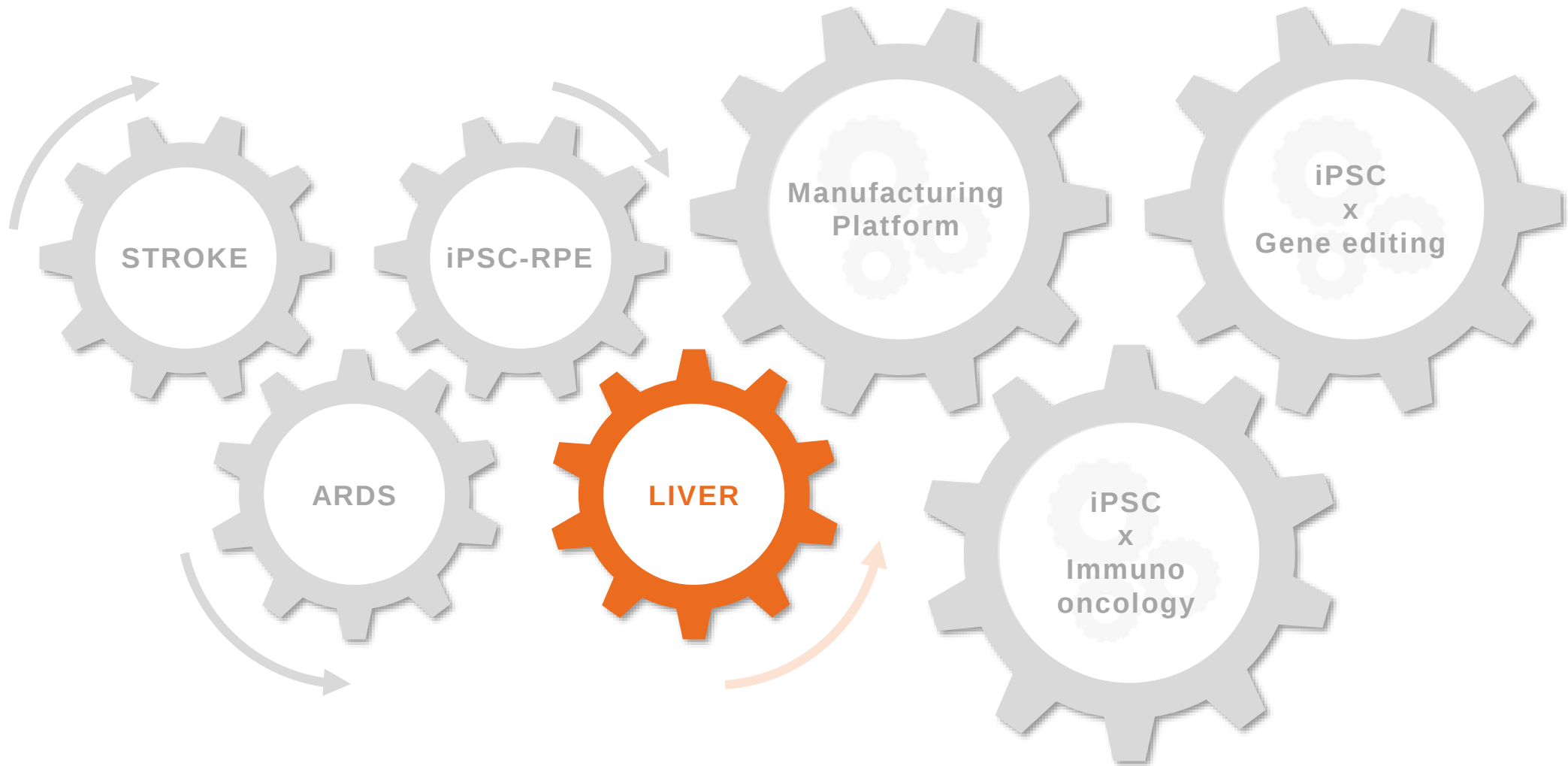
(source) Onset Data: National Eye Institute; Average Life Span: The Ministry of Health, Labor and Welfare; Annual Recommended Medication Protocol: Materials Presented by Institute of Physical and Chemical Research

Sighregen, a joint venture with Sumitomo Dainippon Pharma, is establishing a manufacturing facility

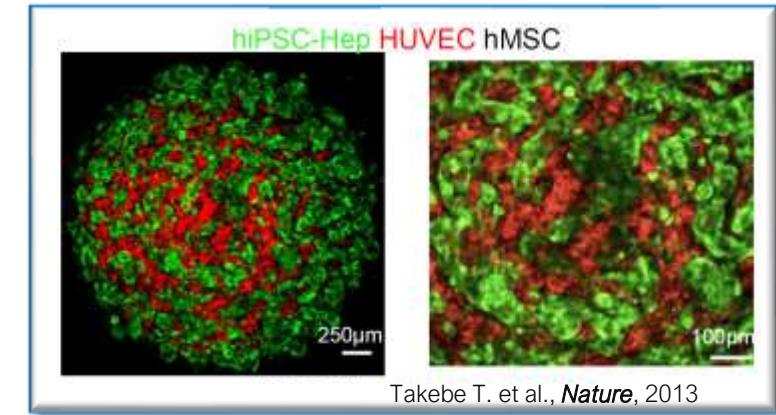
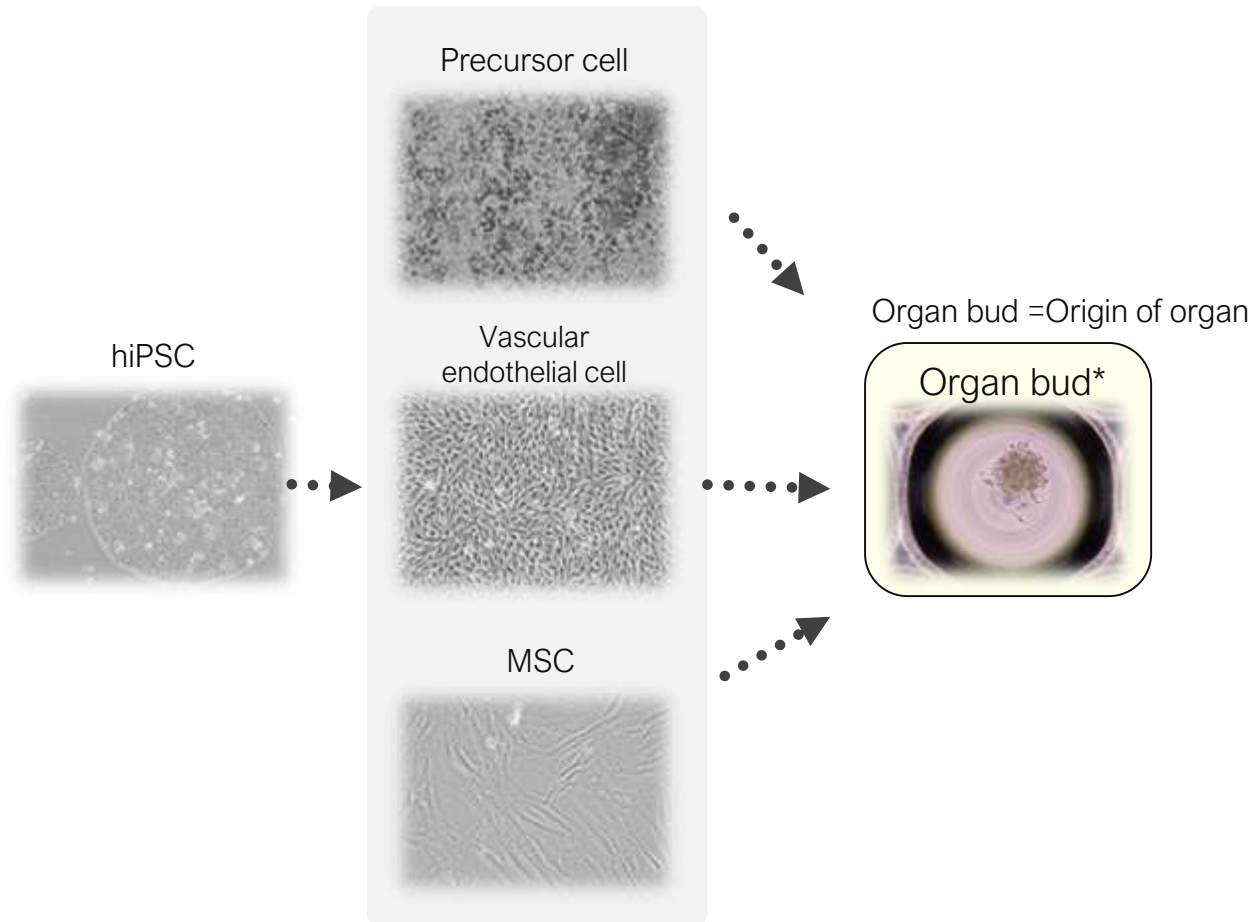
“SMaRT”, the Manufacturing Plant for Regenerative Medicine & Cell Therapy by Sumitomo Dainippon Pharma

Sighregen rents the facility in SMaRT and is establishing the iPSC-RPE manufacturing system and facility for iPSC-RPE cell products





Generating “Organ buds” by co-culturing 3 types of cells



Cell Transplantation

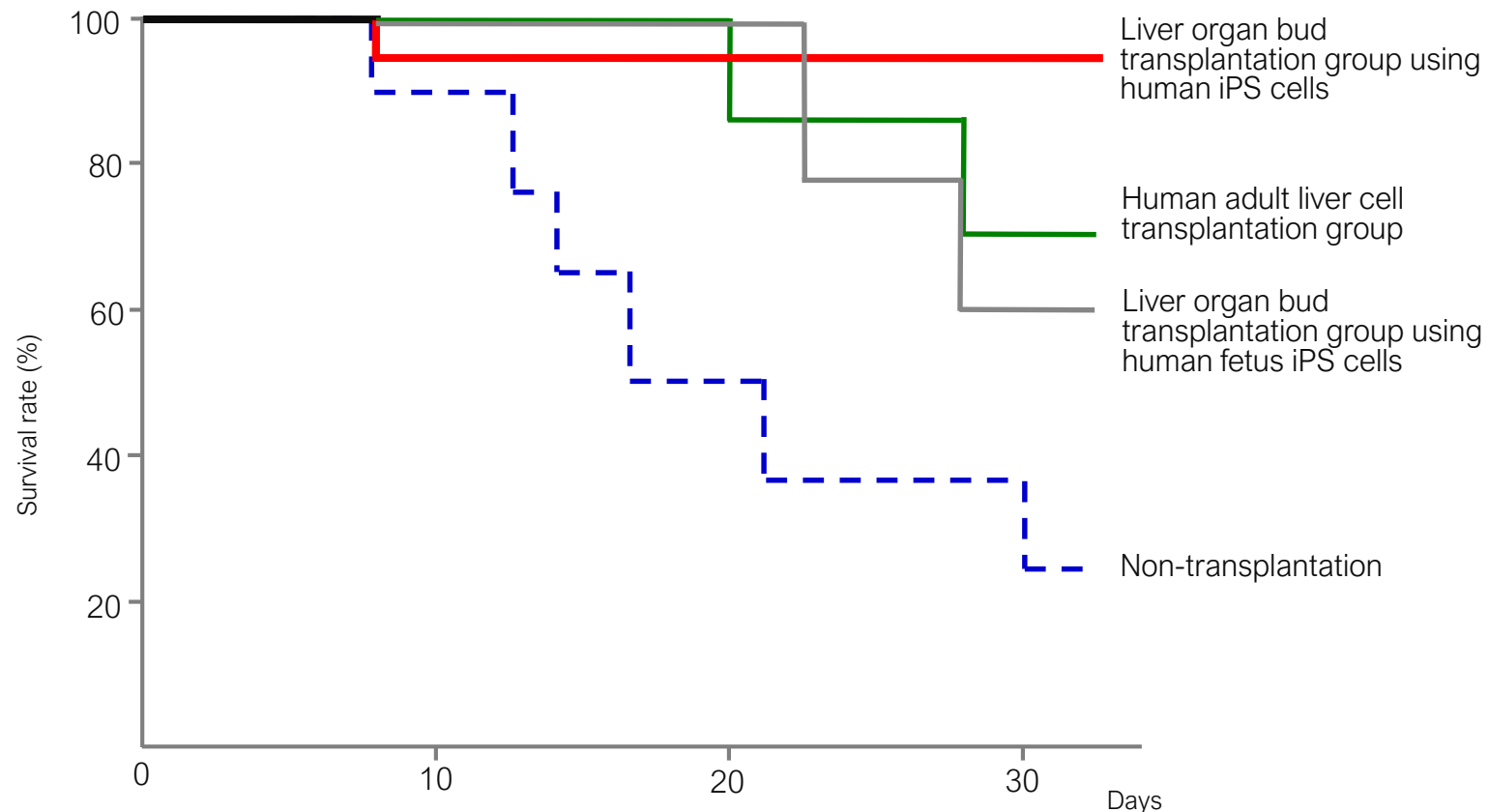
Containing blood vessels and human liver



(Source) Takebe T. et al., *Nature Protocols*, 2014

Survival rate improves significantly in transplantation experiments

Treatment effects of liver bud transplantation to mouse using hiPSC



(Source) Adapted by Healios from Takebe, T, et al. Nature, 499 (7459), (2013)

Process

Process by which organ forms from organ bud links mouse's vascular network autonomously



(Source) Takebe, T., et al.
Nature Protocols, 9, 396–409 (2014)

Prospecting R&D for alternative treatment for liver transplantation
Liver disease drawing attention in the future is cirrhosis

Liver Transplantation

	Liver transplantation			Total
	US 	Japan 	Europe	
Number of patients undergoing treatment (Annual)	Approx. 6,000	Approx. 400	Approx. 4,000	Approx. 10,000
Number of patients on waiting list (Annual)	Approx. 15,000	Approx. 400	Approx. 4,000	Approx. 20,000

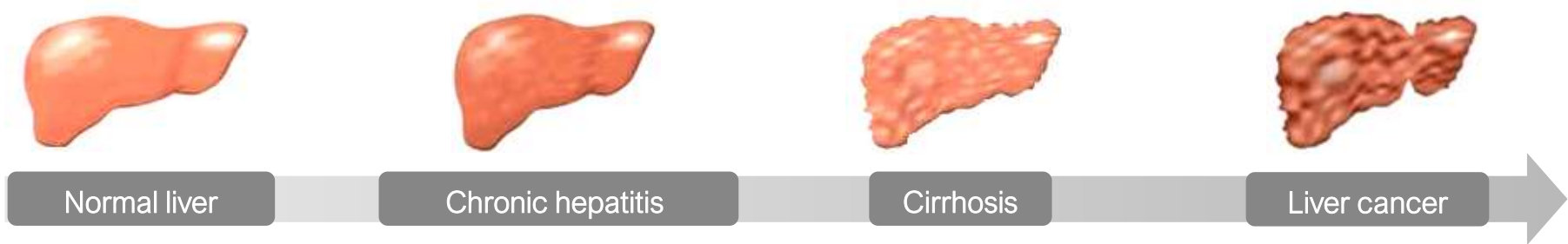
(Source) Compiled by Healios based on materials disclosed by Japanese Liver Transplantation Society, UNOS, Eurotransplan, UK Transplant, Agence de la biomédecine, and Scandia Transplant.

Patients with Cirrhosis

Cirrhosis 	Number of Patients in Japan
Estimated patients with cirrhosis	400,000~500,000
Number of patients receiving treatment at medical facilities.	Approx. 56,000
Annual deaths in Japan	Approx. 17,000

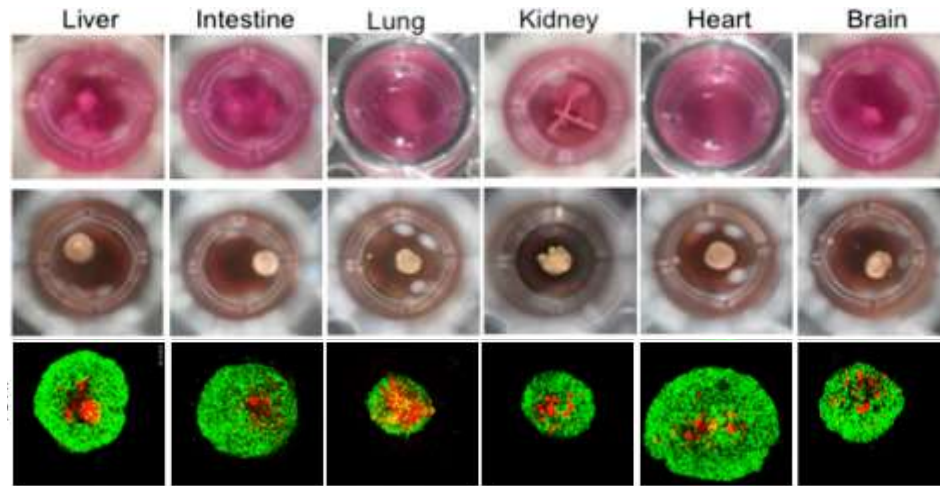
(Source) Patient Survey 2011 Liver Cancer White Paper 2015

Progress of liver disease

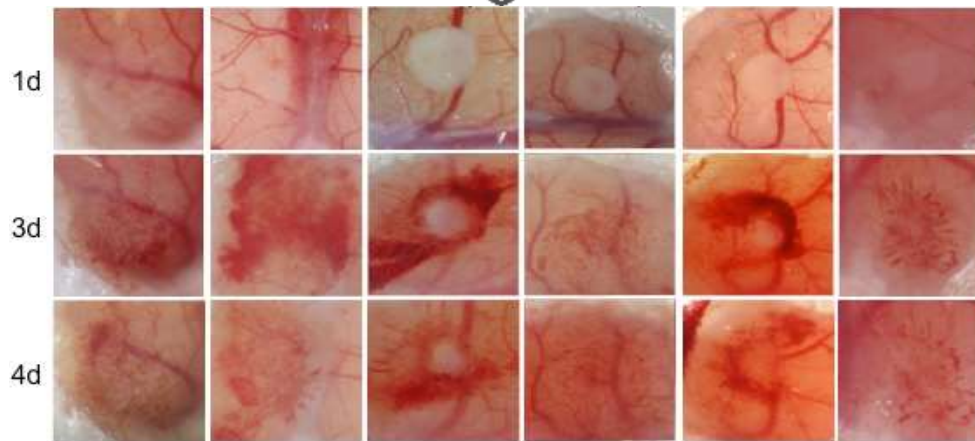


Inducing progenitor cells from iPSC will expand the possibility of development across various organs

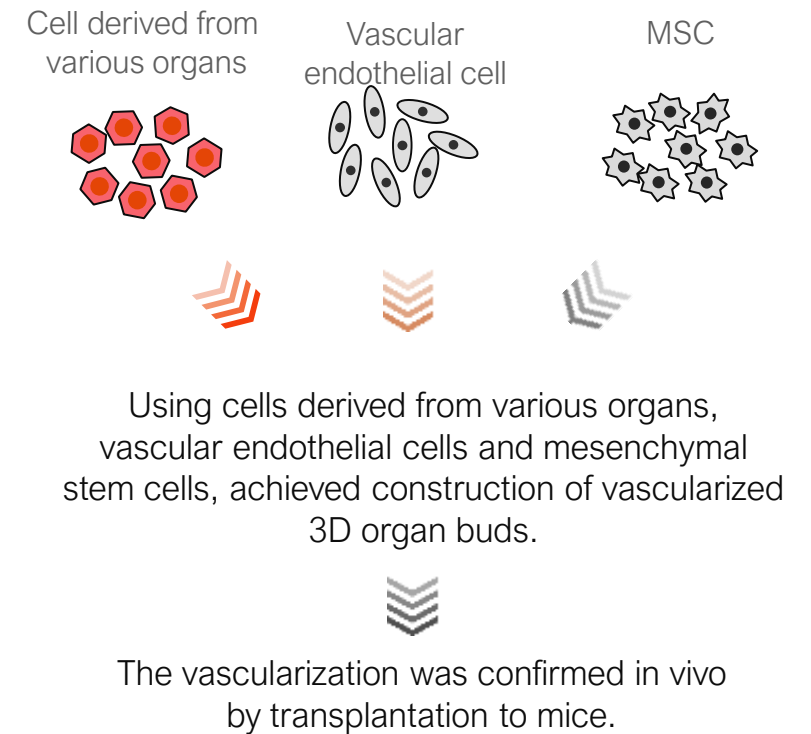
Potential application for various organs



Green : Cells of each organ
Red : Vascular endothelial cell
Black : MSC



Transplanted to mice



(Source) Modified from Takebe T. et al., *Cell Stem Cell*, 2015

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Three horizontal lines of varying colors (orange, red, and yellow) stacked vertically.

Financial Highlights

(Units: one million US dollar)

	FY 2018 Q3(YTD)	FY 2019 Q3(YTD)		
			YoY variance	Main reasons for increase/decrease
Sales	—	—	—	
Operating income	-36.80	-27.72	9.08	Mainly due to decrease in R&D expenses +\$9.61mn
Ordinary income	-37.00	-29.71	7.29	
Net income	-37.03	-28.82	8.21	

R&D expenses	31.20	21.60	-9.61	
Number of employees	89	108	19	

*Adopt average exchange rate (JPY/USD) over respective 9 month periods for P&L; FY2018 Q3 109.60 yen per dollar and FY2019 Q3 109.12 yen per dollar.

Balance sheet



(Units: one million US dollar)

		December 31, 2018	September 30, 2019		
				Variance	Main reasons for increase/decrease
Total assets	Current assets	111.05 (82.3%)	183.10 (88.1%)	72.04	Mainly due to increase in cash equivalents +\$71.59mn (cash equivalent balance at 9/30/19 was \$176.34mn)
	Non-current assets	23.91 (17.7%)	24.85 (11.9%)	0.94	
		134.96 (100.0%)	207.94 (100.0%)	72.99	
Total liabilities	Current liabilities	14.62 (10.8%)	5.35 (2.6%)	-9.27	Mainly due to decrease in advances received -\$5.00mn and accounts payable -\$3.96mn
	Non-current liabilities	23.20 (17.2%)	106.98 (51.4%)	83.78	Mainly due to the issuance of convertible bonds \$ 83.40mn
		37.82 (28.0%)	112.33 (54.0%)	74.51	
Total net assets		97.14 (72.0%)	95.62 (46.0%)	-1.52	Mainly due to net loss -\$28.82mn and the issuance of new shares +\$32.35mn
Total liabilities and net assets		134.96 (100.0%)	207.94 (100.0%)	72.99	

*Adopt spot rate (JPY/USD) at end of fiscal period for B/S.; FY2018 Q4 111.00 yen per dollar and FY2019 Q3 107.92 yen per dollar.

8

Three horizontal lines of varying colors (orange, red, and yellow) stacked vertically.

Appendix

Management Team Since July 2019



Jun Narimatsu	Richard Kincaid	David Smith	Michael Alfant	Gregory Bonfiglio	Yoshinari Matsuda	Seigo Kashii
Accountant Supporting various venture companies in the field of IT/ Healthcare	Executive Officer CFO Experienced at Nezu Asia Capital Management (hedge fund)	Executive Officer Manufacturing field Served at Lonza Extensive experience in cell manufacturing	Group Chairman & CEO, Fusion Systems, Co., Ltd. Presidents Emeriti, ACCJ	Founder & Managing Partner of Proteus, LLC. (Investment in RM ventures)	Attorney-at-Law, Senior Management Partner of Uruma Law Offices Legal Professional Corporation	Ex-corporate auditor of Astellas Pharma

Masanori Sawada	Mahendra Rao	Hardy TS Kagimoto	Kouichi Tamura	Michihisa Nishiyama	Koji Abe
Executive Vice President, CMO (Chief Medical Officer) MD, PhD, MBA	Chairperson of Scientific Advisory Board First Director of NIH Center of Regenerative Medicine	Chairman and CEO MD, Founder	Executive officer Research field Ex-Astellas US Director of Laboratories Expertise in Immunosuppressant Research	Executive Officer Development field Constructed network for Tacrolimus approval and sales at Astellas in the US and Europe	Executive Officer HR & GA field Over 30 years experience in HR

Company Overview

About us

Company Name	HEALIOS K.K.
Representative	Hardy TS Kagimoto, MD, Chairman and CEO
Establishment	February 24, 2011
Paid in Capital	12,816 million yen (As of September 30, 2019)
Head office	World Trade Center Building 15F 2-4-1 Hamamatsucho Minato-ku, Tokyo Japan 105-6115
Number of Employees	108 (As of September 30, 2019)
Business	Research, development and manufacturing of cell therapy/ regenerative medicine products
Research Institution	Kobe and Yokohama
Affiliated Company	Sighregen Co., Ltd. (Joint Venture with Sumitomo Dainippon Pharma Co., Ltd.)
Subsidiary	• Healios NA Inc. (Established in February 2018) • Organoid Neogenesis Laboratory Inc. (Established in June 2018 to promote the practical use of organ bud technology)

Expanded the alliance with Nikon to pursue regenerative medicine growth opportunities

Nikon invested additional 4 billion yen via convertible bonds

Overview of the Business Alliance

<Healios>

- Promoting the search and development of new seeds in the regenerative medicine field
- Cooperating in relation to manufacturing currently being undertaken by Nikon
- Beginning of discussions to consider cell contract manufacturing for various products
Healios is developing in house

<Nikon>

- Supporting the development from the perspective of cell contract manufacturing and image evaluation for cells

HLCM051 Manufacturing Framework



History of Partnership with Nikon



In July 2019, raised **11.6 billion yen (total net proceeds)** through an international offering issuing new shares and convertible bonds, in addition to the funding from Nikon

Overview of Fund Raising

Issuance of New Shares through an International Offering	
Number of issued shares through the offering	1,948,100 shares
Total amount to be Paid	2,833,316,640 yen

Issuance of Zero Coupon Convertible Bonds through an International Offering	
Amount to be paid	5 billion yen
Conversion price	1,771 *The conversion price shall be revised under certain conditions
Interest rate and maturity date	Interest rate: 0.0% Maturity date: July 26, 2022
Number of potential shares by the issuance ^(*)	2,823,263 shares of common stock (5.51%)

Issuance of Convertible Bonds through a third party allotment to Nikon	
Amount to be paid	4 billion yen
Conversion price	2,037
Interest rate and maturity date	Interest rate: 1.0% per annum Maturity date: July 29, 2024
Number of potential shares by the issuance	1,963,672 shares of common stock (3.83%)

(Note) The ratio of the number of potential shares by the issuance is calculated as follow: the number of shares to be issued in case that all convertible bonds are converted at the initial conversion price divided by 51,232,352 (the total number of common stocks which sums the current number of issued shares as of June 30, 2019 and the number of issued shares through the offering 1,948,100.)

Use of Proceeds

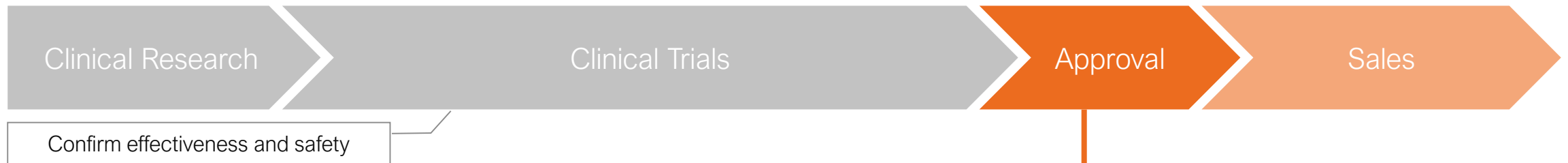
Use of Proceeds	Amount (million yen)
Development costs of HLCM051	2,987
Fees in related to the introduction of new seeds	1,000
Funds from Nikon	3,987
Development of pipeline (including acquisition of new seeds)	3,533
The establishment of/ investment in the Venture Capital Fund	2,500
General working capital	1,600
Funds from International Offering	7,633

	Company	In the field of iPSC Regenerative Medicine	In the field of Somatic Stem Cell Regenerative Medicine
2011	Establishment of the company		
2012	Tokyo office opened		
2013		A patent licensing agreement concluded with RIKEN Joint Development Agreement with Sumitomo Dainippon Pharma Co., Ltd.	
2014		Joint research with Yokohama City University on Organ buds	
2015	Listed on Tokyo Stock Exchange (MOTHERS)		
2016			HLCM051 license agreement with Athersys, Inc.
2017	A business and capital alliance with Nikon BBG250 Business transfer		
2018	Establishment of Healios NA, Inc. in the US Establishment of Organoid Neogenesis Laboratory Inc	CRADA with National Eye Institute	Strategic investment and collaboration expansion with Athersys Development for ARDS
2019	Expansion of alliance with Nikon	Changes in joint development framework with Sumitomo Dainippon Pharma	

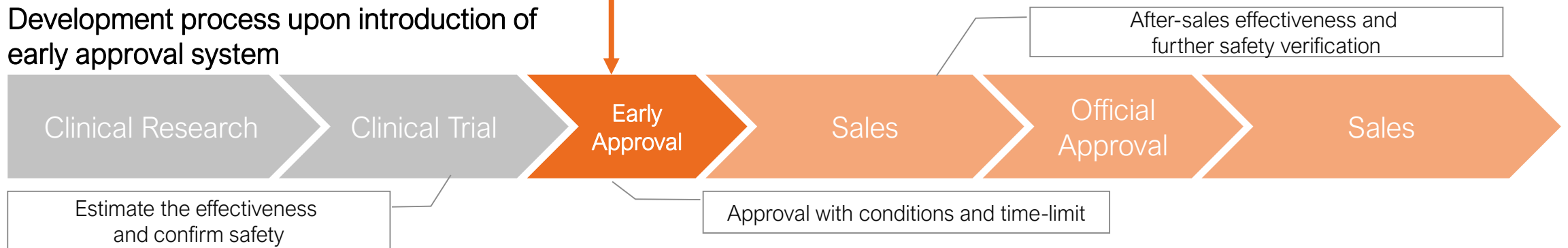
Drastic reduction in the trial time period and number of patients with “Early Approval System”. Insurance is listed at ‘Early Approval’ stage.

Conditional and Time-limited Approval System

Traditional process of development



Development process upon introduction of early approval system



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Healios

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