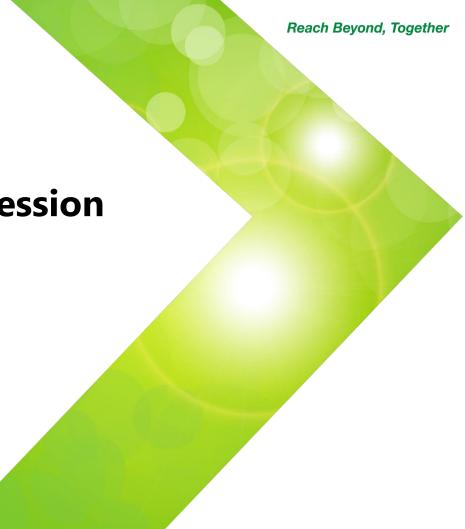


FY2023 Results Briefing Session

May 13th, 2024 JCR Pharmaceuticals Co., Ltd.

[Securities code]4552, Prime. TSE





FY2023

Revenue and earnings growth from increasing sales of core products

FY2024

Strengthen organizational structure to support global clinical development and increase R&D investment

- Expand clinical development team and establish an integrated structure of experts in Japan, US, Europe and Brazil with JCR Europe playing a lead role
- JR-141: Complete patient enrollment for an interim analysis of the global Phase III
- JR-441: Phase I/II study on track (First patient dosed in Oct 2023)
- JR-446: Initiate Phase I/II study in 1st half of FY2024
- JR-171: Discussions on licensing-out ongoing



Progress of Developmental Pipelines

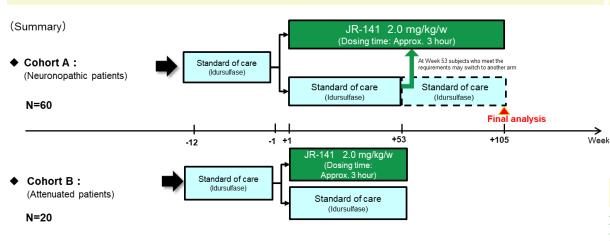
Anne Bechet

Development (Acting Officer)
General Manager, JCR Europe B.V.

JR-141 (pabinafusp alfa: BBB-penetrating ERT for MPS II)



Global Phase III study (JR-141-GS31): STARLIGHT study Overview



Overview	
Objectives	 To assess the efficacy of JR-141 on CNS signs and symptoms in MPS-II subjects relative to standard ERT To assess control of somatic signs and symptoms by JR-141 relative to standard ERT
Endpoints	 Changes in HS in CSF, CNS symptoms (cognitive, behavior, attention) Control of systemic sign and symptoms
Clinical Trails.gov	Identifier : <u>NCT04573023</u>

Current Status

- Recruiting
- Number of Clinical trial sites (as of Apr 2024):
 - US: 5
 - Europe: 12
 - Latin America: 4
 - →Trial is on going in 10 countries
 - Further sites to open in EU, US, Latin America to accelerate recruitment

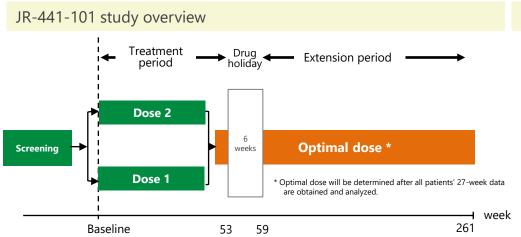
Achievements

- Oct -2018 ODD by FDA
- Feb -2019 ODD by EMA
- >> Feb -2021 Fast Track Designation by FDA
- Oct -2021 PRIME Designation by EMA
- Feb -2022 First Patient dosed in JR-141-GS31
- Dec -2022 Rare Pediatric Disease Designation by FDA
- Completed enrollment of all 20 eligible patients in Cohort B
- Enrollment in Cohort A on track

JR-441 (BBB-penetrating ERT for MPS IIIA)



July 2023 – Started Global Phase I/II study (JR-441-101) in Germany



Overview	
Objectives	Safety, dose finding, exploratory efficacy
No. of subjects	12 subjects (≥1 year and ≤18 years)
Clinical Trails.gov	Identifer : NCT06095388

Achievements and next milestones

- Jan -2022
 EC grants Orphan Drug Designation
- Jul -2023
 Approval of Global Ph I/II Clinical Trial in Germany
- Oct -2023
 First Patient First dosed
- Dec -2023

 FDA grants Orphan Drug Designation
- 1st Half –FY2024
 Last Patient In
- 2nd Half –FY20251-year clinical data is expected
- The Phase I/II study is progressing well
- Started recruiting pediatric patients after approval from the independent data monitoring committee

R&D Pipeline



Code	Indication	Status	Upcoming Milestones
JR-141	MPS II (Hunter syndrome)	Global Ph3	 Q1 FY2024: All patients enrolled necessary for interim analysis ~FY2027: Approval in US, EU, Brazil
JR-171	MPS I (Hurler syndrome etc.)	Global Ph1/2 completed	Extension study is ongoingLicensing out under negotiation
JR-142	Pediatric GHD	Ph2 (Analysis completed)	• FY2024: Phase 3
JR-031HIE	Hypoxic ischemic encephalopathy in neonates	Ph1/2 (Analysis completed)	• TBD
JR-441	MPS IIIA (Sanfilippo syndrome type A)	Global Ph1/2	 1st Half FY2024: LPI 2nd Half FY2025: 1-year clinical data is expected
JR-446	MPS IIIB (Sanfilippo syndrome type B)	Pre-clinical	 Under preparation for clinical trial 1st Half FY2024: FPI in Phase 1/2
JR-471	Fucosidosis	Pre-clinical	• TBD

XOnly high-priority projects in the clinical stage or soon to be in the clinical stage are listed in the above table.



Next Wave of Technology Innovation

Hiroyuki Sonoda, Ph. D.

Vice President Executive Director, Research Division

History of Technological Innovation



Advanced technology and know-how in biopharmaceuticals developed since the company's formation in 1975





Development of proprietary JCR technologies

Stock solutions for COVID-19 Vaccine (AZD1222)

J-Brain Cargo® Tech

Biosimilars

Stem Cell Therapies

Recombinant Proteins

Human-derived therapeutics

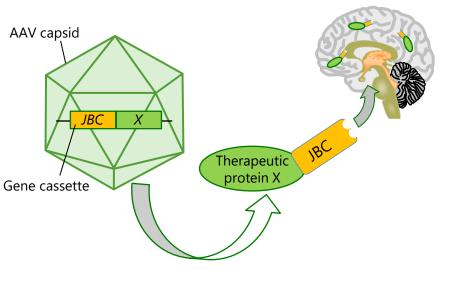
Multi-Modality Innovator

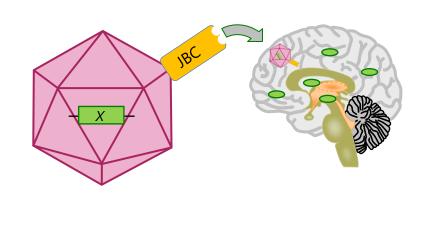
Applying J-Brain Cargo® to Gene Therapy



Treatment with AAV expressing JBC-fusion protein

Treatment with modified AAV expressing JBC tag for direct brain penetration

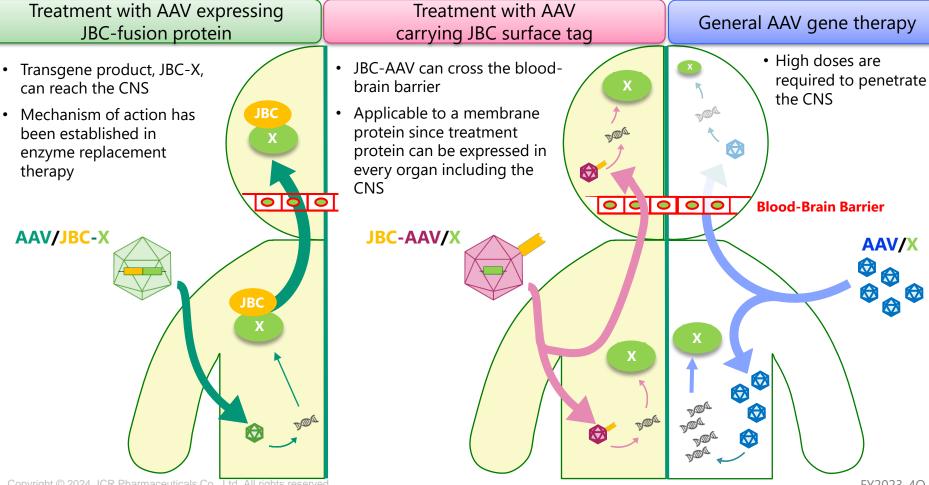




- JCR proprietary gene therapy technology applying J-Brain Cargo®
- >> Treatment strategies can be tailored depending on the disease characteristics

Characteristics of Gene Therapy used J-Brain Cargo®





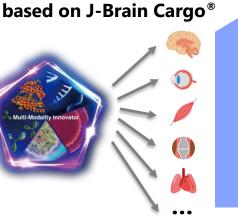
Shaping the Future with our own Technology



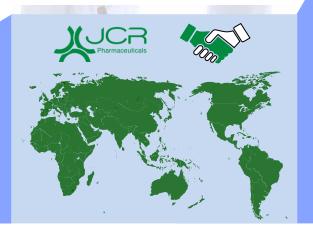


Expansion of partnering opportunities

Increasing R&D collaborations



Widely applicable technology



Creation of breakthrough therapeutics in various disease areas

Lysosomal Storage Diseases

Neurodegenerative Diseases

Ocular Diseases

Orthopedic Diseases

Muscular Diseases



FY2023 Financial Results

Yoh Ito

Senior Corporate Officer Executive Director, Corporate Strategy Division

Consolidated Financial Results



	FY2022	FY2023				
Consolidated	was ilta	waardka	Year-on-year		Full-year	ъ .
	results	results	Difference	Ratio	forecast (Revised)	Progress rate
Net sales	34,343	42,871	+8,528	+24.8%	45,400	94.4%
Cost of sales	8,886	11,620	+2,733	+30.8%	12,400	93.7%
Gross profit	25,456	31,251	+5,794	+22.8%	33,000	94.7%
Selling, general and administrative expenses	20,480	23,719	+3,238	+15.8%	22,500	105.4%
SG&A	11,678	12,484	+806	+6.9%	12,800	97.5%
R&D expenses	8,802	11,234	+2,431	+27.6%	9,700	115.8%
Operating profit	4,975	7,531	+2,556	+ 51.4%	10,500	71.7%
Ordinary profit	5,418	7,264	+1,846	+34.1%	10,000	72.6%
Profit attributable to owners of parent	3,772	5,507	+1,735	+46.0%	7,300	75.4%

Breakdown of Net Sales – Consolidated



	FY2022	F		FY2023		
			Year-o	Year-on-year		
	results	results	Difference	Ratio	forecast (Revised)	Progress rate
GROWJECT®	12,261	17,913	+5,652	+46.1%	19,500	91.9%
IZCARGO®*	4,414	5,171	+757	+17.2%	5,200	99.4%
TEMCELL®HS Inj.	3,404	3,236	(168)	(4.9)%	3,300	98.1%
Treatments for renal anemia	4,696	4,652	(44)	(0.9)%	5,000	93.0%
Epoetin Alfa BS Inj. [JCR]	2,710	1,994	(716)	(26.4)%	2,200	90.6%
Darbepoetin Alfa BS Inj. [JCR]	1,986	2,658	+672	+33.8%	2,800	94.9%
Agalsidase Beta BS I.V. Infusion [JCR]	964	1,661	+697	+72.2%	1,400	118.6%
Total Core products	25,741	32,636	+6,895	+26.8%	34,400	94.9%
Income from contractual payment	6,546	7,413	+867	+13.3%	8,100	91.5%
Other*	123	2,820	+2,697	+2192.7%	2,900	97.2%
AZD1222 stock solution	1,931	_	(1,931)	(100.0)%	_	_
Total Net sales	34,343	42,871	+8,528	+24.8%	45,400	94.4%

Consolidated Financial Results FY2024 (Forecast)



	FY2023	FY2024(forecast)			
Consolidated	roculto		Year-on-year		
	results	forecast	Difference	Ratio	
Net sales	42,871	41,300	(1,571)	(3.7)%	
Cost of sales	11,620	10,400	(1,220)	(10.5)%	
Gross profit	31,251	30,900	(351)	(1.1)%	
Selling, general and administrative expenses	23,719	25,500	+1,781	+7.5%	
SG&A	12,484	12,500	+16	+ 0.1%	
R&D expenses	11,234	13,000	+1,766	+ 15.7%	
Operating profit	7,531	5,400	(2,131)	(28.3)%	
Ordinary profit	7,264	4,600	(2,664)	(36.7)%	
Profit attributable to owners of parent	5,507	3,700	(1,807)	(32.8)%	

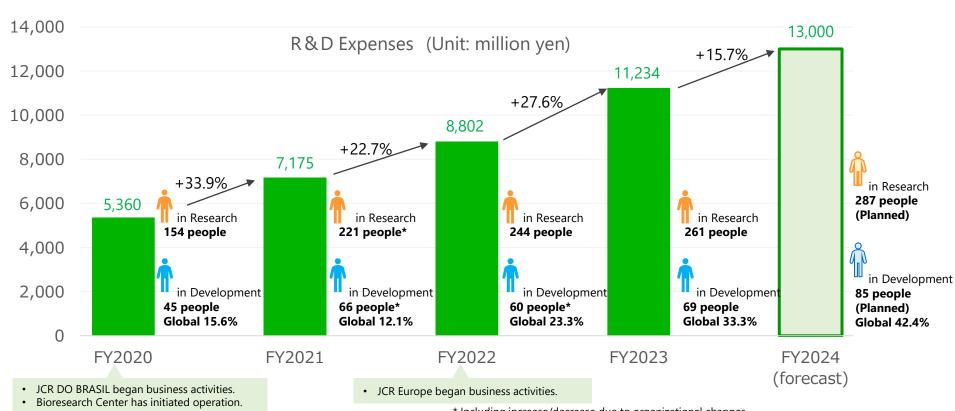


	FY2023	FY2024(forecast)			
	results	forecast	Year-on-year		
	resuits	Torccust	Difference	Ratio	
GROWJECT®	17,913	18,300	+387	+2.2%	
IZCARGO®*	5,171	5,700	+529	+10.2%	
TEMCELL®HS Inj.	3,236	2,800	(436)	(13.5)%	
Treatments for renal anemia	4,652	4,200	(452)	(9.7)%	
Epoetin Alfa BS Inj. [JCR]	1,994	2,200	+206	+10.3%	
Darbepoetin Alfa BS Inj. [JCR]	2,658	2,000	(658)	(24.8)%	
Agalsidase Beta BS I.V. Infusion [JCR]	1,661	1,100	(561)	(33.8)%	
Total Core products	32,636	32,100	(536)	(1.6)%	
Income from contractual payment	7,413	8,100	+687	+9.3%	
Other*	2,820	1,100	(1,720)	(61.0)%	
Total net sales	42,871	41,300	(1,571)	(3.7)%	

^{*} Sales of IZCARGO® related to NPS is included in Other



Investments in global clinical development remarkably increased



Copyright © 2024 JCR Pharmaceuticals Co., Ltd. All rights reserve

* Including increase/decrease due to organizational changes

FY2023 4Q 16

Reach Beyond, Together





Appendix

What is Named Patient Supply (NPS)?



Named Patient Supply (NPS)

A program whereby a manufacturer makes individual drugs available to physicians who wish to use the drug to patients in countries where it is not approved.

JCR IZCARGO® NPS

A program to make IZCARGO® (Japanese product) available to patients who meet our criteria at the request of a physician in countries where it is not approved, but NPS is allowed under the rules and regulations.

Abbreviations $(A \sim G)$

AAV	Adeno-Associated Virus	アデノ随伴ウイルス
BBB	Blood-Brain Barrier	血液脳関門
CNS	Central Nervous System	中枢神経系
CSF	Cerebrospinal fluid	脳脊髄液
EC	European Commission	欧州委員会
EMA	European Medicines Agency	欧州医薬品庁
ERT	Enzyme Replacement Therapy	酵素補充療法
EU	European Union	欧州連合
FDA	Food and Drug Administraion	米国食品医薬品局
GHD	Growth Hormone Deficiency	成長ホルモン分泌不全性低身長症

Abbreviations $(H\sim Z)$

HIE	Hypoxic ischemic encephalopathy in neonates	低酸素性虚血性脳症
HS	Heparan Sulfate	ヘパラン硫酸
i.v.	Intravenous Injection	静脈注射
JBC	J-Brain Cargo®	-
MPS	Mucopolysaccharidosis	ムコ多糖症
NPS	Named Patient Supply	特定の患者への医薬品提供プログラム
ODD	Orphan Drug Designation	希少疾病用医薬品指定
Ph I	Phase I	臨床第1相試験
Ph II	Phase II	臨床第2相試験
Ph III	Phase III	臨床第3相試験
PRIME	Priority Medicines	アンメットメディカルニーズを対象とした医薬品の開発支援を強化するためのスキーム
R&D	Research and Development	研究開発
TBD	To be determined	未定