Pharmaceuticals Sector

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VI

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VI-1 Business Environment

Environment

Opportunities

- Global healthcare and pharmaceutical markets continue to expand
- Emergence of new therapeutic approaches through technological innovation (preemptive, individualized and regenerative medicine)

Threats

□ Shortage of healthcare finances

- Competition with generic drugs after the loss of exclusivity (Risks: Latuda®, FDG-PET)
- Entry of new players across industries into healthcare business spaces
- Decline in industry-wide R&D productivity

Group Initiatives

- 1. Offering New Value in Medical Practice through New Technologies
- Regenerative medicine and cell therapy
- Theranostics (fusion of diagnostics and therapeutics)
- 2. Timely Launch of Next-generation Products
- Continuous expansion of promising pipeline through in-house drug discovery and in-licensing

Drastic reinforcement through strategic alliance with Roivant

- 3. Improving R&D Efficiency and Increasing the Probability of Success
- Strengthening in-house R&D capability through various approaches, such as digital technology and big data

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VI-1 Business Strategy: Pharmaceuticals Sector

FY2019-FY2021 Corporate Business Plan

Action plan & major issues

- Maintain profitability after Latuda's loss of exclusivity
- Enhance drug discovery capabilities and improve the success rate in R&D



- Strengthen innovation base with new approaches to drug discovery
- Launch new products in oncology
- Explore opportunities in frontier businesses (healthcare solutions)
- Develop theranostics business and strengthen the competitiveness of existing radiopharmaceutical business
- Expand group synergies in the pharmaceutical business



- Strategic Alliance with Roivant Sciences
- Acquired late-stage assets
 Post-merger integration is progressing, including
 development of strategic pipeline and establishment of
 sales structure utilizing existing North American
 business bases.
- Acquired data science technology platforms, such as "DrugOme," to accelerate digital innovation
- Launched sublingual film for the treatment of Parkinson's disease off episodes
- Continuing clinical trials of napabucasin for colorectal cancer
- Promoting R&D of new healthcare solutions using cognitive activation therapy and biological sensing technology
- R&D site for radiopharmaceuticals will be operational in 2020.
- Establishment of S-RACMO Co., Ltd., a new CDMO company for regenerative medicine and cell therapy, and development of novel drugs for infectious diseases.

Pipeline for Pharmaceutical Agents and In-vivo Diagnostic Agents

Product Launch Targets



IR Day: Pharmaceuticals

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Progress in Strategic Alliance with Roivant Sciences: Pipeline Development

Current development status of strategic pipeline

Product	Indication	Current development status	Expected schedule for NDA or approval
	Prostate cancer	NDA submitted (US)	PDUFA date Dec. 2020
Relugolix Myovant	Uterine fibroids	NDA submitted (US, EU)	PDUFA date June 2021
	Endometriosis	Phase 3	Plan to submit NDA in FY2020 4Q (at earliest)
Vibegron	Overactive bladder (OAB)	NDA submitted (US)	PDUFA date Dec. 2020
Urovant	OAB in men with benign prostatic hyperplasia	Phase 3	Plan to submit NDA in FY2021 4Q (at earliest)

Progress in Strategic Alliance with Roivant Sciences: Post-Merger Integration etc.



(Released on October 30, 2020)

Performance Trends

- Sales of pharmaceutical agents remain generally strong regardless of the influence of COVID-19
- On the other hand, the number of laboratory tests for in-vivo diagnostic agents is lower due to the avoidance of medical consultation and restriction of lab tests because of COVID-19
- Higher SG&A and R&D expenses due to the alliance with Roivant, with newly acquired drugs yet to be launched

Risks and Challenges

- Delay in sales expansion of newly-launched products and in recovery of the number of lab tests, caused by the recurrence or prolonged epidemic of COVID-19
- Delay in determining the results of the Phase 3 clinical trial for napabucasin because of the influence of COVID-19
- Increase in upfront investment in late-stage pipeline for smooth market entry

The impact of acquiring 100% ownership of Urovant announced in Nov. is being examined.

FY2020 Forecast (Billions of yen)

Sales revenue

535.0

Core operating income 51.0

Variable Factors of Core Operating Income

(FY2019 Results against FY2020 Forecast)



IR Day: Pharmaceuticals

Mid- to Long-Term Outlook for the Pharmaceuticals Sector

Investors' Meeting for the Current Priority Management Issues and Business Strategy on May 28, 2020



Expecting to overcome the LATUDA cliff and achieve long-term growth, after initial years of increased expenses and lower operating income, due to the investment in the alliance with Roivant

Major changes in the past 6 months

Initiatives in the Group



Upward revision of FY2020 results

Core operating income





Promotion of sharing Sunovion's capabilities

Use of Sunovion's distribution channels (Myovant, Urovant)

Expansion of access to general practitioners (Urovant)



Acquired 100% ownership of Urovant

Timely provision of operating & growth funds

Maximize group synergies



Business Environment and Progress of Action Plan 03

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Efforts to Prevent the Spread of Infectious Diseases

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Creating New Value through Group Synergies VI-2



1 Regenerative Medicine and Cell Therapy

Proposed indication, etc.	Partners	Region (planned)	Cell type	Status	
Pediatric congenital athymia (RVT-802)	-Duke University	Global	Cultured thymus tissue	Under preparation to resubmit BLA	
AMD (Age-related macular degeneration)	-Healios -RIKEN	Global	Allo iPS cell-derived retinal pigment epithelium	In progress: clinical research Preparing to start clinical study (Japan)	Planned schedule FY2020
Parkinson's disease (Designated as a "SAKIGAKE")	-Kyoto University -CiRA	Global	Allo iPS cell-derived dopamine neural progenitor	In progress: investigator-initiated clinical study (Phase 1/2 study) (Japan)	Launch schedule FY2022*
Retinitis pigmentosa	-RIKEN	Global	Allo iPS cell-derived photoreceptor (3D)	In progress: clinical research	
Spinal cord injury	-Keio University -Osaka National Hospital	Global	Allo iPS cell-derived neural progenitor	In progress: clinical research	
Kidney failure	-Jikei University -Bios -PorMedTec	Japan, North America	Auto/Allo iPS cell-based differentiation-induced nephron progenitor cells (organ)	In progress: pre-clinical research	

* Launch schedule is based on our targets, pending agreement with partners

2 Entry into CDMO Business for Regenerative Medicine and Cell Therapy

CDMO business for regenerative medicine and cell therapy (Contract Development and Manufacturing Organization)

- Demand for pharmaceutical contract development and manufacturing offers high growth potential.
- In the area of regenerative medicine and cell therapy, there are only a limited number of companies in Japan that have the advanced technologies required for CDMOs.
- Leverage the strengths of Sumitomo Chemical and Sumitomo Dainippon Pharma



- Fundamental technology related to ES/iPS cells
- Expertise on CMO business for API
- Analysis and Safety Assessment of the products





- Industry-leading-level expertise on regenerative medicine and cell therapy
- □ <u>iPS cell-derived cell therapies in</u> <u>development pipeline</u>

Contributing to Resolving Healthcare Issues by Leveraging Group Synergies in the Area of Regenerative Medicine and Cell Therapy

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3Theranostics

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Theranostics

Therapeutics



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Fusion of diagnostic and therapeutics

Basic concept of "Theranositcs" executed by Nihon Medi-Physics



Adopted by AMED^{*1} as CiCLE^{*2}

- *1 AMED: Japan Agency for Medical Research and Development
- * 2 CiCLE: Cyclic Innovation for Clinical Empowerment

Aims of Theranostics Project

Offering new value in medical practice through nuclear medicine

- Development of companion diagnostic and a-emitting therapeutic agents for cancer using radioisotopes (RI) originated in Japan
- Expecting approval and launch in the second half of the 2020s through open innovation within and outside the Group

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Building a new earnings base

- As the pillar for next-generation businesses following FDG-PET
- Expanding the ratio of new products to approximately 30% by 2030, along with new PET diagnostic agents under development





Global Infectious Disease Issues

Besides COVID-19, the following issues remain to be solved regarding infectious diseases.

* As for COVID-19, we participate in the US COVID-19 Research-Database, donate to the Kitasato Institute's Project for COVID-19 and provide medical protective equipment.

Global Health Issues

- Threats of periodic pandemics by new strains of influenza viruses.
- The target for developing new vaccines has shifted to diseases for which vaccines are more difficult to develop, such as mycobacterium tuberculosis, malaria and HIV, although the number of infected patients is large.

Spread of Antimicrobial- Resistant (AMR) Bacteria

- Since the 2010s, AMR bacteria have been recognized as a global issue.
- If no measures are taken, in 2050 an estimated 10 million people will die worldwide, and it is considered the next threat after COVID-19.

We aim to create (I) Novel Vaccines (Universal Influenza and Malaria) and (II) Therapeutic agents for AMR bacteria, by utilizing our accumulated knowledge in R&D in the area of infectious diseases.

Development of Novel Vaccines and Therapeutic Agents against AMR Bacteria



Cautionary Statement

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