Mitsubishi Tanabe Pharma Corporation Business Briefing



Open Up the **Future**

December 5, 2017

Masayuki Mitsuka President and Representative Director

Agenda





- Medium-Term Management Plan 16-20 Fiscal 2017 Results and Progress
- Strategic Priority 3: Accelerating U.S. Business Development
 - First Step in U.S. Business
 Radicava: Current Status and Future Initiatives
 - Expanding U.S. Business NeuroDerm's Pipeline
 - Sustained Expansion in U.S. Business Enhancing U.S. Pipeline
- Strategy Priority 2: Strengthening IKUYAKU and Marketing
 - Autoimmune diseases field
 - Diabetes / kidney diseases field
 - Fisical 2017 Topics Canalia

- Strategic Priority 1: Maximizing Pipeline Value
 - Status of pipeline Fiscal 2017 Topics
 - Principal pipeline items and approval targets
- Strategic Priority 4: Reforming Operational Productivity
- Targeting the Objectives of the Medium-Term Management Plan16-20
- Initiatives to Increase Corporate Value
 - The Social Value that We Are Aiming to Create

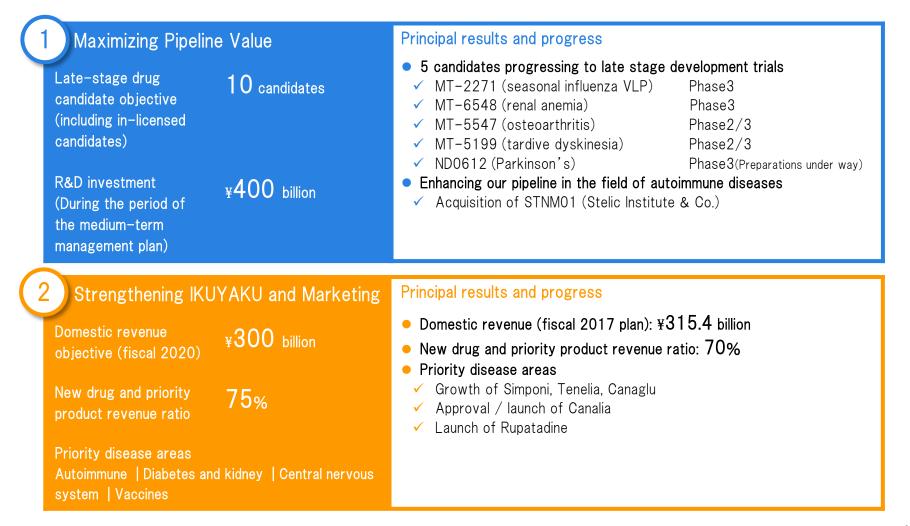
Medium-Term Management Plan 16-20 Fiscal 2017 Results and Progress

Principal Results and Progress with Four Strategic Priorities



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Fiscal 2020 Objectives Revenue ¥500 million Core operating profit ¥100 billion



Principal Results and Progress with Four Strategic Priorities



Number of employees (Fiscal Year 2020)

2020)

workforce

Consolidated domestic

5,000 employees

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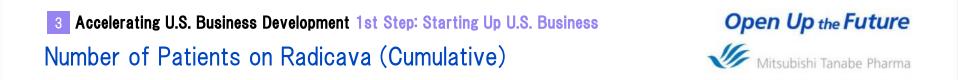
Strategic Priority 3 Accelerating U.S. Business Development

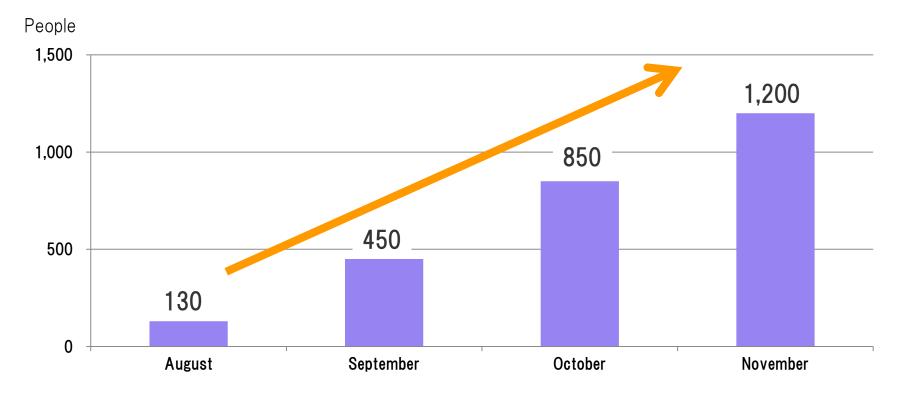


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Make U.S. Business MTPC's second business pillar (following domestic market) by achieving revenue of ¥80 billion in Fiscal Year 2020 with sustained growth





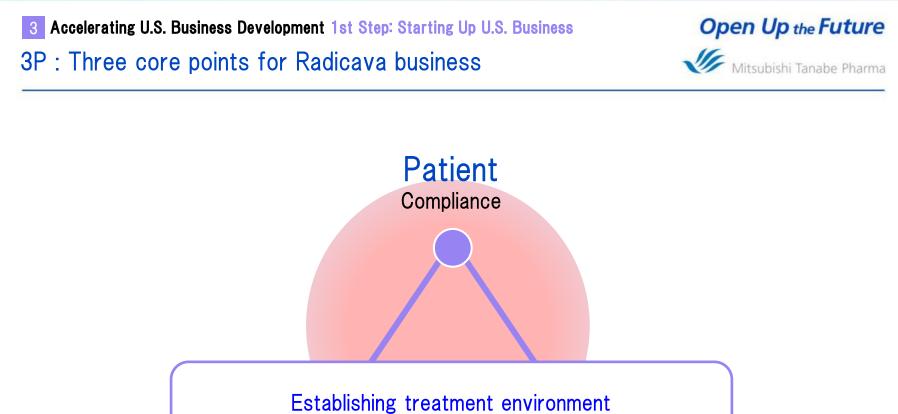


Amyotrophic lateral sclerosis (ALS)

Approximately 20,000 patients in the U.S.; about 5,000 to 6,000 patients diagnosed with ALS each year

Approximately 10,000 patients in Japan. As of the end of November 2017, Radicut (approved in June 2015) had been prescribed to 2,750 patients.

Sources: Websites of the ALS Association and the Japan Intractable Diseases Information Center



Advancing patient support, MR activities, etc.

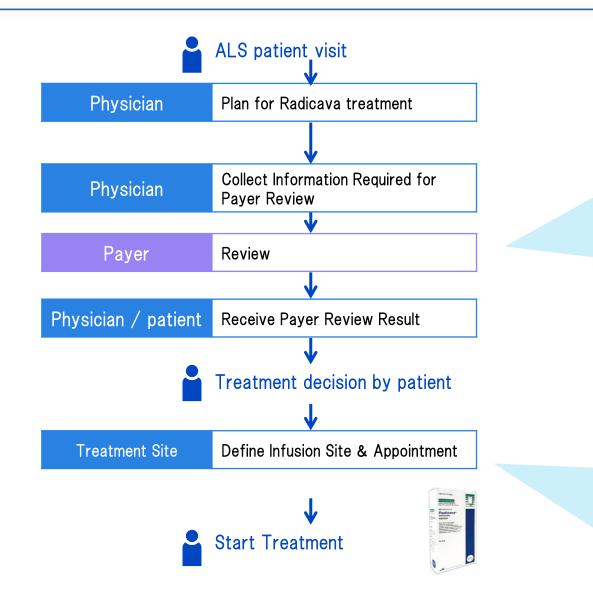
Physician No. of prescriptions Payer Reimbursement

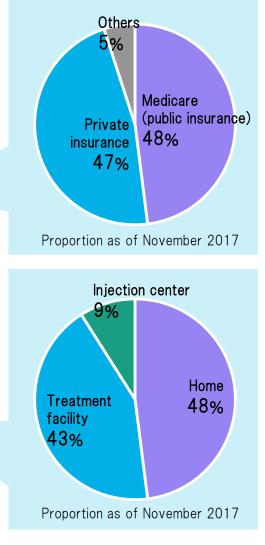
Major steps to Radicava Infusion





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Information support: SearchLight Support

- Addressing questions from patients regarding insurance. We have smoothened the reimbursement process with the deployment of insurance reimbursement specialists.
- Providing information regarding treatment. We have established a hotline which provides information such as facilities that can infuse Radicava, to satisfy individual patient needs with detailed response and follow-up.

Cost support: Bridge Program, Co-Pay Support Program

Bridge Program

In case the payer review process will require some time, this program provides support to patients who want to use Radicava quickly. (Radicava would be provided free of charge for two months)

Co-Pay Support Program

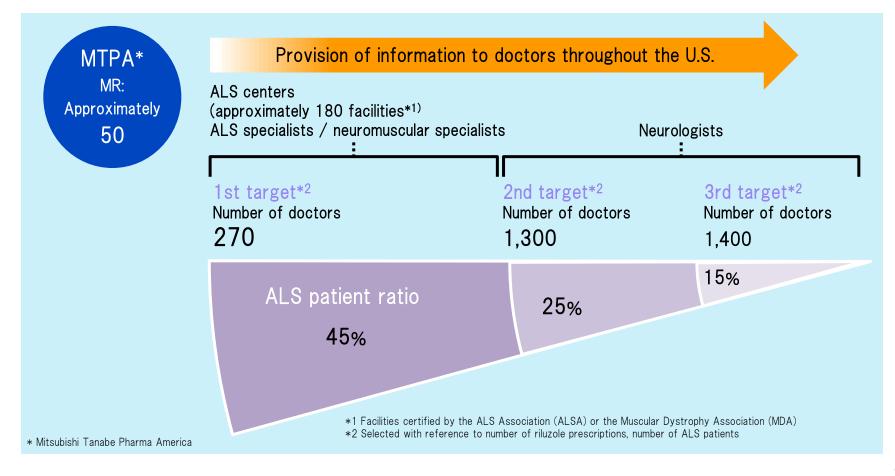
Support out of pocket fee for patients enrolled in private insurance (upper limit of \$20,000 per year).

3 Accelerating U.S. Business Development 1st Step: Starting Up U.S. Business

MR Activities



Initiated activities such as providing information focusing on ALS Centers (ALS specialists, neuromuscular specialists) for the 3 months post approval. Currently starting to reach out to neurologists as well.







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Business regions (indication: ALS)

- Japan, South Korea, U.S.: Launched
- Canada / Switzerland:

• Europe:

- Plan to file application in Q4 fiscal 2017
- Consulting with regulatory authorities
- ASEAN, others: Under consideration

LCM (Life Cycle Management)

- Application for 60 mg intravenous infusion bag formulation (plan to launch in fiscal 2019)
 - \rightarrow Increasing convenience with change from 2 bags per administration to 1 bag per administration
- Developing non-injection formulation
 - \rightarrow Reducing burden on ALS patients and caregivers, increasing convenience

Introduction to NeuroDerm's Pipeline

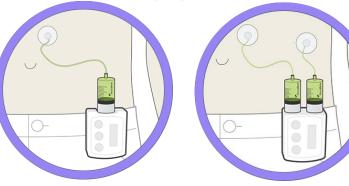




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Product name	Generic name	Expected indications	Stage	Approval timing
ND0612	Levodopa (LD) / carbidopa (CD) Long-acting subcutaneous injection administration pump / patch formulation	Parkinson's (moderate / severe)	Phase 3 Preparations under way	Fiscal 2019
ND0701	Apomorphine Continuous, subcutaneously delivered formulation administered via a pump	Parkinson's (severe)	Phase 1	_
ND0901	Levodopa prodrug / carbidopa New device for long-acting subcutaneous injection administration	Parkinson's (moderate / severe)	Phase 1 Preparations under way	_
ND0801	Nicotine / opipramol Transdermal	Cognitive disorders associated with central nervous system diseases	Phase 2	_

ND0612 pump formulation



ND0612 patch formulation (device under development)



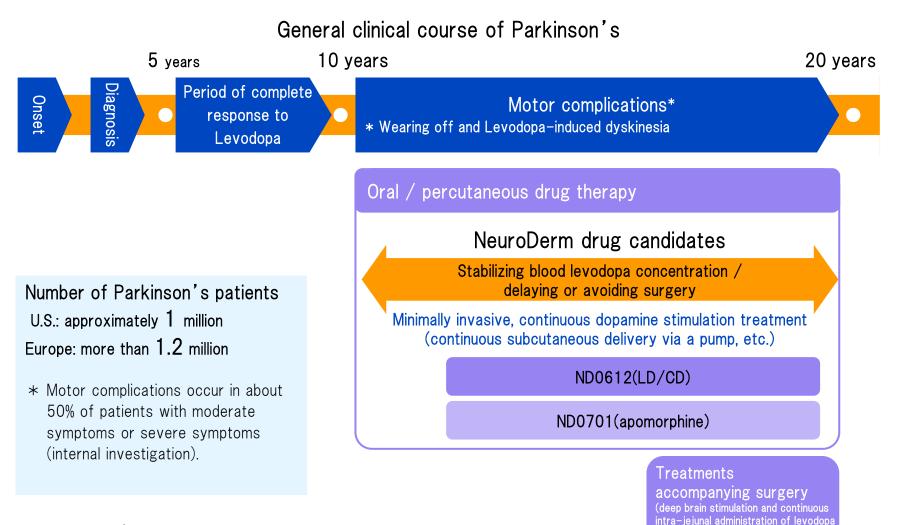
Positioning of NeuroDerm Drug Candidates

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through percutaneous endoscopic

gastrostomy)



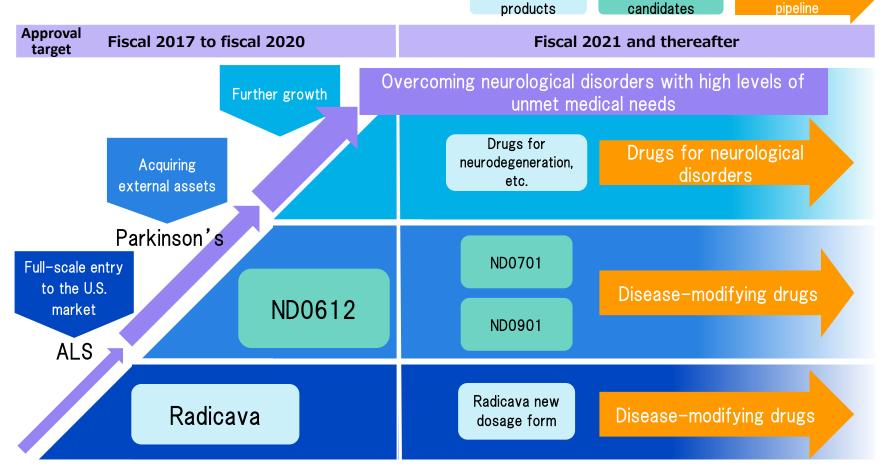
Source: Parkinson's Disease Foundation web site European Parkinson's Disease Association web site **3** Accelerating U.S. Business Development 3rd Step: Sustained Expansion in U.S. Business

Enhancing U.S. Pipeline



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Targeting further growth centered on two diseases—ALS and Parkinson's —we will strengthen our initiatives in the field of neurological disorders and enhance our presence in the U.S. <u>In-house</u> <u>NeuroDerm</u> <u>Strengthening</u>



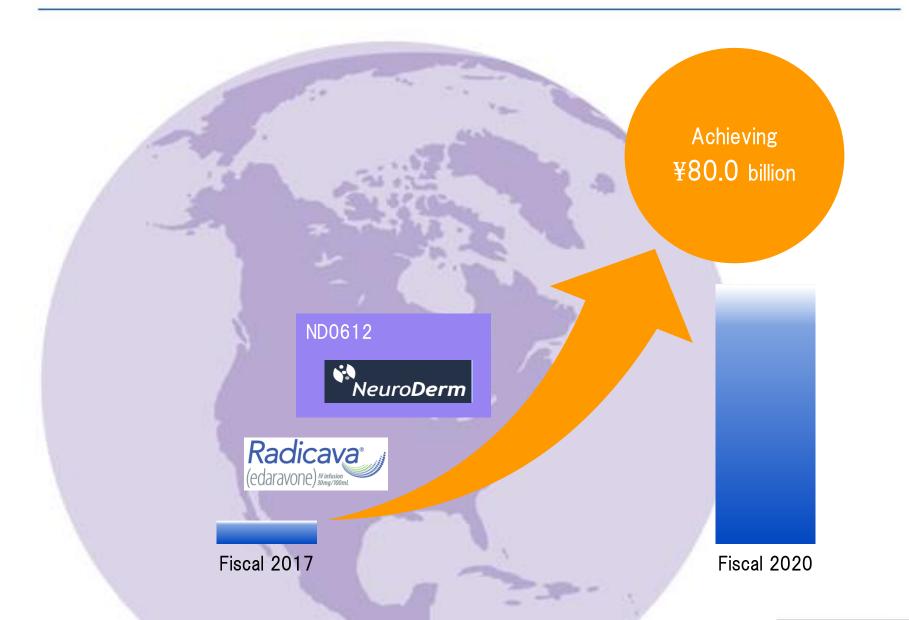


Outlook for Growth in Revenue in U.S. Business

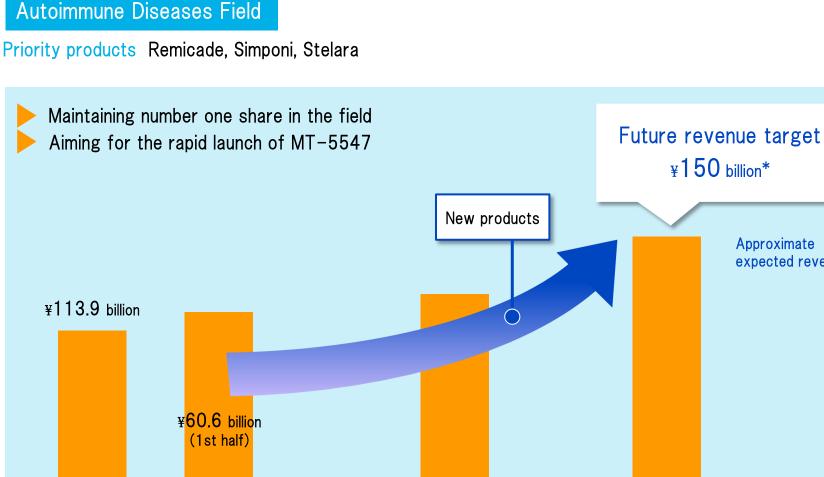
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Strategic Priority 2 Strengthening IKUYAKU and Marketing



Fiscal 2020

2 Strengthening IKUYAKU and Marketing

Fiscal 2016

Fiscal 2017

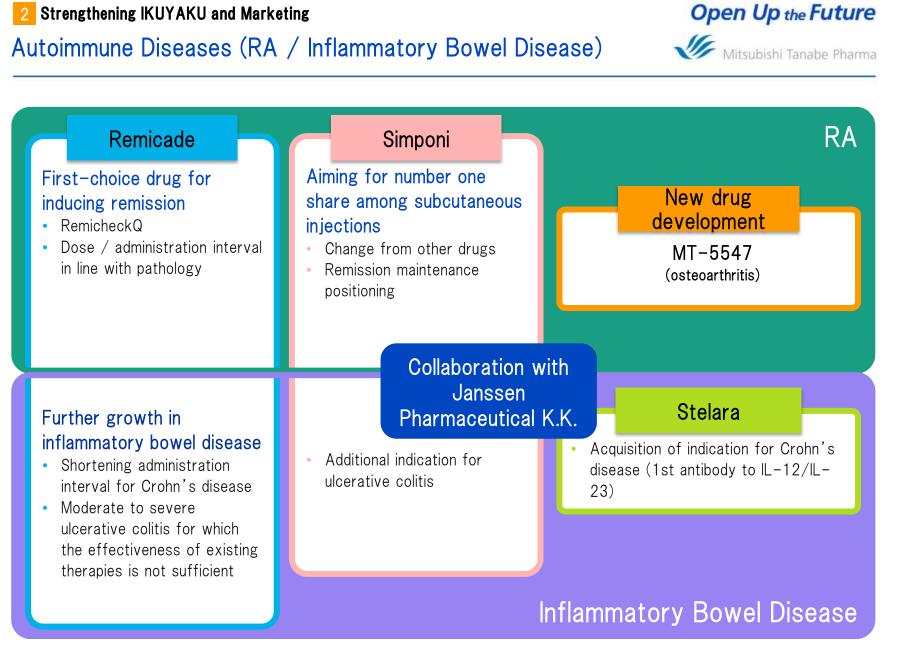
Future Targets in Priority Disease Areas (Autoimmune Diseases)

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expected revenue

*Revenue is on an NHI drug price basis

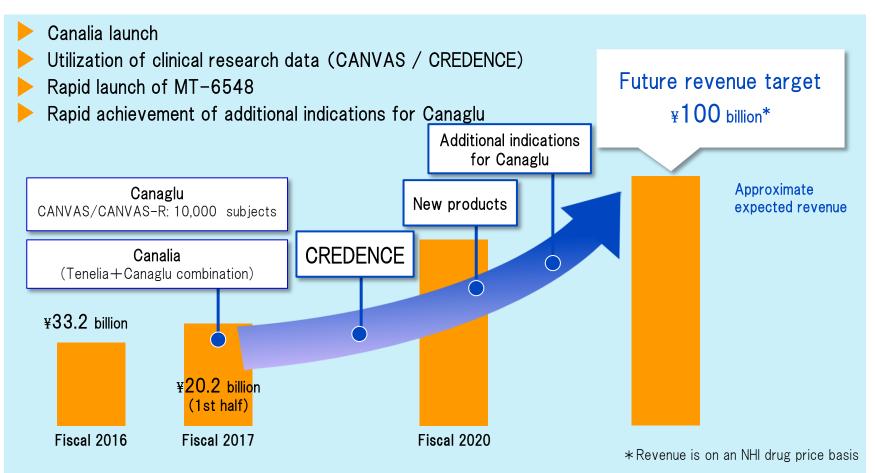




Future Targets in Priority Disease Areas (Diabetes and Kidney Diseases) Mitsubishi Tanabe Pharma

Diabetes and Kidney Diseases Field

Priority products Tenelia, Canaglu, Canalia

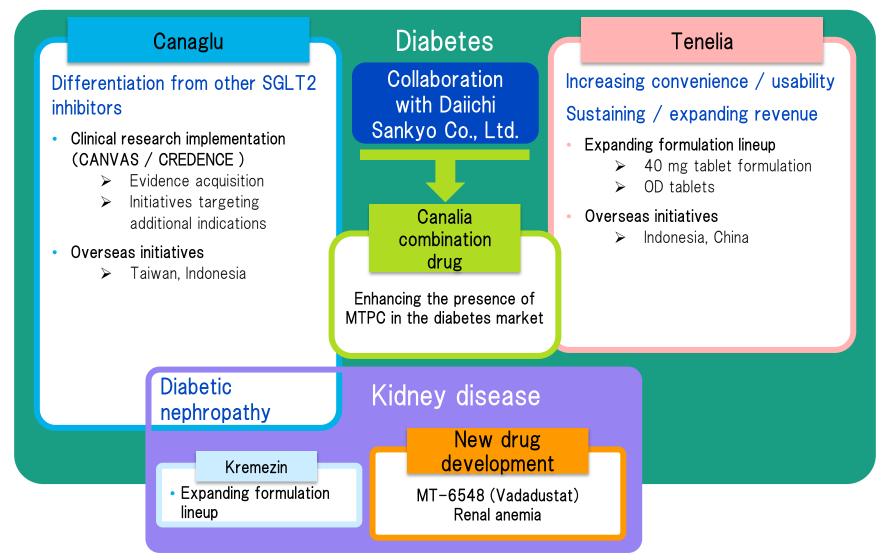


Diabetes and Kidney Diseases





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<u>Japan's 1st</u> combination drug including both DPP-4 inhibitor and SGLT2 inhibitor

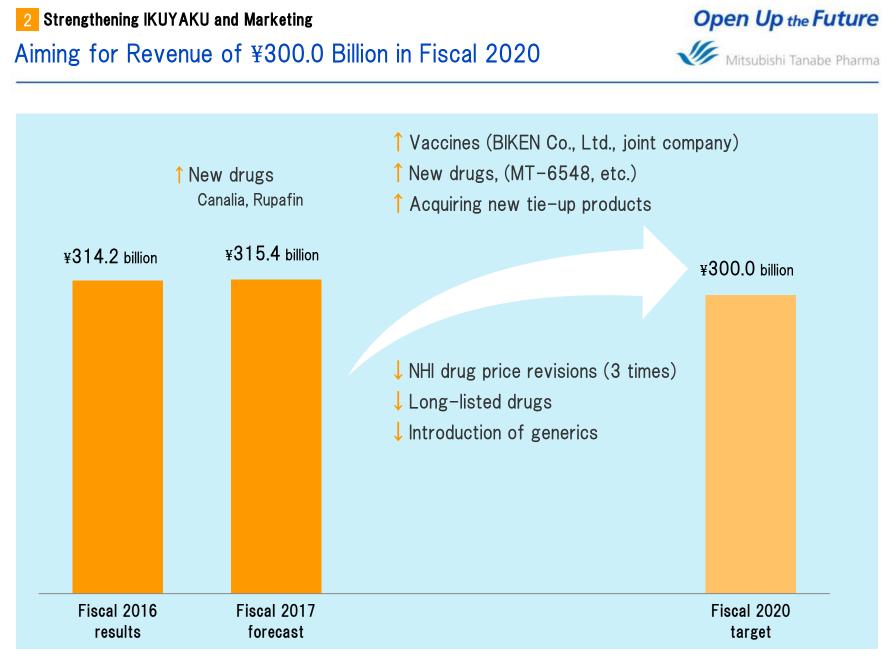
• Launched September 2017



 Compared with combination therapy using each individual drug, the combination tablets will <u>reduce the number of pills taken and the cost</u>, and are expected to <u>improve medication adherence</u> and <u>offer good blood glucose control</u>.

Feedback from Key Opinion Leaders on the Medical Front Lines

- <u>There is an issue with DPP-4 inhibitors of increased body weight leading to weakened effectiveness.</u> Combination therapy with an SGLT2 inhibitor has a strong merit of a long-acting blood-glucose lowering effect.
- With the product name Canalia, the patients immediately understand what the combination tablets are, making it easy to provide patient compliance instruction.
- The Launch of Canalia will lead to prescriptions of Tenelia and Canaglu.



Strategic Priority 1 Maximizing Pipeline Value

1 Maximizing Pipeline Value

10 Late-Stage Drug Candidates





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Fiscal 2016 r	esults Fiscal	2017 plan Fisc	al 2017 results (end November	
10 late-st	age drug candidates	Phase1	Phase 2 / POC trials	Late-stage development trials
Fiscal 2017: Initial plans		1 candidate	2 candidate	5 candidate
	MT-1303	Japan: inflammation / autoimmunity	Europe: MS, PS, CD Japan: CD	>
Autoimmune	MT-5547			Japan: osteoarthritis
diseases	MT-7117	Europe: dermatology, etc.		
	MT-2990	Europe: inflammation / autoimmune diseases, etc.		
Diabetes and	MT-6548		Japan: renal anemia	Japan: renal anemia
kidney diseases			Japan: NASH	
	MT-3995		Japan, Europe: diabetic nephropathy	
	MT-5199	Japan: tardive dyskinesia		Japan: tardive dyskinesia
Central nervous system diseases	ND0612			U.S., Europe: Parkinson's (Preparations under way)
	MT-8554		U.S., Europe: Nervous system, etc.	
	MT-2355			Japan: Combined 4 diseases + Hib
Vaccines Others	MT-2271 Plant-based VLP vaccines			U.S., Europe, Canada, others: Seasonal influenza
	MT-4129	Europe: cardiovascular system, etc.		





In four fields, late-stage development trials are making favorable progress

Autoimmune diseases	MT-5547: fully human anti-NGF monoclonal antibody Generic name: fasinumab Start of phase 2/3 clinical trials in Japan for osteoarthritis		
Diabetes and kidney diseases	MT-6548: hypoxia inducible factor prolyl hydroxylase (HIF-PH) inhibitor Generic name: vadadustat Start of phase 3 clinical study in patients with anemia secondary to chronic kidney disease (renal anemia).		
Central nervous	MT-5199: vesicular monoamine transporter type 2 (VMAT2) inhibitor Generic name: valbenazine Start of phase 2/3 clinical study in Japan for tardive dyskinesia.		
system diseases	ND0612: Long-acting subcutaneous injection administration pump / patch formulation (levodopa / carbidopa) Clinical trials under way in Europe and the U.S. for Parkinson's		
Vaccines	cines MT-2271: Plant-based VLP (virus-like particle) vaccines Start of phase 3 clinical study in 7 countries, including the U.S., Europe, and Canada, for prophylaxis of seasonal influenza.		





Vaccine MT-2271: Plant-based Seasonal Influenza VLP Vaccine

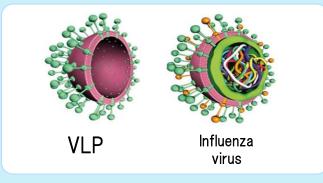
In August 2017, Medicago has initiated the Phase 3 clinical study in US, Europe, Canada and other countries

Study design of the Phase 3 clinical study

 \rightarrow To evaluate the efficacy of VLP vaccine in 10,000 healthy adults

Phase 2 clinical study results

- Efficacy
 - > The antibody response compares to that of licensed vaccines
 - > Cell-mediated responses are higher than a standard dose of licensed vaccine
 - \succ 30 µg per strain is the optimal dose
- Safety
 - > Similar safety profile as licensed vaccines
 - As a result of consultation with FDA about Phase 2 study results,
 - Medicago has initiated the Phase 3 clinical study.





Drug candidates for which the strategy will change

Autoimmune diseases MT-1303 (Sphingosine-1-phosphate receptor functional antagonist) Generic name: amiserimod Expected indications: ulcerative colitis, Crohn's disease, others

→ In consideration of the business strategy and the market environment, including the competitive situation in the U.S., we will reevaluate the development plan for in-house development on our own for ulcerative colitis.

Diabetes and kidney diseases

MT-3995 (mineralocorticoid receptor antagonist) Expected indications: diabetic nephropathy, NASH (non-alcoholic steatohepatitis)

→ Focusing on NASH, POC study currently under way. Expect to acquire top-line data in 1st half of fiscal 2019.

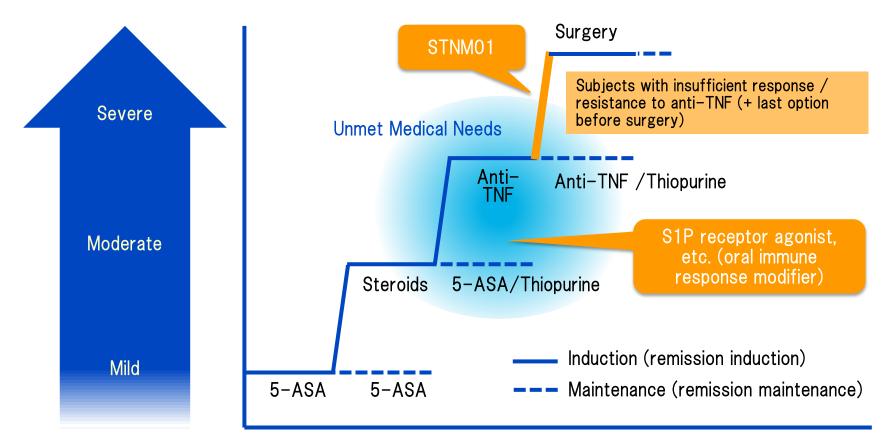
Maximizing Pipeline Value Status of Pipeline Fiscal 2017 Topic



Enhancing pipeline in priority areas

Autoimmune diseases

Acquisition of nucleic acid pharmaceuticals "STNM01" (endoscopic injection) from Stelic Institute & Co., Inc. for ulcerative colitis and other diseases, will contribute to future initiatives in accelerating U.S. Business Development.



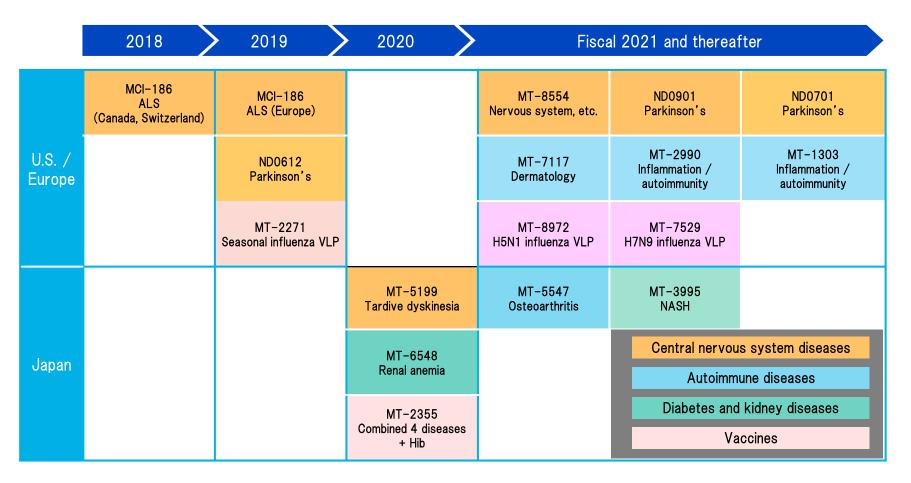
Maximizing Pipeline Value

Principal pipeline items and approval targets





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In Asia initiatives, we will aim for rapid approval with consideration for the use of overseas data.

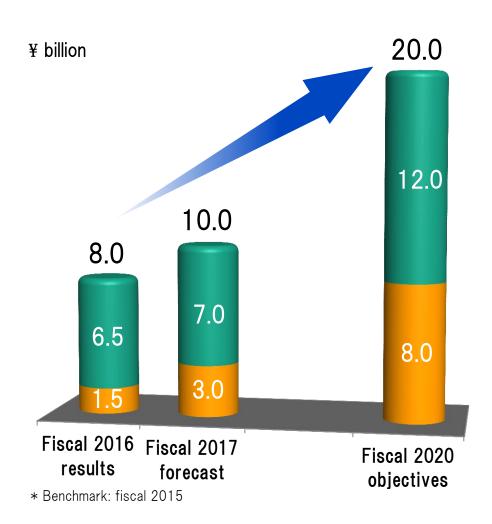
Strategic Priority 4 Reforming Operational Productivity

4 Reforming Operational Productivity

Reinvesting Cost Reductions into Growth Strategies

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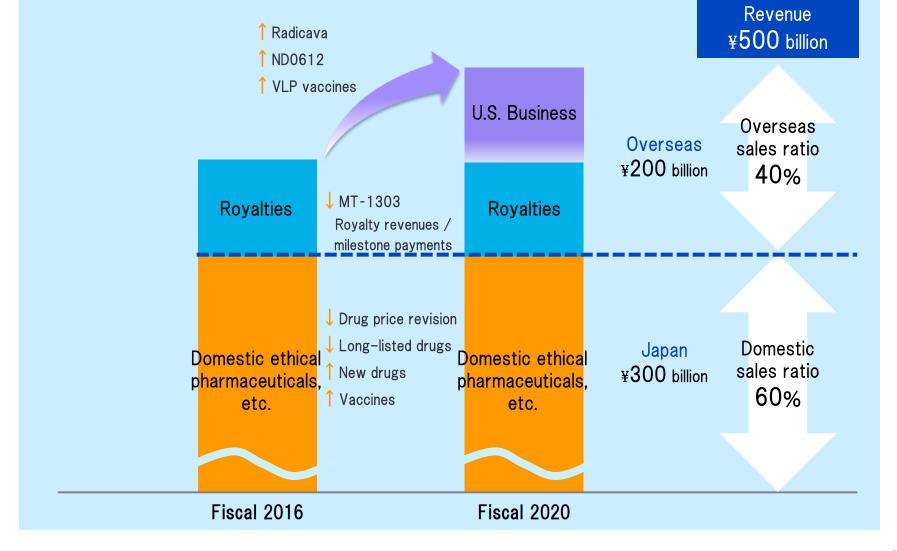
Making progress according to plan, targeting reductions of ¥10 billion in fiscal 2017



0	G&A expenses
•	Optimizing workforce through early retirement
•	Reducing companywide fixed expenses
•	Focusing management resources
	 Transfer of generics business End of Bipha's business
•	Targeting a 5,000-person domestic workforce,
	moving ahead with reduction of work and
	reevaluation of duplicated functions
С	ost of sales
C	ost of sales Reevaluating procurement methods for
C	
C •	Reevaluating procurement methods for
C •	Reevaluating procurement methods for pharmaceutical ingredients
C •	Reevaluating procurement methods for pharmaceutical ingredients Increasing productivity by improving production
C • •	Reevaluating procurement methods for pharmaceutical ingredients Increasing productivity by improving production technologies

Reinvestment in growth strategies

Targeting the Objectives of the Medium-Term Management Plan16-20



Targeting the Objectives of the Medium-Term Management Plan16-20

Revenue



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Targeting the Objectives of the Medium-Term Management Plan16-20





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Gilenya (Novartis)

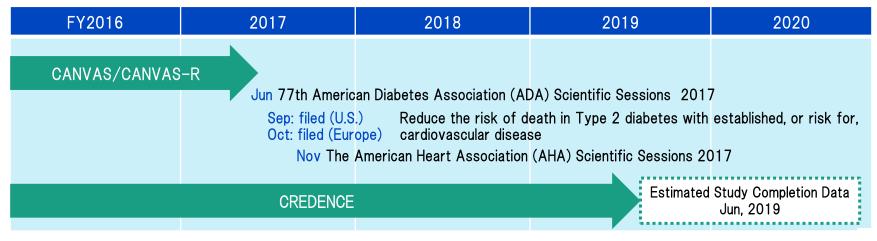
FY2016	2017	2018	2019	2020	2021
PARADIGMS	Oct 20 data pr	17 esented at ECTRIN	Extensio		Extension
	Patent(US)		by 6 mc	onths *2	by 1 year* ³
8 Year Da	ata exclusivity to :	2019 + Market pr	otection to March	2021(EU)	

*1) 82% lower relapse rate compared with interferon β -1a in pediatric patients with MS

*2) 6 months US pediatric exclusivity granted, if requirements of the Written Request are met

*3) If the pediatric indication is approved, possible extension of market protection by 1 year in EU to March 2022

INVOKANA(Janssen)

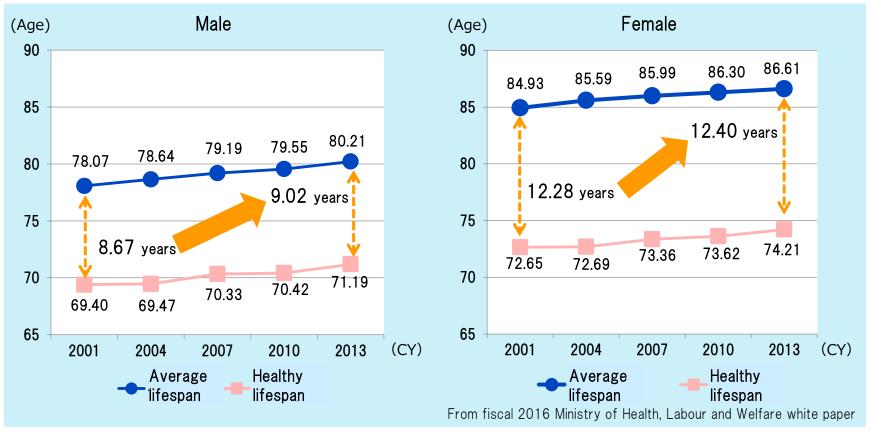


Initiatives to Increase Corporate Value The Social Value that We Are Aiming to Create

The Mission of Pharmaceuticals: Difference Between Average Lifespan and Healthy Lifespan

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The difference between the average lifespan and health lifespan is one factor in the increases in health care expenditures and other social expenditures.

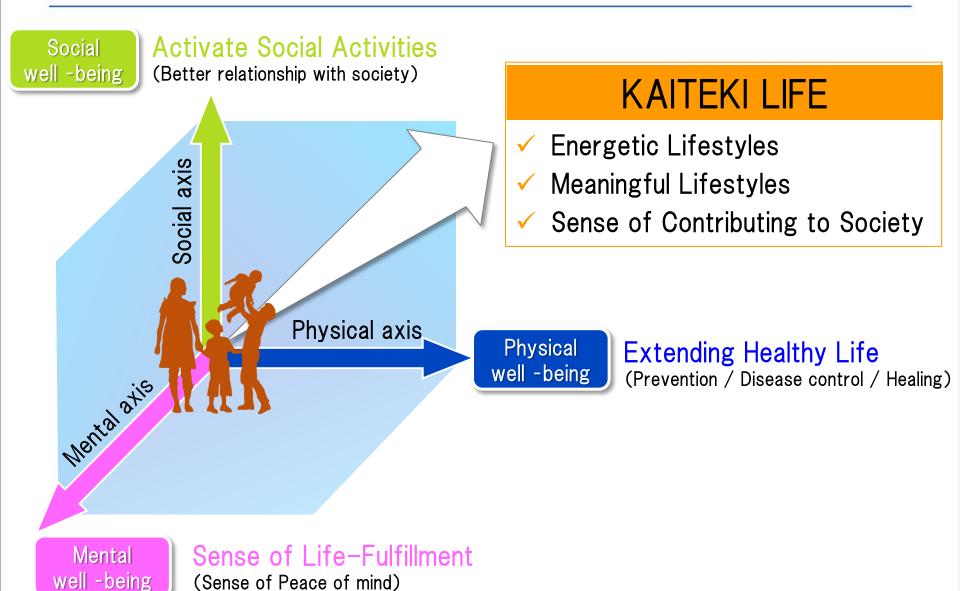
Moving forward, extending the healthy lifespan and reducing this difference by as much as possible will be part of the mission of pharmaceuticals and of society as a whole.

KAITEKI LIFE





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Physical Contributing to healthy lifespan extension

Vision for the future

No restrictions in daily life due to health problems and able to live energetic lifestyles.

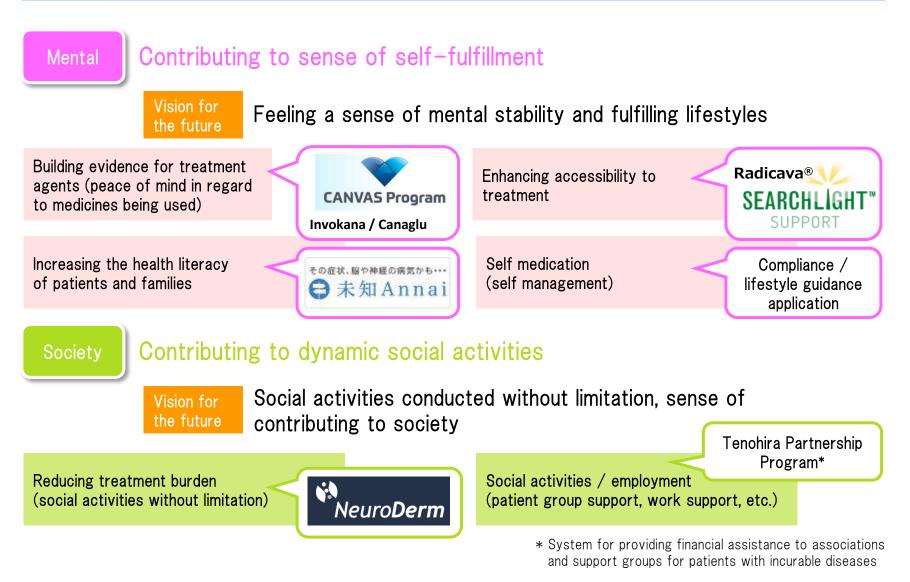
Developing treatment agents







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Open Up the Future with Our Hands



Cautionary Statement

The statements contained in this presentation is based on a number of assumptions and belief in light of the information currently available to management of the company and is subject to significant risks and uncertainties.