Mitsubishi Tanabe Pharma Corporation Business Briefing



Open Up the **Future**

December 7, 2016

Masayuki Mitsuka President and Representative Director

Agenda





Mitsubishi Tanabe Pharma

- Overview of Medium-Term Management Plan 16–20
- Medium-Term Management Plan 16–20 Achievements and Progress in FY2016
- **1. Maximizing Pipeline Value**
 - Main pipelines with approval targets
 - Status of key pipelines
 - Efforts toward generating 10 late-stage development compounds
- 2. Strengthening IKUYAKU and Marketing
 - Toward ¥300.0 bilion domestic sales with new drugs and priority products sales ratio of 75%
 - Efforts toward strengthening sales functions to achieve ¥300.0 billion domestic sales
 - **Radicut ALS**
- 3. Accelerating U.S. Business Development
 - Toward achieving the goal for US business (Steps 1, 2, 3) ٠
- 4. Reforming Operational Productivity
- Toward achieving objectives of Medium-Term Management Plan 16–20

Open Up the **Future**

Overview of Medium-Term Management Plan 16–20

Overview of Medium-Term Management Plan 16–20 Challenges That Will Be Faced During the Medium-Term Management Plan 16–20







With the domestic business environment becoming increasingly severe and competition to acquire new drug candidates intensifying around the world, we must overcome the Gilenya cliff and record growth centered on the U.S.



Financial Guidance

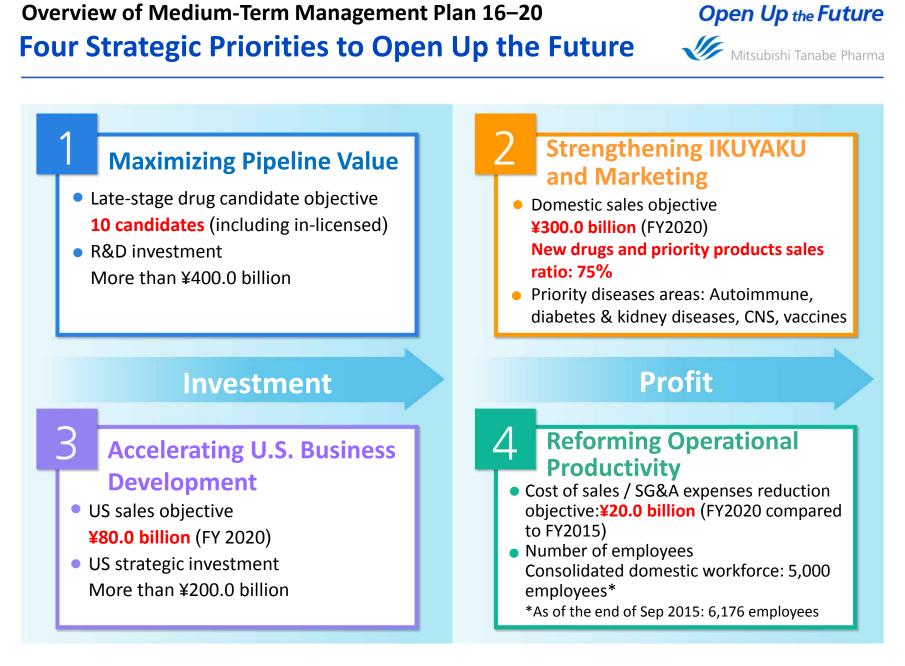


(IFRS)

			X 7
	FY2015 actual	FY2016 forecast* ²	FY2020 objective
Revenues	¥425.7 b	¥414.0 b	¥500.0 b
Core operating profit ^{*1}	¥106.9 b	¥85.0 b	¥100.0 b
Net profit attributable to owners of the Company	¥59.3 b	¥64.0 b	¥70.0 b
R&D expenses	¥64.6 b	¥66.0 b	¥80.0 b
Overseas sales ratio	26%	23%	40%

The Company has voluntarily applied IFRS from FY 2016.

- *1. Profit in which non-recurring items (including structural reform expenses) were deducted from operating profit in IFRS
- *2. Revised forecast announced on October 25, 2016.



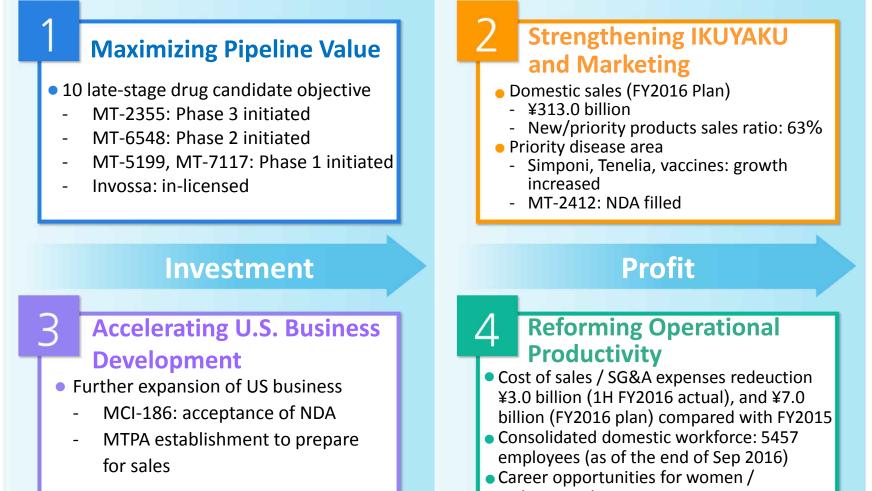
Open Up the **Future**

Medium-Term Management Plan 16–20 Achievements and Progress in FY 2016

Achievements and Progress in FY2016 Achievements and Progress in 4 Strategic Priorities (as of Dec 2016)

Open Up the Future





Enhancing diversity

Open Up the **Future**

1. Maximizing Pipeline Value



Major Pipeline





Mitsubishi Tanabe Pharma

9

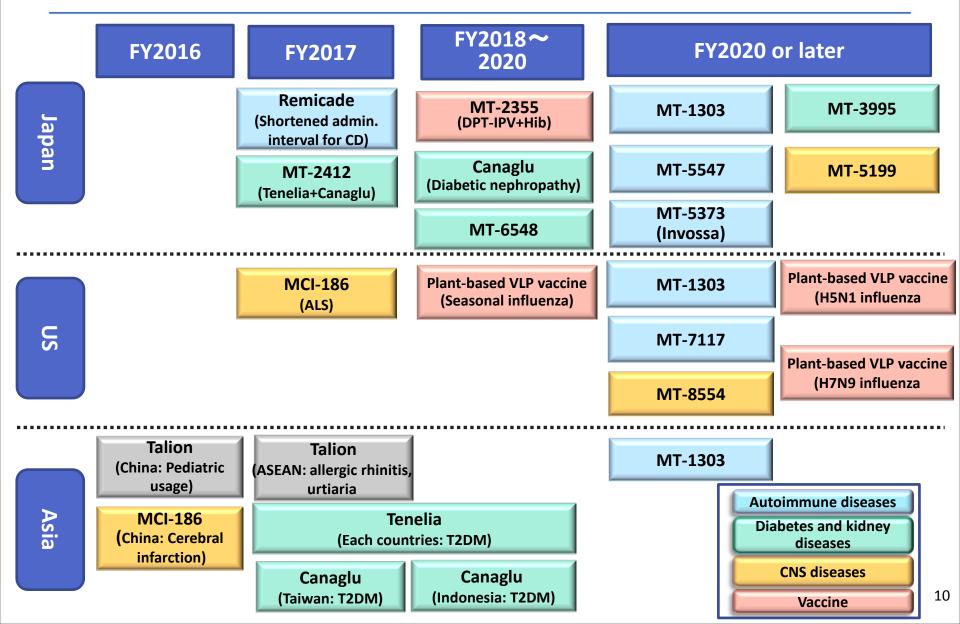
Area	P1	P2	P3	Filed
Auto immune diseases	MT-1303 (Japan: SLE) MT-7117 (Europe) MT-5547*	MT-1303 (Europe: MS, PS, CD Japan:CD)	Imusera (Japan: CIDP)	Remicade (Japan: Shortened admin. interval for CD)
Diabetes and kidney diseases		MT-3995 (Japan, Europe: Diabetic nephropathy) MT-6548 (Japan: Renal anemia)	Canaglu (Japan: Diabetic nephropathy) Tenelia (China:T2DM)	MT-2412 (Japan: Tenelia+Canaglu)
CNS diseases	MT-8554 (Europe) MT-5199 (Japan)		MP-214 (Japan, Korea, Taiwan: Schizophrenia)	MCI-186 (US: ALS)
Vaccine	Plant-based VLP vaccine (Canada: H7N9 influenza)	Plant-based VLP vaccine (Canada, US: Seasonal influenza) Plant-based VLP vaccine (Canada: H5N1 influenza	MT-2355 (Japan: DPT-IPV+Hib) Red box: Late-s	*: Regeneron conducts the trial including Japanese. tage drug candidates

Approval Targets





Mitsubishi Tanabe Pharma



Status of Key Pipeline(1) Autoimmune Disease Area



Mitsubishi Tanabe Pharma

MT-1303 (Amiselimod/S1P re	ntagonist)			
Indication	Area	Phase 1	Phase 2	Phase 3
Multiple sclerosis	Europe	P2b co	mpleted	
Psoriasis	Europe	POC study	completed	
Crohn's disease	Japan / Europe	Topline data to in 4Q FY2016	o be obtained	
Systemic erythematosus	Japan			

• In Oct 2016, Biogen, a licensee, announced discontinuation of MT-1303 due to its strategic reason.

MTPC continues the development on its own or a partner. Launch in the US after FY2020 is planned.
→ Contribution to the expansion of US business development

MT-5547(Fasinumab/anti-NGF antibody)

- In-licensed from Regeneron Pharmaceuticals, Inc. in Sep 2015.
- P1 in Japanese subjects completed.
 - Osteoarthritis: Scheduled to start domestic P2/3 in 1Q FY2017
 - Chronic back pain: Next steps and schedule are under consideration responding to the situation of US development.

Status of Key Pipeline(2) Diabetes and Kidney Disease

Open Up the **Future**



MT-3995 (Selective mineralocorticoid receptor antagonist)

Indication	Area	Phase 1	Phase 2	Phase 3
Diabetic nephropathy	Japan / Europe			
Non-alcoholic steatohepatitis (NASH)	Japan	POC study sch	eduled to start	

- One of in-house developed candidates with high expectation
- POC achieved in diabetic nephropathy. Out-licensing sought. To obtain added value, POC study in NASH is planned to be initiated.
- Target launch in FY2020 or later.

MT-6548 (Vadadustat/HIF-PH inhibitor) Indication Phase 1 Phase 2 Phase 3 Area **Renal anemia** Japan

- In-licensed from Akebia Therapeutics, Inc. in Dec 2015.
- Domestic P2 study in renal anemia initiated in FY2016.
- Target launch by FY2020.

Status of Key Pipeline(3) CNS Disease Area, Vaccines

Open Up the Future



MP-214 (Cariprazine/dopamine D3/D2 receptor partial agonist)

Indication	Area	Phase 1	Phase 2	Phase 3
Schizophrenia	Japan/Korea/ Taiwan	Primary endp	ooint not achieve	d

• Further development strategy to be decided in Q4 FY2016

MT-5199 (Valbenazine/VMAT2 inhibitor)

Indication	Area	Phase 1	Phase 2	Phase 3
Tardive dyskinesia / Huntington's disease	Japan	P1 completed		

- Neurocrine Biosciences Inc., an originator, submitted NDA for tardive dyskinesia in the US in Aug 2016. PDUFA date is April 2017. (Priority review)
- Domestic P2 study in tardive dyskinesia scheduled to start in 2017.

Plant-based VLP vaccine (for seasonal influenza)

Indication	Area	Phase 1	Phase 2	Phase 3
Seasonal influenza	US, Canada	Data to be obtai in 4Q FY 2016	ined	

• Launch planned in the US in FY2020.

Efforts toward Generating 10 Late-stage Candidates

Discovery target /Seeds

Access to clinical and clinical samples

- •Analysis of symptoms and diseases
- Application of biomarkers Acquisition of discovery targets and seeds

Discovery approach

 Small molecule / antibody discovery

- Vaccine discovery
- •Gas discovery, devicedrug
- ADC* discovery
- Nucleic acid /
- Medium size molecule

Tripartite

•Unit system: Quick decision making •Translational research: Improved exploitation • Drug repositioning: Intensified search capability

Discovery process

Utilization of open shared business

Academia collaboration Industry-industry collaboration

Strengthening pipeline

(planned in FY2016) Phase 1 initiated : 2 candidates (MT-4129, and other) Late stage research: 5 projects Total project number: up by 20%

*: Antibody-Drug Conjugate

Open Up the **Future**



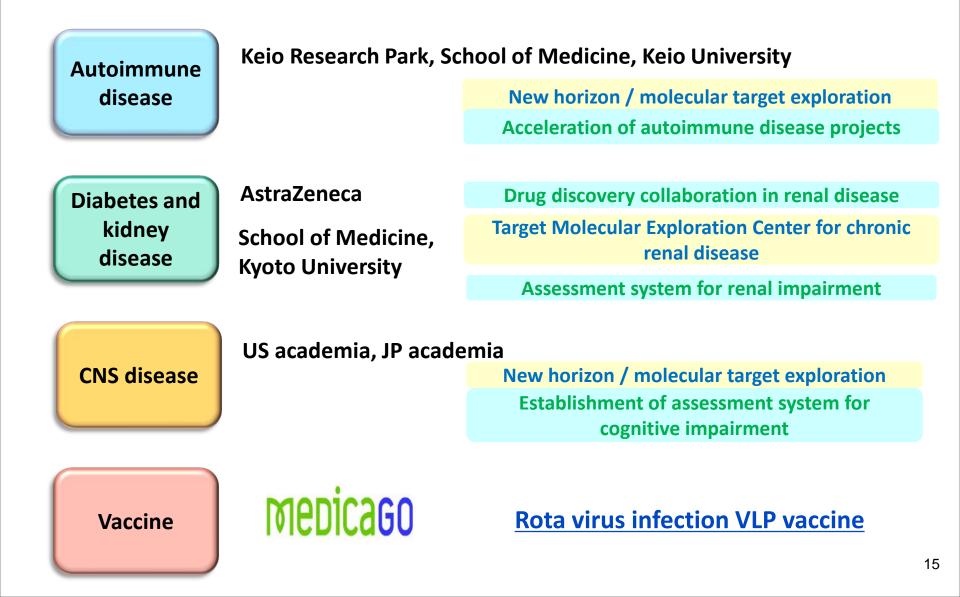


1. Maximizing Pipeline Value

Efforts toward Generating 10 Late-stage Candidates







1. Maximizing Pipeline Value

Project Generation through Drug Repositioning





Drug development process to identify new indications other than those expected through drug profiling technology

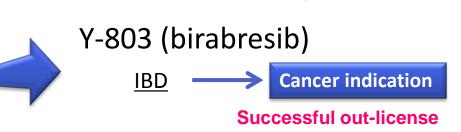
3 initiatives

Strengthening of search capability of potential (LCM)

Through industry-industry collaboration and Ikuyaku research (clinical research), hidden potential of own long-listed products and Ikuyaku products is identified.

Strengthening of re-utilization (Repurposing)

By fully utilizing internal and external Discovery ICT and Omics technology, discontinued products are transformed into new sources of drug discovery.



Challenges for expansion of medical technology (Designed pharmaceuticals)

Challenges for drug recycling by technology expansion through cooperation with academia, industry-industry partnership and MCHC group cooperation drug discovery approach.



Basic research ongoing



Open Up the Future

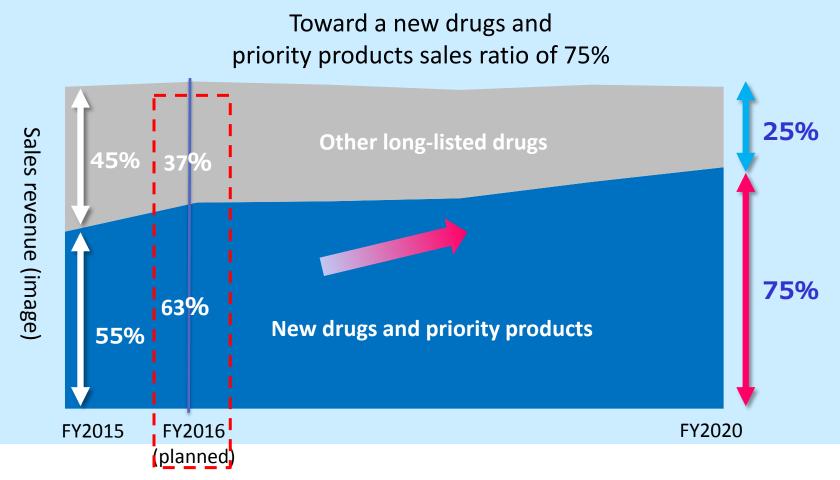
2. Strengthening IKUYAKU and Marketing

2. Strengthening IKUYAKU and Marketing Toward ¥300.0billion Domestic Sales with New Drugs and Priority Products Sales Ratio of 75%

Open Up the **Future**

🥼 Mitsubishi Tanabe Pharma

With the domestic market environment becoming increasingly challenging, we will work to achieve sales targets for new drugs and priority products by strengthening IKUYAKU and marketing, leading to strong growth in 2020 and thereafter.



2. Strengthening IKUYAKU and Marketing

Autoimmune Disease Area





Maximizing value of IV / SC injection products. New products will further strengthen our strength. Achieve the sales objective of ¥150.0 billion.

Remicade

- sNDA for shortened administration period for Chron's disease.
- Remichek Q[®] Infliximab assay kit supports optimization of efficacy and maintenance of remission in RA patients.

Additional growth in IBD

MT-5547 (Osteoarthritis / chronic back pain) Invossa (Osteoarthritis) Expansion to areas

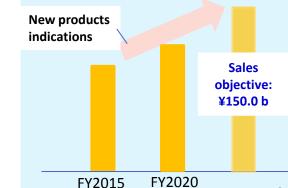
periphery

Simponi

- Changes of sales scheme with Janssen Pharma.
- Additional indication (ulcerative colitis) and new formulation (100mg syringe) are planned.

No. 1 share in SC products

Schematic image of sales



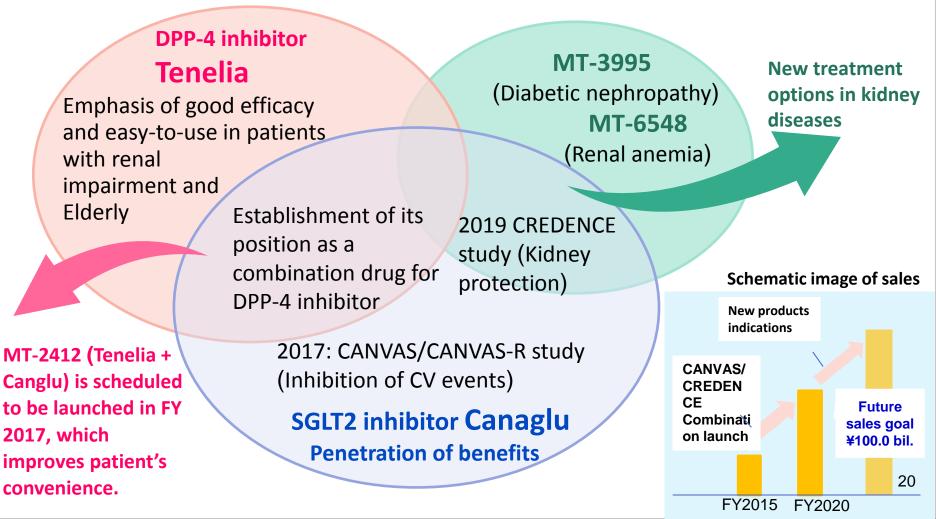
2. Strengthening IKUYAKU and Marketing

Diabetes and Kidney Diseases Area





Strengthening of product line-up in the diabetes and kidney disease area. Targeting to become the presence No. 1 in the disease area and achieving a sales objective of ¥100.0 billion.



2. Strengthening IKUYAKU and Marketing

Vaccines: Establishment of BIKEN Corporation

Open Up the Future

Mitsubishi Tanabe Pharma



BIKEN: Kan-nonji Research Center (Yawata)

November 2016 Basic agreement to establish a joint venture (BIKEN Corporation) with BIKEN to manufacture vaccines Manufacturing infrastructure is strengthened. Competitive vaccines in Japan and overseas are supplied.

2016 Pentavalent vaccine (MT-2355) Collaborative development initiated



1961 Co Start sales of BIKEN* products

1990 and later Collaboration of export of BIKEN products

*: The Research Foundation for Microbial Diseases of Osaka University

BIKEN: Kan-nonji Research Center (Seto)

21

2. Strengthening IKUYAKU and Marketing

Vaccines: Establishment of BIKEN Corporation

Varicella vaccine

In March 2016, an additional indication, prevention of herpes zoster in subjects aged 50 years or older, received.

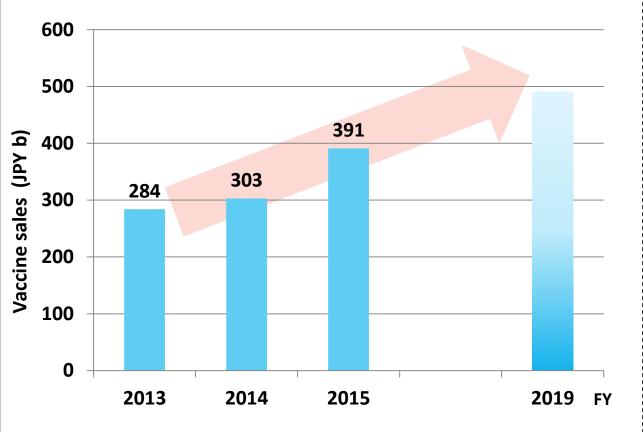
Herpes zoster

- Herpes zoster virus that invaded into ganglion is reactivated due to aging, fatigue or stress, etc. After pain and itching at nervedominated regions, water blister appear at skin. Several weeks are needed for cure.
- 600,000 subjects developed symptoms annually in Japan, with higher Incidence rate in those aged 50 years or older. About 20% of elderly patients suffered pain after herpes zoster.*

*: Source: IASR, vol.34

2019: Seto Center is fully operational.

Varicella vaccine is increased by 2 to 3 times and overall vaccines are increased by 20–30%. Sales will be expanded mainly with varicella vaccine and Japanese encephalitis vaccine.





Open Up the Future

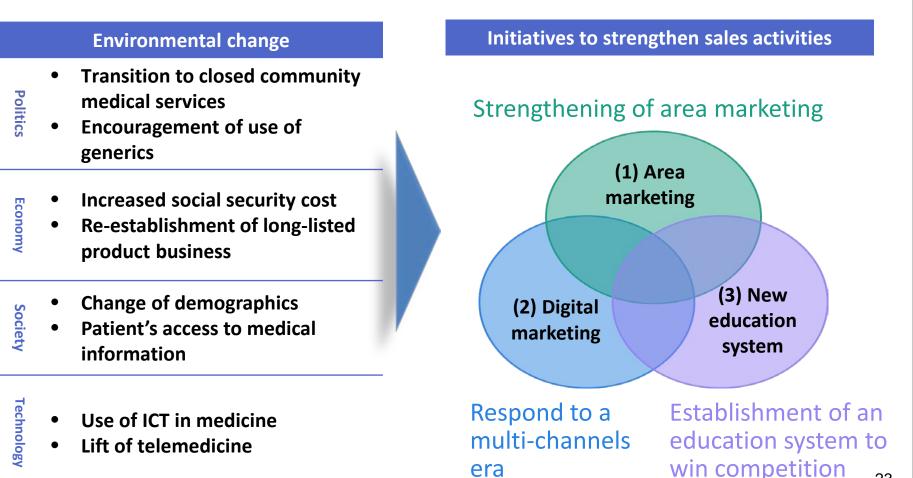
Mitsubishi Tanabe Pharma

2. Strengthening IKUYAKU and Marketing Sales Strengthening Initiatives to Achieve Domestic Sales of ¥300.0 billion

Open Up the Future



In order to establish agile sale organization to respond to rapid changes of medical environment, the following actions are taken: (1) "Strengthening of area marketing," (2)"Establishment of digital marketing," and (3) "Establishment of new education system"



2. Strengthening IKUYAKU and Marketing

Strengthening of Area Marketing





To prepare for transition to community medical services, area marketing planners (AMPs) were assigned to all 117 sales offices in October 2016 As part of area marketing activities acceleration initiatives

Role and responsibility of AMP

- Next generation managers responsible for medical institutions
- Medical Management Practice certificate will be obtained
- Play a key role in preparation, execution and verification of area marketing strategy.

Expected outputs

- Community needs are understood in an accurate and expedited manner. Medical collaboration activities unique to each community are conducted
- Contribution to local medical services from a mid-long term perspective.

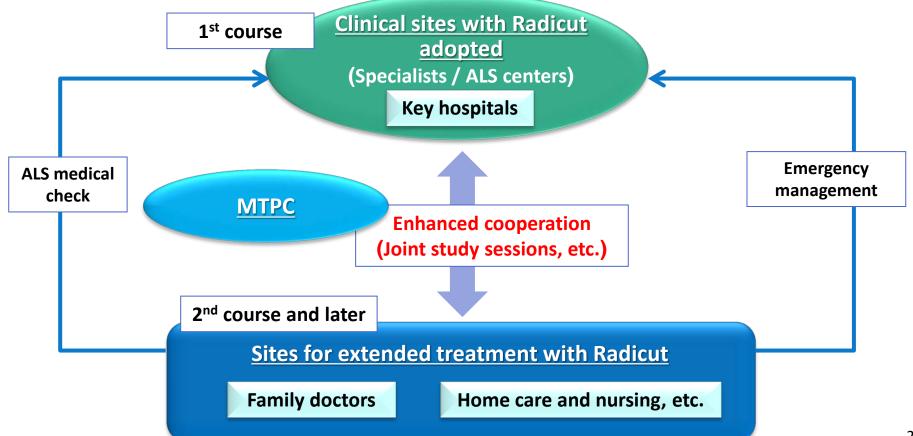
2. Strengthening IKUYAKU and Marketing Community Medical Collaboration through Products (Radicut ALS)

Open Up the Future



Enhance cooperation between key hospitals and family doctors based on community characteristics.

Reduced burden of hospital visits for continued treatment / contribution to continued treatment with Radicut



2. Strengthening IKUYAKU and Marketing Radicut ALS, Changes in the Number of Treated Patients in Japan (New/Transferred)



Through support for cooperation among medical institutions at community level, "Adoption at key hospital→Continued treatment at a family doctor" will be penetrated.

Changes in the number of ALS patients treated with Radicut 2000 New patients increased and transfer of patients at treatment 1800 initiation site to home doctors also increased. 1600 Newly treated patients Transferred patients 1400 1200 1000 800 600 400 200 0 End-Jun End-Sep End-Dec End-Sep End-Mar 2016 2015 2015 2016 2016

2. Strengthening IKUYAKU and Marketing

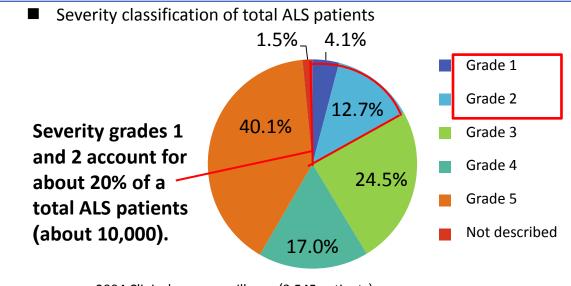
Radicut ALS: Breakdown by ALS Severity





Severity classification of ALS patients treated with Radicut (as of the end of September 2016) Total: 1,810 patients Severity Grade 4 Unknown Grade 2 Grade 3 Grade 1 Grade 5 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Many patients are in grades 1 and 2, in which efficacy was demonstrated in clinical studies.



2004 Clinical case surveillance (3,545 patients) Study group on neurodegenerative diseases: 2005 Workshop

2. Strengthening IKUYAKU and Marketing

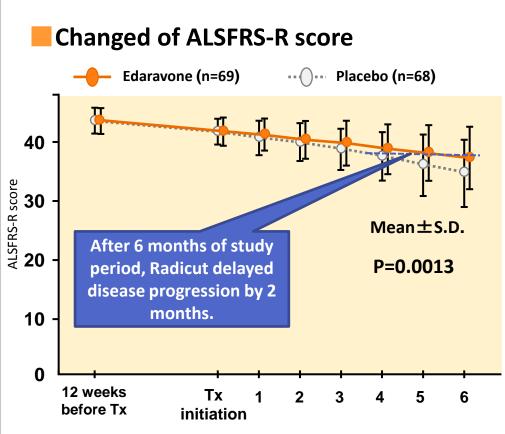
Radicut ALS: Further demonstration of clinical significance

Open Up the Future



Mitsubishi Tanabe Pharma

Clinical study data (Confirmatory study 2nd: Double-blind period)



1 course: 14 days continuous treatment followed by 14 days off treatment

2 course and after: 10 days treatment out of 14 days followed by 14 days off-treatment

Special drug-use investigation in progress

Demonstration of safety, efficacy and long-term prognosis in clinical practice → Emphasis of clinical significance

- Sample size planned: 700 patients (As of Oct 2016: about 220 patients registered)
- Investigation period: 7 years
- Primary endpoints: Death, permanent artificial respirator
- Secondary endpoints: Gastrostoma, tracheotomy, etc.

Knowledge obtained from development and post-marketing surveillance in neurological intractable disease will be utilized for future R&D / Ikuyaku in CNS disease areas.

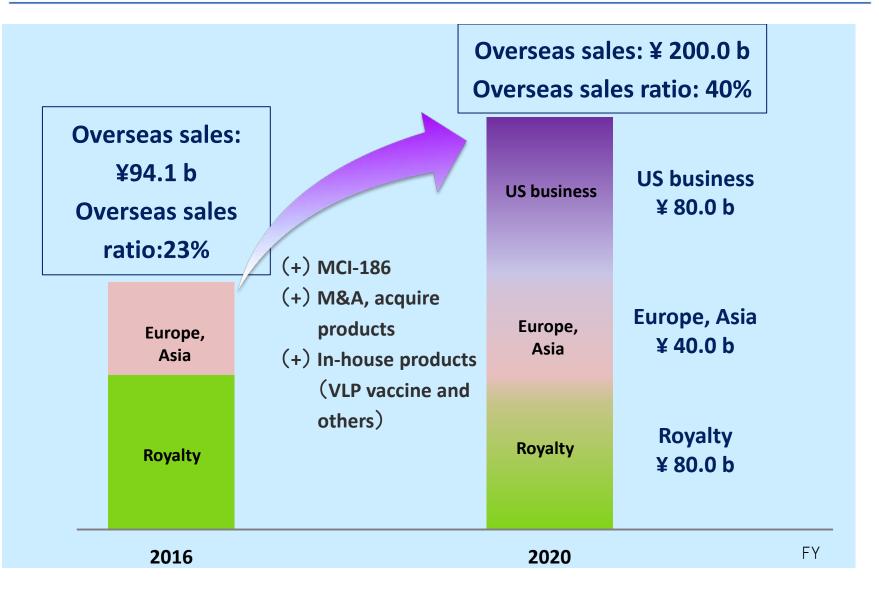
Open Up the **Future**

3. Accelerating U.S. Business Development

3. Accelerating U.S. Business Development Toward Increasing Overseas Sales and Overseas Sales Ratio





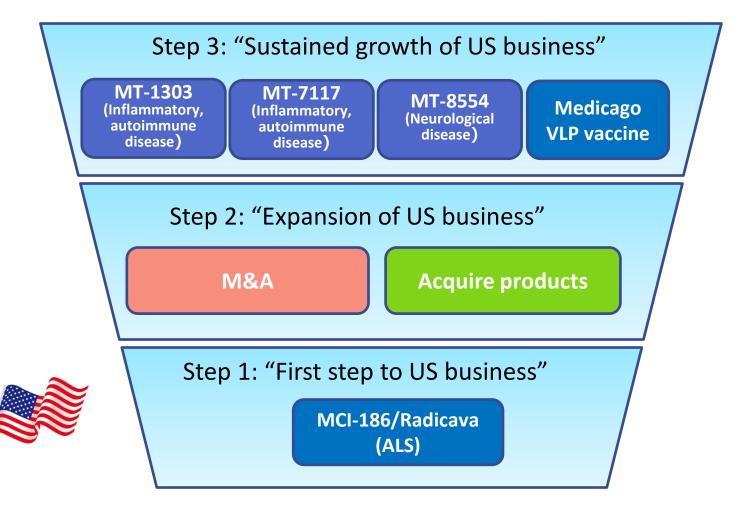


3. Accelerating U.S. Business Development Toward achieving the Objectives of US Business Development

Open Up the Future



With strategic investment of more than ¥200.0 billion, US sales will be increased to ¥80.0 billion by FY 2020.



3. Accelerating U.S. Business Development

Step 1: First Step to US Business Development (MCI-186) *Mitsubishi Tanabe Pharma*

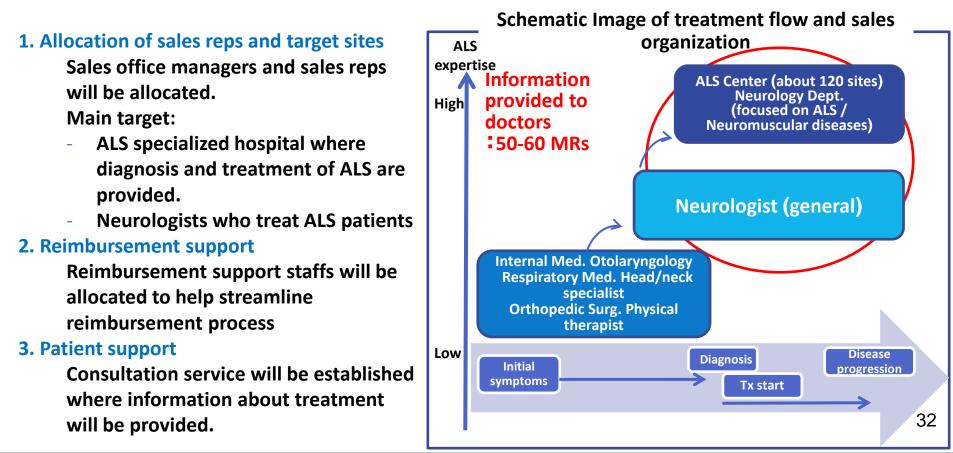
MCI-186

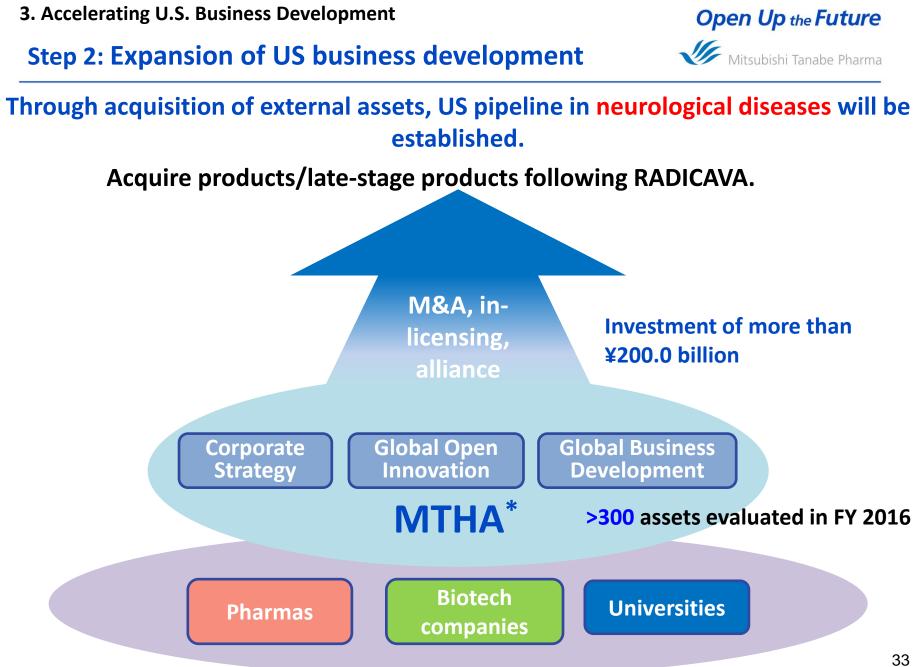
- In June and December 2015, ALS indication granted in Japan and Korea.
- NDA submitted to FDA on Jun 16, 2016 \rightarrow Accepted in Aug \rightarrow PDUFA date: Jun 16, 2017

Open Up the **Future**

• US brand name is tentatively RADICAVA.

Sales/ support organization dedicated to RADICAVA sales under establishment





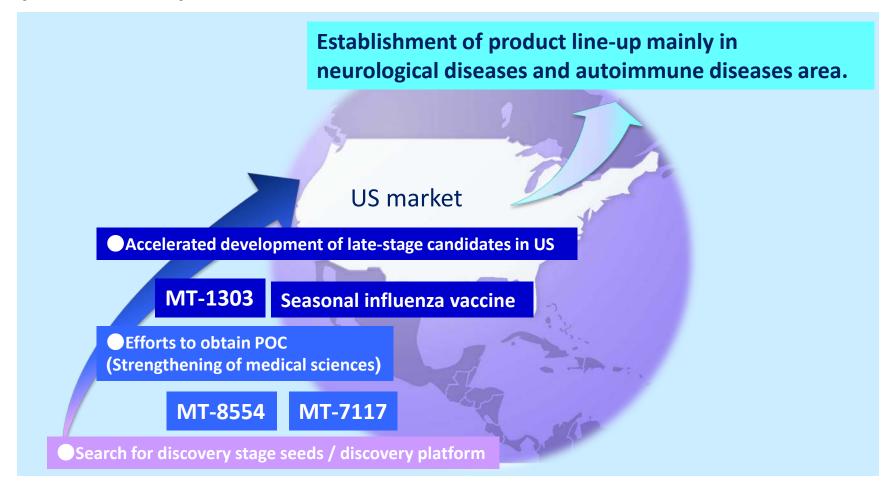
*: Mitsubishi Tanabe Holding America

3. Accelerating U.S. Business Development

Step 3: Sustained Growth of US Business

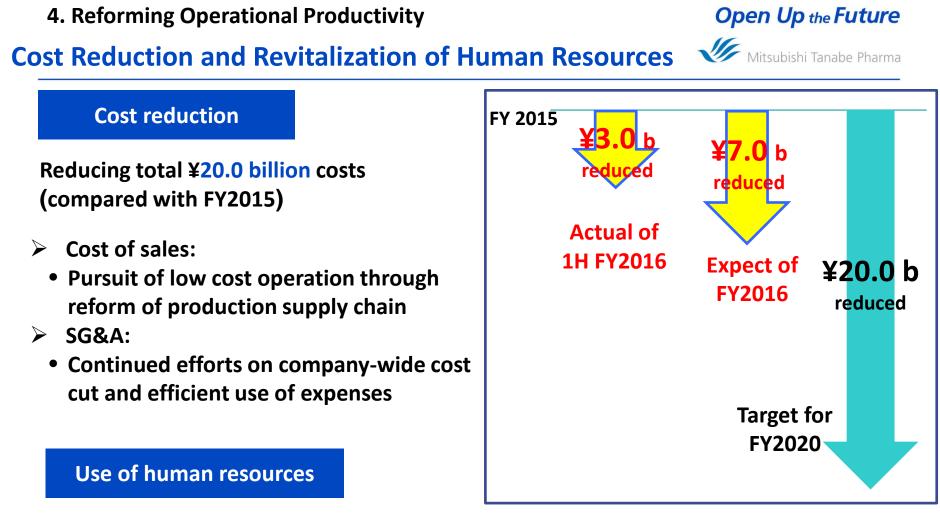


At the therapeutic area where we try to build up the franchise in the US, we will pursue POC and accelerate product development so as to create a product line-up in the US.



Open Up the Future

4. Reforming Operational Productivity



- To reduce a workforce of 5,000 employees for Japan organization by FY2020, duplicated functions are reviewed and organization based on functional efficiency is to be built
- Revitalization of human resources will be promoted.
- > For overseas, human resources will mainly be allocated to US.

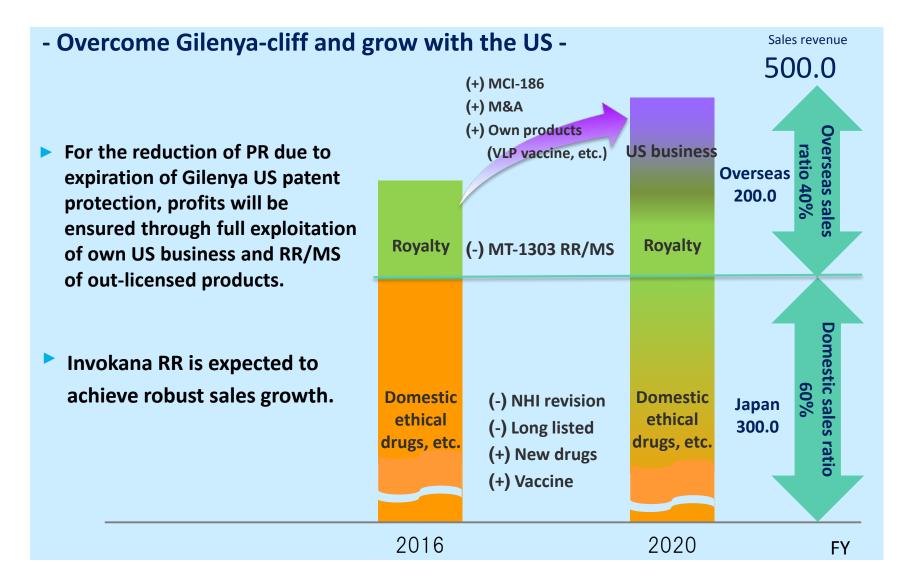
Open Up the **Future**

Toward the achievement of Medium-Term Management Plan 16–20

Toward the achievement of Medium-Term Management Plan 16–20 Toward the Achievement of Medium-Term Management Plan 16-20











Mitsubishi Tanabe Pharma

Open Up the **Future**

Becoming a company that works with a sense of speed and is the first to deliver differentiated value



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.