

1st Half of Fiscal 2016 Financial Results

November 1, 2016

Isao Teshirogi, Ph.D. President and CEO



Agenda



- 1st Half FY2016 Financial Results
- FY2016 Financial Forecasts
- Dividend Forecasts

Agenda



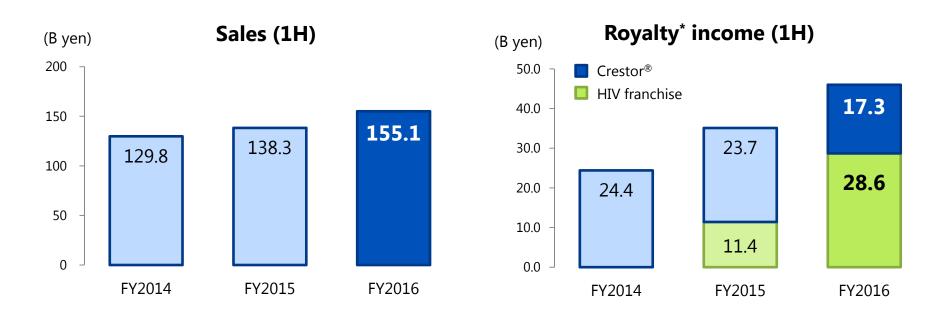
- 1st Half FY2016 Financial Results
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Summary of 1H FY2016: Strong Top-line Growth



vs 1H forecasts

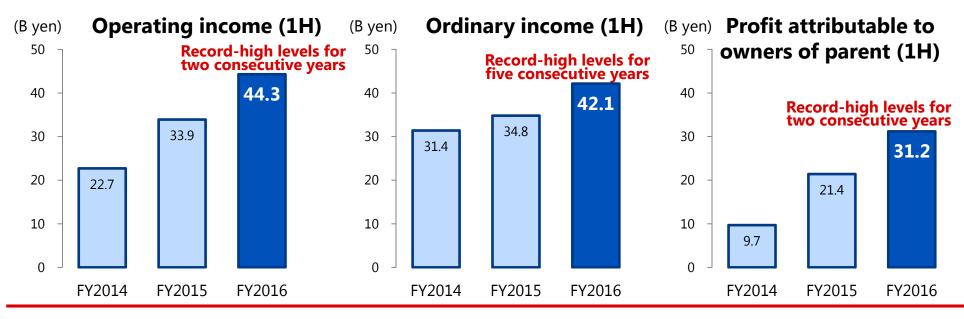
- Net sales: 155.1 B yen (107.0%)
- Royalty* income: **46.0 B yen** (108.2%)





Summary of 1H FY2016: Profits Higher Than song the Levels Achieved in 1H of Prior Fiscal Year

- vs 1H forecasts Operating income: 44.3 B yen (134.2%)
- vs 1H forecasts Ordinary income: **42.1 B yen**
- Profit attributable to owners of parent: **31.2 B yen** (148.6%)





vs 1H forecasts

Financial Results (Consolidated)



		FY2016	EV201 F	YonY	
			Progress vs forecasts	FY2015 results	change (%)
Sales	145.0	155.1	107.0%	138.3	12.2%
Operating income	33.0	44.3	134.2%	33.9	30.5%
Ordinary income	33.0	42.1	127.7%	34.8	21.1%
Profit attributable to owners of parent	21.0	31.2	148.6%	21.4	45.9%

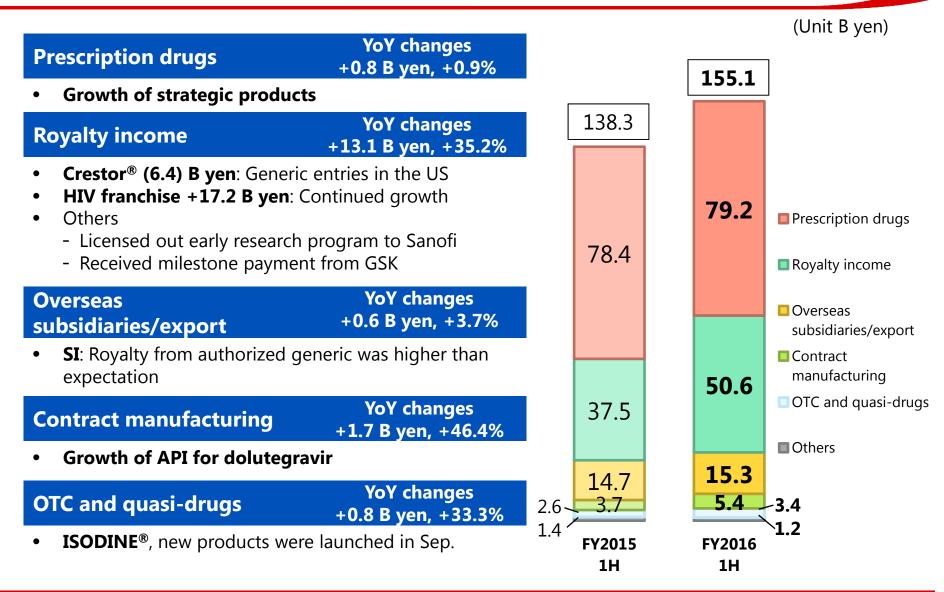
Exchange rate (average)	FY2016 forecasts	FY2016 1H results
USD (\$) – JPY (¥)	110	105.26
GBP $(£)$ – JPY $(¥)$	155	144.81
EUR (€) – JPY (¥)	130	118.13



^{*} The consolidated earnings forecasts announced on May 11, 2016 were written here, and the revisions to the forecasts were announced on Oct. 24, 2016

Net Sales Increased by 12.2% to 16.8 B Yen



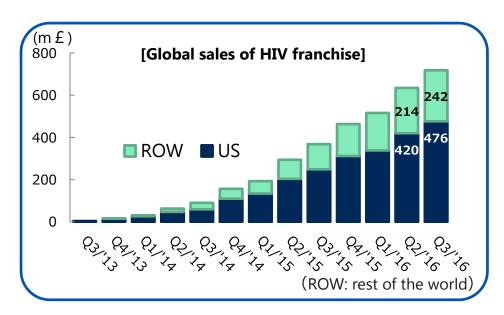


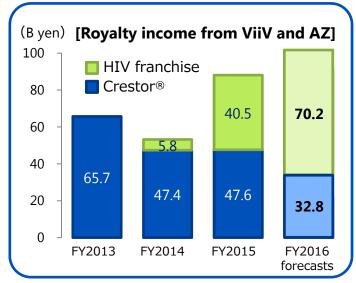


Strong Growth in HIV Franchise Covers the Royalty Income Decrease in Crestor®



- Royalty income from ViiV increased due to HIV franchise sales expansion, and covered the royalty income decrease in Crestor®
- Development of two-drug single tablet regimens with DTG, and cabotegravir LAP for treatment and prevention



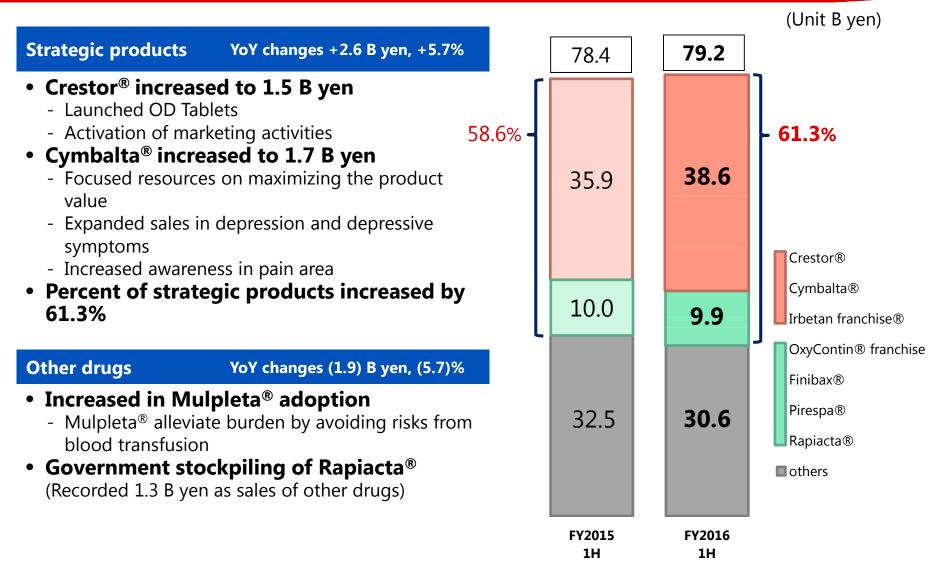


Developed into strong revenue base contributing for a mid- to long-term growth

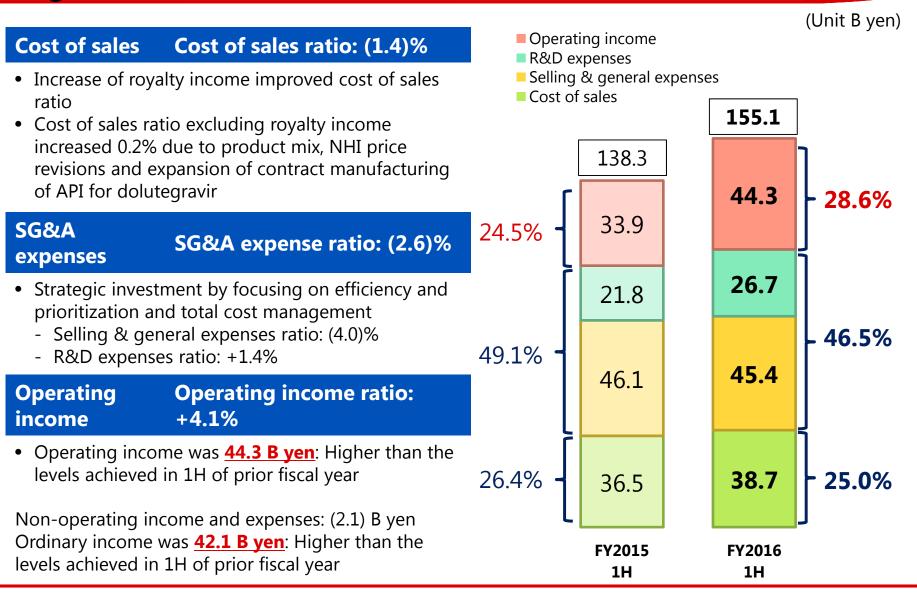


Prescription Drugs Increased by 0.9% to 0.8 B Yen





Operating Income increased by 30.5% to 10.4 B Yen, song Higher Than the Levels Achieved in 1H of Prior Fiscal Year





Target Milestones for FY2016



Areas	Product	As of Apr. 1, 2016	Target for FY2016	
Infectious	Cefiderocol (S-649266) Multidrug-resistant Gram-negative bacterial infections	Global: Phase II, III	US: NDA submission → US: NDA submission in preparation	
disease	S-033188 Influenza virus infection	Japan: Phase II US: Phase I	Japan: Phase II completed US: Phase I completed Global: Phase III initiated, Japan: Phase III (pediatric) initiated	
	Guanfacine hydrochloride ADHD (pediatric)	Japan: NDA submission	Japan: Approval	
	Cymbalta® Pain associated with osteoarthritis	Japan: NDA submission	Japan: Approval	
Pain/CNS	Naldemedine Opioid-induced constipation	Japan/US: NDA submission	Japan/US: Approval EU: NDA submission	
	Oxycodone Treatment of moderate to severe chronic pain	Japan: Phase III Japan: NDA submission		
	Oxycodone Tamper resistant formulation	Japan: Phase I completed	Japan: NDA submission	
	Lisdexamfetamine ADHD (pediatric)	Japan: Phase III	Japan: Phase III completed	
Metabolic disorder	S-237648 Obesity	Japan: Phase II	Japan: Phase II completed US: Phase I initiated	
F	Lusutrombopag Thrombocytopenia associated with chronic liver disease	Global: Phase III	Global: NDA submission → Global: Phase III	
Frontier	S-222611 Malignant tumor	EU: Phase I/II	EU: Phase I/II completed	



New Products to Lead Future Growth



Target milestone for launch of new product

FY2016	FY2017	FY2018
Japanese business		
Crestor® OD tablet Cymbalta® Pain associated with chronic low back pain Pain associated with osteoarthritis ISODINE® brand ethical products	Naldemedine Guanfacine hydrochloric Oxycodone Tamper resistant formulation Moderate to severe chronic pair	Actair ® Pediatric patients with perennial
US business		
	Naldemedine	Cefiderocol (S-649266) Osphena® Vaginal dryness associated with postmenopausal VVA Lusutrombopag
Global out-licensed proc	lucts	
		Dolutegravir + rilpivirine



New Products to Lead Future Growth



Prepare for the launch of new products Establish marketing platforms to maximize the value of new products

- **Cymbalta**®
 - Expanded indications: Pain associated with osteoarthritis
- **Naldemedine**
 - Prepare for launch and explore partner in the US
- **Guanfacine hydrochloride**
 - Initiate a project to establish presence in ADHD franchise (guanfacine) hydrochloride and lisdexamfetamine)

Accelerating new drug development

- S-033188
 - Initiate Global Phase III trials in 2016-2017 flu season
 - Designated for "priority review system" by MHLW
 - NDA submission in Japan in FY2017, as early as possible
- **Cefiderocol (S-649266)**
 - Pivotal cUTI and CR studies are ongoing

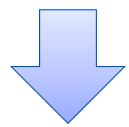


Maximize the Value of S-033188



Collaboration with Roche worldwide

- Roche brings experience and expertise from Tamiflu® (development, supply, commercialization)
- Shionogi brings its capability and experience in development in our prioritized therapeutic areas



Modified the global development plan to utilize the "priority review system" (SAKIGAKE designation) in Japan

Progressing global phase III studies led by Shionogi

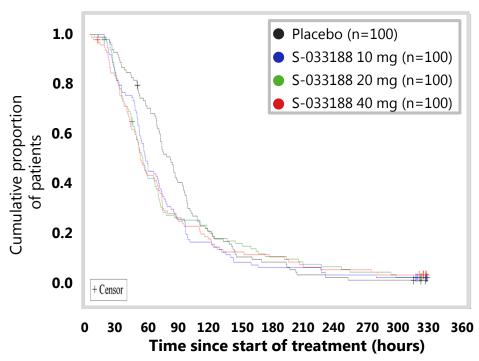
- Scientific advice with MHRA, BfArM and end of Phase II meeting with FDA have been completed
- Shionogi will pay development costs and will be eligible to receive milestone payments from Roche depending on the outcome of the studies



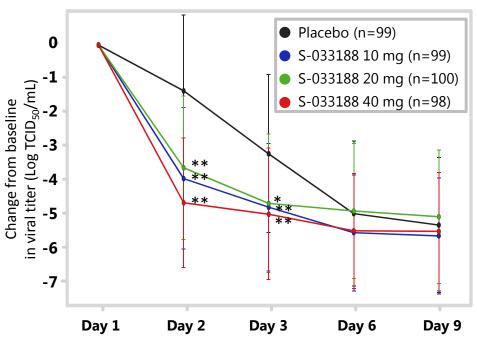
S-033188: Phase II Results



Time to alleviation of influenza symptoms



Change in the virus titer



**p<0.0001, *p<0.001 vs placebo (van Elteren test, two-sided, covariates: smoking habit, composite symptom scores at baseline)

Conduct Global Phase III trials in 2016-2017 flu season NDA submission in Japan in FY2017, as early as possible



Protocol of S-033188 Phase III Trials



	Otherwise healthy study	High risk study			
Study Patient	Uncomplicated otherwise healthy influenza patients aged 12-64years 0 – 48 hr from onset	Uncomplicated high risk influenza patients aged >12years 0 – 48 hr from onset			
Season	2016/2017 flu season	From 2016/2017 to 2017/2018 flu season			
Countries	Japan, US and Asia	All region including Japan, US and EU			
Enrollment	About 1,500	About 2,200			
Compound	 S-033188: Receive two or four 20-mg S-033188 tablets single dosing on Day 1 Placebo Oseltamivir: Receive 75-mg oseltamivir twice a day on Days 1 to 5 				
Primary Outcomes	Time to improvement of 7 major f	lu symptoms : compared to placebo			
Secondary Outcomes	Time to improvement of 7 major fVirological parameters : compared	lu symptoms : compared to oseltamivir d to placebo and oseltamivir			
Note	Participants aged 12 to 19 years will be divided into ① or ② groups	 Considered to be high risk of flu complications as below Adults aged >65 years Residents of long-term care facilities(eg, nursing homes) Having designated underlying diseases Morbid obesity (BMI≥ 40), etc. 			

Focusing resources on the fastest development plan in order to deliver the novel flu drug to patients



Shionogi's Strength in Forming Alliances Maximizes Portfolio Value



HIV franchise, Crestor®, Cymbalta®, Anti-bacteria

Modified contracts with alliance partners to produce win-win outcomes

Naldemedine

Explore partnering options to maximize the value of naldemedine

BACE inhibitor

Research collaboration with Janssen

Early stage frontier research program

- Licensed out to Sanofi
 - → Focusing resources on our core research therapeutic areas



Basic Strategy in FY2016 and 1H Achievements



Basic Strategy in FY2016

Continue growth based on increasing royalty income and improved cost management and

Strengthen and enhance Japanese/overseas business

1H Achievements

Strengthen and enhance Japanese business

- Cymbalta[®] led the sales expansion of strategic products
- Transfer of long-listed drugs
- Progress in S-033188 development

Royalty

- Crestor® royalty contributes until 2020
- Sales of HIV franchise expands very smoothly
- Reduced the negative impact of exchange rate by foreign exchange reservations

Strengthen and enhance overseas business

- Naldemedine: Acceptance of NDA in the US
 - PDUFA date: Mar. 23, 2017
- Osphena[®]: Focusing resources on highpotential areas

Cost management

- Total cost management
- Profits higher than the levels achieved in 1H of prior fiscal year



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Response to Rapid Environmental Changes

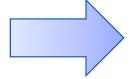


Revenue base

Royalty income (Crestor® and HIV franchise)

Japanese business

Scale



Productivity

More compact Evolve the "clear priorities and focused resourcing"

- R&D activities
- Business operations

Actions to Achieve FY2016 Business Plan



Strengthen and enhance Japanese business

- Cymbalta[®]
 - Plan to expand indications: Pain associated with osteoarthritis
- ADHD
 - Plan to receive NDA approval for guanfacine hydrochloride
 - Establish platform for the launch

Strengthen and enhance overseas business

- Naldemedine
 - Continue to explore partnering options
 - Establish platform for the launch
- Osphena[®]
 - Expand market share
 - Continue Phase III clinical study for vaginal dryness

Global development

- S-033188
 - Initiate global Phase III trials
- Cefiderocol
 - Strong commitment to AMR issue

Cost management

- Focus resources on high priority business activities
- Implement the new cost management scheme which combines general expenses and R&D expenses into one unified expense budget

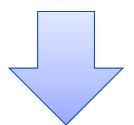


Key Points of Revision of FY2016 Financial Forecasts



Increased from original forecasts

- Royalty income from HIV franchise
- Investments for growth drivers: S-033188 and cefiderocol



- Strengthen and enhance
 Japanese/overseas business
- Total cost management

Exceed original FY2016 profit targets while expanding investment in growth drivers

Revision of FY2016 Financial Forecasts (Consolidated)



		FY2016	FY2015	YonY		
	original	revised	change	results	change (%)	
Sales	318.0	334.0	16.0	310.0	7.8%	
Operating income	91.5	97.5	6.0	91.4	6.7%	
Ordinary income	101.5	105.5	4.0	100.9	4.6%	
Profit attributable to owners of parent	71.0	76.0	5.0	66.7	14.0%	

Exchange rate (average)	FY2016 forecasts (original)	FY2016 forecasts (revised)	change
USD (\$) – JPY (¥)	110	105	5
GBP (£) – JPY (¥)	155	140	15
EUR (€) – JPY (¥)	130	120	10

Revision of Sales of Main Merchandise and Finished Goods (Consolidated)



					(Offic b yell)	
_		FY2016		FY2015	YonY	
	original	revised	change	results	change (%)	
Prescription drugs	158.2	160.2	2.0	162.1	(1.2)	
Crestor [®]	41.5	42.9	1.4	43.7	(1.9)	
Cymbalta [®]	19.3	19.3	-	15.2	26.8	
Irbetan [®] franchise	15.1	15.8	0.7	15.7	0.5	
Total of 3 key products	75.9	77.9	2.0	74.6	4.5	
OxyContin [®] franchise	10.5	9.9	(0.6)	10.0	(1.4)	
Finibax [®]	3.9	3.6	(0.3)	3.8	(4.1)	
Pirespa [®]	6.3	6.0	(0.3)	6.0	0.1	
Rapiacta [®]	2.3	2.3	-	2.0	14.2	
Total of 7 strategic products	99.0	99.8	0.8	96.5	3.5	
[percent of sales]	[62.5%]	[62.3%]		[59.5%]		
Overseas subsidiaries/export	24.7	24.8	0.1	29.7	(16.5)	
Shionogi Inc.	12.4	13.6	1.2	16.6	(18.1)	
Osphena [®]	5.3	4.8	(0.5)	4.8	(1.0)	
Contract manufacturing	10.9	12.4	1.5	8.4	46.6	
OTC and quasi-drugs	7.0	7.0	-	4.9	44.3	
Royalty income	114.9	112.3	(2.6)	101.8	10.3	
Royalty income for the sales of Crestor® and HIV franchise	95.0	103.0	8.0	88.1	16.9	
Crestor [®]	33.0	32.8	(0.2)	47.6	(31.2)	
HIV franchise	62.0	70.2	8.2	40.5	73.5	
Others	2.4	17.2	14.8	3.0	474.9	
Total	318.0	334.0	16.0	310.0	7.8	



Revision of Statement of Income (Consolidated)



		FY2016		FY2015	YonY
	original	revised	change	results	change (%)
Sales	318.0	334.0	16.0	310.0	7.8
[Royalty* income]	95.0	103.0	8.0	88.1	16.9
	24.5	23.4		24.1	
	[35.0]	[33.8]		[33.7]	
Cost of sales	78.0	78.0	-	74.8	4.3
	46.7	47.5		46.4	
SG&A expenses	148.5	158.5	10.0	143.8	10.2
	31.0	29.3		30.3	
Selling & general expenses	98.5	98.0	(0.5)	94.0	4.2
	15.7	18.1		16.1	
R&D expenses	50.0	60.5	10.5	49.8	21.5
On anating in come	28.8	29.2		29.5	
Operating income	91.5	97.5	6.0	91.4	6.7
[Excluding royalty* income]	(3.5)	(5.5)	(2.0)	3.3	-
Non-operating income and expenses	P10.0	P8.0	(2.0)	P9.5	(15.5)
Oudinguising	31.9	31.6		32.5	
Ordinary income	101.5	105.5	4.0	100.9	4.6



Agenda



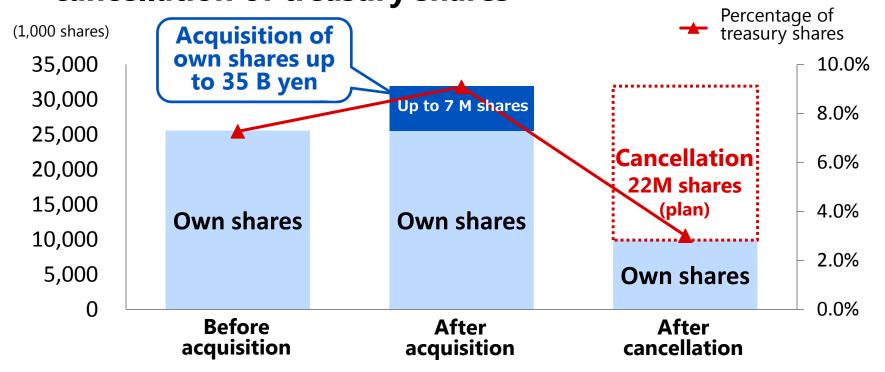
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Acquisition of Own Shares and Cancellation of Treasury Shares



Acquisition of own shares (up to 35 B yen) and cancellation of treasury shares



Increase shareholder return and capital efficiency by following a flexible capital policy, aligning with strong business progress in accordance with SGS2020 to maximize Shionogi's enterprise value



Dividend Forecasts



- Maximize enterprise value by balancing three key factors: return to shareholders, investment for further growth and strategic opportunities
- Sharing our mid- to long-term profit growth with our shareholders by increasing returns as appropriate
- Dividend forecast for FY2016: 68 yen

	Divi	DOE	Payout		
	half-year	year-end	annual	DOE	ratio
FY2015	28.00	34.00	62.00	4.1%	30.3%
FY2016	34.00	(forecast) 34.00	(forecast) 68.00	4.3%	28.9%





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Appendix

- Financial Results -



Japan: Sales of Strategic Products



						(0	D yell)
		FY2016				Yo	onY
	full year forecasts (original)	1H forecasts	1H results	Progress vs forecasts (%)	1H results	change (%)	change
Crestor [®]	41.5	20.9	21.9	105.1	20.4	7.5	1.5
Cymbalta [®]	19.3	8.9	8.9	100.2	7.2	23.7	1.7
Irbetan [®] franchise	15.1	7.4	7.8	104.7	8.3	(6.3)	(0.5)
Total of 3 key products	75.9	37.2	38.6	103.9	35.9	7.6	2.7
OxyContin [®] franchise	10.5	5.5	5.0	91.1	5.2	(2.6)	(0.2)
Finibax [®]	3.9	2.0	1.8	87.7	2.1	(16.8)	(0.3)
Pirespa [®]	6.3	3.3	3.0	91.8	2.8	9.0	0.2
Rapiacta [®]	2.3	0.1	0.1	118.2	(0.0)	-	0.1
Total of 7 strategic products	99.0	48.1	48.5	100.9	45.9	5.7	2.6
[percent of sales]	[62.5%]	[63.0%]	[61.3%]		[58.6%]		
Prescription drugs	158.2	76.3	79.2	103.8	78.4	0.9	0.8

Sales of Main Merchandise and Finished Goods (Consolidated)



		FY20	16		FY2015	Yo	nY
	full year forecasts (original)	1H forecasts [*]	1H results	Progress vs forecasts (%)	1H results	change (%)	change
Prescription drugs	158.2	76.3	79.2	103.8	78.4	0.9	8.0
Overseas subsidiaries/export	24.7	12.4	15.3	123.4	14.7	3.7	0.6
Shionogi Inc.	12.4	6.0	9.1	152.1	8.4	8.0	0.7
Osphena ®	5.3	2.6	2.0	77.7	2.6	(22.4)	(0.6)
Contract manufacturing	10.9	5.3	5.4	101.5	3.7	46.4	1.7
OTC and quasi-drugs	7.0	3.5	3.4	97.5	2.6	33.3	8.0
Royalty income	114.9	46.3	50.6	109.3	37.5	35.2	13.1
Royalty income for the sales of Crestor® and HIV franchise	95.0	42.5	46.0	108.1	35.0	31.2	11.0
Crestor [®]	33.0	16.5	17.3	105.0	23.7	(26.8)	(6.4)
HIV franchise	62.0	26.0	28.6	110.1	11.4	152.0	17.2
Others	2.4	1.2	1.2	103.3	1.4	(14.4)	(0.2)
Total	318.0	145.0	155.1	107.0	138.3	12.2	16.8



^{*} The consolidated earnings forecasts announced on May 11, 2016 were written here, and the revisions to the forecasts were announced on Oct. 24, 2016

Statements of Income (Consolidated)



(Unit B yen)

	FY2016				FY2015	YonY	
	full year forecasts (original)	1H forecasts*	1H results	Progress vs forecasts (%)	1H results	change (%)	change
Sales	318.0	145.0	155.1	107.0	138.3	12.2	16.8
[Royalty** income]	95.0	42.5	46.0	108.2	35.0	31.2	11.0
	24.5 [35.0]	26.6 [37.6]	25.0 [35.5]		26.4 [35.3]		
Cost of sales	78.0	38.5	38.7	100.5	36.5	6.2	2.2
Gross profit	240.0	106.5	116.4	109.3	101.8	14.3	14.6
	46.7	50.7	46.5		49.1		
SG&A expenses	148.5	73.5	72.1	98.1	67.9	6.2	4.2
	31.0	33.8	29.3		33.3		
Selling & general expenses	98.5	49.0	45.4	92.7	46.1	(1.3)	(0.7)
	15.7	16.9	17.2		15.8		
R&D expenses	50.0	24.5	26.7	108.8	21.8	22.1	4.9
	28.8	22.8	28.6		24.5		
Operating income	91.5	33.0	44.3	134.2	33.9	30.5	10.4
[Excluding royalty** income]	(3.5)	(9.5)	(1.7)	-	(1.1)	-	-
Non-operating income and expenses	P10.0	-	L2.1	-	P0.9	-	(3.0)
	31.9	22.8	27.2		25.2		
Ordinary income	101.5	33.0	42.1	127.7	34.8	21.1	7.3

Note: Small numbers in red are percent of sales, and numbers in red provided in parentheses are percent of sales excluding royalties * The consolidated earnings forecasts announced on May 11, 2016 were written here, and the revisions to the forecasts were announced on Oct. 24, 2016 ** Royalty income from AstraZeneca (Crestor®) and ViiV (HIV franchise)



Appendix - Pipeline -



Pipeline (as of Nov. 2016)



Non-clinical	Phase I	Phase II	Phase III	NDA submission
Antibody drug candidate against Pseudomonas NTE inhalation	S-033188 Influenza virus infection S-120083 Inflammatory pain S-117957 Insomnia S-237648	Cefiderocol (S-649266) Multidrug-resistant Gram-negative bacterial infections S-707106 Type2 diabetes S-488210 Head and neck squamous cell carcinoma S-222611 Malignant tumor S-588410	S-033188 Influenza virus infection Cefiderocol (S-649266) Multidrug-resistant Gram-negative bacterial infections Lusutrombopag Thrombocytopenia Osphena® Vaginal dryness associated with	Naldemedine
	Obesity Japan Oxycodone Tamper resistant formulation S-120083 Inflammatory pain S-010887 Neuropathic pain S-600918 Neuropathic pain	Cefiderocol (S-649266) Multidrug-resistant Gram-negative bacterial infections S-237648 Obesity S-525606 Allergic rhinitis caused by Japanese cedar allergen S-588410 Bladder cancer	S-033188 Influenza virus infection S-033188 Influenza virus infection (pediatric) Cefiderocol (S-649266) Multidrug-resistant Gram-negative bacterial infections Lisdexamfetamine ADHD (pediatric) Guanfacine hydrochloride ADHD (adult) Oxycodone Moderate to severe chronic pain	Naldemedine Opioid-induced constipation Cymbalta® Pain associated with osteoarthritis Guanfacine hydrochloride ADHD (pediatric) Infectious diseases Pain/CNS
			Pediatric patients with perennial allergic rhinitis S-555739 Allergic rhinitis S-588410 Esophageal cancer	Metabolic disorder Frontier



Pipeline (as of Nov. 2016)

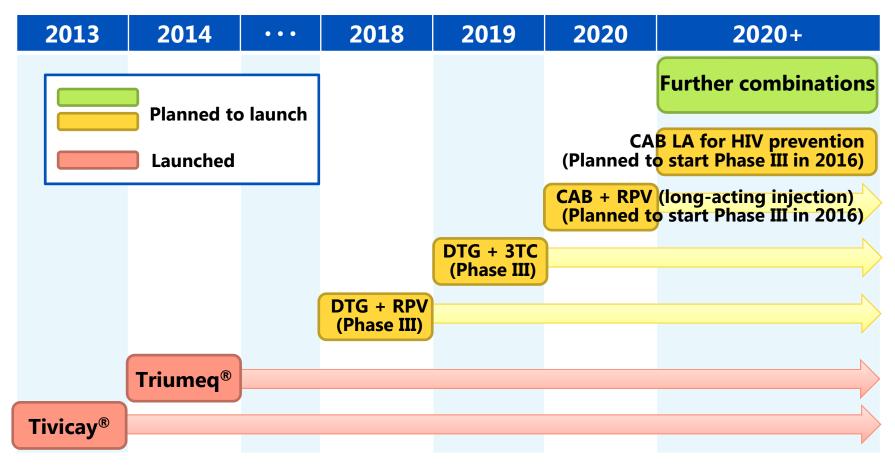


Non-clinical	Phase I	Phase II	Phase III	NDA submission
[Out-licensed]				
		Cabotegravir + rilpivirine LAP Treatment for HIV infection	Dolutegravir + rilpivirine Treatment for HIV infection	
GSK3342830 Multidrug-resistant Gram- negative bacterial infections		Cabotegravir LAP Prevention for HIV infection	Dolutegravir + lamivudine Treatment for HIV infection	Infectious diseases
Janssen/Shionogi Project compound Alzheimer's disease			Janssen/Shionogi BACE inhibitor Alzheimer's disease	Pain/CNS



HIV Integrase Inhibitor Franchise





ViiV's strategy to develop new treatment regimens to address the needs of people living with HIV places our HIV integrase inhibitors at the core of therapy

Forward-Looking Statements



- Forecast or target figures in this material are neither official forecasts of earnings and dividends nor guarantee of target, achievement and forecasts, but present the midterm strategies, goals and visions. Official earnings guidance should be referred to in the disclosure of the annual financial report (*kessan tanshin*) in accordance with the rules set by Tokyo Stock Exchange.
- Materials and information provided during this presentation may contain so-called "forward-looking statements". These statements are based on current expectations, forecasts and assumptions that are subject to risks and uncertainties which could cause actual outcomes and results to differ materially from these statements.
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 economic conditions such as interest rate and currency exchange fluctuations. Risks and uncertainties particularly
 apply with respect to product-related forward-looking statements. Product risks and uncertainties include, but are
 not limited to, technological advances and patents attained by competitors; challenges inherent in new product
 development, including completion of clinical trials; claims and concerns about product safety and efficacy;
 regulatory agency's examination period, obtaining regulatory approvals; domestic and foreign healthcare reforms;
 trend toward managed care and healthcare cost containment; and governmental laws and regulations affecting
 domestic and foreign operations.
- For products that are approved, there are manufacturing and marketing risks and uncertainties, which include, but are not limited to, inability to build production capacity to meet demand, unavailability of raw materials, and failure to gain market acceptance.
- Shionogi disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.
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