Supplementary Materials for Consolidated Financial Results for the 1st Quarter of Fiscal Year 2018. 12 (IFRS)

Innovation all for the patients



Roche A member of the Roche group

Notes: 1.

- Portions of this report that refer to performance forecasts or any other future events are believed to be reasonable under information available at the time of the forecasts. Actual results may materially differ from these forecasts due to potential risks and uncertainties.
- 2. Amounts shown in this report are rounded to the nearest 0.1 billion yen. Variance and % are calculated based on the amounts
- 3. Exchange rates used for each period are as follows.

QTR (Yen)

		Act	ual [*]			Act	tual [*]	
		FY2	017			FY2	2018	
	1-3	4-6	7–9	10-12	1-3	4-6	7-9	10-12
	QTR	QTR	QTR	QTR	QTR	QTR	QTR	QTR
CHF	113.21	112.69	115.33	114.41	114.33			
EUR	121.09	122.03	130.36	132.93	133.17			
USD	113.69	111.07	111.01	112.89	108.40			
SGD	80.25	79.76	81.57	83.38	82.16			

^{*}Market average exchange rate

YTD

110										
	Actual*		Act	:ual*			Ac	tual [*]		Assumption
	FY2016		FY2	2017			FY	2018		FY2018
	1-12	1-3	1-6	1-9	1-12	1-3	1-6	1-9	1-12	1-12
	Full-year	YTD	YTD	YTD	Full-year	YTD	YTD	YTD	Full-year	Full-year
CHF	110.46	113.21	112.95	113.73	113.90	114.33				115.00
EUR	120.42	121.09	121.55	124.33	126.39	133.17				133.00
USD	108.83	113.69	112.38	111.92	112.17	108.40				111.00
SGD	78.82	80.25	80.01	80.52	81.22	82.16				84.00

^{*}Market average exchange rate

Period-end

renou enu									
	Actual		Act	ual			Ac	tual	
	FY2016		FY2	017			FY2	2018	
	31 Dec.	31 Mar.	30 Jun.	30 Sep.	31 Dec.	31 Mar.	30 Jun.	30 Sep.	31 Dec.
CHF	113.94	111.76	117.37	115.80	115.35	111.67			
EUR	122.27	119.47	128.35	132.41	134.82	131.49			
USD	116.55	111.92	112.18	112.35	112.89	106.83			
SGD	80.47	80.04	81.33	82.73	84.39	81.43			

Financial highlights (YTD)

												(Billior	ns of yen)
	Actual		Acti	ual					Actu	ual			
	FY2016		FY20	017					FY20)18			
	1-12	1-3	1-6	1-9	1-12	1-3	Change	1-6	Change	1-9	Change	1-12	Change
	YTD	YTD	YTD	YTD	YTD	YTD	(%)	YTD	(%)	YTD	(%)	YTD	(%)
Revenues	491.8	125.5	252.8	387.6	534.2	147.4	+17.5						
Sales	472.7	118.1	236.8	364.8	499.3	124.7	+5.6						
excl. Tamiflu	459.2	110.8	228.7	354.8	482.4	116.3	+5.0						
Domestic	379.7	85.1	183.0	281.0	388.4	84.5	(0.7)						
Sales to Roche	62.8	21.3	36.9	60.6	76.4	27.4	+28.6						
Overseas	16.8	4.3	8.8	13.2	17.7	4.5	+4.7						
Tamiflu sales	13.5	7.4	8.2	10.0	16.9	8.4	+13.5						
Ordinary use	12.0	6.1	6.3	6.3	11.9	8.3	+36.1						
Govt. stockpiles etc.	1.5	1.3	1.9	3.7	5.0	0.1	(92.3)						
Royalties and other operating income	19.1	7.3	15.9	22.9	34.9	22.7	+211.0						
Cost of sales	(247.9)	(61.2)	(121.4)	(186.5)	(254.2)	(63.8)	+4.2						
(% of Sales)	52.4	51.8	51.3	51.1	50.9	51.2	-						
Gross profit	243.8	64.3	131.3	201.1	280.0	83.6	+30.0						
(% of Revenues)	49.6	51.2	51.9	51.9	52.4	56.7	-						
Operating expenses	(167.0)	(38.0)	(84.2)	(124.9)	(181.1)	(45.2)	+18.9						
(% of Revenues)	34.0	30.3	33.3	32.2	33.9	30.7	-						
Marketing and distribution	(69.8)	(15.4)	(32.2)	(49.2)	(72.8)	(15.9)	+3.2						
(% of Revenues)	14.2	12.3	12.7	12.7	13.6	10.8	-						
Research and development	(85.0)	(19.3)	(44.8)	(65.7)	(92.9)	(25.1)	+30.1						
(% of Revenues)	17.3	15.4	17.7	17.0	17.4	17.0	-						
General and administration	(12.2)	(3.3)	(7.2)	(10.0)	(15.3)	(4.3)	+30.3						
(% of Revenues)	2.5	2.6	2.8	2.6	2.9	2.9	-						
Operating profit	76.9	26.3	47.1	76.2	98.9	38.4	+46.0						
(% of Revenues)	15.6	21.0	18.6	19.7	18.5	26.1	-						
Financing costs	(0.1)	(0.0)	(0.1)	(0.1)	(0.1)	(0.0)	0.0						
Other financial income (expense)	1.1	(0.3)	(0.2)	(0.2)	(0.1)	(0.1)	(66.7)						
Other expense	(3.5)	(1.1)	(0.4)	(1.1)	(1.7)	(0.6)	(45.5)						
Profit before taxes	74.4	25.0	46.4	74.9	97.0	37.7	+50.8						
(% of Revenues)	15.1	19.9	18.4	19.3	18.2	25.6	-						
Income taxes	(20.1)	(6.2)	(9.9)	(17.0)	(23.5)	(9.5)	+53.2						
Net income	54.4	18.7	36.5	57.9	73.5	28.2	+50.8						
(% of Revenues)	11.1	14.9	14.4	14.9	13.8	19.1	-						
Attributable to						-							
Chugai shareholders	53.6	18.5	36.1	57.2	72.7	27.9	+50.8						
Non-controlling interests	0.8	0.2	0.4	0.7	0.8	0.3	+50.0						
Earnings per share													
Basic (yen)	98.12	33.86	66.07	104.66	133.04	51.00	+50.6						
Diluted (yen)	97.97	33.81	65.97	104.51	132.83	50.91	+50.6						

Financial highlights (QTR)

(Rillions of ven)

		(Billions of										ns of yen)	
			Actu						Act				
			FY20	17					FY2	018			
		1-3	4-6	7–9	10-12	1-3	Change	4-6	Change	7–9	Change	10-12	Change
		QTR	QTR	QTR	QTR	QTR	(%)	QTR	(%)	QTR	(%)	QTR	(%)
Rev	enues	125.5	127.3	134.9	146.6	147.4	+17.5						
	Sales	118.1	118.7	127.9	134.5	124.7	+5.6						
	excl. Tamiflu	110.8	117.9	126.1	127.7	116.3	+5.0						
	Domestic	85.1	97.9	97.9	107.5	84.5	(0.7)						
	Sales to Roche	21.3	15.6	23.7	15.8	27.4	+28.6						
	Overseas	4.3	4.5	4.4	4.5	4.5	+4.7						
	Tamiflu sales	7.4	8.0	1.9	6.8	8.4	+13.5						
	Ordinary use	6.1	0.2	0.0	5.6	8.3	+36.1						
	Govt. stockpiles etc.	1.3	0.6	1.8	1.2	0.1	(92.3)						
F	Royalties and other operating income	7.3	8.6	6.9	12.0	22.7	+211.0						
Cos	t of sales	(61.2)	(60.3)	(65.1)	(67.7)	(63.8)	+4.2						
	(% of Sales)	51.8	50.8	50.9	50.3	51.2	-						
Gro	ss profit	64.3	67.0	69.8	78.9	83.6	+30.0						
	(% of Revenues)	51.2	52.6	51.7	53.8	56.7	-						
Оре	rating expenses	(38.0)	(46.3)	(40.7)	(56.2)	(45.2)	+18.9						
	(% of Revenues)	30.3	36.4	30.2	38.3	30.7	-						
1	Marketing and distribution	(15.4)	(16.8)	(17.0)	(23.6)	(15.9)	+3.2						
	(% of Revenues)	12.3	13.2	12.6	16.1	10.8	-						
F	Research and development	(19.3)	(25.6)	(20.8)	(27.3)	(25.1)	+30.1						
	(% of Revenues)	15.4	20.1	15.4	18.6	17.0	-						
	General and administration	(3.3)	(3.9)	(2.9)	(5.3)	(4.3)	+30.3						
	(% of Revenues)	2.6	3.1	2.1	3.6	2.9	-						
Оре	rating profit	26.3	20.8	29.1	22.7	38.4	+46.0						
•	(% of Revenues)	21.0	16.3	21.6	15.5	26.1	-						
F	inancing costs	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.0						
(Other financial income (expense)	(0.3)	0.1	0.0	0.1	(0.1)	(66.7)						
_	Other expense	(1.1)	0.7	(0.7)	(0.6)	(0.6)	(45.5)						
	it before taxes	25.0	21.5	28.4	22.2	37.7	+50.8						
	(% of Revenues)	19.9	16.9	21.1	15.1	25.6	-						
Inco	me taxes	(6.2)	(3.6)	(7.1)	(6.5)	(9.5)	+53.2						
Net	income	18.7	17.8	21.3	15.7	28.2	+50.8						
	(% of Revenues)	14.9	14.0	15.8	10.7	19.1	-						
Attr	ibutable to					-							
	Chugai shareholders	18.5	17.6	21.1	15.5	27.9	+50.8						
	Non-controlling interests	0.2	0.2	0.2	0.2	0.3	+50.0						
	nings per share	V.L	J	U.E	J.L	0.0	70.0						
	Basic (yen)	33.86	32.20	38.59	28.38	51.00	+50.6						
	Diluted (yen)	33.81	32.15	38.53	28.33	50.91	+50.6						
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Financial highlights (Core results YTD)

(Rillions of ven)

															ons of yen)
	Actual		Act	ual					Act	ual				Forec (Feb 1st An	
	FY2016		FY2	017					FY2	018				FY20)18
	1-12 YTD	1-3 YTD	1-6 YTD	1-9 YTD	1-12 YTD	1-3 YTD	Change (%)	1-6 YTD	Change (%)	1-9 YTD	Change (%)	1-12 YTD	Change (%)	1-12 YTD	Change (%)
Revenues	491.8	125.5	252.8	387.6	534.2	147.4	+17.5	115		115		115		541.5	+1.4
Sales	472.7	118.1	236.8	364.8	499.3	124.7	+5.6							498.5	(0.2)
excl. Tamiflu	459.2	110.8	228.7	354.8	482.4	116.3	+5.0							492.9	+2.2
Domestic	379.7	85.1	183.0	281.0	388.4	84.5	(0.7)							374.8	(3.5)
Sales to Roche	62.8	21.3	36.9	60.6	76.4	27.4	+28.6							99.6	+30.4
Overseas	16.8	4.3	8.8	13.2	17.7	4.5	+4.7							18.5	+4.5
Tamiflu sales	13.5	7.4	8.2	10.0	16.9	8.4	+13.5							5.6	(66.9)
Ordinary use	12.0	6.1	6.3	6.3	11.9	8.3	+36.1							5.0	(58.0)
Govt. stockpiles etc.	1.5	1.3	1.9	3.7	5.0	0.1	(92.3)							0.6	(88.0)
Royalties and other operating income	19.1	7.3	15.9	22.9	34.9	22.7	+211.0							43.0	+23.2
Cost of sales	(246.7)	(60.9)	(120.8)	(185.6)	(252.9)	(63.5)	+4.3							(252.0)	(0.4)
(% of Sales		51.6	51.0	50.9	50.7	50.9	-							50.6	_
Gross profit	245.0	64.6	131.9	202.1	281.3	83.9	+29.9							289.5	+2.9
(% of Revenues)	49.8	51.5	52.2	52.1	52.7	56.9	-							53.5	_
Operating expenses	(164.5)	(37.9)	(81.8)	(123.4)	(178.1)	(41.1)	+8.4							(181.5)	+1.9
(% of Revenues)	33.4	30.2	32.4	31.8	33.3	27.9	-							33.5	-
Marketing and distribution	(69.8)	(15.4)	(32.2)	(49.2)	(72.8)	(15.9)	+3.2								
(% of Revenues)	14.2	12.3	12.7	12.7	13.6	10.8	-								
Research and development	(82.6)	(19.2)	(42.4)	(63.2)	(88.9)	(20.9)	+8.9								
(% of Revenues)	16.8	15.3	16.8 (7.2)	(11.0)	16.6	(4.3)	+30.3								
General and administration (% of Revenues)	(12.1)	2.6	2.8	(11.0)	(16.3)	2.9	+30.3								
Operating profit	80.6	26.7	50.2	78.7	103.2	42.8	+60.3							108.0	+4.7
(% of Revenues,	16.4	21.3	19.9	20.3	19.3	29.0	100.5							19.9	14.7
Financing costs	(0.1)	(0.0)	(0.1)	(0.1)	(0.1)	(0.0)	0.0							10.0	
Other financial income (expense)	1.1	(0.3)	(0.1)	(0.1)	(0.1)	(0.1)									
Other expense	(3.5)	(1.1)	(0.4)	(1.1)	(1.7)	(0.6)	(45.5)								
Profit before taxes	78.1	25.3	49.5	77.3	101.3	42.1	+66.4								
(% of Revenues)	15.9	20.2	19.6	19.9	19.0	28.6	-								
Income taxes	(21.3)	(6.3)	(10.7)	(17.6)	(24.5)	(10.9)	+73.0								
Net income	56.8	18.9	38.8	59.7	76.7	31.2	+65.1								
(% of Revenues)	11.5	15.1	15.3	15.4	14.4	21.2	-								
Attributable to															
Chugai shareholders	56.1	18.7	38.4	59.0	75.9	31.0	+65.8								
Non-controlling interests	0.8	0.2	0.4	0.7	0.8	0.3	+50.0								
Weighted average number of shares in issue used to calculate diluted earnings per share (Millions of shares)	547	547	547	547	547	548	+0.2								
Core earnings per share (diluted) (yen)	102.50	34.22	70.10	107.80	138.68	56.52	+65.2							147.00	+6.0
Core payout ratio (%)	50.7				44.7									42.2	-
Dividend per share (Full year) (yen)	52				62									62	_
Dividend per share (Half year) (yen)	26				29									31	-

Please see page 5 "Reconciliation of IFRS results to Core results" for the detail of the adjustments.

Core earnings per share (diluted) (yen): Net income attributable to Chugai shareholders / Weighted average number of shares in issue used to calculate diluted earnings per share.

Financial highlights (Core results QTR)

(Rillions of ven)

											(Billio	ons of yen)
		Acti	ual					Act	ual			
		FY20)17					FY2	018			
	1-3	4-6	7-9	10-12	1-3	Change	4-6	Change	7-9	Change	10-12	Change
	QTR	QTR	QTR	QTR	QTR	(%)	QTR	(%)	QTR	(%)	QTR	(%)
Revenues	125.5	127.3	134.9	146.6	147.4	+17.5						
Sales	118.1	118.7	127.9	134.5	124.7	+5.6						
excl. Tamiflu	110.8	117.9	126.1	127.7	116.3	+5.0						
Domestic	85.1	97.9	97.9	107.5	84.5	(0.7)						
Sales to Roche	21.3	15.6	23.7	15.8	27.4	+28.6						
Overseas	4.3	4.5	4.4	4.5	4.5	+4.7						
Tamiflu sales	7.4	0.8	1.9	6.8	8.4	+13.5						
Ordinary use	6.1	0.2	0.0	5.6	8.3	+36.1						
Govt. stockpiles etc.	1.3	0.6	1.8	1.2	0.1	(92.3)						
Royalties and other operating income	7.3	8.6	6.9	12.0	22.7	+211.0						
Cost of sales	(60.9)	(60.0)	(64.8)	(67.3)	(63.5)	+4.3						
(% of Sales)	51.6	50.5	50.7	50.0	50.9	-						
Gross profit	64.6	67.3	70.1	79.2	83.9	+29.9						
(% of Revenues)	51.5	52.9	52.0	54.0	56.9	-						
Operating expenses	(37.9)	(43.8)	(41.7)	(54.7)	(41.1)	+8.4						
(% of Revenues)	30.2	34.4	30.9	37.3	27.9	-						
Marketing and distribution	(15.4)	(16.8)	(17.0)	(23.6)	(15.9)	+3.2						
(% of Revenues)	12.3	13.2	12.6	16.1	10.8	-						
Research and development	(19.2)	(23.1)	(20.8)	(25.8)	(20.9)	+8.9						
(% of Revenues)	15.3	18.1	15.4	17.6	14.2	-						
General and administration	(3.3)	(3.9)	(3.9)	(5.3)	(4.3)	+30.3						
(% of Revenues)	2.6	3.1	2.9	3.6	2.9	-						
Operating profit	26.7	23.5	28.5	24.5	42.8	+60.3						
(% of Revenues)	21.3	18.5	21.1	16.7	29.0	-						
Financing costs	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.0						
Other financial income (expense)	(0.3)	0.1	0.0	0.1	(0.1)	(66.7)						
Other expense	(1.1)	0.7	(0.7)	(0.6)	(0.6)	(45.5)						
Profit before taxes	25.3	24.2	27.8	24.0	42.1	+66.4						
(% of Revenues)	20.2	19.0	20.6	16.4	28.6	-						
Income taxes	(6.3)	(4.4)	(6.9)	(6.9)	(10.9)	+73.0						
Net income	18.9	19.9	20.9	17.1	31.2	+65.1						
(% of Revenues)	15.1	15.6	15.5	11.7	21.2	-						
Attributable to												
Chugai shareholders	18.7	19.6	20.6	16.9	31.0	+65.8						
Non-controlling interests	0.2	0.2	0.2	0.2	0.3	+50.0						
Core earnings per share (diluted) (yen)	34.22	35.89	37.70	30.88	56.52	+65.2						

Reconciliation of IFRS results to Core results

(Billions of yen)

							_	illions of yen)
		FY2	017			FY2	018	
		1-	-3			1-	-3	
	IFRS results	Intangible assets	Others	Core results	IFRS results	Intangible assets	Others	Core results
Revenues	125.5	-	-	125.5	147.4	-	-	147.4
Sales	118.1	_	_	118.1	124.7	_	_	124.7
Royalties and other operating income	7.3	_	1	7.3	22.7	-	ı	22.7
Cost of sales	(61.2)	0.3	1	(60.9)	(63.8)	0.3	ı	(63.5)
Gross profit	64.3	0.3	ı	64.6	83.6	0.3	1	83.9
Operating expenses	(38.0)	0.0	ı	(37.9)	(45.2)	4.1	1	(41.1)
Marketing and distribution	(15.4)	_	1	(15.4)	(15.9)	1	1	(15.9)
Research and development	(19.3)	0.0	-	(19.2)	(25.1)	4.1	-	(20.9)
General and administration	(3.3)	_	_	(3.3)	(4.3)	_	_	(4.3)
Operating profit	26.3	0.3	-	26.7	38.4	4.4	-	42.8
Financing costs	(0.0)	_	I	(0.0)	(0.0)	_	l	(0.0)
Other financial income (expense)	(0.3)	_	I	(0.3)	(0.1)	_	l	(0.1)
Other expense	(1.1)	_	I	(1.1)	(0.6)	_	l	(0.6)
Profit before taxes	25.0	0.3	1	25.3	37.7	4.4	-	42.1
Income taxes	(6.2)	(0.1)	1	(6.3)	(9.5)	(1.4)	1	(10.9)
Net income	18.7	0.2	-	18.9	28.2	3.1	-	31.2
Attributable to			-					
Chugai shareholders	18.5	0.2	_	18.7	27.9	3.1	_	31.0
Non-controlling interests	0.2	-	ı	0.2	0.3	_	ı	0.3

Core results

Chugai discloses its results on a Core basis from 2013 in conjunction with its decision to apply IFRS. Core results are the results after adjusting non-Core items to IFRS results, and are consistent with the Core concept disclosed by Roche. Core results are used by Chugai as an internal performance indicator, for explaining the underlying business performance both internally and externally, and as the basis for payment-by-results such as a return to shareholders.

The table above shows the reconciliation of IFRS results into Core results. The detail is as below.

Intangible assets

Amortization (0.3 billion yen in 2017 and 0.4 billion yen in 2018)

Impairment (none in 2017 and 4.1 billion yen in 2018)

Statements of revenues (YTD)

(Billions of ven)

		1				-									(Billio	ons of yen)
		Actual		Actu	ıal					Act	ual				(Feb 1st ar	
		FY2016		FY20	117					FY2	018				FY20	
		1-12	1-3	1-6	1-9	1-12	1-3	Change	1-6	Change	1-9	Change	1-12	Change	1-12	Change
		YTD	YTD	YTD	YTD	YTD	YTD	(%)	YTD	(%)	YTD	(%)	YTD	(%)	YTD	(%)
Sales		472.7	118.1	236.8	364.8	499.3	124.7	+5.6							498.5	(0.2)
Excl.Tai		459.2	110.8	228.7	354.8	482.4	116.3	+5.0							492.9	+2.2
	nestic	379.7	85.1	183.0	281.0	388.4	84.5	(0.7)							374.8	(3.5)
	Oncology	220.3	49.3	106.3	163.5	225.9	48.6	(1.4)							217.6	(3.7)
	Avastin	92.1	20.5	44.0	67.6	93.1	21.0	+2.4							92.0	(1.2)
	Herceptin	34.1	7.5	16.2	24.6	33.6	6.8	(9.3)							26.6	(20.8)
	Rituxan	32.1	7.0	15.4	24.1	33.4	6.2	(11.4)							23.4	(29.9)
	Alecensa	11.9	3.3	7.4	11.7	16.7	4.0	+21.2							22.7	+35.9
	Perjeta	11.9	2.9	6.3	9.8	13.6	3.2	+10.3							14.6	+7.4
	Xeloda	12.3	2.8	5.9	8.9	12.2	2.8	0.0							12.6	+3.3
	Tarceva	11.5	2.4	5.2	7.7	10.5	1.9	(20.8)							9.8	(6.7)
	Kadcyla	8.3	1.8	3.7	5.8	8.0	1.8	0.0							8.3	+3.8
	Tecentriq	-	-	-	-	-	-	-							3.1	-
	Alaglio	-	-	-	-	0.0	0.1	-							0.7	-
	Zelboraf	0.4	0.0	0.1	0.1	0.1	0.0	0.0							0.1	0.0
	Other products	5.8	1.0	2.2	3.3	4.6	0.8	(20.0)							3.7	(19.6)
E	Bone and joint diseases	86.1	20.4	43.7	67.1	93.3	21.6	+5.9							97.1	+4.1
	Actemra	30.2	7.0	15.2	23.6	33.1	8.0	+14.3							35.2	+6.3
	Edirol	26.7	6.3	13.7	21.1	29.6	7.0	+11.1							31.7	+7.1
	Bonviva	7.3	1.8	4.0	6.2	8.7	2.1	+16.7							9.9	+13.8
	Suvenyl	9.3	1.9	4.2	6.4	8.8	1.7	(10.5)							8.3	(5.7)
	Other products	12.6	3.4	6.6	9.8	13.1	2.9	(14.7)							11.9	(9.2)
F	Renal diseases	41.1	8.3	18.4	28.3	39.3	8.0	(3.6)							35.3	(10.2)
	Mircera	24.2	4.9	11.0	17.2	23.9	4.9	0.0							23.5	(1.7)
	Oxarol	9.1	1.7	3.8	5.9	8.2	1.7	0.0							5.8	(29.3)
	Other products	7.8	1.7	3.5	5.3	7.2	1.4	(17.6)							6.0	(16.7)
	Others	32.2	7.1	14.6	22.0	29.9	6.2	(12.7)							24.8	(17.1)
	CellCept	7.9	1.9	4.1	6.4	8.9	2.0	+5.3							8.5	(4.5)
	Other products	24.3	5.2	10.5	15.7	21.0	4.2	(19.2)							16.3	(22.4)
Ove	rseas	79.5	25.6	45.7	73.8	94.0	31.9	+24.6							118.1	+25.6
	Actemra	60.3	18.0	31.1	48.7	60.9	23.4	+30.0							73.0	+19.9
	To Roche	59.1	17.7	30.4	47.6	59.4	23.0	+29.9							71.4	+20.2
	Alecensa	3.7	3.6	5.5	10.2	13.9	3.8	+5.6						1	26.4	+89.9
	To Roche	3.7	3.6	5.5	10.2	13.9	3.7	+2.8						1	26.3	+89.2
	Neutrogin	12.2	2.9	5.9	9.2	12.3	3.0	+3.4							12.0	(2.4)
	Hemlibra	12.2	_	1.0	2.8	3.1	0.7							1	2.0	(35.5)
	Akynzeo	0.1	0.1	0.1	0.2	0.3	0.1	0.0							0.4	+33.3
	Aloxi	0.2	0.0	0.0	0.1	0.1	0.0	0.0							0.1	0.0
	Other products	3.0	1.1	2.0	2.6	3.5	1.0	(9.1)							4.2	+20.0
Tamiflu		13.5	7.4	8.2	10.0	16.9	8.4	+13.5							5.6	(66.9)
Tallillu	Ordinary use	12.0	6.1	6.3	6.3	11.9	8.3	+36.1							5.0	(58.0)
	Govt. stockpiles etc.	12.0	1.3	1.9	3.7	5.0	0.1	(92.3)						+	0.6	(88.0)
Povalties o	nd other operating income	19.1	7.3	15.9	22.9	34.9	22.7	+211.0							43.0	+23.2
	ind other operating income															1
Revenues		491.8	125.5	252.8	387.6	534.2	147.4	+17.5							541.5	+1.4
Domest		395.1	95.7	196.2	296.5	410.9	110.6	+15.6							400.1	(2.6
Oversea	as	96.6	29.7	56.6	91.1	123.3	36.9	+24.2							141.4	+14.

Tecentriq sales forecast has been individually disclosed from consolidated financial results announcement for the 1st quarter on April 24th 2018. The total sales forecast for this fiscal year is unchanged from the announcement of February 1st 2018.

Domestic

Overseas

		-									(Bill	lions of
		Acti	ual					Act	cual			
		FY20						FY2				
	1-3	4-6	7-9	10-12	1-3	Change	4-6	Change	7-9	Change	10-12	Cha
	QTR	QTR	QTR	QTR	QTR	(%)	QTR	(%)	QTR	(%)	QTR	(1
3	118.1	118.7	127.9	134.5	124.7	+5.6						
kcl.Tamiflu	110.8	117.9	126.1	127.7	116.3	+5.0						
Domestic	85.1	97.9	97.9	107.5	84.5	(0.7)						
Oncology	49.3	57.1	57.2	62.3	48.6	(1.4)						
Avastin	20.5	23.5	23.5	25.6	21.0	+2.4					<u> </u>	
Herceptin	7.5	8.6	8.4	9.0	6.8	(9.3)					<u> </u>	
Rituxan	7.0	8.5	8.7	9.3	6.2	(11.4)						
Alecensa	3.3	4.1	4.4	5.0	4.0	+21.2						
Perjeta	2.9	3.4	3.5	3.8	3.2	+10.3						
Xeloda	2.8	3.1	3.0	3.3	2.8	0.0						
Tarceva	2.4	2.7	2.6	2.8	1.9	(20.8)					<u> </u>	
Kadcyla	1.8	2.0	2.0	2.2	1.8	0.0					<u> </u>	
Tecentriq	_	-	-	-	-	-						
Alaglio	_	-	-	0.0	0.1	-					<u> </u>	
Zelboraf	0.0	0.0	0.0	0.0	0.0	0.0					ļ	
Other products	1.0	1.2	1.2	1.3	0.8	(20.0)						
Bone and joint diseases	20.4	23.2	23.4	26.3	21.6	+5.9						
Actemra	7.0	8.2	8.4	9.5	8.0	+14.3					ļ	
Edirol	6.3	7.4	7.4	8.5	7.0	+11.1					ļ	
Bonviva	1.8	2.2	2.2	2.5	2.1	+16.7					<u> </u>	
Suvenyl	1.9	2.3	2.2	2.4	1.7	(10.5)						
Other products	3.4	3.2	3.2	3.3	2.9	(14.7)						
Renal diseases	8.3	10.1	10.0	11.0	8.0	(3.6)						
Mircera	4.9	6.1	6.2	6.8	4.9	0.0						
Oxarol	1.7	2.1	2.1	2.2	1.7	0.0						
Other products	1.7	1.9	1.7	1.9	1.4	(17.6)						
Others	7.1	7.5	7.4	7.9	6.2	(12.7)						
CellCept	1.9	2.2	2.2	2.5	2.0	+5.3						
Other products	5.2	5.3	5.2	5.4	4.2	(19.2)						
Overseas	25.6	20.0	28.1	20.2	31.9	+24.6						
Actemra	18.0	13.1	17.6	12.2	23.4	+30.0					<u> </u>	
To Roche	17.7	12.7	17.2	11.8	23.0	+29.9						
Alecensa	3.6	1.8	4.8	3.7	3.8	+5.6						
To Roche	3.6	1.8	4.8	3.7	3.7	+2.8						
Neutrogin	2.9	3.1	3.2	3.1	3.0	+3.4						
Hemlibra	_	1.0	1.8	0.3	0.7	-						
Akynzeo	0.1	0.1	0.1	0.1	0.1	0.0						
Aloxi	0.0	0.0	0.0	0.0	0.0	0.0						
Other products	1.1	0.9	0.6	0.8	1.0	(9.1)						
amiflu	7.4	0.8	1.9	6.8	8.4	+13.5						
Ordinary use	6.1	0.2	0.0	5.6	8.3	+36.1						
Govt. stockpiles etc.	1.3	0.6	1.8	1.2	0.1	(92.3)						
Ilties and other operating income	7.3	8.6	6.9	12.0	22.7	+211.0						

125.5

95.7

29.7

127.3

100.5

26.8

134.9

100.3

34.5

146.6

114.4

32.2

147.4

110.6

36.9

+17.5

+15.6

+24.2

Movements of assets and liabilities (Assets, Liabilities, and Net Assets)

(Billions of ven)

	Actual		Act	ual							Actual				(Dillic	ons or yen)
	FY2016		FY2								FY2018					
	Dec. 31	Mar. 31	Jun. 30	Sep. 30	Dec. 31	Mar. 31	vs. Mar. 31, 2017 v	s. Dec. 31, 2017	Jun. 30	vs. Jun. 30, 2017		Sep. 30	vs. Sep. 30, 2017	vs. Dec. 31, 2017	Dec. 31	vs. Dec. 31, 2017
Trade accounts receivable	140.7	125.2	128.9	146.2	148.5	137.1	11.9	(11.4)								
Inventories	185.4	189.5	188.3	177.7	169.1	168.1	(21.4)	(1.0)								
Trade accounts payable	(42.5)	(45.0)	(50.6)	(38.1)	(38.4)	(48.7)	(3.7)	(10.3)								
Other net working capital	(25.2)	(26.3)	(19.6)	(22.1)	(28.4)	(24.7)	1.6	3.7								
Net working capital	258.5	243.3	247.0	263.7	250.7	231.8	(11.5)	(18.9)								
Property, plant and equipment	157.1	163.3	171.3	170.5	171.6	174.6	11.3	3.0								
Intangible assets	19.3	20.3	19.6	21.2	21.1	17.9	(2.4)	(3.2)								
Other long-term assets - net	(3.7)	(3.1)	(2.9)	(3.2)	(3.1)	13.2	16.3	16.3								
Long-term net operating assets	172.7	180.5	188.1	188.4	189.5	205.7	25.2	16.2								
Net operating assets	431.1	423.7	435.0	452.2	440.2	437.5	13.8	(2.7)								
Debt	(0.6)	(0.6)	(0.4)	(0.4)	(0.3)	(0.3)	0.3	0.0								
Marketable securities	110.2	108.4	110.2	110.9	104.0	113.8	5.4	9.8								
Cash and cash equivalents	95.4	103.7	110.7	97.6	139.1	152.8	49.1	13.7								
Net cash	204.9	211.4	220.5	208.1	242.8	266.3	54.9	23.5								
Other non-operating assets - net	10.5	12.6	12.6	14.3	9.9	7.6	(5.0)	(2.3)								
Net non-operating assets	215.4	224.1	233.1	222.4	252.7	273.9	49.8	21.2								
Total net assets	646.5	647.8	668.2	674.6	692.9	711.3	63.5	18.4								
Total net assets																
Total assets	806.3	798.2	821.7	817.9	852.5	852.9	54.7	0.4								
Total liabilities	(159.8)	(150.4)	(153.5)	(143.4)	(159.6)	(141.5)	8.9	18.1								
Attributable to																
Chugai shareholders	645.5	647.0	667.6	673.8	691.9	710.1	63.1	18.2								
Non-controlling interests	1.0	0.8	0.5	8.0	1.0	1.2	0.4	0.2								

Trade accounts receivable: trade receivable and notes receivable

Trade accounts payable: trade payable and notes payable

Other net working capital: accrued receivable (other receivable), accrued payable (other payable), accrued expenses (other current liabilities) etc.

Other long-term assets-net: long-term prepaid expenses, long-term provisions etc.

Other non-operating assets-net: deferred income tax assets, current income tax liabilities etc.

Movements of assets and liabilities:

The consolidated balance sheet has been prepared in accordance with International Accounting Standards (IAS) No. 1, "Presentation of Financial Statements." On the other hand, "Movements of assets and liabilities" including net operating assets (NOA) are a reconfiguration of the consolidated balance sheet as internal indicators and are identical to the indicators disclosed by Roche. Furthermore, no items from the assets and liabilities of IFRS have been excluded, as the Core results concept only applies to the income statement.

Net operating assets (NOA):

Net operating assets allow for an assessment of the Group's operating performance of the business independently from financing and tax activities. Net operating assets are calculated as net working capital, long-term net operating assets that includes property, plant and equipment, intangible assets etc. minus provisions.

IFRS 15 'Revenues from Contracts with Customers'

With the application of IFRS 15 'Revenue from Contracts with Customers,' deferred income of ¥10.6 billion after tax effect, which was included in net working capital and long-term net operating assets at the beginning of the year, has been presented as retained earnings.

Movements of free cash flows

(Billions of yen)

	Actual		Act	cual			Ac	tual	none or you
	FY2016		FY2	017			FY	2018	
	1-12	1-3	1-6	1-9	1-12	1-3	1-6	1-9	1-12
	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD	YTD
Operating profit - IFRS basis	76.9	26.3	47.1	76.2	98.9	38.4			
Depreciation and impairment of property, plant and equipment	14.8	3.6	7.2	10.8	14.6	3.7			
Amortization and impairment of intangible assets	4.0	0.4	3.3	3.8	5.8	4.6			
Other cash adjustment on operating profit	2.8	0.4	(0.7)	(0.4)	1.7	0.4			
Operating profit, net of operating cash adjustments	98.5	30.8	56.9	90.5	121.0	47.1			
(Increase) decrease in trade accounts receivable	(6.4)	15.5	11.9	(5.4)	(7.6)	11.4			
(Increase) decrease in inventories	(26.3)	(4.3)	(0.4)	11.8	21.1	0.5			
Increase (decrease) in trade accounts payable	1.5	2.5	8.1	(4.5)	(4.2)	10.3			
Change in other net working capital etc.	(5.0)	(1.6)	(7.9)	2.5	5.2	(1.7)			
Total (increase) decrease in net working capital etc.	(36.2)	12.2	11.6	4.4	14.5	20.5			
Investment in property, plant and equipment	(30.1)	(5.3)	(17.3)	(29.8)	(32.9)	(9.9)			
Investment in intangible assets	(6.2)	(4.0)	(7.4)	(8.9)	(11.6)	(1.4)			
Operating free cash flow	26.0	33.6	43.8	56.2	91.0	56.3			
as % of revenues	5.3%	26.8%	17.3%	14.5%	17.0%	38.2%			
Treasury activities (interest income/expenses, foreign exchange gains/losses etc.)	3.7	(1.3)	(0.6)	1.3	1.6	3.4			
Settlement for transfer pricing taxation	_	_	(3.9)	(4.6)	(5.2)	(0.6)			
Tax paid	(25.3)	(10.9)	(11.0)	(21.9)	(22.7)	(16.8)			
Free cash flow	4.3	21.4	28.3	31.1	64.7	42.3			
Dividends paid	(32.8)	(14.4)	(14.6)	(30.9)	(31.0)	(17.9)			
Transaction in own equity instruments	0.5	0.3	0.5	0.6	0.9	0.2			
Net effect of currency translation on net cash	(2.6)	(0.7)	1.4	2.5	3.2	(1.0)			
Net change in net cash	(30.5)	6.5	15.6	3.2	37.9	23.5			

Other cash adjustment on operating profit: adjustments for all non-cash income and expense items other than amortization expenses and impairment included in operating profit (such as loss on inventory differences, reserve for doubtful accounts, stock option expenses, loss on asset retirement, and increase/decrease in reserves) as well as all non-operating income and expense cash flows relating to net operating assets (NOA) (including proceeds from the sales of assets and reserve payments

Operating free cash flow(Operating FCF): pretax cash flow after adjusting changes in working capital and operating investments in assets (tangible and intangible) to "operating profit, net of operating cash adjustments," which shows the company's cash generation ability from operating activities.

Free cash flow(FCF): the ability to generate net cash from a management perspective after deducting tax, dividends, and other payments from operating FCF.

Net change in net cash: increases and decreases in marketable securities and interest-bearing debt are included.

The concepts of operating profit, operating FCF and movements of assets and liabilities including NOA presented in the previous page are mutually consistent.

Movements of free cash flows:

The consolidated statement of cash flows has been prepared in accordance with International Accounting Standard (IAS) No. 7, "Statement of Cash Flows." FCF is a reconfiguration of the consolidated statement of cash flows as internal indicators and is identical to the indicators disclosed by Roche. Furthermore, no items from FCF have been excluded, as the Core results concept only applies to the income statement.

Performance indicators

		Actual			tual				tual		Forecast (Feb 1st announced)
		FY2016	FY2017			FY2018			FY2018		
	Units	1-12	1-3	1-6	1-9	1-12	1-3	1-6	1-9 As of Sep. 30	1-12	1-12 As of Dec. 31
Ratio of net income to equity attributable to Chugai shareholders (ROE)	%	8.4	2.9	5.5	8.7	10.9	4.0	As of our. so	Аз 01 Зер. 30	AS 01 Dec. 01	As of Dec. of
Ratio of profit before taxes to total assets (ROA)	%	9.3	3.1	5.7	9.2	11.7	4.4				
Ratio of equity attributable to Chugai shareholders	%	80.1	81.1	81.3	82.4	81.2	83.3				
Equity per share attributable to Chugai shareholders (BPS)	Yen	1,181.67	1,184.11	1,221.41	1,232.55	1,265.46	1,298.53				
Ratio of dividends to equity attributable to Chugai shareholders (DOE)	%	4.5				5.1					
Core return on net operating assets (Core RONOA)	%	13.2	4.5	8.9	13.2	17.4	7.1				
Cash conversion cycle(CCC)	Months	10.5	10.3	10.1	10.3	9.7	8.9				
Net cash turnover period	Months	5.0	5.1	5.2	4.8	5.5	5.4				
Number of employees		7,245	7,224	7,384	7,375	7,372	7,331				
Investment on property, plant and equipment	Billions of yen	19.4	10.0	22.9	27.4	34.3	7.0				79.0
Depreciation	Billions of yen	14.8	3.6	7.2	10.8	14.5	3.7				14.5
Investment on intangible assets	Billions of yen	9.9				8.0					
Amortization	Billions of yen	1.6				1.8					

Core RONOA: Core operating profit / Net operating assets

 ${\tt CCC:} [{\tt Trade\ accounts\ receivable/Sales} + ({\tt Inventories\ -\ Trade\ accounts\ payable})/{\tt Cost\ of\ sales}] * {\tt passed\ months} \\$

Net cash turnover period: Net cash/Revenue* passed months

Ratio of net income to equity attributable to Chugai shareholders (ROE), Ratio of profit before taxes to total assets (ROA), and Core return on net operating assets (Core RONOA) are not annualized.

Development pipeline (as of April 24, 2018)

Development code (Compound number)	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
Oncology				,	•
AF802 / RG7853 (CH5424802/RO5424802)	Non-small cell lung cancer (NSCLC) [1st line] #	Approved (17/11) US Approved (17/12) Europe	alectinib Alecensa Oral	In-house Alecensa (Roche)	ALK inhibitor
RG7446 (MPDL3280A)	NSCLC [2nd line] NSCLC [1st line]	Launched (18/04) Filed	atezolizumab Tecentriq Injection	Roche Tecentriq	Engineered anti-PDL1 monoclonal antibody
	# NSCLC (adjuvant) #	(18/03) Phase III Multinational study	,oodon		
	Small cell lung cancer #	Phase III Multinational study			
	# Muscle invasive urothelial carcinoma	Phase III Multinational study Phase III			
	(adjuvant) # Renal cell carcinoma #	Multinational study Phase III Multinational study			
	Renal cell carcinoma (adjuvant) # Breast cancer	Phase III Multinational study Phase III			
	# Ovarian cancer #	Multinational study Phase III Multinational study			
	Prostate cancer # Hepatocellular carcinoma	Phase III Multinational study Phase III			
	#	Multinational study			
GA101 / RG7159 (RO5072759)	Follicular lymphoma	Filed (17/08)	obinutuzumab Injection	Roche Gazyva/Gazyvaro (EU) (Nippon Shinyaku)	Glycoengineered type II anti-CD20 monoclonal antibody

Development code (Compound number)	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
RG1273	Breast cancer (adjuvant)	Filed	pertuzumab	Roche	HER2 dimerization inhibitory humanized
(RO4368451)	#	(17/10)	Perjeta Injection	Perjeta	monoclonal antibody
RG435	Renal cell carcinoma	Phase III	bevacizumab	Roche	Anti-VEGF (Vascular Endothelial Growth Factor)
(RO4876646)	#	Multinational study	Avastin Injection	Avastin	humanized monoclonal antibody
RG3502	Breast cancer (adjuvant)	Phase III	trastuzumab emtansine	Roche	Anti-HER2 antibody-tubulin polymerization
(RO5304020)	#	Multinational study	Kadcyla Injection	Kadcyla	inhibitor conjugate
RG7440 (GDC-0068)	Prostate cancer	Phase III Multinational study	ipatasertib	Roche/Array BioPharma	AKT inhibitor
	Breast cancer	Phase III Multinational study	Oral		
RG7596 (RO5541077)	Diffuse large B-cell lymphoma (DLBCL)	Phase III Multinational study	polatuzumab vedotin	Roche	Anti-CD79b antibody-drug conjugate
GC33 / RG7686 (GC33/RO5137382)	Hepatocellular carcinoma	Phase I Multinational study*	Injection codrituzumab Injection	In-house (Roche)	Anti-Glypican-3 humanized monoclonal antibody
CKI27 (CKI27)	Solid tumors	Phase I	injoution	In-house	Raf and MEK dual inhibitor
		Phase I Overseas	Oral		
RG7604 (GDC-0032)	Solid tumors	Phase I	taselisib	Roche	PI3K inhibitor
ERY974 (ERY974)	Solid tumors	Phase I Overseas	Oral	In-house	Anti-Glypican-3/CD3 bispecific antibody
			Injection		
RG7421 (GDC-0973)	Solid tumors	Phase I	cobimetinib	Roche/Exelixis Cotellic	MEK inhibitor
RG7802 (RO6958688)	Solid tumors	Phase I	- Orai	Roche	Anti-CEA/CD3 bispecific antibody
			Injection		

Development code (Compound number)	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
RG7828 (RO7030816)	Hematologic tumors	Phase I		Roche	Anti-CD20/CD3 bispecific antibody
			Injection		
Bone and Joint D	<u>liseases</u>				
ED-71	Osteoporosis	Filed	eldecalcitol	In-house	Activated vitamin D ₃ agent
(ED-71)		(18/02)	Edirol		
		China	Oral		
NRD101	Knee osteoarthritis	Phase III	purified sodium hyaluronate	In-house	Sodium hyaluronate
(NRD101)	/Shoulder periarthritis	China	Suvenyl		
			Injection		
Renal Diseases					
EOS789	Hyperphosphatemia	Phase I		In-house	-
(EOS789)		Phase I	-		
		Overseas	Oral		
Autoimmune Dis		Overseas			
MRA / RG1569	Systemic sclerosis	Phase III	tocilizumab	In-house	Humanized anti-human IL-6 receptor monoclonal
(RO4877533)	#	Multinational study	Actemra	Actemra/RoActemra (EU)	antibody
(110 1077 000)	"	material orday	Injection	(Roche)	anabody
SA237 / RG6168	Neuromyelitis optica (NMO)	Phase III	satralizumab	In-house	Anti-IL-6 receptor recycling antibody
(SA237)	rearemyenus epues (curre)	Multinational study*			, and in a cooper recycling and sea,
()		,,	Injection	(Roche)	
RG7845	Rheumatoid arthritis	Phase I	J	Roche	BTK inhibitor
(GDC-0853)					
,			Oral		
Neurology					
RG1450	Alzheimer's disease	Phase III	gantenerumab	Roche/MorphoSys	Anti-amyloid-beta human monoclonal antibody
(RO4909832)		Multinational study			
			Injection		
RG7412	Alzheimer's disease	Phase III	crenezumab	Roche/AC Immune	Anti-amyloid-beta humanized monoclonal
(RO5490245)		Multinational study			antibody
•			Injection		
RG6206	Duchenne muscular dystrophy (DMD)	Phase II/III		Roche/Bristol-Myers Squibb	Anti-myostatin adnectin
(BMS-986089)		Multinational study			
			Injection		

Development code (Compound number)	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
RG7916	Spinal muscular atrophy (SMA)	Phase II		Roche/PTC Therapeutics	SMN2 splicing modifier
(RO7034067)		Multinational study	Oral		
RG7935	Parkinson's disease	Phase I	Orai	Roche/Prothena	Anti-α-synuclein monoclonal antibody
(RO7046015)	1 dikilisoit s disease	i ilase i		Noche/i fotheria	Anti-d-Syndolein Monocional antibody
(Injection		
<u>Others</u>				•	
ACE910 / RG6013	Hemophilia A	Approved	emicizumab	In-house	Anti-FIXa/FX bispecific antibody
(RO5534262)	(Inhibitor)	(17/11)	Hemlibra	Hemlibra	
		US	Injection	(Roche)	
		Approved			
		(18/02)			
		Europe			
		Approved			
		(18/03)			
		Japan			
	Hemophilia A	Phase III			
dob	(Non-inhibitor)	Multinational study			
CIM331**	Pruritus in dialysis patients	Phase II	nemolizumab	In-house	Anti-IL-31 receptor A humanized monoclonal
(CIM331)					antibody
			Injection		
URC102	Gout	Phase II		In-house/JW Pharmaceutical	URAT1 inhibitor
(URC102)		Overseas		(114/15)	
SKY59 / RG6107	Development in a strong of house place in the	Phase I/II	Oral	(JW Pharmaceutical)	Anti OF negrating antihedu.
(RO7112689)	Paroxysmal nocturnal hemoglobinuria (PNH)	Multinational study		In-house	Anti-C5 recycling antibody
(1(07112000)	(TAT)	Matthational Study	Injection	(Roche)	
PCO371	Hypoparathyroidism	Phase I	,	In-house	PTH1 receptor agonist
(PCO371)		Overseas			
,			Oral		
RG7716	Wet age-related macular degeneration /	Phase I		Roche	Anti-VEFG/Ang2 bispecific antibody
(RO6867461)	Diabetic macular edema				
			Injection		
AMY109	Endometriosis	Phase I		In-house	-
			Injection		
			Hyddadii		

Development code (Compound number)	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
RG3637 (RO5490255)	Idiopathic pulmonary fibrosis	Development discontinued	lebrikizumab	Roche	Anti-IL-13 humanized monoclonal antibody
			Injection		

In principle, completion of first dose is regarded as the start of clinical studies in each phase.

Changes from the last announcement on February 1, 2018

Oncology

Approved → Launched (NSCLC (2nd line)) - RG7446

Phase III multinational study → Filed (NSCLC (1st line))

Phase III multinational study (Hepatocellular carcinoma: development started)

- RG7802 Phase I (Solid tumors: development started)

- RG7828 Phase I (Hematologic tumors: development started)

Bone & Joint Diseases

- ED-71 Phase III → Filed [China]

Neurology

- RG7935 Phase I (Parkinson's disease: development started)

Others

- ACE910/RG6013 Filed → Approved (Hemophilia A (inhibitor)) [EU]

Filed → Approved (Hemophilia A (inhibitor)) [Japan]

- AMY109 Phase I (Endometriosis: development started)

- RG3637 Phase II multinational study → Development discontinued (Idiopathic pulmonary fibrosis)

^{*} Multinational studies managed by Chugai

^{**} Development for atopic dermatitis: Out-licensed to Galderma (Overseas) and Maruho (Japan)

R&D Activities (Jan. 1, 2018- Apr. 24, 2018)

Oncology

- We obtained approval for the indication of unresectable advanced or recurrent non-small cell lung cancer (NSCLC), for the engineered anti-PDL1 monoclonal antibody RG7446 in January, 2018 and launched in April. We filed an application for the expected indication of NSCLC (1st line) in March, 2018 and started Phase III multinational study for the expected indication of hepatocellular carcinoma in April, 2018.
- We started Phase III multinational study for the AKT inhibitor RG7440 for the expected indication of breast cancer in January, 2018.
- We started Phase I study for the anti-CEA/CD3 bispecific antibody RG7802 for the expected indication of solid tumors in January, 2018.
- We started Phase I study for the anti-CD20/CD3 bispecific antibody RG7828 for the expected indication of hematologic tumors in March, 2018.

Bone and Joint Diseases

We filed an application for activated vitamin D₃ agent ED-71 for the expected indication of osteoporosis in China in February, 2018.

Neurology

We started Phase I study for the anti-α-synuclein monoclonal antibody for the expected indication of Parkinson's disease in February, 2018.

Others

- We obtained approval for once-weekly subcutaneous injection of ACE910/RG6013 for routine prophylaxis to prevent or reduce the frequency of bleeding episodes in adults and children with hemophilia A (congenital factor VIII deficiency) with factor VIII inhibitors in EU and Japan in February and March, 2018. respectively.
- We started Phase I study for AMY109 for the expected indication of endometriosis in February, 2018.
- We decided to discontinue development of the anti-IL-13 humanized monoclonal antibody RG3637 for Idiopathic pulmonary fibrosis considering the results of Phase II multinational study (RIFF study).

Major clinical trials in oncology field

Treatment	Expected Indication	Study design	Study name	Stage	Planned filing year
RG1273 Perjeta	Breast cancer (adjuvant)	Herceptin + chemotherapy ± Perjeta	APHINITY	Phase III	Filed
RG3502 Kadcyla	Breast cancer (adjuvant)	Kadcyla + Perjeta vs. Herceptin + Perjeta + chemotherapy	KAITLIN	Phase III	2020
GA101/ RG7159 (obinutuzumab)	Follicular lymphoma	GA101 + chemotherapy vs. Rituxan + chemotherapy (G-chemo vs. R-chemo)	GALLIUM	Phase III	Filed
		PD-L1 positive: Tecentriq vs. chemotherapy	IMpower110	Phase III	
		TMB* positive: Tecentriq vs. chemotherapy	B-FAST	Phase II/III	
	Non-small cell lung cancer (NSCLC) [1st line]	Non-squamous: Tecentriq + chemotherapy ± Avastin vs. Chemotherapy + Avastin	IMpower150	Phase III	Flied
		Non-Squamous: Chemotherapy ± Tecentriq	IMpower132	Phase III	
		Squamous: Chemotherapy ± Tecentriq	IMpower131	Phase III	
	NSCLC (adjuvant)	Tecentriq vs. best supportive care	IMpower010	Phase III	2020
	Small cell lung cancer	carboplatin + etoposide ± Tecentriq	IMpower133	Phase III	2019
RG7446	Urothelial carcinoma (UC)	Tecentriq ± chemotherapy vs. chemotherapy	IMvigor130	Phase III	2021 and beyond
(Tecentriq)	Muscle invasive UC (adjuvant)	Tecentriq vs. observation	IMvigor010	Phase III	2020
	Descrit	Triple negative breast cancer: nab-paclitaxel ± Tecentriq	IMpassion130	Phase III	2040
	Breast cancer	Triple negative breast cancer: paclitaxel ± Tecentriq	IMpassion131	Phase III	2018
	Ovarian cancer	carboplatin + paclitaxel + Avastin ± Tecentriq	IMaGYN050	Phase III	2020
	Prostate cancer	Castration-resistant prostate cancer: enzalutamide ± Tecentriq	IMbassador250	Phase III	2021 and beyond
	Hepatocellular carcinoma	Tecentriq + Avastin vs. sorafenib	IMbrave150	Phase III	2021 and beyond
	Renal cell carcinoma (adjuvant)	Tecentriq	IMmotion010	Phase III	2021 and beyond
RG435 Avastin	Renal cell carcinoma	Tecentriq + Avastin vs. sunitinib	IMmotion151	Phase III	2018
RG7440	Prostate cancer	abiraterone ± RG7440	IPATential150	Phase III	2021 and beyond
(ipatasertib)	Breast cancer	Triple negative breast cancer: paclitaxel ± RG7440 HR+ breast cancer: paclitaxel ± RG7440	IPATunity130	Phase III	2020
RG7596 (polatuzumab vedotin)	DLBCL	Chemotherapy ± RG7596	POLARIX	Phase III	2021 and beyond

^{*} TMB: tumor mutational burden

Clinical trials for cancer immunotherapy

Cancer type	Target	Treatment	Study name	Stage
Non-small cell lung cancer	PD-L1 positive, 1st line	Tecentriq	Study name IMpower110 B-FAST IMpower150 IMpower132 IMpower131 IMpower010 IMpower133 IMvigor130 IMvigor010 IMpassion130 IMpassion131 IMmotion151 IMmotion010 IMaGYN050 IMbassador250 IMbrave150 —	Phase III
	TMB positive, 1st line	Tecentriq	B-FAST	Phase II/III
	Non-Squamous, 1st line	Tecentriq + chemotherapy + Avastin	IMpower150	Phase III
	Non-Squamous, 1st line	Tecentriq + chemotherapy	IMpower132	Phase III
	Squamous, 1st line	Tecentriq + chemotherapy	IMpower131	Phase III
	Adjuvant	Tecentriq	IMpower010	Phase III
Small cell lung cancer	1st line	Tecentriq + chemotherapy	IMpower133	Phase III
Urothelial carcinoma	1st line	Tecentriq ± chemotherapy	IMvigor130	Phase III
	Muscle invasive carcinoma, adjuvant	Tecentriq	IMvigor010	Phase III
_	The second of Addition	T	IMpassion130	Phase III
Breast cancer	Triple negative, 1st line	Tecentriq + chemotherapy	IMpassion131	Phase III
B l II	1st line	Tecentriq + Avastin	IMmotion151	Phase III
Renal cell carcinoma	Adjuvant	Tecentriq	IMmotion010	Phase III
Ovarian cancer	1st line	Tecentriq + chemotherapy + Avastin	IMaGYN050	Phase III
Prostate cancer	Castration-resistant, 2nd line	Tecentriq + chemotherapy	IMbassador250	Phase III
Hepatocellular carcinoma	_	Tecentriq + Avastin	IMbrave150	Phase III
	Glypican-3 positive	GC33 (codrituzumab) + Tecentriq	_	Phase I
Solid tumors	Glypican-3 positive	ERY974	_	Phase I
	-	RG7421 (cobimetinib) + Tecentriq	_	Phase I
	CEA positive	RG7802	_	Phase I
Hematologic tumors	CD20 positive	RG7828	_	Phase I