# Supplementary Materials for Consolidated Financial Results for the 1st Quarter of Fiscal Year 2019. 12 (IFRS)

Innovation all for the patients



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- 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
  - 2. Amounts shown in this report are rounded to the nearest 0.1 billion yen. Variance and % are calculated based on the amounts shown.
  - 3. Exchange rates used for each period are as follows.

**QTR** (Yen)

<u> </u>								, ,
		Acti	ual*			Act	ual*	
		FY2	018			FY2	2019	
	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	114.33	110.77	113.32	113.33	110.52			
EUR	133.17	130.06	129.66	128.72	125.17			
USD	108.40	109.08	111.47	112.84	110.18			
SGD	82.16	81.78	81.51	82.04	81.32			

\*Market average exchange rate

# YTD

<u> </u>										
	Actual*		Act	ual*			Act	:ual*		Assumption
	FY2017		FY2	018			FY2	2019		FY2019
	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	113.90	114.33	112.52	112.79	112.92	110.52				114.00
EUR	126.39	133.17	131.59	130.93	130.36	125.17				128.00
USD	112.17	108.40	108.74	109.65	110.45	110.18				111.00
SGD	81.22	82.16	81.97	81.81	81.87	81.32				82.00

\*Market average exchange rate

# Period-end

I CITOU CITU									
	Actual*		Actı	ıal*			Act	ual*	
	FY2017		FY2	018			FY2	2019	
	31 Dec.	31 Mar.	30 Jun.	30 Sep.	31 Dec.	31 Mar.	30 Jun.	30 Sep.	31 Dec.
CHF	115.35	111.67	110.78	116.01	112.03	111.11			
EUR	134.82	131.49	127.83	131.98	126.13	124.15			
USD	112.89	106.83	110.50	113.38	110.28	110.64			
SGD	84.39	81.43	80.79	82.88	80.70	81.56			

### Reconciliation of IFRS results to Core results

(Billions of yen)

								illions of yen)
		FY2	018			FY2	019	
		1-	-3			1-	-3	
	IFRS results	Intangible assets	Others	Core results	IFRS results	Intangible assets	Others	Core results
Revenues	147.4	-	-	147.4	154.3	_	-	154.3
Sales	124.7	_	_	124.7	137.7	_	_	137.7
Royalties and other operating income	22.7	_	_	22.7	16.6	_	_	16.6
Cost of sales	(63.8)	0.3	_	(63.5)	(63.9)	0.2	_	(63.7)
Gross profit	83.6	0.3	_	83.9	90.4	0.2	-	90.6
Operating expenses	(45.2)	4.1	_	(41.1)	(44.3)	1.6	_	(42.7)
Marketing and distribution	(15.9)	_	_	(15.9)	(15.4)	_	_	(15.4)
Research and development	(25.1)	4.1	_	(20.9)	(25.1)	1.6	_	(23.6)
General and administration	(4.3)	_	_	(4.3)	(3.7)	_	_	(3.7)
Operating profit	38.4	4.4	_	42.8	46.1	1.8	_	47.9
Financing costs	(0.0)	_	_	(0.0)	(0.0)	_	_	(0.0)
Other financial income (expense)	(0.1)	-	_	(0.1)	0.2	_	_	0.2
Other expense	(0.6)	_	_	(0.6)	(8.0)	_	_	(0.8)
Profit before taxes	37.7	4.4	_	42.1	45.4	1.8	_	47.2
Income taxes	(9.5)	(1.4)	_	(10.9)	(10.4)	(0.5)	_	(10.9)
Net income	28.2	3.1	-	31.2	35.0	1.2	-	36.3
Attributable to								
Chugai shareholders	27.9	3.1	_	31.0	35.0	1.2		36.3
Non-controlling interests	0.3	-	_	0.3	_	_	_	_

### Core results

Chugai discloses its results on a Core basis from 2013 in conjunction with its transition to IFRS. Core results are the results after adjusting non-recurring items recognized by Chugai 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 status of recurring profits both internally and externally, and as the basis for payment-by-results.

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

Intangible assets

Amortization (0.4 billion yen in 2018 and 0.3 billion yen in 2019) Impairment (4.1 billion yen in 2018 and 1.5 billion yen in 2019)

# IFRS results (QTR)

(Billions of yen)

	T		Α .	1					A -			(Dillioi	is of yen)
	-		Acti FY20						Act FY2				
		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	(%)
Reve	nues	147.4	137.7	141.3	153.3	154.3	+4.7						
S	ales	124.7	130.8	133.1	139.1	137.7	+10.4						
	Domestic	92.9	98.3	99.6	109.1	99.3	+6.9						
	Overseas	31.9	32.6	33.5	30.0	38.4	+20.4						
R	oyalties and other operating income	22.7	6.8	8.2	14.2	16.6	(26.9)						
	Royalty and profit-sharing income	5.0	5.1	5.7	8.3	13.7	+174.0						
	Other operating income	17.7	1.8	2.5	5.9	2.9	(83.6)						
Cost	of sales	(63.8)	(65.2)	(65.9)	(67.8)	(63.9)	+0.2						
	(% of Sales)	51.2	49.8	49.5	48.7	46.4	-						
Gros	s profit	83.6	72.5	75.4	85.5	90.4	+8.1						
	(% of Revenues)	56.7	52.7	53.4	55.8	58.6	-						
Oper	ating expenses	(45.2)	(44.2)	(44.0)	(59.1)	(44.3)	(2.0)						
	(% of Revenues)	30.7	32.1	31.1	38.6	28.7	-						
М	arketing and distribution	(15.9)	(17.3)	(17.2)	(23.3)	(15.4)	(3.1)						
	(% of Revenues)	10.8	12.6	12.2	15.2	10.0	-						
R	esearch and development	(25.1)	(23.5)	(22.3)	(28.3)	(25.1)	0.0						
	(% of Revenues)	17.0	17.1	15.8	18.5	16.3	-						
G	eneral and administration	(4.3)	(3.5)	(4.4)	(7.5)	(3.7)	(14.0)						
	(% of Revenues)	2.9	2.5	3.1	4.9	2.4	-						
Oper	ating profit	38.4	28.2	31.3	26.4	46.1	+20.1						
	(% of Revenues)	26.1	20.5	22.2	17.2	29.9	-						
	nancing costs	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.0						
	ther financial income (expense)	(0.1)	0.1	(0.1)	0.5	0.2	-						
	ther expense	(0.6)	(0.9)	(0.6)	(1.1)	(8.0)	+33.3						
Profi	t before taxes	37.7	27.3	30.6	25.8	45.4	+20.4						
	(% of Revenues)	25.6	19.8	21.7	16.8	29.4	-						
	ne taxes	(9.5)	(6.4)	(8.8)	(3.6)	(10.4)	+9.5						
Net i	ncome	28.2	20.9	21.8	22.2	35.0	+24.1						
	(% of Revenues)	19.1	15.2	15.4	14.5	22.7	_						
Attril	outable to												
С	hugai shareholders	27.9	20.8	21.7	22.1	35.0	+25.4						
N	on-controlling interests	0.3	0.1	0.2	0.1	=	_						
Earni	ngs per share												
В	asic (yen)	51.00	38.00	39.60	40.48	64.01	+25.5						
D	iluted (yen)	50.91	37.94	39.54	40.41	63.91	+25.5						

Other financial income (expense) includes net amount of FX related gains/losses.

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.

<sup>&</sup>quot;Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

# IFRS results (YTD)

(Billions of yen)

1-12 YTD	Change (%)
YTD	(%)
	1
	1
	1
	1
	1
	1
	1
	+

Other financial income (expense) includes net amount of FX related gains/losses.

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.
"Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

# Core results (QTR)

(Billions of yen)

		Acti	ual					Act	ual		\Dimoi	is or yen,
		FY20						FY2				
	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	147.4	137.7	141.3	153.3	154.3	+4.7						
Sales	124.7	130.8	133.1	139.1	137.7	+10.4						
Domestic	92.9	98.3	99.6	109.1	99.3	+6.9						
Overseas	31.9	32.6	33.5	30.0	38.4	+20.4						
Royalties and other operating income	22.7	6.8	8.2	14.2	16.6	(26.9)						
Royalty and profit-sharing income	5.0	5.1	5.7	8.3	13.7	+174.0						
Other operating income	17.7	1.8	2.5	5.9	2.9	(83.6)						
Cost of sales	(63.5)	(65.1)	(65.7)	(67.6)	(63.7)	+0.3						
(% of Sales	50.9	49.8	49.4	48.6	46.3	-						
Gross profit	83.9	72.6	75.6	85.8	90.6	+8.0						
(% of Revenues	56.9	52.7	53.5	56.0	58.7	-						
Operating expenses	(41.1)	(43.8)	(44.0)	(58.7)	(42.7)	+3.9						
(% of Revenues	27.9	31.8	31.1	38.3	27.7	-						
Marketing and distribution	(15.9)	(17.3)	(17.2)	(23.3)	(15.4)	(3.1)						
(% of Revenues	10.8	12.6	12.2	15.2	10.0	-						
Research and development	(20.9)	(23.0)	(22.3)	(27.9)	(23.6)	+12.9						
(% of Revenues	14.2	16.7	15.8	18.2	15.3	-						
General and administration	(4.3)	(3.5)	(4.4)	(7.5)	(3.7)	(14.0)						
(% of Revenues	2.9	2.5	3.1	4.9	2.4	-						
Operating profit	42.8	28.8	31.6	27.1	47.9	+11.9						
(% of Revenues	29.0	20.9	22.4	17.7	31.0	-						
Financing costs	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.0						
Other financial income (expense)	(0.1)	0.1	(0.1)	0.5	0.2	_						
Other expense	(0.6)	(0.9)	(0.6)	(1.1)	(0.8)	+33.3						
Profit before taxes	42.1	28.0	30.9	26.5	47.2	+12.1						
(% of Revenues	28.6	20.3	21.9	17.3	30.6	-						
Income taxes	(10.9)	(6.6)	(8.9)	(3.8)	(10.9)	0.0						
Net income	31.2	21.3	22.0	22.7	36.3	+16.3						
(% of Revenues	21.2	15.5	15.6	14.8	23.5	_						
Attributable to												
Chugai shareholders	31.0	21.2	21.8	22.6	36.3	+17.1						
Non-controlling interests	0.3	0.1	0.2	0.1	_	-						
Core earnings per share (diluted) (yen)	56.52	38.75	39.87	41.28	66.15	+17.0						

Please see page 1 "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. Other financial income (expense) includes net amount of FX related gains/losses.

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.

<sup>&</sup>quot;Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

# Core results (YTD)

					_									(Billion:	s of yen)
	Actual		Act	ual					Actu	ıal				Forec (Jan 3 announ	1st
	FY2017		FY2	018					FY20	19				FY20	19
	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	(%)
Revenues	534.2	147.4	285.1	426.4	579.8	154.3	+4.7							592.5	+2.2
Sales	499.3	124.7	255.6	388.7	527.8	137.7	+10.4							528.0	0.0
Domestic	405.3	92.9	191.1	290.8	399.9	99.3	+6.9							389.1	(2.7)
Overseas	94.0	31.9	64.5	97.9	127.9	38.4	+20.4							138.9	+8.6
Royalties and other operating income	34.9	22.7	29.5	37.7	51.9	16.6	(26.9)							64.5	+24.3
Royalty and profit-sharing income	17.2	5.0	10.1	15.8	24.1	13.7	+174.0							53.5	+122.0
Other operating income	17.7	17.7	19.5	21.9	27.9	2.9	(83.6)							11.0	(60.6)
Cost of sales	(252.9)	(63.5)	(128.6)	(194.3)	(261.9)	(63.7)	+0.3							(252.5)	(3.6)
(% of Sales)	50.7	50.9	50.3	50.0	49.6	46.3	_							47.8	_
Gross profit	281.3	83.9	156.6	232.1	317.9	90.6	+8.0							340.0	+7.0
(% of Revenues)	52.7	56.9	54.9	54.4	54.8	58.7	_							57.4	_
Operating expenses	(178.1)	(41.1)	(84.9)	(128.9)	(187.6)	(42.7)	+3.9							(197.0)	+5.0
(% of Revenues)	33.3	27.9	29.8	30.2	32.4	27.7	_							33.2	_
Marketing and distribution	(72.8)	(15.9)	(33.2)	(50.4)	(73.7)	(15.4)	(3.1)								
(% of Revenues)	13.6	10.8	11.6	11.8	12.7	10.0	_								
Research and development	(88.9)	(20.9)	(44.0)	(66.3)	(94.2)	(23.6)	+12.9							(102.0)	+8.3
(% of Revenues)	16.6	14.2	15.4	15.5	16.2	15.3	_							17.2	-
General and administration	(16.3)	(4.3)	(7.8)	(12.2)	(19.7)	(3.7)	(14.0)								
(% of Revenues)	3.1	2.9	2.7	2.9	3.4	2.4	_								
Operating profit	103.2	42.8	71.6	103.3	130.3	47.9	+11.9							143.0	+9.7
(% of Revenues)	19.3	29.0	25.1	24.2	22.5	31.0	-							24.1	_
Financing costs	(0.1)	(0.0)	(0.1)	(0.1)	(0.1)	(0.0)	0.0								
Other financial income (expense)	(0.1)	(0.1)	0.0	(0.1)	0.4	0.2	_								
Other expense	(1.7)	(0.6)	(1.5)	(2.1)	(3.2)	(8.0)	+33.3								
Profit before taxes	101.3	42.1	70.1	101.0	127.5	47.2	+12.1								
(% of Revenues)	19.0	28.6	24.6	23.7	22.0	30.6	-								
Income taxes	(24.5)	(10.9)	(17.5)	(26.4)	(30.2)	(10.9)	0.0								
Net income	76.7	31.2	52.6	74.6	97.3	36.3	+16.3								
(% of Revenues)	14.4	21.2	18.4	17.5	16.8	23.5	-								
Attributable to															
Chugai shareholders	75.9	31.0	52.2	74.0	96.7	36.3	+17.1								
Non-controlling interests	0.8	0.3	0.4	0.5	0.6	- 50.0									
Weighted average number of shares in issue used to calculate d		548	548	548	548	548	0.0								
Core earnings per share (diluted) (yen)	138.68	56.52	95.27	135.14	176.42	66.15	+17.0							198.00	+12.2
Core payout ratio (%)	44.7	00.02	30.27	100.14	48.7	00.10								48.5	- 12.2
Dividend per share (Full year) (yen)	62				86									96	
Dividend per share (Half year) (yen)	29				31									48	+ _
Dividend her share (Hall Year) (Yell)	23				JΙ									40	

Please see page 1 "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. Other financial income (expense) includes net amount of FX related gains/losses.

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.

<sup>&</sup>quot;Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

# Statements of revenues (QTR)

(Billions of yen)

		Actu	al					Acti	ual		(Billion	is of yen,
		FY20	18					FY20	019			
	1-3 QTR	4-6 QTR	7-9 QTR	10-12 QTR	1-3 QTR	Change (%)	4-6 QTR	Change (%)	7-9 QTR	Change (%)	10-12 QTR	Change (%)
ales	124.7	130.8	133.1	139.1	137.7	+10.4						
Domestic	92.9	98.3	99.6	109.1	99.3	+6.9						
Oncology	48.6	57.0	57.7	62.3	52.0	+7.0						
Avastin	21.0	24.4	24.1	26.1	21.4	+1.9						
Alecensa	4.0	5.4	5.3	5.9	4.9	+22.5						
Herceptin	6.8	7.0	6.8	7.5	6.2	(8.8)						
Perjeta	3.2	3.8	3.9	5.2	5.6	+75.0						
Rituxan	6.2	5.7	5.2	4.2	3.1	(50.0)						
Tecentriq	_	1.7	3.3	4.1	3.7	-						
Xeloda	2.8	3.3	3.1	3.3	2.4	(14.3)						
Kadcyla	1.8	2.2	2.2	2.3	2.0	+11.1						
Tarceva	1.9	2.5	2.1	1.8	1.2	(36.8)						
Gazyva	_	-	0.1	0.5	0.6	-						
Alaglio	0.1	0.1	0.1	0.1	0.1	0.0						
Other products	0.8	1.0	1.4	1.4	0.9	+12.5						
Bone and joint diseases	21.6	25.4	25.4	28.0	24.2	+12.0						
Actemra	8.0	9.6	9.8	10.7	9.0	+12.5						
Edirol	7.0	8.2	8.3	9.4	8.0	+14.3						
Bonviva	2.1	2.4	2.3	2.6	2.3	+9.5						
Suvenyl	1.7	2.0	1.9	2.1	1.7	0.0						
Other products	2.9	3.1	3.1	3.2	3.2	+10.3						
Renal diseases	8.0	9.0	9.3	10.0	7.9	(1.3)						
Mircera	4.9	5.8	5.9	6.5	5.0	+2.0						
Oxarol	1.7	1.8	1.8	2.0	1.6	(5.9)						
Other products	1.4	1.4	1.5	1.5	1.3	(7.1)						
Others	14.6	6.8	7.3	8.7	15.2	+4.1						
Hemlibra	_	0.5	1.0	1.5	2.7	-						
CellCept	2.0	2.3	2.2	2.4	2.2	+10.0						
Tamiflu(Ordinary use)	8.3	0.0	0.0	1.8	4.7	(43.4)						
Tamiflu(Govt. stockpiles etc.)	0.1	-	0.4	_	3.2	+3,100.0						
Other products	4.2	4.0	3.6	3.0	2.5	(40.5)						
Overseas	31.9	32.6	33.5	30.0	38.4	+20.4						
Actemra	23.4	21.5	19.6	16.1	25.3	+8.1						
To Roche	23.0	21.0	19.1	15.6	24.9	+8.3						
Alecensa	3.8	6.5	9.3	10.0	8.4	+121.1						
To Roche	3.7	6.3	9.1	9.8	8.2	+121.6						1
Neutrogin	3.0	2.7	3.0	2.4	2.5	(16.7)						
Hemlibra	0.7	0.5	0.8	0.4	0.7	0.0						1
Other products	1.0	1.4	0.8	1.1	1.4	+40.0						
oyalties and other operating income	22.7	6.8	8.2	14.2	16.6	(26.9)						
Royalty and profit-sharing income	5.0	5.1	5.7	8.3	13.7	+174.0						
Other operating income	17.7	1.8	2.5	5.9	2.9	(83.6)						
evenues	147.4	137.7	141.3	153.3	154.3	+4.7						
Domestic	110.6	99.8	102.1	109.0	99.3	(10.2)						
Overseas	36.9	37.9	39.2	44.3	55.0	+49.1						

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.

<sup>&</sup>quot;Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

# Statements of revenues (YTD)

		Actual		Actu	ıal					Acti	ual				(Billions Foreca (Jan 3	
		FY2017		FY20						FY20					annound FY20	ced)
		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		499.3	124.7	255.6	388.7	527.8	137.7	+10.4							528.0	0.0
Domesti	ic	405.3	92.9	191.1	290.8	399.9	99.3	+6.9							389.1	(2.7)
Onco	ology	225.9	48.6	105.7	163.3	225.7	52.0	+7.0							215.9	(4.3)
	Avastin	93.1	21.0	45.4	69.5	95.6	21.4	+1.9							89.4	(6.5)
A	Alecensa	16.7	4.0	9.4	14.7	20.6	4.9	+22.5							25.1	+21.8
F	lerceptin erceptin	33.6	6.8	13.8	20.6	28.1	6.2	(8.8)							24.0	(14.6)
F	Perjeta	13.6	3.2	7.0	11.0	16.1	5.6	+75.0							21.2	+31.7
F	Rituxan	33.4	6.2	11.9	17.0	21.3	3.1	(50.0)							13.5	(36.6)
T	ecentriq	-	-	1.7	5.0	9.1	3.7	-							13.1	+44.0
Х	(eloda	12.2	2.8	6.1	9.2	12.5	2.4	(14.3)							9.4	(24.8)
K	(adcyla	8.0	1.8	4.0	6.2	8.5	2.0	+11.1							9.1	+7.1
T	arceva	10.5	1.9	4.4	6.5	8.3	1.2	(36.8)							5.6	(32.5)
C	azyva	-	-	-	0.1	0.6	0.6	-							1.8	+200.0
A	Alaglio	0.0	0.1	0.1	0.2	0.3	0.1	0.0							0.4	+33.3
С	Other products	4.7	0.8	1.8	3.3	4.7	0.9	+12.5							3.3	(29.8)
Bone	e and joint diseases	93.3	21.6	47.0	72.4	100.5	24.2	+12.0							103.1	+2.6
	Actemra	33.1	8.0	17.7	27.4	38.2	9.0	+12.5							38.2	0.0
E	dirol	29.6	7.0	15.2	23.4	32.9	8.0	+14.3							35.3	+7.3
E	Bonviva	8.7	2.1	4.4	6.8	9.4	2.3	+9.5							10.9	+16.0
S	Suvenyl	8.8	1.7	3.7	5.7	7.8	1.7	0.0							6.1	(21.8)
C	Other products	13.1	2.9	6.0	9.1	12.3	3.2	+10.3							12.6	+2.4
	al diseases	39.3	8.0	17.0	26.3	36.3	7.9	(1.3)							31.8	(12.4)
N	Mircera	23.9	4.9	10.6	16.6	23.1	5.0	+2.0							20.5	(11.3)
	Oxarol	8.2	1.7	3.5	5.3	7.3	1.6	(5.9)							5.9	(19.2)
С	Other products	7.2	1.4	2.8	4.3	5.9	1.3	(7.1)							5.3	(10.2)
Othe	ers	46.8	14.6	21.5	28.8	37.5	15.2	+4.1							38.3	+2.1
	lemlibra	-	_	0.5	1.5	3.0	2.7	_							12.9	+330.0
C	CellCept	8.9	2.0	4.3	6.6	9.0	2.2	+10.0							9.0	0.0
	amiflu(Ordinary use)	11.9	8.3	8.3	8.3	10.1	4.7	(43.4)							3.4	(66.3)
	amiflu(Govt. stockpiles etc.)	5.0	0.1	0.1	0.5	0.5	3.2								3.2	+540.0
	Other products	21.0	4.2	8.2	11.9	14.9	2.5	(40.5)							9.8	(34.2)
Oversea	·	94.0	31.9	64.5	97.9	127.9	38.4	+20.4							138.9	+8.6
	Actemra	60.9	23.4	44.9	64.4	80.6	25.3	+8.1							84.6	+5.0
	To Roche	59.4	23.0	44.1	63.1	78.7	24.9	+8.3							82.7	+5.1
<u> </u>	Alecensa	13.9	3.8	10.3	19.5	29.5	8.4	+121.1							36.6	+24.1
	To Roche	13.9	3.7	10.0	19.1	28.9	8.2	+121.6							36.0	+24.6
N	Veutrogin	12.3	3.0	5.7	8.7	11.1	2.5	(16.7)							9.5	(14.4)
	Hemlibra	3.1	0.7	1.2	2.0	2.3	0.7	0.0							2.4	+4.3
	Other products	3.9	1.0	2.4	3.3	4.4	1.4	+40.0							5.8	+31.8
	nd other operating income	34.9	22.7	29.5	37.7	51.9	16.6	(26.9)							64.5	+24.3
	y and profit-sharing income	17.2	5.0	10.1	15.8	24.1	13.7	+174.0							53.5	+122.0
	operating income	17.7	17.7	19.5	21.9	27.9	2.9	(83.6)							11.0	(60.6)
	, 5							+4.7								
Revenues	:-	534.2	147.4	285.1	426.4	579.8	154.3								592.5	+2.2
Domesti Oversea		410.9 123.3	110.6 36.9	210.3 74.8	312.5 114.0	421.5 158.3	99.3 55.0	(10.2) +49.1							390.9 201.6	(7.3) +27.4

<sup>&</sup>quot;Sales of Tamiful", which was disclosed separately up to FY 2018, is included in "Sales of Domestic" from the first quarter in FY 2019.

<sup>&</sup>quot;Royalties and other operating income" is disclosed separately as "Royalty and profit-sharing income" and "Other operating income" from the first quarter in FY 2019.

### Financial position

(Billions of yen)

	Actual		Actı	ual						Actual				
	FY2017		FY20	18						FY2019				
	Dec. 31	Mar. 31	Jun. 30	Sep. 30	Dec. 31	Mar. 31	vs. Mar. 31, 2018	vs. Dec. 31, 2018	Jun. 30	vs. Jun. 30, 2018 vs. Dec. 31, 2018	Sep. 30	vs. Sep. 30, 2018 vs. Dec. 31, 2018	Dec. 31	vs. Dec. 31, 2018
Trade accounts receivable	148.5	137.1	140.6	145.7	150.8	149.6	12.5	(1.2)						
Inventories	169.1	168.1	170.0	163.8	159.4	168.7	0.6	9.3						
Trade accounts payable	(38.4)	(48.7)	(46.2)	(42.3)	(35.9)	(54.9)	(6.2)	(19.0)						
Other net working capital	(28.4)	(24.7)	(18.2)	(28.7)	(39.1)	(19.1)	5.6	20.0						
Net working capital	250.7	231.8	246.3	238.5	235.1	244.3	12.5	9.2						
Property, plant and equipment	171.6	174.6	179.2	187.6	222.4	222.1	47.5	(0.3)						
Right-of-use assets	-	-	-	-	_	12.5	12.5	12.5						
Intangible assets	21.1	17.9	18.1	19.8	22.7	21.9	4.0	(8.0)						
Other long-term assets - net	(3.1)	13.2	12.4	16.9	25.1	27.9	14.7	2.8						
Long-term net operating assets	189.5	205.7	209.6	224.3	270.1	284.3	78.6	14.2						
Net operating assets	440.2	437.5	455.9	462.7	505.3	528.6	91.1	23.3						
Debt	(0.3)	(0.3)	(0.3)	(0.2)	(0.2)	-	0.3	0.2						
Marketable securities	104.0	113.8	119.9	122.9	102.5	111.5	(2.3)	9.0						
Cash and cash equivalents	139.1	152.8	154.6	146.0	146.9	125.8	(27.0)	(21.1)						
Net cash	242.8	266.3	274.2	268.6	249.2	237.4	(28.9)	(11.8)						
Other non-operating assets - net	9.9	7.6	1.5	8.3	2.1	(5.5)	(13.1)	(7.6)						
Net non-operating assets	252.7	273.9	275.7	276.9	251.3	231.8	(42.1)	(19.5)						
Total net assets	692.9	711.3	731.7	739.6	756.5	760.5	49.2	4.0						
Total net assets														
Total assets	852.5	852.9	873.3	890.8	919.5	932.2	79.3	12.7						
Total liabilities	(159.6)	(141.5)	(141.7)	(151.2)	(163.0)	(171.8)	(30.3)	(8.8)						
Attributable to														
Chugai shareholders	691.9	710.1	731.2	739.0	755.9	760.5	50.4	4.6						
Non-controlling interests	1.0	1.2	0.5	0.7	0.7	_	(1.2)	(0.7)						

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.

### Net operating assets (NOA) and Net assets:

The consolidated balance sheet has been prepared in accordance with International Accounting Standards (IAS) No. 1, "Presentation of Financial Statements." On the other hand, Net operating assets (NOA) and Net assets are a reconfiguration of the consolidated balance sheet as internal indicators and are identical to the indicators disclosed by Roche. Furthermore, no items from Net operating assets (NOA) and Net assets 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, right-of-use assets, intangible assets etc. minus provisions.

### IFRS16 'Leases'

From the first quarter of the fiscal year ended 31 December 2019, the Group has implemented IFRS 16 'Leases'. As a result, leased assets, including right-of-use asset, lease receivable and so on totalling ¥ 15.2 billion and lease liabilities totaling ¥ 14.6 billion have been recorded on the balance sheet, effective 1 January 2019.

### Cash flows

(Billions of yen)

	Actual		Acti	ual			Ac	tual	oillions of yen,
	FY2017		FY20	018			FY:	2019	
	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	98.9	38.4	66.6	97.9	124.3	46.1			
Depreciation and impairment of property, plant and equipment	14.6	3.7	7.4	11.1	14.6	3.7			
Depreciation and impairment of right-of-use assets	-	_	_	_	_	1.5			
Amortization and impairment of intangible assets	5.8	4.6	5.5	5.9	6.8	2.1			
Other cash adjustment on operating profit	1.7	0.4	1.0	1.5	1.6	0.8			
Operating profit, net of operating cash adjustments	121.0	47.1	80.4	116.4	147.4	54.1			
(Increase) decrease in trade accounts receivable	(7.6)	11.4	7.8	2.8	(2.4)	1.2			
(Increase) decrease in inventories	21.1	0.5	(1.9)	4.5	14.2	(9.5)			
Increase (decrease) in trade accounts payable	(4.2)	10.3	7.8	3.9	(2.4)	18.9			
Change in other net working capital etc.	5.2	(1.7)	(10.8)	(8.5)	(4.8)	(13.2)			
Total (increase) decrease in net working capital etc.	14.5	20.5	2.9	2.7	4.5	(2.5)			
Investment in property, plant and equipment	(32.9)	(9.9)	(15.1)	(23.8)	(71.8)	(7.4)			
Lease liabilities paid	-	_	-	-	_	(2.2)			
Investment in intangible assets	(11.6)	(1.4)	(2.4)	(4.6)	(5.9)	(3.8)			
Operating free cash flows	91.0	56.3	65.9	90.7	74.3	38.3			
as % of revenues	17.0%	38.2%	23.1%	21.3%	12.8%	24.8%			
Treasury activities (interest income/expenses, foreign exchange gains/losses etc.)	1.6	3.4	3.7	3.4	4.3	0.1			
Settlement for transfer pricing taxation	(5.2)	(0.6)	(1.5)	(2.1)	(3.2)	(8.0)			
Tax paid	(22.7)	(16.8)	(17.1)	(31.3)	(31.6)	(17.8)			
Free cash flows	64.7	42.3	50.9	60.7	43.7	19.7			
Dividends paid	(31.0)	(17.9)	(18.0)	(34.9)	(35.8)	(29.9)			
Transaction in own equity instruments	0.9	0.2	0.5	0.9	1.0	0.2			
Purchase of non-controlling interests	-	_	_	_	_	(1.7)			
Net effect of currency translation on net cash	3.2	(1.0)	(2.0)	(8.0)	(2.5)	(0.2)			
Net change in net cash	37.9	23.5	31.4	25.8	6.4	(11.8)			

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: dividends paid, increases and decreases in marketable securities and interest-bearing debt, changes in equity are included.

The concepts of operating profit, operating FCF and Net operating assets (NOA) presented in the previous page are mutually consistent. IFRS16 'Leases'

From the first quarter of the fiscal year ended 31 December 2019, the Group has implemented IFRS 16 'Leases'. As a result, cash flows in respect of leases previously reported as operating leases are reported as part of cash flows from financing activities.

### Free cash flow (FCF):

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.

# **Key Performance indicators**

		Actual		Ac	tual			Act	tual		Forecast (Jan 31st announced)
		2017		20	)18			20	19		2019
		1-12	1-3	1-6	1-9	1-12	1-3	1-6	1-9	1-12	1-12
	Units	As of Dec. 31	As of Mar. 31	As of Jun. 30	As of Sep. 30	As of Dec. 31	As of Mar. 31	As of Jun. 30	As of Sep. 30	As of Dec. 31	As of Dec. 31
Total indicator											
Core return on invested capital (Core ROIC)	%	18.1	7.3	12.1	17.0	21.2	7.0				
Return on invested capital (ROIC)	%	17.3	6.6	11.3	16.2	20.3	6.8				
Ratio of profit to total assets (ROA)	%	8.9	3.3	5.7	8.1	10.5	3.8				
Ratio of equity attributable to	%	81.2	83.3	83.7	83.0	82.2	81.6				
Chugai shareholders											
Ratio of equity attributable to Chugai shareholders (stock price base)	%	370.1	345.0	364.0	448.4	379.7	446.8				
Price book value ratio (PBR)	times	4.6	4.1	4.3	5.4	4.6	5.5				
Ratio of net income to equity attributable to	%	10.9	4.0	6.8	9.8	12.8	4.6				
Chugai shareholders (ROE)	/0	10.9	4.0	0.0	9.0	12.0	4.0				
Margin indicator	,		ī	T		I			I	I	
ROS	%	19.3	29.0	25.1	24.2	22.5	31.0				24.1
COS ratio(vs. Prod. sales)	%	50.7	50.9	50.3	50.0	49.6	46.3				47.8
M&D cost ratio	%	13.6	10.8	11.6	11.8	12.7	10.0				
R&D cost ratio	%	16.6	14.2	15.4	15.5	16.2	15.3				17.2
G&A cost ratio	%	3.1	2.9	2.7	2.9	3.4	2.4				
Turn over indicator											
Total asset turnorver	%	64.4	17.3	33.0	48.9	65.4	16.5				
Working capital turnover	%	122.6	33.6	63.6	94.5	122.6	29.4				
Inventory turnover	Months	8.0	7.9	7.9	7.6	7.3	7.9				
Receivables turnover	Months	3.6	3.3	3.3	3.4	3.4	3.3				
Payables turnover	Months	1.8	2.3	2.1	2.0	1.6	2.6				
Fixed asset turnover	%	289.5	76.6	146.3	213.2	264.9	59.7				
PP&E turnover	%	325.1	85.2	162.6	237.5	294.3	69.4				
intangible assets turnover	%	2,646.1	757.4	1,456.3	2,087.5	2,648.9	692.3				
Dividend / per stock indicator											
Dividends per share (Half year)	Yen	29				31					48
Dividends per share (Full year)	Yen	62		ı	T	86			ı	,	96
Core earnings per share (diluted)	Yen	138.68	56.52	95.27	135.14	176.42	66.15				198.00
Core payout ratio (%)	%	44.7		ı	1	48.7		1	T.		48.5
Equity per share attributable	Yen	1,265.46	1,298.53	1,336.49	1,350.49	1,381.26	1,389.44				
to Chugai shareholders (BPS)		.,	,,	.,	.,	.,	.,				
Ratio of dividends to equity attributable to Chugai shareholders (DOE)	%	5.1				6.5					
Cashflow indicator											
Cash conversion cycle (CCC)	Months	9.7	8.9	9.1	9.0	9.1	8.6				
Net cash turnover period	Months	5.5	5.4	5.8	5.7	5.2	4.6				
Number of employees		7,372	7,331	7,490	7,475	7,432	7,411				
Investment on property, plant and equipment	Billions	34.3	7,331	14.5	27.9	7,432	3.7				56.0
	of yen Billions										
Depreciation	of yen	14.5	3.7	7.4	11.0	14.6	3.7				15.0
Investment on intangible assets	Billions of yen	8.0	1.4	2.5	4.6	8.5	1.2				
Amortization	Billions of yen	1.8	0.5	1.0	1.5	2.0	0.6				

Core ROIC: Core net operting profit after taxes / Net operating assets (Core ROIC is calculated by using Core Income taxes)

 $ROIC: \ Net \ operating \ profit \ after \ taxes \ / \ Net \ operating \ assets \ (Net \ operating \ profit \ after \ taxes \ = \ Operating \ profit \ - \ income \ taxes)$ 

ROA: Net income / total assets

ROE: Net income attributable for Chugai shareholders / Equity attributable to Chugai shareholders

Total asset turnorver: Revenues / Total asset

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

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

Core ROIC, ROIC, ROA, ROE, total asset turnover, working capital turnover, fixed asset turnover, PP&E turnover, and intangible assets turnover are not annualized

As a result of IFRS 16 'Leases' implementation, leased assets, including right-of-use asset, lease receivable and so on totalling ¥ 15.2 billion and lease liabilities

totaling ¥ 14.6 billion have been recorded on the balance sheet, effective 1 January 2019. The leased assets are included in NOA culculation.

The Adjusted figures are used for calculating average NOA for Core ROIC and ROIC

# **Development pipeline (as of January 31, 2019)**

Development code	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
<u>Oncology</u>				<u>,                                      </u>	
RG7446	Non-small cell lung cancer (NSCLC) [1st line] #	Approved (18/12)	atezolizumab Tecentriq	Roche Tecentriq	Engineered anti-PDL1 monoclonal antibody
	Small cell lung cancer #	Filed (18/12)	Injection		
	Breast cancer	Filed			
	# NSCLC (adjuvant) #	(18/12) Phase III Multinational study			
	Urothelial carcinoma #	Phase III Multinational study			
	Muscle invasive urothelial carcinoma (adjuvant) #	Phase III Multinational study			
	Renal cell carcinoma #	Phase III  Multinational study			
	Renal cell carcinoma (adjuvant) #	Phase III Multinational study			
	Early breast cancer #	Phase III  Multinational study			
	Ovarian cancer #	Phase III  Multinational study			
	Prostate cancer #	Phase III  Multinational study			
	Hepatocellular carcinoma #	Phase III  Multinational study			
	Head and neck carcinoma (adjuvant) #	Phase III  Multinational study			
RG6268	Solid tumors [NTRK fusion-positive]	Filed (18/12)	entrectinib	Roche/Nerviano Medical Sciences	ROS1/TRK inhibitor
	NSCLC	Filed (19/03)	Oral		
RG435	Renal cell carcinoma #	Phase III Multinational study	bevacizumab Avastin	Roche Avastin	Anti-VEGF (Vascular Endothelial Growth Factor) humanized monoclonal antibody

Development code	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
	Hepatocellular carcinoma	Phase III	Injection		
	#	Multinational study			
RG3502	Breast cancer (adjuvant)	Phase III	trastuzumab emtansine	Roche	Anti-HER2 antibody-tubulin polymerization
	#	Multinational study	Kadcyla	Kadcyla	inhibitor conjugate
			Injection		
RG7440	Prostate cancer	Phase III	ipatasertib	Roche/Array BioPharma	AKT inhibitor
		Multinational study			
	Breast cancer	Phase III	Oral		
		Multinational study			
RG7596	Diffuse large B-cell lymphoma	Phase III	polatuzumab vedotin	Roche	Anti-CD79b antibody-drug conjugate
	(DLBCL)	Multinational study			
		,	Injection		
RG6264	Breast cancer	Phase III	trastuzumab/pertuzumab	Roche	Anti-HER2 humanized monoclonal antibody/
	(Fixed-dose combination, subcutaneous	Multinational study	Herceptin/Perjeta	Herceptin/Perjeta	HER2 dimerization inhibitory humanized
	injection)		Injection	, ,	monoclonal antibody
AF802 / RG7853	NSCLC (adjuvant)	Phase III	alectinib	In-house	ALK inhibitor
	#	Multinational study	Alecensa	Alecensa	
		,	Oral	(Roche)	
GC33	Hepatocellular carcinoma	Phase I	codrituzumab	In-house	Anti-Glypican-3 humanized monoclonal antibody
		Multinational study*			
			Injection		
CKI27	Solid tumors	Phase I		In-house	Raf and MEK dual inhibitor
			Oral		
ERY974	Solid tumors	Phase I		In-house	Anti-Glypican-3/CD3 bispecific antibody
			Injection		
RG7421	Solid tumors	Phase I	cobimetinib	Roche/Exelixis	MEK inhibitor
				Cotellic	
			Oral		
RG7802	Solid tumors	Phase I	cibisatamab	Roche	Anti-CEA/CD3 bispecific antibody
			Injection		
RG7828	Hematologic tumors	Phase I	mosunetuzumab	Roche	Anti-CD20/CD3 bispecific antibody
			Injection		

Development code	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
Bone and Joint D	<u>Diseases</u>				
ED-71	Osteoporosis	Filed (18/02) China	eldecalcitol Edirol Oral	In-house	Activated vitamin D₃ agent
NRD101	Knee osteoarthritis /Shoulder periarthritis	Phase III China	purified sodium hyaluronate Suvenyl Injection	In-house	Sodium hyaluronate
Renal Diseases					,
EOS789	Hyperphosphatemia	Phase I		In-house	-
			Oral		
Autoimmune Dis	<u>eases</u>				
MRA / RG1569	Systemic sclerosis #	Phase III Multinational study	tocilizumab Actemra Injection	In-house Actemra/RoActemra (EU) (Roche)	Humanized anti-human IL-6 receptor monoclonal antibody
RG7845	Rheumatoid arthritis	Phase I	fenebrutinib	Roche	BTK inhibitor
Neurology			Oral		
RG1450	Alzheimer's disease	Phase III Multinational study	gantenerumab  Injection	Roche/MorphoSys	Anti-amyloid-beta human monoclonal antibody
SA237 / RG6168	Neuromyelitis optica spectrum disorder (NMOSD)	Phase III Multinational study*	satralizumab	In-house	Anti-IL-6 receptor recycling antibody
RG6042	Huntington's disease	Phase III Multinational study	Injection Injection	(Roche)  Roche/Ionis Pharmaceuticals	Antisense oligonucleotide targeting HTT mRNA
RG6206	Duchenne muscular dystrophy (DMD)	Phase II/III Multinational study	Injection	Roche/Bristol-Myers Squibb	Anti-myostatin adnectin
RG7916	Spinal muscular atrophy (SMA)	Phase II/III Multinational study	risdiplam Oral	Roche/PTC Therapeutics	SMN2 splicing modifier

Development code	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
RG7935	Parkinson's disease	Phase I	prasinezumab	Roche/Prothena	Anti-α-synuclein monoclonal antibody
			Injection		
GYM329 / RG6237	Neuromuscular disease	Phase I		In-house	-
			Injection	(Roche)	
RG7906	Psychiatric disorders	Phase I		Roche	-
			Oral		
RG6100	Alzheimer's disease	Phase I		Roche/AC Immune	Anti-tau humanized monoclonal antibody
			injection		
RG7412	Alzheimer's disease	Development discontinued	crenezumab	Roche/AC Immune	Anti-amyloid-beta humanized monoclonal antibody
			Injection		
Other diseases					
ACE910 / RG6013	Hemophilia A (Non-inhibitor) #	Approved (18/12) Japan	emicizumab Hemlibra Injection	In-house Hemlibra (Roche)	Anti-FIXa/FX bispecific antibody
		Approved (19/03) Europe			
RG7716	Diabetic macular edema	Phase III  Multinational study	faricimab	Roche	Anti-VEGF/Ang2 bispecific antibody
	Wet age-related macular degeneration	Phase III  Multinational study	Injection		
CIM331**	Pruritus in dialysis patients	Phase II	nemolizumab	In-house	Anti-IL-31 receptor A humanized monoclonal antibody
			Injection		·
SKY59 / RG6107	Paroxysmal nocturnal hemoglobinuria (PNH)	Phase I/II Multinational study	crovalimab	In-house	Anti-C5 recycling antibody
			Injection	(Roche)	
PCO371	Hypoparathyroidism	Phase I		In-house	PTH1 receptor agonist
			Oral		
AMY109	Endometriosis	Phase I		In-house	_

Development code	Indication # Additional indication	Stage (Date)	Generic name Product name Dosage form	Origin Overseas name (Collaborator)	Mode of Action
			Injection		

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

<sup>\*</sup> Multinational studies managed by Chugai

<sup>\*\*</sup> Development for atopic dermatitis: Out-licensed to Galderma (Overseas) and Maruho (Japan)

# Changes from the last announcement on January 31, 2019

### Oncology

- RG6268 Phase II multinational study → Filed (NSCLC)

### Neurology

Phase III multinational study (Huntington's disease : development started) - RG6042

Phase I (Alzheimer's disease : development started) - RG6100

- RG7412 Phase III multinational study (Alzheimer's disease) → Development discontinued

### Other diseases

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

Phase I (Wet age-related macular degeneration) → Phase III multinational study - RG7716/faricimab

### **R&D** Activities

For the changes during the first guarter of FY2019 (January 1 – March 31), please refer to page 4 of "CONSOLIDATED FINANCIAL STATEMENTS (IFRS) (Non-Audited) (for the first quarter of the fiscal year 2019)."

Changes from April 1 to 24, 2019 are as follows:

# Neurology

- We started Phase I study for the anti-tau humanized monoclonal antibody RG6100 for the expected indication of Alzheimer's disease in April, 2019.
- We decided to discontinue the development of the anti-amyloid-beta humanized monoclonal antibody RG7412 for Alzheimer's disease in consideration of the results of Phase III multinational studies (CREAD1 and CREAD2 study).

# Major clinical trials in oncology field

Treatment	Expected Indication	Study design	Study name	Stage	Planned filing year	
RG3502, Kadcyla	Breast cancer (adjuvant)	Kadcyla + Perjeta vs. Herceptin + Perjeta + chemo	KAITLIN	Phase III	2020	
		PD-L1 positive: Tecentriq vs. chemo	IMpower110	Phase III		
	Non-small cell lung cancer	TMB* positive: Tecentriq vs. chemo	B-FAST	Phase II/III	-	
	(NSCLC) [1st line]	Non-Squamous: Chemo ± Tecentriq	IMpower132	Phase III		
		Squamous: Chemo ± 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	Filed	
	Urothelial carcinoma (UC)	Tecentriq ± chemo vs. chemo	IMvigor130	Phase III	2021	
	Muscle invasive UC (adjuvant)	Tecentriq vs. observation	IMvigor010	Phase III	2020	
	Renal cell carcinoma	Tecentriq + Avastin vs. sunitinib	IMmotion151	Phase III	2020	
RG7446 (Tecentrig)	Renal cell carcinoma (adjuvant)	Tecentriq	IMmotion010	Phase III	2022 and beyond	
(Tecentriq)	Draget agrees	TNBC**: nab-paclitaxel ± Tecentriq	IMpassion130	Phase III	Filed	
	Breast cancer	TNBC: paclitaxel ± Tecentriq IMpassion131 Phase		Phase III	Filed	
	Early breast cancer	TNBC (adjuvant): paclitaxel ± Tecentriq	IMpassion030	Phase III	2021	
		TNBC (neoadjuvant): nab-paclitaxel ± Tecentriq	IMpassion031	Phase III		
		HER2+BC (neoadjuvant): Herceptin + Perjeta + chemo ± Tecentriq	IMpassion050	Phase III		
	Ovarian cancer	carboplatin + paclitaxel + Avastin ± Tecentriq	IMaGYN050	Phase III	2020	
	Prostate cancer	Castration-resistant prostate cancer: enzalutamide ± Tecentriq	IMbassador250	Phase III	2021	
	Hepatocellular carcinoma	Tecentriq + Avastin vs. sorafenib	IMbrave150	Phase III	2021	
	Head and neck carcinoma (adjuvant)	Tecentriq	IMvoke010	Phase III	2021	
D07440	Prostate cancer	abiraterone ± RG7440	IPATential150	Phase III	2021	
RG7440 (ipatasertib)	Breast cancer	TNBC: paclitaxel ± RG7440 HR+ breast cancer: paclitaxel ± RG7440	IPATunity130	Phase III	2020	
RG7596 polatuzumab vedotin)	DLBCL	Chemo ± RG7596	POLARIX	Phase III	2021	
RG6264***	Breast cancer	RG6264 (SC) + chemo vs. Herceptin (IV) + Perjeta (IV) + chemo	FeDeriCa	Phase III	2021	
RG6268	Solid tumors	NTRK fusion-positive solid tumors: RG6268	CTA DTDI/O	Dhana II	Filed	
(entrectinib)	NSCLC	ROS1 fusion-positive NSCLC: RG6268	STARTRK2	Phase II	Filed	
AF802, Alecensa	NSCLC (adjuvant)	ALK fusion-positive NSCLC: Alecensa vs. chemo	ALINA	Phase III	2022 and beyond	

<sup>\*</sup> TMB: tumor mutational burden

<sup>\*\*</sup> TNBC: triple negative breast cancer

<sup>\*\*\*</sup> Fixed-dose combination, subcutaneous injection