Better Health, Brighter Future

FY2019 DATABOOK

Takeda Pharmaceutical Company Limited (TSE code 4502)

Contact: Global Finance, IR
TEL: +81-3-3278-2306
https://www.takeda.com/

Quarterly Announcements / Presentations
https://www.takeda.com/investors/reports/

Forward-Looking Statements

This document and any materials distributed in connection with this document may contain forward-looking statements, beliefs or opinions regarding Takeda's future business, future position and results of operations, including estimates, forecasts, targets and plans for Takeda. Without limitation, forward-looking statements often include words such as "targets", "plans", "believes", "hopes", "continues", "expects", "aims", "intends", "ensures", "will", "may", "should", "would", "could" "anticipates", "estimates", "projects" or similar expressions or the negative thereof. These forward-looking statements are based on assumptions about many important factors, including the following, which could cause actual results to differ materially from those expressed or implied by the forward-looking statements: the economic circumstances surrounding Takeda's global business, including general economic conditions in Japan and the United States; competitive pressures and developments; changes to applicable laws and regulations; the success of or failure of product development programs; decisions of regulatory authorities and the timing thereof; fluctuations in interest and currency exchange rates; claims or concerns regarding the safety or efficacy of marketed products or product candidates; the impact of health crises, like the novel coronavirus pandemic, on Takeda and its customers and suppliers, including foreign governments in countries in which Takeda operates, or on other facets of its business; the timing and impact of post-merger integration efforts with acquired companies; the ability to divest assets that are not core to Takeda's operations and the timing of any such divestment(s); and other factors identified in Takeda's most recent Annual Report on Form 20-F and Takeda's other reports filed with the U.S. Securities and Exchange Commission, available on Takeda's website at: https://www.takeda.com/investors/reports/sec-filings/ or at www.sec.gov. Takeda does not undertake to update any of the forward-looking statements contained in this document or any other forward-looking statements it may make, except as required by law or stock exchange rule. Past performance is not an indicator of future results and the results or statements of Takeda in this document may not be indicative of, and are not an estimate, forecast, guarantee or projection of Takeda's future results.

Contents

1. Revenue by Region

■Year To Date

(Bn JPY)	Reported FY18	Reported FY19	YOY		Underlying YOY
Total revenue	2,097.2	3,291.2	1,194.0	56.9%	1.6%
Japan	571.0	592.8	21.8	3.8%	-3.3%
% of revenue	27.2%	18.0%	-9.2pt		
United States	829.0	1,595.9	766.9	92.5%	1.0%
% of revenue	39.5%	48.5%	9.0pt		
Europe and Canada	405.6	645.5	239.9	59.1%	1.7%
% of revenue	19.3%	19.6%	0.3pt		
Growth and Emerging Markets	291.6	456.9	165.3	56.7%	10.0%
% of revenue	13.9%	13.9%	-0.0pt		
Russia/CIS	59.7	76.8	17.1	28.6%	5.9%
% of revenue	2.8%	2.3%	-0.5pt		
Latin America	88.1	143.5	55.3	62.8%	12.9%
% of revenue	4.2%	4.4%	0.2pt		
Asia	105.4	165.4	60.0	56.9%	16.4%
% of revenue	5.0%	5.0%	-0.0pt		
Other	38.3	71.3	32.9	86.0%	-3.5%
% of revenue	1.8%	2.2%	0.3pt		
Of which royalty / service income	71.0	87.0	16.1	22.7%	

*1 Revenue amount is classified into countries or regions based on the customer location.

*2 Other region includes Middle East, Oceania and Africa.

1. Revenue by Region (continued)

◆**Quarterly**

	Reported											
	FY18				FY19							
(Bn JPY)	Q1	Q2	Q3	Q4	Q1	YOY	Q2	YOY	Q3	YOY	Q4	YOY
Total revenue	449.8	430.8	499.4	717.2	849.1	88.8%	811.0	88.3%	859.3	72.1%	771.7	7.6%
Japan	144.3	130.0	169.8	127.0	152.3	5.6%	147.1	13.2%	168.0	-1.1%	125.4	-1.2%
% of revenue	32.1%	30.2%	34.0%	17.7%	17.9%		18.1%		19.5%		16.2%	
United States	161.1	160.0	174.3	333.6	415.7	158.0%	390.2	143.9%	409.8	135.2%	380.3	14.0%
% of revenue	35.8%	37.1%	34.9%	46.5%	49.0%		48.1%		47.7%		49.3%	
Europe and Canada	79.1	79.5	86.3	160.8	165.2	108.8%	156.6	97.0%	161.7	87.4%	162.0	0.8%
% of revenue	17.6%	18.5%	17.3%	22.4%	19.5%		19.3%		18.8%		21.0%	
Growth and Emerging Markets	65.4	61.3	69.1	95.8	115.9	77.3%	117.2	91.0%	119.8	73.5%	104.1	8.6%
% of revenue	14.5%	14.2%	13.8%	13.4%	13.6%		14.4%		13.9%		13.5%	
Russia/CIS	14.1	13.4	16.8	15.4	19.0	34.6%	17.9	33.7%	22.4	33.1%	17.6	13.7%
% of revenue	3.1%	3.1%	3.4%	2.2%	2.2%		2.2%		2.6%		2.3%	
Latin America	18.5	16.2	19.8	33.6	37.4	102.2%	38.4	137.3%	35.9	81.2%	31.7	-5.6%
% of revenue	4.1%	3.8%	4.0%	4.7%	4.4%		4.7%		4.2%		4.1%	
Asia	26.9	25.0	24.0	29.6	41.0	52.4%	42.9	71.5%	43.4	81.3%	38.1	28.9%
% of revenue	6.0%	5.8%	4.8%	4.1%	4.8%		5.3%		5.1%		4.9%	
Other	5.8	6.8	8.5	17.2	18.5	216.7%	18.0	165.9%	18.1	113.6%	16.7	-3.2%
% of revenue	1.3%	1.6%	1.7%	2.4%	2.2%		2.2%		2.1%		2.2%	
Of which royalty / service income	13.0	11.9	21.7	24.4	27.1	108.5%	20.0	68.6%	19.0	-12.4%	20.9	-14.3%

*1 Revenue amount is classified into countries or regions based on the customer location. *2 Other region includes Middle East, Oceania and Africa.

2. Product Sales Analysis (vs PY Reported Actual)

(Sales amount includes royalty income and service income)

■Year To Date

(Bn JPY)	Reported FY18	Reported FY19	Reported YOY	US	YOY	Japan	YOY	EUCAN	YOY	GEM*3	YOY	Ex-US	YOY
GI	**539.3**	**697.9**	**29.4%**	**408.2**	**40.0%**	**79.3**	**27.0%**	**135.5**	**12.5%**	**60.1**	**-1.6%**	**14.8**	**297.9%**
Entyvio	269.2	347.2	29.0%	239.3	31.2%	6.1	467.5%	87.9	15.8%	13.9	42.7%		
Dexilant	69.2	62.8	-9.2%	42.6	-14.5%			7.8	6.9%	12.4	2.5%		
Pantoprazole	61.6	49.5	-19.7%	3.0	-32.3%			23.4	-16.9%	23.1	-20.6%		
Takecab-F	58.2	72.7	24.8%			72.1	24.2%			0.6	204.9%		
Gattex/Revestive	12.8	61.8	384.7%	53.2	386.4%			8.1	370.7%	0.6	432.2%		
Pentasa	4.7	25.6	442.9%	25.6	442.9%								
Lialda/Mezavan *1	3.3	23.4	609.4%	8.6	-							14.8	297.9%
Amitiza	33.0	28.1	-14.7%	27.8	-15.3%			0.0	-96.1%	0.3	420.2%		
Resolor/Motegrity	0.7	6.6	830.4%	3.4	-			3.1	355.8%	0.2	350.3%		
Other	26.6	20.2	-24.0%	4.8	-30.3%	1.1	-66.7%	5.3	-20.5%	9.0	-7.2%		
Rare Metabolic	**42.3**	**170.8**	**303.8%**	**47.0**	**210.4%**	**3.1**	**957.9%**	**42.5**	**328.8%**	**27.0**	**388.8%**	**51.3**	**348.1%**
Elaprase	15.1	67.9	350.3%	20.0	328.0%	1.6	-	25.1	321.3%	21.2	372.1%		
Replagal *1	11.4	51.3	348.1%									51.3	348.1%
Vpriv	8.7	38.0	337.5%	16.3	319.0%	1.5	339.0%	14.5	319.2%	5.8	472.0%		
Natpara	7.1	13.6	92.2%	10.7	62.5%			2.9	490.4%	0.1	155.2%		
Rare Hematology	**66.7**	**334.2**	**401.1%**	**140.3**	**401.8%**	**26.9**	**307.2%**	**83.7**	**309.8%**	**83.3**	**611.5%**		
Advate	32.1	157.9	391.8%	70.1	410.9%	7.1	229.8%	43.1	267.0%	37.6	738.4%		
Adynovate	10.7	58.7	446.3%	29.3	439.6%	14.7	324.4%	11.4	512.0%	3.2	-		
FEIBA *2	9.6	51.5	434.7%	10.7	330.1%	1.6	367.3%	13.8	279.6%	25.3	703.9%		
Hemofil/Immunate/ Immunine *2	5.5	22.3	304.5%	4.5	250.4%			5.7	419.2%	12.2	286.7%		
Other PDT Products *2	0.5	3.7	679.0%	0.0	-			3.1	646.8%	0.6	720.2%		
Other	8.2	40.2	387.9%	25.7	408.7%	3.3	449.4%	6.7	296.4%	4.4	402.4%		
Hereditary Angioedema	**20.4**	**129.8**	**535.9%**	**104.5**	**586.5%**	**0.8**	**670.0%**	**21.2**	**402.9%**	**3.3**	**277.9%**		
Firazyr	6.4	32.7	409.1%	19.5	438.0%	0.8	670.0%	9.3	383.6%	3.0	296.2%		
Takhzyro	9.7	68.3	601.8%	63.3	582.6%			4.9	977.8%	0.1	-		
Kalbitor	1.2	4.5	289.2%	4.5	289.1%			0.0	-				
Cinryze *2	3.1	24.3	684.4%	17.1	1,390.6%			7.0	281.0%	0.2	105.8%		

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

■Year To Date

(Bn JPY)	Reported FY18	Reported FY19	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
PDT Immunology	**93.5**	**394.2**	**321.7%**	**260.5**	**370.1%**							**133.6**	**251.1%**
Immunoglobulin *2	73.5	298.7	306.6%	224.5	373.6%							74.2	184.7%
Albumin *2	12.3	67.2	446.5%	14.4	261.9%							52.9	534.4%
Other *2	7.7	28.3	266.0%	21.7	436.2%							6.6	79.2%
Oncology	**399.4**	**421.0**	**5.4%**	**217.8**	**6.2%**	**76.1**	**9.4%**	**68.1**	**4.3%**	**45.4**	**33.3%**	**13.5**	**-46.9%**
Velcade *1	127.9	118.3	-7.5%	108.8	2.9%							9.6	-57.0%
Leuprorelin	110.1	109.0	-0.9%	22.2	-1.2%	40.7	2.4%	29.4	-12.3%	16.7	16.7%		
Ninlaro	62.2	77.6	24.7%	53.2	14.1%	4.8	15.7%	11.9	37.1%	7.6	186.5%		
Adcetris	42.9	52.7	22.8%			8.0	56.2%	24.0	11.6%	20.1	23.7%		
Iclusig *1	28.7	31.8	10.8%	27.8	9.4%							4.0	21.6%
Alunbrig	5.2	7.2	39.2%	5.2	9.3%			1.6	387.5%	0.4	411.2%		
Vectibix	20.5	22.5	10.1%			22.5	10.1%						
Other	2.0	1.8	-13.8%	-0.0	-			1.2	-1.4%	0.6	-26.3%		
Neuroscience	**154.7**	**438.5**	**183.5%**	**343.8**	**199.7%**	**40.6**	**42.9%**	**47.5**	**372.1%**	**6.6**	**348.8%**		
Vyvanse	49.4	274.1	455.3%	236.0	468.8%	0.4	-	31.4	377.2%	6.3	388.6%		
Trintellix	57.6	70.7	22.8%	70.2	22.0%	0.4	-						
Adderall XR	5.4	24.3	349.7%	22.7	358.3%			1.6	257.2%				
Rozerem	19.1	14.5	-24.3%	3.4	-63.8%	11.0	14.2%			0.1	111.9%		
Reminyl	16.7	17.3	4.1%			17.3	3.9%	0.0	281.4%				
Intuniv	1.3	14.6	990.6%	0.8	-	6.2	862.1%	7.5	375.2%	0.2	96.0%		
Other	5.3	23.1	338.9%	10.8	377.1%	5.3	249.7%	6.9	382.8%	0.1	20.2%		
Other	**780.9**	**704.7**	**-9.8%**										
Azilva	70.8	76.7	8.5%			76.7	8.5%						
Nesina	54.8	58.0	5.8%	6.7	21.3%	27.8	-0.7%	11.3	2.4%	12.2	18.6%		
Uloric	51.1	16.9	-66.9%	16.0	-68.1%			0.4	-44.5%	0.5	71.3%		
Colcrys	30.0	22.5	-25.1%	22.5	-25.1%								
Enbrel	35.2	29.3	-16.9%			29.3	-16.9%						
Lotriga	30.9	31.8	2.9%			31.8	2.9%						

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

*4 Reminyl sales in Japan include royalty income from the partner.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

2. Product Sales Analysis (vs PY Reported Actual)

(Sales amount includes royalty income and service income)

◆Quarterly

(Bn JPY)	Reported FY18Q1	Reported FY19Q1	Reported YOY	US	YOY	Japan	YOY	EUCAN	YOY	GEM*3	YOY	Ex-US	YOY
GI	**124.0**	**171.6**	**38.4%**	**101.3**	**51.7%**	**19.9**	**31.2%**	**31.9**	**14.4%**	**14.7**	**2.8%**	**3.9**	**-**
Entyvio	61.3	83.9	36.9%	59.1	40.9%	1.0	-	20.6	19.7%	3.2	47.5%		
Dexilant	17.4	15.8	-9.0%	10.9	-16.1%			1.8	8.5%	3.1	14.0%		
Pantoprazole	16.2	11.6	-28.5%	0.3	-84.9%			5.3	-26.8%	6.0	-14.4%		
Takecab-F	14.3	18.3	28.1%			18.2	27.7%			0.1	335.0%		
Gattex/Revestive		15.1	-	13.0	-			2.0	-	0.1	-		
Pentasa		6.5	-	6.5	-								
Lialda/Mezavan *1		5.6	-	1.7	-							3.9	-
Amitiza	7.9	7.8	-0.7%	7.7	-1.4%			0.0	-88.1%	0.1	3,129.6%		
Resolor/Motegrity		1.4	-	0.5	-			0.8	-	0.0	-		
Other	7.0	5.6	-19.4%	1.6	-22.9%	0.6	-27.8%	1.4	-20.3%	2.1	-12.4%		
Rare Metabolic		**48.9**	**-**	**16.0**	**-**	**0.8**	**-**	**10.9**	**-**	**8.2**	**-**	**12.9**	**-**
Elaprase		18.8	-	4.9	-	0.4	-	6.5	-	7.0	-		
Replagal *1		12.9	-									12.9	-
Vpriv		9.3	-	4.0	-	0.4	-	3.8	-	1.1	-		
Natpara		7.9	-	7.1	-			0.7	-	0.0	-		
Rare Hematology		**89.9**	**-**	**36.2**	**-**	**7.1**	**-**	**22.7**	**-**	**23.9**	**-**		
Advate		42.7	-	17.7	-	2.1	-	12.5	-	10.5	-		
Adynovate		16.7	-	7.6	-	3.8	-	2.4	-	2.8	-		
FEIBA *2		13.1	-	2.7	-	0.4	-	4.1	-	5.8	-		
Hemofil/Immunate/ Immunine *2		6.6	-	1.3	-			1.7	-	3.5	-		
Other PDT Products *2		0.6	-	0.0	-			0.4	-	0.2	-		
Other		10.3	-	7.0	-	0.8	-	1.5	-	1.1	-		
Hereditary Angioedema		**31.9**	**-**	**26.2**	**-**	**0.1**	**-**	**4.8**	**-**	**0.7**	**-**		
Firazyr		9.0	-	5.9	-	0.1	-	2.3	-	0.6	-		
Takhzyro		14.5	-	13.7	-			0.8	-				
Kalbitor		1.1	-	1.1	-								
Cinryze *2		7.3	-	5.6	-			1.7	-	0.0	-		

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

◆Quarterly

(Bn JPY)	Reported FY18Q1	Reported FY19Q1	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
PDT Immunology	**4.2**	**90.2**	**2,072.7%**	**57.4**	**-**							**32.7**	**688.4%**
Immunoglobulin *2	3.1	68.0	2,100.7%	48.0	-							20.0	546.5%
Albumin *2	0.4	16.1	3,811.9%	4.3	-							11.9	2,777.3%
Other *2	0.6	6.0	831.5%	5.2	-							0.9	34.8%
Oncology	**98.9**	**106.5**	**7.6%**	**53.9**	**5.8%**	**19.9**	**9.3%**	**16.8**	**5.8%**	**11.3**	**40.5%**	**4.6**	**-22.2%**
Velcade *1	31.4	31.7	1.0%	28.1	7.1%							3.7	-29.4%
Leuprorelin	28.6	28.4	-0.9%	5.3	-14.5%	11.0	5.1%	7.8	-7.6%	4.2	21.4%		
Ninlaro	14.0	18.3	30.8%	12.6	13.3%	1.3	14.1%	2.7	74.1%	1.6	1,112.1%		
Adcetris	11.0	12.7	16.4%			1.9	70.7%	5.6	0.7%	5.2	22.3%		
Iclusig *1	7.0	7.6	9.2%	6.7	7.0%							0.9	28.4%
Alunbrig	1.1	1.7	52.8%	1.2	12.6%			0.4	-	0.1	283.7%		
Vectibix	5.4	5.6	3.5%			5.6	3.5%						
Other	0.5	0.4	-9.6%	0.0	-94.4%			0.3	-8.8%	0.2	2.7%		
Neuroscience	**24.3**	**111.9**	**360.3%**	**87.6**	**421.1%**	**10.4**	**39.6%**	**11.8**	**-**	**2.0**	**-**		
Vyvanse		68.8	-	59.0	-			7.9	-	1.9	-		
Trintellix	14.1	17.4	23.4%	17.4	23.4%								
Adderall XR		5.7	-	5.3	-			0.4	-				
Rozerem	5.2	5.1	-1.6%	2.3	-16.1%	2.8	14.3%			0.0	-39.4%		
Reminyl	4.5	4.8	6.5%			4.8	6.3%	0.0	-				
Intuniv		4.1	-	0.6	-	1.6	-	1.9	-	0.1	-		
Other	0.5	6.0	1,069.5%	3.1	-	1.3	145.9%	1.7	-	0.0	-		
Other	**198.4**	**198.3**	**-0.1%**										
Azilva	19.4	20.5	5.4%			20.5	5.4%						
Nesina	14.1	14.6	3.3%	1.6	37.1%	7.6	-2.7%	2.7	4.8%	2.7	4.7%		
Uloric	14.1	12.2	-13.1%	11.9	-13.9%			0.2	-5.9%	0.2	151.7%		
Colcrys	9.2	7.2	-22.4%	7.2	-22.4%								
Enbrel	9.9	8.7	-12.1%			8.7	-12.1%						
Lotriga	8.1	8.8	8.1%			8.8	8.1%						

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

*4 Reminyl sales in Japan include royalty income from the partner.

Other in PDT Immunology include Aralast, Glassia, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

2. Product Sales Analysis (vs PY Reported Actual)

(Sales amount includes royalty income and service income)

◆Quarterly

(Bn JPY)	Reported FY18Q2	Reported FY19Q2	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
GI	**128.1**	**169.9**	**32.7%**	**99.4**	**40.6%**	**18.3**	**33.8%**	**32.8**	**13.4%**	**15.4**	**4.4%**	**4.0**	**-**
Entyvio	67.1	84.5	26.0%	58.6	29.0%	1.5	-	21.1	10.4%	3.4	30.1%		
Dexilant	17.5	15.3	-12.8%	9.9	-21.6%			1.9	8.2%	3.5	10.7%		
Pantoprazole	14.5	12.8	-11.3%	1.0	-29.2%			5.9	-9.5%	6.0	-9.3%		
Takecab-F	13.0	16.7	28.6%			16.6	28.2%			0.1	111.5%		
Gattex/Revestive		14.1	-	12.1	-			2.0	-	0.1	-		
Pentasa		6.5	-	6.5	-								
Lialda/Mezavan *1		6.7	-	2.6	-							4.0	-
Amitiza	8.4	7.3	-13.2%	7.2	-13.7%			-0.0	-100.0%	0.1	879.7%		
Resolor/Motegrity		1.3	-	0.5	-			0.7	-	0.0	-		
Other	7.6	4.7	-38.2%	1.0	-66.8%	0.2	-73.2%	1.3	-20.3%	2.3	-3.8%		
Rare Metabolic		**43.2**	**-**	**12.7**	**-**	**0.7**	**-**	**10.2**	**-**	**7.1**	**-**	**12.6**	**-**
Elaprase		16.7	-	4.8	-	0.3	-	6.1	-	5.5	-		
Replagal *1		12.6	-									12.6	-
Vpriv		9.4	-	4.0	-	0.4	-	3.4	-	1.6	-		
Natpara		4.5	-	3.8	-			0.6	-	0.0	-		
Rare Hematology		**84.8**	**-**	**36.1**	**-**	**6.9**	**-**	**21.0**	**-**	**20.8**	**-**		
Advate		40.5	-	18.0	-	2.0	-	10.9	-	9.6	-		
Adynovate		13.1	-	8.1	-	3.7	-	2.8	-	-1.4	-		
FEIBA *2		14.8	-	2.3	-	0.5	-	3.6	-	8.5	-		
Hemofil/Immunate/ Immunine *2		5.6	-	1.2	-			1.5	-	2.9	-		
Other PDT Products *2		0.5	-	-0.0	-			0.4	-	0.1	-		
Other		10.3	-	6.6	-	0.7	-	1.9	-	1.2	-		
Hereditary Angioedema		**28.5**	**-**	**22.5**	**-**	**0.2**	**-**	**4.9**	**-**	**0.9**	**-**		
Firazyr		6.3	-	3.0	-	0.2	-	2.3	-	0.8	-		
Takhzyro		16.2	-	15.2	-			1.0	-	0.0	-		
Kalbitor		1.3	-	1.3	-			0.0	-				
Cinryze *2		4.7	-	3.0	-			1.6	-	0.1	-		

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

◆Quarterly

(Bn JPY)	Reported FY18Q2	Reported FY19Q2	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
PDT Immunology	**3.8**	**101.5**	**2,556.8%**	**69.7**	**-**							**31.8**	**733.2%**
Immunoglobulin *2	2.8	78.5	2,678.3%	61.6	-							16.9	496.5%
Albumin *2	0.4	17.9	4,559.7%	3.6	-							14.3	3,613.5%
Other *2	0.6	5.1	735.1%	4.4	-							0.7	15.7%
Oncology	**99.5**	**108.4**	**8.9%**	**57.8**	**12.8%**	**18.8**	**12.5%**	**16.8**	**6.4%**	**11.3**	**31.2%**	**3.7**	**-48.2%**
Velcade *1	33.5	31.9	-4.7%	29.1	7.4%							2.8	-55.9%
Leuprorelin	26.5	28.3	6.7%	7.1	43.9%	9.6	-0.5%	7.3	-12.7%	4.3	20.2%		
Ninlaro	15.4	20.0	29.7%	13.9	19.1%	1.2	31.3%	2.8	46.7%	2.1	130.7%		
Adcetris	10.1	13.0	28.3%			2.0	90.2%	6.0	15.2%	4.6	19.2%		
Iclusig *1	7.2	7.0	-1.7%	6.1	-4.0%							0.9	17.7%
Alunbrig	1.2	1.7	44.2%	1.2	4.2%			0.4	-	0.1	629.7%		
Vectibix	5.1	6.0	17.3%			6.0	17.3%						
Other	0.5	0.5	-14.4%	-0.0	-			0.3	-3.7%	0.2	-21.7%		
Neuroscience	**22.1**	**102.0**	**360.7%**	**79.4**	**406.2%**	**10.2**	**57.8%**	**11.1**	**-**	**1.3**	**-**		
Vyvanse		62.7	-	54.2	-			7.2	-	1.3	-		
Trintellix	13.0	17.2	32.2%	17.2	32.2%								
Adderall XR		4.9	-	4.5	-			0.5	-				
Rozerem	4.9	3.6	-27.4%	0.8	-69.3%	2.7	22.4%			0.0	13.8%		
Reminyl	3.9	4.2	8.4%			4.2	8.0%	0.0	-				
Intuniv		4.0	-	0.2	-	2.0	-	1.7	-	0.0	-		
Other	0.3	5.3	1,792.9%	2.5	-	1.2	323.0%	1.7	-	0.0	-		
Other	**177.2**	**172.8**	**-2.5%**										
Azilva	15.8	18.2	15.5%			18.2	15.5%						
Nesina	12.7	14.0	10.3%	1.6	-2.1%	6.7	3.6%	2.6	4.3%	3.1	47.9%		
Uloric	12.4	1.8	-85.3%	1.6	-86.9%			0.1	-37.1%	0.1	18.3%		
Colcrys	7.1	6.0	-15.8%	6.0	-15.8%								
Enbrel	8.2	7.2	-11.6%			7.2	-11.6%						
Lotriga	7.1	7.2	1.2%			7.2	1.2%						

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

*4 Reminyl sales in Japan include royalty income from the partner.

Other in PDT Immunology include Aralast, Glassia, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

2. Product Sales Analysis (vs PY Reported Actual)

(Sales amount includes royalty income and service income)

◆Quarterly

(Bn JPY)	Reported FY18Q3	Reported FY19Q3	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
GI	**140.8**	**191.6**	**36.1%**	**114.2**	**52.3%**	**22.5**	**22.5%**	**34.9**	**12.4%**	**16.8**	**2.8%**	**3.2**	**-**
Entyvio	72.6	95.1	31.0%	66.9	34.8%	1.9	-	22.5	13.1%	3.8	45.3%		
Dexilant	20.0	16.9	-15.2%	11.6	-21.2%			2.0	-0.7%	3.3	2.7%		
Pantoprazole	16.2	13.9	-14.2%	1.0	43.7%			6.2	-16.3%	6.7	-17.0%		
Takecab-F	17.1	20.7	20.8%			20.5	19.9%			0.2	357.9%		
Gattex/Revestive		17.7	-	15.5	-			2.0	-	0.2	-		
Pentasa		7.2	-	7.2	-								
Lialda/Mezavan *1		6.0	-	2.8	-							3.2	-
Amitiza	9.6	7.0	-26.9%	6.9	-27.6%					0.1	1,428.4%		
Resolor/Motegrity		2.0	-	1.2	-			0.8	-	0.0	-		
Other	5.2	5.1	-1.9%	1.2	190.5%	0.2	-80.8%	1.3	-19.1%	2.4	4.1%		
Rare Metabolic		**40.2**	**-**	**9.2**	**-**	**0.9**	**-**	**10.4**	**-**	**6.6**	**-**	**13.1**	**-**
Elaprase		16.8	-	5.1	-	0.5	-	6.2	-	5.0	-		
Replagal *1		13.1	-									13.1	-
Vpriv		9.7	-	4.2	-	0.4	-	3.5	-	1.6	-		
Natpara		0.6	-	-0.1	-			0.7	-	0.0	-		
Rare Hematology		**84.5**	**-**	**35.7**	**-**	**6.8**	**-**	**21.3**	**-**	**20.6**	**-**		
Advate		39.9	-	18.2	-	1.8	-	10.0	-	10.0	-		
Adynovate		15.1	-	7.2	-	3.9	-	3.0	-	1.0	-		
FEIBA *2		11.7	-	2.9	-	0.4	-	3.6	-	4.8	-		
Hemofil/Immunate/ Immunine *2		5.8	-	0.9	-			1.4	-	3.5	-		
Other PDT Products *2		1.8	-	0.0	-			1.6	-	0.2	-		
Other		10.2	-	6.5	-	0.8	-	1.7	-	1.2	-		
Hereditary Angioedema		**33.7**	**-**	**27.1**	**-**	**0.3**	**-**	**5.3**	**-**	**1.0**	**-**		
Firazyr		7.5	-	3.9	-	0.3	-	2.3	-	0.9	-		
Takhzyro		18.2	-	16.9	-			1.3	-	0.0	-		
Kalbitor		1.1	-	1.1	-								
Cinryze *2		6.9	-	5.2	-			1.6	-	0.1	-		

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

◆Quarterly

(Bn JPY)	Reported FY18Q3	Reported FY19Q3	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
PDT Immunology	**4.5**	**104.9**	**2,217.3%**	**69.7**	**-**							**35.2**	**678.2%**
Immunoglobulin *2	3.2	78.9	2,330.6%	59.9	-							19.0	485.1%
Albumin *2	0.5	15.7	3,229.4%	3.0	-							12.7	2,596.3%
Other *2	0.8	10.3	1,175.0%	6.8	-							3.5	337.1%
Oncology	**108.2**	**103.1**	**-4.7%**	**49.5**	**-10.4%**	**20.6**	**3.8%**	**17.2**	**1.6%**	**13.0**	**52.5%**	**2.8**	**-63.0%**
Velcade *1	35.4	27.2	-23.3%	25.3	-12.0%							1.9	-71.4%
Leuprorelin	29.5	26.0	-11.8%	2.8	-52.0%	11.3	-1.8%	7.1	-16.8%	4.8	32.0%		
Ninlaro	17.1	19.8	15.9%	12.9	1.0%	1.3	11.3%	3.2	26.4%	2.4	292.7%		
Adcetris	10.9	13.7	25.2%			2.0	31.7%	6.2	13.4%	5.5	39.1%		
Iclusig *1	7.4	8.2	9.6%	7.3	11.0%							0.9	-0.4%
Alunbrig	1.5	1.8	18.4%	1.3	-9.3%			0.3	1,459.6%	0.1	396.7%		
Vectibix	5.7	6.0	6.2%			6.0	6.2%						
Other	0.6	0.4	-26.4%	0.0	-85.8%			0.3	-0.5%	0.1	-55.7%		
Neuroscience	**27.3**	**116.7**	**327.8%**	**91.7**	**368.4%**	**10.5**	**36.5%**	**12.6**	**-**	**1.9**	**-**		
Vyvanse		75.3	-	65.2	-			8.3	-	1.8	-		
Trintellix	17.5	19.7	12.4%	19.5	11.2%	0.2	-						
Adderall XR		4.4	-	4.0	-			0.4	-				
Rozerem	4.8	3.1	-36.2%	0.1	-93.2%	2.9	7.3%			0.0	-22.5%		
Reminyl	4.6	4.9	6.2%			4.8	5.9%	0.0	-				
Intuniv		2.9	-	-0.1	-	0.9	-	2.0	-	0.0	-		
Other	0.4	6.5	1,492.3%	3.0	-	1.6	291.7%	1.9	-	0.0	-		
Other	**218.7**	**184.7**	**-15.5%**										
Azilva	20.5	20.4	-0.5%			20.4	-0.5%						
Nesina	15.6	15.5	-1.0%	2.2	18.8%	7.5	-4.9%	2.7	-11.1%	3.0	7.7%		
Uloric	14.0	1.4	-90.1%	1.2	-91.2%			0.1	-64.5%	0.1	73.3%		
Colcrys	7.3	6.6	-9.5%	6.6	-9.5%								
Enbrel	9.8	8.1	-17.7%			8.1	-17.7%						
Lotriga	9.0	8.8	-2.6%			8.8	-2.6%						

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

*4 Reminyl sales in Japan include royalty income from the partner.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

2. Product Sales Analysis (vs PY Reported Actual)

(Sales amount includes royalty income and service income)

◆Quarterly

(Bn JPY)	Reported FY18Q4	Reported FY19Q4	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
GI	**146.5**	**164.7**	**12.5%**	**93.3**	**17.9%**	**18.7**	**22.2%**	**35.9**	**10.0%**	**13.2**	**-15.9%**	**3.6**	**-2.0%**
Entyvio	68.2	83.7	22.7%	54.7	20.2%	1.7	174.4%	23.7	20.3%	3.6	49.3%		
Dexilant	14.3	14.8	3.1%	10.2	7.5%			2.0	12.6%	2.5	-16.4%		
Pantoprazole	14.7	11.1	-24.5%	0.7	107.4%			6.0	-14.2%	4.4	-40.6%		
Takecab-F	13.9	17.1	23.0%			16.9	22.3%			0.2	166.3%		
Gattex/Revestive	12.8	14.9	16.6%	12.7	15.9%			2.0	18.5%	0.2	53.8%		
Pentasa	4.7	5.4	14.5%	5.4	14.5%								
Lialda/Mezavan *1	3.3	5.2	56.9%	1.5	-							3.6	-2.0%
Amitiza	7.1	6.0	-15.4%	5.9	-16.1%					0.1	90.3%		
Resolor/Motegrity	0.7	1.9	169.4%	1.1	-			0.8	14.4%	0.0	26.9%		
Other	6.8	4.8	-29.7%	1.1	-30.4%	0.1	-86.4%	1.3	-22.4%	2.3	-15.2%		
Rare Metabolic	**42.3**	**38.5**	**-8.9%**	**9.1**	**-40.0%**	**0.6**	**117.8%**	**11.0**	**10.8%**	**5.1**	**-7.5%**	**12.7**	**11.3%**
Elaprase	15.1	15.6	3.1%	5.2	11.5%	0.4	-	6.3	6.0%	3.7	-18.5%		
Replagal *1	11.4	12.7	11.3%									12.7	11.3%
Vpriv	8.7	9.6	10.8%	4.1	5.1%	0.3	-19.2%	3.8	11.0%	1.4	42.5%		
Natpara	7.1	0.6	-91.1%	-0.2	-			0.8	69.2%	0.0	-30.5%		
Rare Hematology	**66.7**	**75.0**	**12.5%**	**32.3**	**15.3%**	**6.0**	**-8.6%**	**18.7**	**-8.4%**	**18.0**	**53.9%**		
Advate	32.1	34.8	8.3%	16.2	18.2%	1.3	-38.3%	9.7	-17.6%	7.5	67.9%		
Adynovate	10.7	13.9	29.0%	6.5	19.4%	3.3	-4.2%	3.2	72.4%	0.8	-		
FEIBA *2	9.6	11.9	23.7%	2.9	16.0%	0.3	-17.8%	2.5	-29.8%	6.2	96.1%		
Hemofil/Immunate/ Immunine *2	5.5	4.4	-20.2%	1.0	-17.7%			1.0	-6.9%	2.3	-25.8%		
Other PDT Products *2	0.5	0.8	67.2%	-0.0	99.9%			0.7	63.6%	0.1	56.9%		
Other	8.2	9.3	13.0%	5.6	10.8%	1.1	76.6%	1.6	-6.3%	1.0	18.4%		
Hereditary Angioedema	**20.4**	**35.8**	**75.5%**	**28.7**	**88.5%**	**0.2**	**116.6%**	**6.2**	**47.9%**	**0.7**	**-23.8%**		
Firazyr	6.4	9.9	54.9%	6.8	86.4%	0.2	116.6%	2.4	24.3%	0.5	-27.7%		
Takhzyro	9.7	19.4	99.7%	17.5	89.1%			1.8	304.0%	0.1	-		
Kalbitor	1.2	1.0	-13.3%	1.0	-13.3%								
Cinryze *2	3.1	5.4	75.4%	3.4	193.5%			2.0	9.3%	0.1	-43.4%		

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

◆Quarterly

(Bn JPY)	Reported FY18Q4	Reported FY19Q4	Reported YOY	US	US YOY	Japan	Japan YOY	EUCAN	EUCAN YOY	GEM*3	GEM*3 YOY	Ex-US	Ex-US YOY
PDT Immunology	**81.0**	**97.6**	**20.5%**	**63.8**	**15.1%**							**33.8**	**32.4%**
Immunoglobulin *2	64.3	73.3	14.1%	55.0	16.0%							18.4	8.7%
Albumin *2	11.0	17.5	58.5%	3.5	-12.5%							14.0	98.4%
Other *2	5.6	6.8	20.1%	5.3	31.5%							1.5	-8.6%
Oncology	**92.8**	**103.0**	**11.0%**	**56.7**	**18.8%**	**16.8**	**13.9%**	**17.3**	**3.8%**	**9.8**	**10.4%**	**2.4**	**-49.7%**
Velcade *1	27.5	27.5	-0.1%	26.4	11.4%							1.1	-70.6%
Leuprorelin	25.4	26.4	3.6%	7.0	26.3%	8.8	8.3%	7.2	-12.0%	3.3	-6.8%		
Ninlaro	15.7	19.5	24.1%	13.8	24.5%	1.0	7.5%	3.2	19.1%	1.5	47.7%		
Adcetris	10.9	13.2	21.6%			2.1	45.4%	6.2	17.3%	4.7	14.4%		
Iclusig *1	7.1	9.0	26.3%	7.7	24.1%							1.2	41.8%
Alunbrig	1.4	2.1	46.6%	1.5	35.7%			0.4	50.8%	0.2	394.7%		
Vectibix	4.3	4.9	15.0%			4.9	15.0%						
Other	0.4	0.4	-1.9%					0.3	9.1%	0.1	-15.6%		
Neuroscience	**81.0**	**108.0**	**33.4%**	**85.1**	**35.9%**	**9.5**	**39.9%**	**12.0**	**19.1%**	**1.4**	**-4.9%**		
Vyvanse	49.4	67.3	36.3%	57.6	38.8%	0.4	-	8.0	22.1%	1.2	-4.6%		
Trintellix	12.9	16.4	26.7%	16.1	25.0%	0.2	-						
Adderall XR	5.4	9.3	72.4%	8.9	80.4%			0.4	-14.5%				
Rozerem	4.2	2.7	-35.0%	0.2	-89.9%	2.5	14.0%			0.1	602.2%		
Reminyl	3.7	3.5	-6.2%			3.5	-6.1%	0.0	-41.8%				
Intuniv	1.3	3.7	172.3%	0.0	-	1.7	160.6%	1.9	18.9%	0.1	-20.5%		
Other	4.0	5.2	28.5%	2.3	-0.2%	1.3	299.2%	1.7	17.0%	0.0	-93.1%		
Other	**186.6**	**149.0**	**-20.2%**										
Azilva	15.0	17.6	17.2%			17.6	17.2%						
Nesina	12.3	13.9	12.6%	1.4	46.6%	5.9	3.0%	3.2	12.8%	3.3	20.8%		
Uloric	10.6	1.4	-86.4%	1.3	-87.6%			0.0	-73.8%	0.1	70.4%		
Colcrys	6.4	2.7	-57.4%	2.7	-57.4%								
Enbrel	7.3	5.2	-28.3%			5.2	-28.3%						
Lotriga	6.6	7.0	5.9%			7.0	5.9%						

*1 License-out product : Regional breakdown is not available due to contract.

*2 PDT products

*3 GEM: Growth and Emerging Markets, which include Russia/CIS, Latin America, Asia, Middle East, Oceania and Africa

*4 Reminyl sales in Japan include royalty income from the partner.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

2. Product Sales Analysis (vs PY Reported Actual) (continued)

■Quarterly

(Bn JPY)	Reported											
	FY18				FY19							
	Q1	Q2	Q3	Q4	Q1	YOY	Q2	YOY	Q3	YOY	Q4	YOY
GI	**124.0**	**128.1**	**140.8**	**146.5**	**171.6**	**38.4%**	**169.9**	**32.7%**	**191.6**	**36.1%**	**164.7**	**12.5%**
Entyvio	61.3	67.1	72.6	68.2	83.9	36.9%	84.5	26.0%	95.1	31.0%	83.7	22.7%
Dexilant	17.4	17.5	20.0	14.3	15.8	-9.0%	15.3	-12.8%	16.9	-15.2%	14.8	3.1%
Pantoprazole	16.2	14.5	16.2	14.7	11.6	-28.5%	12.8	-11.3%	13.9	-14.2%	11.1	-24.5%
Takecab-F	14.3	13.0	17.1	13.9	18.3	28.1%	16.7	28.6%	20.7	20.8%	17.1	23.0%
Gattex/Revestive				12.8	15.1	-	14.1	-	17.7	-	14.9	16.6%
Pentasa				4.7	6.5	-	6.5	-	7.2	-	5.4	14.5%
Lialda/Mezavant				3.3	5.6	-	6.7	-	6.0	-	5.2	56.9%
Amitiza	7.9	8.4	9.6	7.1	7.8	-0.7%	7.3	-13.2%	7.0	-26.9%	6.0	-15.4%
Resolor/Motegrity				0.7	1.4	-	1.3	-	2.0	-	1.9	169.4%
Other	7.0	7.6	5.2	6.8	5.6	-19.4%	4.7	-38.2%	5.1	-1.9%	4.8	-29.7%
Rare Metabolic				**42.3**	**48.9**	-	**43.2**	**-**	**40.2**	**-**	**38.5**	**-8.9%**
Elaprase				15.1	18.8	-	16.7	-	16.8	-	15.6	3.1%
Replagal				11.4	12.9	-	12.6	-	13.1	-	12.7	11.3%
Vpriv				8.7	9.3	-	9.4	-	9.7	-	9.6	10.8%
Natpara				7.1	7.9	-	4.5	-	0.6	-	0.6	-91.1%
Rare Hematology				**66.7**	**89.9**	**-**	**84.8**	**-**	**84.5**	**-**	**75.0**	**12.5%**
Advate				32.1	42.7	-	40.5	-	39.9	-	34.8	8.3%
Adynovate				10.7	16.7	-	13.1	-	15.1	-	13.9	29.0%
FEIBA *1				9.6	13.1	-	14.8	-	11.7	-	11.9	23.7%
Hemofil/Immunate/ Immunine*1				5.5	6.6	-	5.6	-	5.8	-	4.4	-20.2%
Other PDT Products *1				0.5	0.6	-	0.5	-	1.8	-	0.8	67.2%
Other				8.2	10.3	-	10.3	-	10.2	-	9.3	13.0%
Hereditary Angioedema				**20.4**	**31.9**	**-**	**28.5**	**-**	**33.7**	**-**	**35.8**	**75.5%**
Firazyr				6.4	9.0	-	6.3	-	7.5	-	9.9	54.9%
Takhzyro				9.7	14.5	-	16.2	-	18.2	-	19.4	99.7%
Kalbitor				1.2	1.1	-	1.3	-	1.1	-	1.0	-13.3%
Cinryze *1				3.1	7.3	-	4.7	-	6.9	-	5.4	75.4%

*1 PDT products

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.
Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.
On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

■Quarterly

(Bn JPY)	Reported											
	FY18				FY19							
	Q1	Q2	Q3	Q4	Q1	YOY	Q2	YOY	Q3	YOY	Q4	YOY
PDT Immunology	**4.2**	**3.8**	**4.5**	**81.0**	**90.2**	**2,072.7%**	**101.5**	**2,556.8%**	**104.9**	**2,217.3%**	**97.6**	**20.5%**
Immunoglobulin *1	3.1	2.8	3.2	64.3	68.0	2,100.7%	78.5	2,678.3%	78.9	2,330.6%	73.3	14.1%
Albumin *1	0.4	0.4	0.5	11.0	16.1	3,811.9%	17.9	4,559.7%	15.7	3,229.4%	17.5	58.5%
Other *1	0.6	0.6	0.8	5.6	6.0	831.5%	5.1	735.1%	10.3	1,175.0%	6.8	20.1%
Oncology	**98.9**	**99.5**	**108.2**	**92.8**	**106.5**	**7.6%**	**108.4**	**8.9%**	**103.1**	**-4.7%**	**103.0**	**11.0%**
Velcade	31.4	33.5	35.4	27.5	31.7	1.0%	31.9	-4.7%	27.2	-23.3%	27.5	-0.1%
Leuprorelin	28.6	26.5	29.5	25.4	28.4	-0.9%	28.3	6.7%	26.0	-11.8%	26.4	3.6%
Ninlaro	14.0	15.4	17.1	15.7	18.3	30.8%	20.0	29.7%	19.8	15.9%	19.5	24.1%
Adcetris	11.0	10.1	10.9	10.9	12.7	16.4%	13.0	28.3%	13.7	25.2%	13.2	21.6%
Iclusig	7.0	7.2	7.4	7.1	7.6	9.2%	7.0	-1.7%	8.2	9.6%	9.0	26.3%
Alunbrig	1.1	1.2	1.5	1.4	1.7	52.8%	1.7	44.2%	1.8	18.4%	2.1	46.6%
Vectibix	5.4	5.1	5.7	4.3	5.6	3.5%	6.0	17.3%	6.0	6.2%	4.9	15.0%
Other	0.5	0.5	0.6	0.4	0.4	-9.6%	0.5	-14.4%	0.4	-26.4%	0.4	-1.9%
Neuroscience	**24.3**	**22.1**	**27.3**	**81.0**	**111.9**	**360.3%**	**102.0**	**360.7%**	**116.7**	**327.8%**	**108.0**	**33.4%**
Vyvanse				49.4	68.8	-	62.7	-	75.3	-	67.3	36.3%
Trintellix	14.1	13.0	17.5	12.9	17.4	23.4%	17.2	32.2%	19.7	12.4%	16.4	26.7%
Adderall XR				5.4	5.7	-	4.9	-	4.4	-	9.3	72.4%
Rozerem	5.2	4.9	4.8	4.2	5.1	-1.6%	3.6	-27.4%	3.1	-36.2%	2.7	-35.0%
Reminyl	4.5	3.9	4.6	3.7	4.8	6.5%	4.2	8.4%	4.9	6.2%	3.5	-6.2%
Intuniv				1.3	4.1	-	4.0	-	2.9	-	3.7	172.3%
Other	0.5	0.3	0.4	4.0	6.0	1,069.5%	5.3	1,792.9%	6.5	1,492.3%	5.2	28.5%
Other	**198.4**	**177.2**	**218.7**	**186.6**	**198.3**	**-0.1%**	**172.8**	**-2.5%**	**184.7**	**-15.5%**	**149.0**	**-20.2%**
Azilva	19.4	15.8	20.5	15.0	20.5	5.4%	18.2	15.5%	20.4	-0.5%	17.6	17.2%
Nesina	14.1	12.7	15.6	12.3	14.6	3.3%	14.0	10.3%	15.5	-1.0%	13.9	12.6%
Uloric	14.1	12.4	14.0	10.6	12.2	-13.1%	1.8	-85.3%	1.4	-90.1%	1.4	-86.4%
Colcrys	9.2	7.1	7.3	6.4	7.2	-22.4%	6.0	-15.8%	6.6	-9.5%	2.7	-57.4%
Enbrel	9.9	8.2	9.8	7.3	8.7	-12.1%	7.2	-11.6%	8.1	-17.7%	5.2	-28.3%
Lotriga	8.1	7.1	9.0	6.6	8.8	8.1%	7.2	1.2%	8.8	-2.6%	7.0	5.9%

*1 PDT products

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

On a reported basis, revenue of Legacy Shire products has been consolidated since FY2018Q4 upon the completion of acquisition.

3. Product Sales Analysis (vs FY2018 Pro-forma)

(Bn JPY)	FY18 Reported Pro-forma*2				FY19 Reported & Underlying Growth													
						YOY			YOY				YOY				YOY			
	Q1	Q2	Q3	Q4	Q1	Reported	Underlying	Q2	Reported	Underlying	YTD Underlying	Q3	Reported	Underlying	YTD Underlying	Q4	Reported	Underlying	YTD Underlying
GI	**159.4**	**160.4**	**177.1**	**146.5**	**171.6**	**7.7%**	**7.9%**	**169.9**	**5.9%**	**9.9%**	**8.9%**	**191.6**	**8.2%**	**13.4%**	**10.5%**	**164.7**	**12.5%**	**14.9%**	**11.5%**
Entyvio	61.3	67.1	72.6	68.2	83.9	36.9%	36.8%	84.5	26.0%	31.3%	33.9%	95.1	31.0%	38.0%	35.4%	83.7	22.7%	25.7%	32.9%
Dexilant	17.4	17.5	20.0	14.3	15.8	-9.0%	-9.4%	15.3	-12.8%	-9.3%	-9.4%	16.9	-15.2%	-10.8%	-9.9%	14.8	3.1%	5.5%	-6.7%
Pantoprazole	16.2	14.5	16.2	14.7	11.6	-28.5%	-25.0%	12.8	-11.3%	-6.0%	-16.0%	13.9	-14.2%	-8.1%	-13.3%	11.1	- 24.5%	-21.6%	-15.3%
Takecab-F	14.3	13.0	17.1	13.9	18.3	28.1%	28.1%	16.7	28.6%	28.6%	28.3%	20.7	20.8%	20.8%	25.4%	17.1	23.0%	23.0%	24.9%
Gattex/Revestive	14.5	10.8	13.9	12.8	15.1	4.5%	3.3%	14.1	31.2%	35.9%	17.0%	17.7	26.9%	33.0%	22.6%	14.9	16.6%	18.8%	21.7%
Pentasa	8.4	7.3	9.4	4.7	6.5	-22.4%	-23.7%	6.5	-11.1%	-8.4%	-16.7%	7.2	-23.6%	-20.2%	-18.0%	5.4	14.5%	16.6%	-12.5%
Lialda/Mezavant	11.7	13.6	11.2	3.3	5.6	-52.5%	-51.7%	6.7	-50.9%	-48.5%	-50.0%	6.0	-46.8%	-43.7%	-48.1%	5.2	56.9%	60.3%	-38.9%
Amitiza	7.9	8.4	9.6	7.1	7.8	-0.7%	-3.0%	7.3	-13.2%	-10.5%	-6.8%	7.0	-26.9%	-23.6%	-12.9%	6.0	- 15.4%	-14.1%	-13.2%
Resolor/Motegrity	0.7	0.7	1.8	0.7	1.4	85.1%	103.8%	1.3	94.4%	91.9%	97.7%	2.0	13.3%	19.5%	54.4%	1.9	169.4%	172.9%	76.5%
Other	7.0	7.6	5.2	6.8	5.6	-19.4%	-18.4%	4.7	-38.2%	-35.7%	-27.4%	5.1	-1.9%	2.5%	-19.6%	4.8	- 29.7%	-27.7%	-21.7%
Rare Metabolic	**49.4**	**47.9**	**51.0**	**42.3**	**48.9**	**-1.2%**	**3.9%**	**43.2**	**-9.8%**	**-2.1%**	**1.0%**	**40.2**	**-21.2%**	**-12.4%**	**-3.6%**	**38.5**	**- 8.9%**	**-1.6%**	**-3.2%**
Elaprase	19.1	18.9	19.1	15.1	18.8	-1.4%	3.6%	16.7	-11.7%	-4.8%	-0.6%	16.8	-11.8%	-4.2%	-1.8%	15.6	3.1%	9.8%	0.7%
Replagal	13.6	13.6	13.4	11.4	12.9	-5.3%	3.5%	12.6	-7.8%	2.7%	3.1%	13.1	-2.1%	11.5%	5.9%	12.7	11.3%	22.2%	9.6%
Vpriv	9.7	9.7	10.7	8.7	9.3	-4.6%	0.6%	9.4	-3.0%	5.7%	3.1%	9.7	-9.6%	-0.5%	1.8%	9.6	10.8%	18.1%	5.5%
Natpara	7.0	5.7	7.9	7.1	7.9	11.8%	10.2%	4.5	-20.1%	-17.9%	-2.2%	0.6	-92.1%	-91.2%	-35.5%	0.6	- 91.1%	-90.4%	-49.7%
Rare Hematology	**105.2**	**102.1**	**107.6**	**66.7**	**89.9**	**-14.5%**	**-12.6%**	**84.8**	**-17.0%**	**-12.7%**	**-12.7%**	**84.5**	**-21.4%**	**-16.7%**	**-14.0%**	**75.0**	**12.5%**	**16.0%**	**-8.6%**
Advate	53.2	49.5	53.8	32.1	42.7	-19.7%	-18.1%	40.5	-18.1%	-13.5%	-15.9%	39.9	-25.9%	-21.0%	-17.4%	34.8	8.3%	12.3%	-12.3%
Adynovate	13.2	15.4	15.4	10.7	16.7	26.4%	25.9%	13.1	-15.4%	-12.3%	5.4%	15.1	-1.9%	2.4%	4.4%	13.9	29.0%	31.6%	9.8%
FEIBA *1	21.0	17.2	16.3	9.6	13.1	-37.7%	-36.8%	14.8	-13.9%	-9.2%	-24.4%	11.7	-27.8%	-23.6%	-23.5%	11.9	23.7%	29.2%	-15.5%
Hemofil/Immunate/ Immunine *1	5.5	5.7	7.2	5.5	6.6	20.0%	23.0%	5.6	-2.5%	3.4%	13.0%	5.8	-19.4%	-12.5%	3.4%	4.4	- 20.2%	-14.6%	-0.8%
Other PDT Products *1	1.0	0.6	0.8	0.5	0.6	-34.6%	-32.3%	0.5	-18.5%	-15.0%	-25.4%	1.8	134.9%	154.1%	31.3%	0.8	67.2%	20.2%	39.3%
Other	11.4	13.7	14.1	8.2	10.3	-9.5%	-1.1%	10.3	-24.5%	-21.6%	-12.7%	10.2	-27.5%	-24.1%	-18.9%	9.3	13.0%	15.2%	-12.9%
Hereditary Angioedema	**39.7**	**36.5**	**32.8**	**20.4**	**31.9**	**-19.8%**	**-19.9%**	**28.5**	**-22.0%**	**-18.4%**	**-19.2%**	**33.7**	**2.6%**	**8.3%**	**-11.0%**	**35.8**	**75.5%**	**79.6%**	**3.4%**
Firazyr	23.0	15.6	24.4	6.4	9.0	-61.0%	-60.4%	6.3	-59.6%	-56.5%	-58.8%	7.5	-69.4%	-66.5%	-61.8%	9.9	54.9%	60.9%	-50.2%
Takhzyro		5.7	1.2	9.7	14.5	-	-	16.2	184.5%	194.4%	449.9%	18.2	1,354.7%	1,424.4%	622.2%	19.4	99.7%	103.5%	318.3%
Kalbitor	1.9	2.3	2.1	1.2	1.1	-41.5%	-42.7%	1.3	-43.6%	-41.8%	-42.2%	1.1	-45.3%	-42.9%	-42.4%	1.0	- 13.3%	-12.0%	-37.6%
Cinryze *1	14.8	13.0	5.1	3.1	7.3	-50.7%	-50.8%	4.7	-63.8%	-62.0%	-56.0%	6.9	34.3%	41.5%	-41.1%	5.4	75.4%	78.4%	-30.7%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

(Bn JPY)	FY18 Reported Pro-forma*2				FY19 Reported & Underlying Growth													
						YOY			YOY				YOY				YOY			
	Q1	Q2	Q3	Q4	Q1	Reported	Underlying	Q2	Reported	Underlying	YTD Underlying	Q3	Reported	Underlying	YTD Underlying	Q4	Reported	Underlying	YTD Underlying
PDT Immunology	**89.1**	**100.0**	**101.9**	**81.0**	**90.2**	**1.2%**	**1.6%**	**101.5**	**1.5%**	**5.3%**	**3.6%**	**104.9**	**2.9%**	**8.1%**	**5.1%**	**97.6**	**20.5%**	**23.8%**	**9.2%**
Immunoglobulin *1	69.5	75.5	77.4	64.3	68.0	-2.2%	-1.9%	78.5	4.0%	7.6%	3.0%	78.9	1.9%	7.0%	4.4%	73.3	14.1%	16.9%	7.2%
Albumin *1	12.9	17.3	17.0	11.0	16.1	25.6%	27.5%	17.9	3.8%	9.0%	16.9%	15.7	-7.9%	-2.9%	9.8%	17.5	58.5%	65.0%	20.3%
Other *1	6.7	7.2	7.5	5.6	6.0	-10.1%	-11.3%	5.1	-29.3%	-27.3%	-19.6%	10.3	38.2%	44.9%	2.6%	6.8	20.1%	22.1%	6.7%
Oncology	**98.9**	**99.5**	**108.2**	**92.8**	**106.5**	**7.6%**	**8.1%**	**108.4**	**8.9%**	**12.9%**	**10.5%**	**103.1**	**-4.7%**	**- 0.0%**	**6.8%**	**103.0**	**11.0%**	**13.4%**	**8.4%**
Velcade	31.4	33.5	35.4	27.5	31.7	1.0%	-1.3%	31.9	-4.7%	-1.7%	-1.5%	27.2	-23.3%	-20.0%	-7.9%	27.5	- 0.1%	1.4%	-5.9%
Leuprorelin	28.6	26.5	29.5	25.4	28.4	-0.9%	0.6%	28.3	6.7%	9.4%	4.9%	26.0	-11.8%	-8.9%	0.0%	26.4	3.6%	5.0%	1.2%
Ninlaro	14.0	15.4	17.1	15.7	18.3	30.8%	29.8%	20.0	29.7%	35.4%	32.7%	19.8	15.9%	22.3%	28.9%	19.5	24.1%	27.2%	28.5%
Adcetris	11.0	10.1	10.9	10.9	12.7	16.4%	26.6%	13.0	28.3%	39.0%	32.7%	13.7	25.2%	37.9%	34.5%	13.2	21.6%	29.1%	33.1%
Iclusig	7.0	7.2	7.4	7.1	7.6	9.2%	6.7%	7.0	-1.7%	1.3%	4.0%	8.2	9.6%	14.5%	7.5%	9.0	26.3%	28.3%	12.7%
Alunbrig	1.1	1.2	1.5	1.4	1.7	52.8%	51.1%	1.7	44.2%	50.2%	50.7%	1.8	18.4%	25.0%	40.6%	2.1	46.6%	49.7%	43.1%
Vectibix	5.4	5.1	5.7	4.3	5.6	3.5%	3.5%	6.0	17.3%	17.3%	10.2%	6.0	6.2%	6.2%	8.8%	4.9	15.0%	15.0%	10.1%
Other	0.5	0.5	0.6	0.4	0.4	-9.6%	2.5%	0.5	-14.4%	-3.9%	-0.9%	0.4	-26.4%	-21.9%	-8.7%	0.4	- 1.9%	-1.1%	-7.0%
Neuroscience	**100.8**	**104.2**	**118.4**	**81.0**	**111.9**	**11.1%**	**10.1%**	**102.0**	**-2.2%**	**1.1%**	**5.6%**	**116.7**	**-1.5%**	**3.0%**	**4.6%**	**108.0**	**33.4%**	**35.7%**	**10.9%**
Vyvanse	60.4	66.0	71.0	49.4	68.8	13.8%	12.8%	62.7	-5.0%	-1.5%	5.4%	75.3	6.0%	11.2%	7.4%	67.3	36.3%	38.7%	13.7%
Trintellix	14.1	13.0	17.5	12.9	17.4	23.4%	20.7%	17.2	32.2%	36.2%	28.1%	19.7	12.4%	17.3%	23.9%	16.4	26.7%	28.6%	25.0%
Adderall XR	8.8	8.6	11.3	5.4	5.7	-35.6%	-36.6%	4.9	-42.5%	-40.9%	-38.7%	4.4	-61.4%	-59.8%	-46.9%	9.3	72.4%	75.0%	-27.5%
Rozerem	5.2	4.9	4.8	4.2	5.1	-1.6%	-2.8%	3.6	-27.4%	-26.9%	-14.5%	3.1	-36.2%	-35.5%	-21.1%	2.7	- 35.0%	-34.8%	-24.1%
Reminyl	5.0	4.3	5.3	3.7	4.8	-4.4%	-4.7%	4.2	-0.5%	-0.1%	-2.6%	4.9	-9.1%	-8.6%	-4.8%	3.5	- 6.2%	-6.1%	-5.0%
Intuniv	2.7	2.9	2.9	1.3	4.1	53.3%	60.2%	4.0	34.2%	41.9%	50.5%	2.9	2.3%	10.9%	37.2%	3.7	172.3%	180.5%	57.4%
Other	4.5	4.5	5.6	4.0	6.0	33.5%	34.6%	5.3	18.3%	22.8%	28.7%	6.5	16.2%	21.7%	26.1%	5.2	28.6%	30.9%	27.1%
Other																			
Azilva	19.4	15.8	20.5	15.0	20.5	5.4%	5.4%	18.2	15.5%	15.5%	9.9%	20.4	-0.5%	-0.5%	6.1%	17.6	17.2%	17.2%	8.5%
Nesina	14.1	12.7	15.6	12.3	14.6	3.3%	5.0%	14.0	10.3%	13.6%	9.1%	15.5	-1.0%	2.2%	6.6%	13.9	12.6%	15.2%	8.5%
Uloric	14.1	12.4	14.0	10.6	12.2	-13.1%	-15.0%	1.8	-85.3%	-84.8%	-47.2%	1.4	-90.1%	-89.7%	-61.6%	1.4	- 86.4%	-86.2%	-66.7%
Colcrys	9.2	7.1	7.3	6.4	7.2	-22.4%	-24.1%	6.0	-15.8%	-13.3%	-19.5%	6.6	-9.5%	-5.5%	-15.2%	2.7	- 57.4%	-56.6%	-24.1%
Enbrel	9.9	8.2	9.8	7.3	8.7	-12.1%	-12.1%	7.2	-11.6%	-11.6%	-11.9%	8.1	-17.7%	-17.7%	-13.9%	5.2	- 28.3%	-28.3%	-16.9%
Lotriga	8.1	7.1	9.0	6.6	8.8	8.1%	8.1%	7.2	1.2%	1.2%	4.9%	8.8	-2.6%	-2.6%	2.1%	7.0	5.9%	5.9%	2.9%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

4. FY2018 Pro-forma and FY2019 Reporeted Actual

(Bn JPY)	FY18 Reported Pro-forma *2					FY19 Reported	
	Q1	Q2	Q3	Q4	Annual	Annual	YOY
GI	**159.4**	**160.4**	**177.1**	**146.5**	**643.3**	**697.9**	**8.5%**
Entyvio	61.3	67.1	72.6	68.2	269.2	347.2	29.0%
Dexilant	17.4	17.5	20.0	14.3	69.2	62.8	-9.2%
Pantoprazole	16.2	14.5	16.2	14.7	61.6	49.5	-19.7%
Takecab-F	14.3	13.0	17.1	13.9	58.2	72.7	24.8%
Gattex/Revestive	14.5	10.8	13.9	12.8	51.9	61.8	19.0%
Pentasa	8.4	7.3	9.4	4.7	29.8	25.6	-14.2%
Lialda/Mezavant	11.7	13.6	11.2	3.3	39.9	23.4	-41.3%
Amitiza	7.9	8.4	9.6	7.1	33.0	28.1	-14.7%
Resolor/Motegrity	0.7	0.7	1.8	0.7	3.9	6.6	69.4%
Other	7.0	7.6	5.2	6.8	26.6	20.2	-24.0%
Rare Metabolic	**49.4**	**47.9**	**51.0**	**42.3**	**190.7**	**170.8**	**-10.4%**
Elaprase	19.1	18.9	19.1	15.1	72.2	67.9	-5.9%
Replagal	13.6	13.6	13.4	11.4	52.0	51.3	-1.5%
Vpriv	9.7	9.7	10.7	8.7	38.8	38.0	-2.1%
Natpara	7.0	5.7	7.9	7.1	27.6	13.6	-50.7%
Rare Hematology	**105.2**	**102.1**	**107.6**	**66.7**	**381.5**	**334.2**	**-12.4%**
Advate	53.2	49.5	53.8	32.1	188.6	157.9	-16.3%
Adynovate	13.2	15.4	15.4	10.7	54.7	58.7	7.2%
FEIBA *1	21.0	17.2	16.3	9.6	64.0	51.5	-19.6%
Hemofil/Immunate/Immunine *1	5.5	5.7	7.2	5.5	23.9	22.3	-6.5%
Other PDT Products *1	1.0	0.6	0.8	0.5	2.8	3.7	31.7%
Other	11.4	13.7	14.1	8.2	47.4	40.2	-15.3%
Hereditary Angioedema	**39.7**	**36.5**	**32.8**	**20.4**	**129.5**	**129.8**	**0.3%**
Firazyr	23.0	15.6	24.4	6.4	69.3	32.7	-52.9%
Takhzyro		5.7	1.2	9.7	16.7	68.3	309.5%
Kalbitor	1.9	2.3	2.1	1.2	7.4	4.5	-38.8%
Cinryze *1	14.8	13.0	5.1	3.1	36.0	24.3	-32.4%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

(Bn JPY)	FY18 Reported Pro-forma *2					FY19 Reported	
	Q1	Q2	Q3	Q4	Annual	Annual	YOY
PDT Immunology	**89.1**	**100.0**	**101.9**	**81.0**	**371.9**	**394.2**	**6.0%**
Immunoglobulin *1	69.5	75.5	77.4	64.3	286.7	298.7	4.2%
Albumin *1	12.9	17.3	17.0	11.0	58.2	67.2	15.6%
Other *1	6.7	7.2	7.5	5.6	27.1	28.3	4.4%
Oncology	**98.9**	**99.5**	**108.2**	**92.8**	**399.4**	**421.0**	**5.4%**
Velcade	31.4	33.5	35.4	27.5	127.9	118.3	-7.5%
Leuprorelin	28.6	26.5	29.5	25.4	110.1	109.0	-0.9%
Ninlaro	14.0	15.4	17.1	15.7	62.2	77.6	24.7%
Adcetris	11.0	10.1	10.9	10.9	42.9	52.7	22.8%
Iclusig	7.0	7.2	7.4	7.1	28.7	31.8	10.8%
Alunbrig	1.1	1.2	1.5	1.4	5.2	7.2	39.2%
Vectibix	5.4	5.1	5.7	4.3	20.5	22.5	10.1%
Other	0.5	0.5	0.6	0.4	2.0	1.8	-13.8%
Neuroscience	**100.8**	**104.2**	**118.4**	**81.0**	**404.4**	**438.5**	**8.5%**
Vyvanse	60.4	66.0	71.0	49.4	246.8	274.1	11.1%
Trintellix	14.1	13.0	17.5	12.9	57.6	70.7	22.8%
Adderall XR	8.8	8.6	11.3	5.4	34.1	24.3	-28.8%
Rozerem	5.2	4.9	4.8	4.2	19.1	14.5	-24.3%
Reminyl	5.0	4.3	5.3	3.7	18.3	17.3	-5.2%
Intuniv	2.7	2.9	2.9	1.3	9.8	14.6	48.9%
Other	4.5	4.5	5.6	4.0	18.7	23.1	23.6%
Other						**704.7**	
Azilva	19.4	15.8	20.5	15.0	70.8	76.7	8.5%
Nesina	14.1	12.7	15.6	12.3	54.8	58.0	5.8%
Uloric	14.1	12.4	14.0	10.6	51.1	16.9	-66.9%
Colcrys	9.2	7.1	7.3	6.4	30.0	22.5	-25.1%
Enbrel	9.9	8.2	9.8	7.3	35.2	29.3	-16.9%
Lotriga	8.1	7.1	9.0	6.6	30.9	31.8	2.9%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

5. FY2020 Product Forecasts

(Bn JPY)	FY19 Reported Actual					YOY vs. FY18 Reported Pro-forma*2	FY20 Reported Forecasts	
	Q1	Q2	Q3	Q4	Annual		Annual	YOY
GI	**171.6**	**169.9**	**191.6**	**164.7**	**697.9**	**8.5%**	**765.0**	**9.6%**
Entyvio	83.9	84.5	95.1	83.7	347.2	29.0%	430.0	23.8%
Dexilant	15.8	15.3	16.9	14.8	62.8	-9.2%	54.0	-14.0%
Pantoprazole	11.6	12.8	13.9	11.1	49.5	-19.7%	39.0	-21.2%
Takecab-F	18.3	16.7	20.7	17.1	72.7	24.8%	82.0	12.8%
Gattex/Revestive	15.1	14.1	17.7	14.9	61.8	19.0%	66.0	6.8%
Pentasa	6.5	6.5	7.2	5.4	25.6	-14.2%	23.0	-10.1%
Lialda/Mezavant	5.6	6.7	6.0	5.2	23.4	-41.3%	18.0	-23.1%
Amitiza	7.8	7.3	7.0	6.0	28.1	-14.7%	23.0	-18.3%
Resolor/Motegrity	1.4	1.3	2.0	1.9	6.6	69.4%	8.0	21.9%
Other	5.6	4.7	5.1	4.8	20.2	-24.0%	22.0	8.8%
Rare Metabolic	**48.9**	**43.2**	**40.2**	**38.5**	**170.8**	**-10.4%**	**161.0**	**-5.8%**
Elaprase	18.8	16.7	16.8	15.6	67.9	-5.9%	68.0	0.1%
Replagal	12.9	12.6	13.1	12.7	51.3	-1.5%	51.0	-0.5%
Vpriv	9.3	9.4	9.7	9.6	38.0	-2.1%	38.0	-0.0%
Natpara	7.9	4.5	0.6	0.6	13.6	-50.7%	4.0	-70.7%
Rare Hematology	**89.9**	**84.8**	**84.5**	**75.0**	**334.2**	**-12.4%**	**283.0**	**-15.3%**
Advate	42.7	40.5	39.9	34.8	157.9	-16.3%	184.0	-15.0%
Adynovate	16.7	13.1	15.1	13.9	58.7	7.2%		
FEIBA *1	13.1	14.8	11.7	11.9	51.5	-19.6%	36.0	-30.1%
Hemofil/Immunate/Immunine *1	6.6	5.6	5.8	4.4	22.3	-6.5%	20.0	-10.5%
Other PDT Products *1	0.6	0.5	1.8	0.8	3.7	31.7%	4.0	8.6%
Other	10.3	10.3	10.2	9.3	40.2	-15.3%	39.0	-2.9%
Hereditary Angioedema	**31.9**	**28.5**	**33.7**	**35.8**	**129.8**	**0.3%**		**-10%~0%**
Firazyr	9.0	6.3	7.5	9.9	32.7	-52.9%	21.0	-35.7%
Takhzyro	14.5	16.2	18.2	19.4	68.3	309.5%		+20%~+30%
Kalbitor	1.1	1.3	1.1	1.0	4.5	-38.8%	4.0	-12.0%
Cinryze *1	7.3	4.7	6.9	5.4	24.3	-32.4%	18.0	-26.1%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

Other PDT products in Rare Hematology include Bebulin, Prothromplex and Factor VII.

Other in Rare Hematology include Vonvendi, Obizur, Rixubis, Agrylin/Xagrid, Recombinate, Other Hemophilia.

Assumption of FX rates for FY20 Reported Forecasts: 1 USD = 109 JPY, 1 Euro = 120 JPY, 1 RUB = 1.6 JPY, 1 BRL = 23.3 JPY, 1 CNY = 15.5 JPY

Product revenue forecasts represent Takeda's expectations based on information available to it as of the date hereof, and actual results may differ from such forecasts due to a wide variety of factors, many of which are outside of Takeda's control. See "Forward-Looking Statements."

(Bn JPY)	FY19 Reported Actual					YOY vs. FY18 Reported Pro-forma*2	FY20 Reported Forecasts	
	Q1	Q2	Q3	Q4	Annual		Annual	YOY
PDT Immunology	**90.2**	**101.5**	**104.9**	**97.6**	**394.2**	**6.0%**		**+10%~+20%**
Immunoglobulin *1	68.0	78.5	78.9	73.3	298.7	4.2%		+10%~+20%
Albumin *1	16.1	17.9	15.7	17.5	67.2	15.6%		+10%~+20%
Other *1	6.0	5.1	10.3	6.8	28.3	4.4%		0%~+10%
Oncology	**106.5**	**108.4**	**103.1**	**103.0**	**421.0**	**5.4%**	**418.0**	**-0.7%**
Velcade	31.7	31.9	27.2	27.5	118.3	-7.5%	92.0	-22.2%
Leuprorelin	28.4	28.3	26.0	26.4	109.0	-0.9%	106.0	-2.8%
Ninlaro	18.3	20.0	19.8	19.5	77.6	24.7%	85.0	9.6%
Adcetris	12.7	13.0	13.7	13.2	52.7	22.8%	60.0	13.9%
Iclusig	7.6	7.0	8.2	9.0	31.8	10.8%	34.0	6.9%
Alunbrig	1.7	1.7	1.8	2.1	7.2	39.2%	11.0	52.0%
Vectibix	5.6	6.0	6.0	4.9	22.5	10.1%	23.0	2.0%
Other	0.4	0.5	0.4	0.4	1.8	-13.8%	7.0	298.3%
Neuroscience	**111.9**	**102.0**	**116.7**	**108.0**	**438.5**	**8.5%**	**459.0**	**4.7%**
Vyvanse	68.8	62.7	75.3	67.3	274.1	11.1%	290.0	5.8%
Trintellix	17.4	17.2	19.7	16.4	70.7	22.8%	82.0	16.0%
Adderall XR	5.7	4.9	4.4	9.3	24.3	-28.8%	23.0	-5.4%
Rozerem	5.1	3.6	3.1	2.7	14.5	-24.3%	12.0	-17.1%
Reminyl	4.8	4.2	4.9	3.5	17.3	-5.2%	8.0	-53.9%
Intuniv	4.1	4.0	2.9	3.7	14.6	48.9%	19.0	29.9%
Other	6.0	5.3	6.5	5.2	23.1	23.6%	25.0	8.4%
Other	**198.3**	**172.8**	**184.7**	**149.0**	**704.7**			**-20%~-10%**
Azilva	20.5	18.2	20.4	17.6	76.7	8.5%	78.0	1.6%
Nesina	14.6	14.0	15.5	13.9	58.0	5.8%	57.0	-1.7%
Uloric	12.2	1.8	1.4	1.4	16.9	-66.9%	3.0	-82.2%
Colcrys	7.2	6.0	6.6	2.7	22.5	-25.1%	14.0	-37.8%
Enbrel *3	8.7	7.2	8.1	5.2	29.3	-16.9%		
Lotriga	8.8	7.2	8.8	7.0	31.8	2.9%	30.0	-5.5%

*1 PDT products

*2 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

*3 Terminated co-promotion in Japan.

Other in PDT Immunology include Aralast, Glassia, Ceprotin, Antithrombin III, Kenktsu-Nonthron and others

Other in Neuroscience include Copaxone, Rasagiline, Mydayis, Buccolam, Daytrana/Equasym and Carbatrol/Equetro

Assumption of FX rates for FY20 Reported Forecasts: 1 USD = 109 JPY, 1 Euro = 120 JPY, 1 RUB = 1.6 JPY, 1 BRL = 23.3 JPY, 1 CNY = 15.5 JPY

Product revenue forecasts represent Takeda's expectations based on information available to it as of the date hereof, and actual results may differ from such forecasts due to a wide variety of factors, many of which are outside of Takeda's control. See "Forward-Looking Statements."

6. Exchange Rate

(yen)

CURRENCY	Average Exchange Rates vs. JPY		
	FY18	FY19	FY20 Assumption
USD	111	109	109
EUR	129	121	120
RUB	1.7	1.7	1.6
CNY	16.5	15.7	15.5
BRL	29.5	26.9	23.3

(100 million yen)

Impact of 1% depreciation of yen from April 2020 to March 2021			
REVENUE	CORE OPERATING PROFIT	OPERATING PROFIT	NET PROFIT
+165.4	+68.0	+21.3	+9.0
+42.7	-17.9	-26.4	-19.7
+3.6	+2.3	+1.9	+1.3
+8.9	+4.9	+4.9	+3.4
+7.1	+4.2	+4.1	+2.8

7. CAPEX, depreciation and amortization and impairment losses

(Bn JPY)

	FY18	FY19	YOY		FY20 Forecasts
Capital expenditures*	134.1	217.7	83.6	62.3%	180.0 - 230.0
Tangible assets**	77.7	127.1	49.4	63.6%	
Intangible assets**	56.4	90.6	34.2	60.6%	
* Cash flow base ** Excluding increase due to acquisition.					
Depreciation and amortization	247.1	583.6	336.5	136.2%	
Depreciation of tangible assets* (A)	63.3	156.0	92.7	146.4%	
Amortization of intangible assets (B)	183.8	427.6	243.8	132.6%	
Of which Amortization associated with products (C)	170.0	412.1	242.1	142.4%	407.0
Of which Amortization excluding intagible assets associated with products (D)	13.8	15.5	1.7	12.3%	
* Excluding depreciation for investment assets.					
Depreciation and amortization (excluding intangible assets associated with products) (A)+(D)	77.2	171.6	94.4	122.4%	150.0
Impairment losses	10.1	101.9	91.8	906.7%	
Impairment losses associated with products	8.6	43.3	34.7	401.4%	50.0
Amortization and impairment losses on intangible assets associated with products	178.6	455.4	276.8	155.0%	457.0

(Notes) During FY2019, Takeda completed the purchase price allocation for the assets acquired and the liabilities assumed as part of the Shire acquisition. Accordingly, Consolidated Statements for FY2018, were retrospectively adjusted.

8. Financial Indicators

	FY17	FY18	FY19
[Growth rates]			
Revenue (%)	2.2	18.5	56.9
Operating profit (%)	55.1	-1.7	-57.8
Net profit (%) (1)	62.6	-27.7	-67.3
[Profitability ratios]			
Gross profit margin (%)	72.0	68.9	66.9
Operating margin (%)	13.7	11.3	3.1
Net margin (%) (1)	10.6	6.4	1.3
Return on total assets (%) (1)	4.4	1.5	0.3
Return on equity attributable to owners of the Company（ROE）(%)	9.6	3.8	0.9
[Stability ratios]			
Ratio of equity attributable to owners of the Company to total assets (%)	48.6	37.6	36.8
Current ratio (%)	146.3	117.2	113.5
Non-current assets to long-term capital (%) (1)	90.4	96.1	97.3
[Efficiency ratios]			
Asset turnover (times)	0.43	0.15	0.26
Fixed-asset turnover (times)	0.58	0.19	0.32
Notes and accounts receivable turnover (times) (2)	4.79	3.17	4.87
[Other ratios]			
R&D expenses to revenue (%)	18.4	17.6	15.0
Equity attributable to owners of the Company per share (JPY)	2,557	3,333	3,032
Basic earnings per share (EPS) (JPY) (1)	239.35	140.61	28.41
Growth Rate of EPS (%)	62.7	-41.3	-79.8
Annual dividends per share	180.0	180.0	180.0
Payout ratio (%)	75.2	128.0	633.6
Dividend on equity attributable to owners of the Company（DOE）(%)	7.2	6.1	5.7
Stock price at year-end (JPY)	5,183	4,521	3,308
Total market value (Billion JPY)	4,118.9	7,075.4	5,214.6

(1) Ratios are calculated based on amounts attributable to owners of the Company.

(2) "Notes and accounts receivable turnover" are after adjustment of outstanding balance at each fiscal year end if the ending day falls on weekend or holiday, and to be paid on the beginning day of the following fiscal term.

(Notes) During FY2019, Takeda completed the purchase price allocation for the assets acquired and the liabilities assumed as part of the Shire acquisition. Accordingly, Consolidated Statements for FY2018, were retrospectively adjusted.

9. Reconciliation from Reported Revenue to Underlying Revenue

(BN YEN)	FY2018[*1]	FY2019	vs. PY	
Revenue	**2,097.2**	**3,291.2**	**+1,194.0**	**+56.9%**
Shire Revenue	1,301.8	-		
Pro-forma Revenue	**3,399.0**	**3,291.2**	**-107.9**	**-3.2%**
FX effects[*2]				+3.6pp
Divestitures[*3]				+1.2pp
Techpool & Multilab				+0.2pp
XIIDRA & TACHOSIL				+1.0pp
Others				-0.0pp
Underlying Revenue Growth				**+1.6%**

*1 FY2018 revenue is a pro-forma which adds Legacy Shire's revenue from April 2018 through the acquisition date previously reported under US GAAP and conformed to IFRS without material differences, excluding Legacy Shire's oncology business, which was sold in August 2018, and converted to JPY using FY2018 actual rate for the period.

*2 FX adjustment applies constant FY2018 actual full year average rate to both years (1USD=111 yen, 1EUR=129 yen).

*3 Major adjustments are the exclusion of FY2018 revenue of former subsidiaries Guangdong Techpool Bio-Pharma Co., Ltd. and Multilab Indústria e Comércio de Produtos Farmacêuticos Ltda., both divested in FY2018; FY2018 and FY2019 revenue of XIIDRA which was divested in July 2019; and TACHOSIL (Takeda agreed in May 2019 to divest TACHOSIL, and although the agreement to divest the product to Ethicon was terminated in April 2020, it is still adjusted as Takeda continues to explore opportunities to divest TACHOSIL as part of its ongoing divestiture and deleveraging strategy. Assets and liabilities related to TACHOSIL continue to be classified as being held for sale on the consolidated statements of financial position.).

10. Reconciliation from Reported to Core/Underlying Core – FY2019 FULL YEAR

(BN YEN)	REPORTED	REPORTED TO CORE ADJUSTMENTS							CORE	CORE TO UNDERLYING CORE ADJ.		UNDERLYING CORE
		Amortization & impairment of intangible assets	Other operating income/ expense	Shire acquisition related costs	Shire purchase accounting adjustments	Swiss Tax Reform	Teva JV related accounting adjustments	Others		FX	Divestitures	
Revenue	3,291.2								3,291.2	102.4	-30.5	
Cost of sales	-1,089.8				199.5				-890.3	-27.9	5.0	
Gross Profit	2,201.4				199.5				2,400.9	74.4	-25.5	
SG&A expenses	-964.7			5.5	2.4				-956.8	-29.0		
R&D expenses	-492.4			10.4	0.1				-481.9	-8.9		
Amortization of intangible assets	-412.1	87.0			325.1				-			
Impairment losses on intangible assets	-43.3	43.3							-			
Other operating income	60.2		-46.0				-14.2		-			
Other operating expenses	-248.7		113.3	135.4					-			
Operating profit	100.4	130.3	67.3	151.2	527.1		-14.2		962.2	36.5	-25.5	
Margin	3.1%								29.2%			**28.9%**
Financial income/expenses	-137.2			7.1	14.4			-20.1	-135.7	5.3		
Equity income/loss	-24.0						32.2		8.2	-0.0		
Profit before tax	-60.8	130.3	67.3	158.3	541.6		18.0	-20.1	834.7	41.8	-25.5	
Tax expense	105.0	-31.7	-10.8	-29.2	-98.2	-94.6	-5.5	-67.5	-232.4	-10.0	5.9	
Non-controlling interests	-0.0								-0.0			
Net profit	44.2	98.7	56.5	129.1	443.4	-94.6	12.5	-87.6	602.2	31.8	-19.6	
EPS (yen)	28								387	21	-13	**395**
Number of shares (millions)	1,557								1,557			1,555

11. Reconciliation from Reported to Core – FY2018 FULL YEAR

(BN YEN)	REPORTED *1	REPORTED TO CORE ADJUSTMENTS							CORE
		Amortization & impairment of intangible assets	Other operating income/ expense	Shire acquisition related costs	Shire *1 purchase accounting adjustments	Teva JV related accounting adjustments	Gains on sales of securities & properties	Others	
Revenue	2,097.2								2,097.2
Cost of sales	-651.7				73.8				-578.0
Gross Profit	1,445.5				73.8				1,519.3
SG&A expenses	-717.6			23.8	0.6				-693.2
R&D expenses	-368.3			1.6					-366.7
Amortization of intangible assets	-170.0	95.5			74.5				-
Impairment losses on intangible assets	-8.6	8.6							-
Other operating income	159.9		-40.9			-30.4	-88.6		-
Other operating expenses	-103.2		43.5	59.6					-
Operating profit	237.7	104.1	2.6	85.0	148.9	-30.4	-88.6		459.3
Margin	11.3%								21.9%
Financial income/expenses	-66.4			18.1	4.0			2.3	-42.0
Equity income/loss	-43.6					53.5			9.8
Profit before tax	127.6	104.1	2.6	103.1	152.9	23.1	-88.6	2.3	427.2
Tax expense	7.5	-25.5	-4.0	-12.3	-37.3	-7.1	30.2	-57.5	-105.9
Non-controlling interests	0.1								0.1
Net profit	135.2	78.6	-1.4	90.8	115.6	16.0	-58.4	-55.2	321.4
EPS (yen)	141								334
Number of shares (millions)	961								961

*1 During FY2019, Takeda completed the purchase price allocation for the assets acquired and the liabilities assumed as part of the Shire acquisition. Accordingly, PL statements for FY2018 were retrospectively adjusted.

12. Reconciliation from Net Profit to EBITDA/Adjusted EBITDA

(BN JPY)	FY2018	FY2019
Net profit for the year	135.1	44.3
Income tax expenses	-7.5	-105.0
Depreciation and amortization	247.7	583.6
Interest expense, net	41.6	137.8
EBITDA	416.9	660.7
Impairment losses	10.1	101.9
Other operating expense (income), net, excluding depreciation and amortization	-58.6	124.1
Finance expense (income), net, excluding interest income and expense, net	24.9	-0.6
Share of loss on investments accounted for under the equity method	43.6	24.0
Other adjustments:		
Impact on profit related to fair value step up of inventory in Shire acquisition	74.2	191.0
Acquisition costs related to Shire	23.8	5.3
Other costs[*1]	1.6	19.5
Adjusted EBITDA	536.4	1,125.9
Legacy Shire's Non-GAAP EBITDA[*2]	541.3	N/A
Pro-forma Adjusted EBITDA[*3]	1,077.7	N/A

*1 FY2019 includes adjustments for non-cash equity based compensation expense and EBITDA of divested products.

*2 Subtracted Legacy Shire's Jan – Mar 2018 (3 months) Non GAAP EBITDA from Legacy Shire's Jan – Dec 2018 (12 months) Non GAAP EBITDA and converted to JPY with average exchange rate of ： of 1: 110.8 (Apr – Dec 2018).

*3 12-month Apr 2018 – Mar 2019 combined Adjusted EBITDA of Takeda and Legacy Shire.

Note: Takeda's Adjusted EBITDA and Legacy Shire's Non-GAAP EBITDA are not directly comparable, because (1) Takeda's results are based on IFRS and Legacy Shire's results are based on U.S. GAAP and (2) Takeda's Adjusted EBITDA and Legacy Shire's Non-GAAP EBITDA are defined differently.

II. Pipeline

1. Clinical Development Activities

- The following table lists the pipeline assets that we are developing as of May 13, 2020. The assets in our pipeline are in various stages of development, and the contents of the pipeline may change as compounds currently under development drop out and new compounds are introduced. Whether the compounds listed below are ever successfully released as products depends on various factors, including the results of pre-clinical and clinical trials, market conditions for various drugs and regulatory approvals.
- This table primarily shows the indications for which we will actively pursue approval. We are also conducting additional studies of certain assets to examine their potential for use in further indications and in additional formulations.
- The listings in this table are limited to the U.S., EU and Japan and China, but we are also actively conducting development activities in other regions, including in Emerging Markets. Country/region in the "Stage" column denote where a clinical study is ongoing or a filing has been made with our specific intention to pursue approval in any of the U.S., EU, Japan or China. 'Global' refers to U.S., EU, Japan and China.
- Brand name and country/region indicate the brand name and country in which the specific asset has already been approved for any indication in any of the U.S., EU, Japan or China and Takeda has commercialization rights for such asset.
- Stage-ups are recognized in the table upon achievement of First Subject In.

■ Oncology Pipeline

Development code <generic name> Brand name (country/region)	Drug Class (administration route)	Indications / additional formulations	Stage	
SGN-35*1 <brentuximab vedotin> *ADCETRIS* (EU, Japan)	CD30 monoclonal antibody-drug conjugate (injection)	Front line Peripheral T-cell Lymphoma	EU	Filed (June 2019)
		Relapsed/refractory Hodgkin Lymphoma	China	Filed (March 2019)
		Relapsed/refractory Anaplastic Large Cell Lymphoma	China	Filed (March 2019)
<brigatinib> *ALUNBRIG* (U.S., EU)	ALK inhibitor (oral)	1L ALK-positive Non-Small Cell Lung Cancer	U.S. Japan China	Filed (January 2020) P-III P-III
		2L ALK-positive Non-Small Cell Lung Cancer (head-to-head with alectinib)	Global	P-III
		2L ALK-positive Non-Small Cell Lung Cancer in patients previously treated with ALK inhibitors	Japan	Filed (February 2020)
		2L ALK-positive Non-Small Cell Lung Cancer in patients progressed on 2nd generation Tyrosine Kinase Inhibitors	Global	P-II
MLN9708 <ixazomib> *NINLARO* (Global)	Proteasome inhibitor (oral)	Maintenance therapy in patients with newly diagnosed Multiple Myeloma following autologous stem cell transplant	U.S. EU	P-III P-III
		Maintenance therapy in patients with newly diagnosed Multiple Myeloma not treated with stem cell transplant	Global	P-III
		Relapsed/refractory Multiple Myeloma (doublet regimen with dexamethasone)	U.S. EU	P-II P-II
		Relapsed/refractory Multiple Myeloma (triplet regimen with daratumumab and dexamethasone)	Global	P-II
<cabozantinib>*2 *CABOMETYX* (Japan)	Multi-targeted kinase inhibitor (oral)	2L Hepatocellular carcinoma	Japan	Filed (January 2020)
		1L Renal cell carcinoma in combination with nivolumab	Japan	P-III
<niraparib>*3	PARP1/2 inhibitor (oral)	Ovarian cancer – maintenance	Japan	Filed (November 2019)
		Ovarian cancer – salvage	Japan	Filed (November 2019)
<ponatinib> *ICLUSIG* (U.S.)	BCR-ABL inhibitor (oral)	Front line Philadelphia chromosome-positive Acute Lymphoblastic Leukemia	U.S.	P-III
		Dose ranging study for Tyrosine Kinase Inhibitor-resistant patients with chronic-phase Chronic Myeloid Leukemia	U.S.	P-II(b)
TAK-924 <pevonedistat>	NEDD 8 activating enzyme inhibitor (injection)	High-risk Myelodysplastic Syndromes, Chronic Myelomonocytic Leukemia, Low-blast Acute Myelogenous Leukemia	U.S. EU Japan	P-III P-III P-III
		Unfit Acute Myelogenous Leukemia	Global	P-III
TAK-788 <mobocertinib>	EGFR/HER2 exon 20 inhibitor (oral)	Treatment Naïve Non-Small Cell Lung Cancer with Exon-20 insertion	Global	P-III
		Previously treated Non-Small Cell Lung Cancer with Exon-20 insertion	Global	P-II
TAK-385 <relugolix>	LH-RH antagonist (oral)	Prostate cancer	Japan China	P-III P-III

TAK-007[*4]	CD19 CAR-NK (injection)	Relapsed/refractory B-cell malignancies	-	P-I/II
TAK-169[*5]	CD38-SLTA (injection)	Relapsed/refractory Multiple Myeloma	-	P-I
TAK-573*[6]	CD38-targeted IgG4 genetically fused with an attenuated IFNα (injection)	Relapsed/refractory Multiple Myeloma	-	P-I
TAK-981	SUMO inhibitor (injection)	Multiple cancers	-	P-I
TAK-252 / SL-279252*[7]	PD-1-Fc-OX40L (injection)	Solid tumors or lymphomas	-	P-I

*1 Partnership with Seattle Genetics, Inc.
*2 Partnership with Exelixis, Inc.
*3 Partnership with GlaxoSmithKline
*4 Partnership with The University of Texas MD Anderson Cancer Center
*5 Partnership with Molecular Templates
*6 Partnership with Teva Pharmaceutical Industries Ltd.
*7 Partnership with Shattuck Labs, Inc.

Additions since FY2019 Q3: TAK-169 for Multiple Myeloma (P-I, achieved First-Subject-In)
Removals since FY2019 Q3: TAK-164 for GI malignancies (P-I, discontinued)
Brigatinib for 1L ALK-positive Non-Small Cell Lung Cancer (EU, approved April 2020)
MLN9708 for Maintenance therapy in patients with newly diagnosed Multiple Myeloma following autologous stem cell transplant (Japan, approved March 2020)
MLN9708 for Newly diagnosed Multiple Myeloma (Global P-III, discontinued)
Cabozantinib for Curatively unresectable or metastatic Renal Cell Carcinoma (Japan, approved March 2020)

■ Rare Diseases Pipeline

Development code <generic name> Brand name (country/region)	Drug Class (administration route)	Indications / additional formulations	Stage	
TAK-743 <lanadelumab> *TAKHZYRO* (U.S., EU)	Plasma kallikrein inhibitor (injection)	Hereditary Angioedema	China Japan	Filed (December 2018) P-III
		Pediatric Hereditary Angioedema	Global	P-III
TAK-577 *VONVENDI* (U.S., Japan), *VEYVONDI* (EU)	von Willebrand factor [recombinant] (injection)	Prophylactic treatment of von Willebrand disease	Global	P-III
		Pediatric on-demand treatment of von Willebrand disease	Global	P-III
TAK-672[*1] *OBIZUR* (U.S., EU)	Antihemophilic factor [recombinant], porcine sequence (injection)	Congenital hemophilia A with inhibitors	U.S. EU	P-III P-III
TAK-660 *ADYNOVATE* (U.S., Japan), *ADYNOVI* (EU)	Antihemophilic factor [recombinant], PEGylated (injection)	Pediatric Hemophilia A	EU	P-III
TAK-755[*2]	Replacement of the deficient-ADAMTS13 enzyme (injection)	Congenital Thrombotic Thrombocytopenic Purpura	U.S. EU	P-III P-III
		Immune Thrombotic Thrombocytopenic Purpura	U.S. EU	P-II P-II
		Sickle cell disease	U.S.	P-I/II
TAK-620[*3] **<maribavir>**	Benzimidazole riboside inhibitor (oral)	Cytomegalovirus infection in transplant patients	U.S. EU	P-III P-III
TAK-607	Insulin-like Growth Factor / IGF Binding Protein (injection)	Complications of prematurity	-	P-II
TAK-609	Recombinant human iduronate-2-sulfatase for intrathecal administration (injection)	Hunter syndrome CNS	U.S. EU	P-II P-II
TAK-611	Recombinant human arylsulfatase A for intrathecal administration (injection)	Metachromatic leukodystrophy	-	P-II
TAK-754*[4]	Gene therapy to restore endogenous FVIII expression	Hemophilia A	-	P-I/II

TAK-079[*5]	Anti-CD38 monoclonal antibody (injection)	Myasthenia gravis	-	P-I/II
		Systemic lupus erythematosus	-	P-I/II
TAK-834 *NATPARA* (U.S.), *NATPAR* (EU)	Parathyroid hormone (injection)	Hypoparathyroidism	Japan	P-I[*6]

*1 Partnership with Ipsen
*2 Partnership with KM Biologics
*3 Partnership with GlaxoSmithKline
*4 Partnership with Asklepios Biopharmaceuticals
*5 Relapsed/refractory Multiple Myeloma will continue until trial completion. TAK-079 to be developed in Rare Diseases indications myasthenia gravis (MG) and immune thrombocytopenic purpura (ITP); First-Patient-In expected H1 FY20
*6 NATPARA P-I study in Japan completed; P-III study start timing under review.

Removals since FY2019 Q3: TAK-577 for von Willebrand disease (Japan, approved March 2020)

■ Neuroscience Pipeline

Development code <generic name> Brand name (country/region)	Drug Class (administration route)	Indications / additional formulations		Stage
TAK-815 **<midazolam>** *BUCCOLAM* (EU)	GABA Allosteric Modulator (oromucosal)	Status epilepticus (seizures)	Japan	Filed (February 2020)
TAK-831	D-amino acid oxidase (DAAO) inhibitor (oral)	Negative symptoms and/or cognitive impairment associated with schizophrenia	-	P-II(a)
TAK-935 **<soticlestat>**	CH24H inhibitor (oral)	Dravet Syndrome, Lennox-Gastaut syndrome[*1]	-	P-II
		15q duplication syndrome, CDKL5 deficiency disorder[*1]		P-II
		Complex Regional Pain Syndrome		P-II
WVE-120101[*2]	mHTT SNP1 antisense oligonucleotide (injection)	Huntington's disease	-	P-I/II
WVE-120102[*2]	mHTT SNP2 antisense oligonucleotide (injection)	Huntington's disease	-	P-I/II
TAK-041	GPR139 agonist (oral)	Negative symptoms and/or cognitive impairment associated with schizophrenia	-	P-I
TAK-341/MEDI1341[*3]	Alpha-synuclein antibody (injection)	Parkinson’s disease	-	P-I
TAK-418	LSD1 inhibitor (oral)	Kabuki syndrome	-	P-I
TAK-653	AMPA receptor potentiator (oral)	Treatment resistant depression	-	P-I
TAK-925	Orexin 2R agonist (injection)	Narcolepsy, other sleep disorders	-	P-I
TAK-994	Orexin 2R agonist (oral)	Narcolepsy	-	P-I

*1 Co-development with Ovid Therapeutics Inc.
*2 50:50 co-development and co-commercialization option with Wave Life Sciences Ltd.
*3 Partnership with AstraZeneca. AstraZeneca leads Phase 1 development

■ GI Pipeline

Development code <generic name> Brand name (country/region)	Drug Class (administration route)	Indications / additional formulations	Stage	
MLN0002 <vedolizumab> *ENTYVIO* (U.S., EU, Japan)	Humanized monoclonal antibody against α4β7 integrin (injection)	Subcutaneous formulation for ulcerative colitis	U.S. Japan	CRL received (Dec 2019)*8 Filed (August 2019)
		Subcutaneous formulation for Crohn's disease	U.S. Japan	P-III P-III
		Graft-versus-Host Disease prophylaxis in patients undergoing allogeneic hematopoietic stem cell transplantation	EU Japan	P-III P-III
		Pediatrics Study (ulcerative colitis, Crohn's disease)	Global	P-II
TAK-438 <vonoprazan> *TAKECAB* (Japan) *VOCINTI* (China)	Potassium-competitive acid blocker (oral)	Oral disintegrated tablet formulation	Japan	P-III
		Acid related diseases (Reflex Esophagitis Maintenance)	China	Filed (March 2020)
		Acid related diseases (Duodenal Ulcer, adjunct to Helicobacter pylori eradication)	China	Filed (April 2020)
TAK-633 <teduglutide> *GATTEX* (U.S.) *REVESTIVE* (EU)	GLP-2 analogue (injection)	Short bowel syndrome (pediatric indication)	Japan	P-III
		Short bowel syndrome (in adults)	Japan	P-III
Cx601 <darvadstrocel> *ALOFISEL* (EU)	A suspension of allogeneic expanded adipose-derived stem cells (injection)	Refractory complex perianal fistulas in patients with Crohn's disease	U.S. Japan	P-III P-III
TAK-721*1 <budesonide>	Glucocorticosteroid (oral)	Eosinophilic esophagitis	U.S.	P-III
TAK-906	Dopamine D2/D3 receptor antagonist (oral)	Gastroparesis	-	P-II(b)
TAK-954*2	5-HT_4 - hydroxytryptamine receptor agonist (injection)	Post-operative gastrointestinal dysfunction	-	P-II(b)
TAK-101*3	Tolerizing Immune Modifying nanoParticle (TIMP) (injection)	Celiac disease	-	P-II(a)
TAK-018/EB8018*4	FimH antagonist (oral)	Crohn's disease (post-operative and ileitis)	-	P-II
TAK-951	Peptide agonist (sub-cutaneous)	Nausea and vomiting	-	P-I
TAK-671*5	Protease inhibitor (injection)	Acute pancreatitis	-	P-I
TAK-062*6	Glutenase (oral)	Celiac disease	-	P-I
TAK-039*7	Bacterial consortium (oral)	Clostridium difficile infections	-	P-I

*1 Partnership with UCSD and Fortis Advisors
*2 Partnership with Theravance Biopharma, Inc.
*3 Acquired license for TAK-101 from Cour Pharmaceutical Development Company. Previously known as TIMP-GLIA.
*4 Partnership with Enterome Bioscience SA
*5 Partnership with Samsung Bioepis
*6 Acquired PvP Biologics, Inc. including TAK-062. Previously known as Kuma062.
*7 Partnership with with NuBiyota
*8 Complete Response Letter (CRL) is unrelated to the clinical safety and efficacy data, and included queries related to the design and labelling of the SC product. Takeda is working to resolve CRL and expects an updated timeline within H1 CY2020.

Additions since FY2019 Q3: TAK-438 for oral disintegrated tablet formulation (Japan, P-III)
TAK-438 for acid related diseases (Reflex Esophagitis Maintenance) (China, filed March 2020)
TAK-438 for acid related diseases (Duodenal Ulcer, adjunct to Helicobacter pylori eradication) (China, P-III)
TAK-039 for C.diff infections (P-I)

Removals since FY2019 Q3: MLN0002 for Ulcerative Colitis (China, approved March 2020)
MLN0002 for Crohn's disease (China, approved March 2020)
Subcutaneous MLN0002 for Ulcerative Colitis and Crohn's disease (EU, approved May 2020)
TAK-438 Fixed-dose combination with low-dose aspirin (Japan, approved March 2020)

■ Plasma-Derived Therapies Pipeline

Development code <generic name> Brand name (country/region)	Drug Class (administration route)	Indications / additional formulations		Stage
TAK-616 *CINRYZE* (U.S., EU)	C1 esterase inhibitor [human] (injection)	Hereditary angioedema	Japan	P-III
TAK-771 [*1] **<IG Infusion 10% (Human) w/ Recombinant Human Hyaluronidase>** *HYQVIA* (U.S., EU)	Immunoglobulin (IgG) + recombinant hyaluronidase replacement therapy (injection)	Pediatric indication for primary immunodeficiency	U.S.	P-III
		Chronic inflammatory demyelinating polyradiculoneuropathy	U.S. EU	P-III P-III

*1 Partnership with Halozyme

■ Vaccines Pipeline

Development code Brand name (country/region)	Type of vaccine (administration route)	Indications / additional formulations		Stage
TAK-003	Tetravalent dengue vaccine (injection)	Prevention of dengue fever caused by dengue virus	-	P-III
TAK-214	Norovirus vaccine (injection)	Prevention of acute gastroenteritis (AGE) caused by norovirus	-	P-II(b)
TAK-021	EV71 vaccine (injection)	Prevention of hand, foot and mouth disease caused by enterovirus 71	-	P-I
TAK-426[*1]	Zika vaccine (injection)	Prevention of zika virus infection	-	P-I

*1 Partnership with The Biomedical Advanced Research and Development Authority (BARDA) - U.S. Government

2. Recent Progress in stage [Progress in stage disclosed since release of FY2018 results (May 14th, 2019)]

Development code <generic name>	Indications / additional formulations	Country/Region	Progress in stage
MLN0002 <vedolizumab>	Crohn's disease	Japan	Approved (May 2019)
TAK-633 <teduglutide>	Short bowel syndrome (pediatric indication)	U.S.	Approved (May 2019)
Lu AA21004 <vortioxetine>	Depression and depressed state	Japan	Approved (Sept 2019)
SGN-35 <brentuximab vedotin>	Peripheral T-cell Lymphoma	Japan	Approved (Dec 2019)
TAK-438 <vonoprazan>	Acid related diseases (reflux esophagitis)	China	Approved (Dec 2019)
SGN-35 <brentuximab vedotin>	Front line Peripheral T-cell Lymphoma	EU	Filed (June 2019)
MLN0002 <vedolizumab>	Subcutaneous formulation for ulcerative colitis	Japan	Filed (August 2019)
<niraparib>	Ovarian cancer – maintenance; Ovarian cancer – salvage	Japan	Filed (November 2019)
<cabozantinib>	2L Hepatocellular carcinoma	Japan	Filed (January 2020)
MLN0002 <vedolizumab>	Graft-versus-Host Disease prophylaxis in patients undergoing allogeneic hematopoietic stem cell transplantation	Japan	P-III
<brigatinib>	1L ALK-positive Non-Small Cell Lung Cancer	Japan, China	P-III
TAK-788	Treatment Naïve Non-Small Cell Lung Cancer with Exon-20 insertion	Global	P-III
TAK-924 <pevonedistat>	Unfit Acute Myelogenous Leukemia	Global	P-III
TAK-743 <lanadelumab>	Pediatric Hereditary Angioedema	Global	P-III
TAK-743 <lanadelumab>	Hereditary Angioedema	Japan	P-III
MLN0002 <vedolizumab>	Pediatrics Study (ulcerative colitis, Crohn's disease)	Global	P-II
TAK-755	Immune Thrombotic Thrombocytopenic Purpura	U.S., EU	P-II
TAK-935 <soticlestat>	Complex Regional Pain Syndrome	-	P-II
TAK-755	Sickle cell disease	U.S.	P-I/II
TAK-007	Relapsed/refractory B-cell malignancies	-	P-I/II
TAK-994	Narcolepsy	-	P-I
MLN9708 <ixazomib>	Maintenance therapy in patients with newly diagnosed Multiple Myeloma following autologous stem cell transplant	Japan	Approved (March 2020)
<cabozantinib>	Curatively unresectable or metastatic Renal Cell Carcinoma	Japan	Approved (March 2020)
TAK-577	von Willebrand disease	Japan	Approved (March 2020)
MLN0002 <vedolizumab>	Crohn's disease (IV)	China	Approved (March 2020)
MLN0002 <vedolizumab>	Ulcerative colitis (IV)	China	Approved (March 2020)
TAK-438 <vonoprazan>	Fixed-dose combination with low-dose aspirin	Japan	Approved (March 2020)
<brigatinib>	1L ALK-positive Non-Small Cell Lung Cancer	EU	Approved (April 2020)
MLN0002 <vedolizumab>	Subcutaneous formulation for ulcerative colitis and Crohn's disease	EU	Approved (May 2020)
<brigatinib>	1L ALK-positive Non-Small Cell Lung Cancer	U.S.	Filed (January 2020)
<brigatinib>	2L ALK-positive Non-Small Cell Lung Cancer in patients previously treated with ALK inhibitors	Japan	Filed (February 2020)
TAK-815 <midazolam>	Status epilepticus (seizures)	Japan	Filed (February 2020)

TAK-438 <vonoprazan>	Acid related diseases (Reflex Esophagitis Maintenance)	China	Filed (March 2020)
TAK-438 <vonoprazan>	Acid related diseases (Duodenal Ulcer, adjunct to Helicobacter pylori eradication)	China	Filed (April 2020)
TAK-018/EB8018	Crohn's disease (post-operative and ileitis)	-	P-II
TAK-169	Multiple Myeloma	-	P-I
TAK-039	Clostridium difficile infections	-	P-I

Progress in stage disclosed since the announcement of FY2019 Q3 results (February 4, 2020) are listed under the bold dividing line

3. Discontinued projects [Update disclosed since release of FY2018 results (May 14th, 2019)]

Development code <generic name>	Indications (Stage)	Reason
MLN9708 <ixazomib>	Relapsed/refractory primary amyloidosis (Global P-III)	Failed primary endpoint; encouraging secondary endpoint data will be submitted for presentation at an upcoming scientific meeting
TAK-659	DLBCL, hematologic malignancies (P-II(a))	Despite promising data from current and completed studies, TAK-659 does not meet the high innovation bar we have established
TAK-228 <sapanisertib>	Endometrial cancer (U.S., P-II(b))	Clinical results do not justify continued development
TAK-931	Squamous esophageal cancer; Squamous Non-Small Cell Lung Cancer (P-II(a))	Clinical results do not justify continued development in both indications
TAK-681	Short bowel syndrome (P-I)	Decision to discontinue development based on evolving competitive landscape and alignment with GI strategy
TAK-531	Hunter Syndrome CNS (P-I)	Decision to discontinue development based on additional nonclinical data
MLN9708 <ixazomib>	Newly diagnosed Multiple Myeloma (Global, P-III)	The addition of ixazomib to lenalidomide and dexamethasone resulted in an improvement in median progression-free survival (PFS) of 13.5 months (35.3 months versus 21.8 months; hazard ratio [HR] 0.83; p=0.073); however, it did not meet the threshold for statistical significance.
TAK-164	GI malignancies (P-I)	Clinical results do not justify continued development

Updates disclosed since the announcement of FY2019 Q3 results (February 4, 2020) are listed under the bold dividing line

4. Exploring Alternative Value Creation [Update disclosed since release of FY2018 results (May 14th, 2019)]

Development code <generic name>	Indications (Stage)	Reason
TAK-438 <vonoprazan>	Gastro esophageal reflux disease in patients who have a partial response following treatment with a proton pump inhibitor (EU, P-II(b))	Takeda has granted a license to Phathom Pharmaceuticals for the development and exclusive commercialization rights to vonoprazan in the U.S., Europe and Canada in exchange for upfront cash and equity, as well as future cash milestones and royalties on net sales.

5. Main Research & Development collaborations*

Oncology

Partner	Country	Subject
Adimab	U.S.	Agreement for the discovery, development and commercialization of three mAbs and three CD3 Bi-Specific antibodies for oncology indications.
Centre d'Immunologie de Marseille-Luminy	France	Collaboration agreement to bring together expertise and knowledge in innate biology with Takeda's BacTrap capabilities to identify novel targets and pathways in myeloid cells.
ASKA Pharmaceutical Co., Ltd	Japan	Takeda granted exclusive commercialization rights for uterine fibroids and exclusive development and commercialization rights for endometriosis for Japan to maximize the product value of relugolix (TAK-385).
Crescendo Biologics	U.K.	Collaboration and licensing agreement for the discovery, development and commercialization of Humabody®-based therapeutics for cancer indications.
CuraDev‡	U.K.	Curadev has licensed its novel lead small molecule Stimulator of Interferon Genes (STING) agonist (referred to by Curadev as CRD5500) and associated patents to Takeda.
Exelixis, Inc.	U.S.	Exclusive licensing agreement to commercialize and develop novel cancer therapy cabozantinib and all potential future cabozantinib indications in Japan, including advanced renal cell carcinoma and hepatocellular carcinoma.
GammaDelta Therapeutics	U.K.	Collaboration agreement to discover and develop new immunotherapies in oncology using GammaDelta Therapeutics' novel T cell platform based on the unique properties of gamma delta T cells derived from human tissues.
Haemalogix	Australia	Research collaboration and licensing agreement for the development of new therapeutics to novel antigens in multiple myeloma.
Heidelberg Pharma	Germany	Antibody-Drug-Conjugate (ADC) research collaboration on 2 targets and licensing agreement (α-amanitin payload and proprietary linker).
ImmunoGen, Inc.	U.S.	Licensing agreement for rights to use ImmunoGen's Inc. ADC technology to develop and commercialize targeted anticancer therapeutics (TAK-164).
Maverick Therapeutics	U.S.	Colabboration agreement for the development of Marveric Theraprutics' T-cell engagement platform created specifically to improve the utility of T-cell redirection therapy for the treatment of cancer. Under the agreement, Takeda have the exclusive option to acquire Marverick Therapeutics after 5 years.
MD Anderson Cancer Center, University of Texas‡	U.S.	Exclusive license agreement and research agreement to develop cord blood-derived chimeric antigen receptor-directed natural killer (CAR NK)-cell therapies, 'armored' with IL-15, for the treatment of B-cell malignancies and other cancers
Memorial Sloan Kettering Cancer Center	U.S.	Alliance to discover and develop novel Chimeric Antigen Receptor T (CAR-T) cell products for the potential treatment of hematological malignancies and solid tumors.
Molecular Templates	U.S.	Initial collaboration agreement applied Molecular Templates' engineered toxin bodies (ETBs) technology platform to potential therapeutic targets. The second collaboration agreement is for the joint development of CD38-targeted ETBs (TAK-169) for the treatment of patients with diseases such as multiple myeloma.‡
Myovant Sciences	Switzerland	Takeda granted Myovant an exclusive, worldwide license (excluding Japan and certain other Asian countries) to relugolix (TAK-385) and an exclusive, worldwide license to MVT-602 (TAK-448).
National Cancer Center of Japan	Japan	Partnership agreement to develop basic research to clinical development by promoting exchanges among researchers, physicians, and others engaged in anti-cancer drug discovery and cancer biology research.
Nektar Therapeutics	U.S.	Research collaboration agreement to explore combination cancer therapy with five Takeda oncology compounds and Nektar's lead immuno-oncology candidate, the CD122-biased agonist NKTR-214.
Noile-Immune Biotech	Japan	Collaboration agreement for the development of next generation CAR-T cell therapy, developed by Professor Koji Tamada at Yamaguchi University. Takeda has excusive options to obtain licensing rights for the development and commecialization of Noile-Immune Biotech's pipeline and products resulting from this partnership. Due to the success of the collaboration, Takeda licensed NIB-102 and NIB-103.
Seattle Genetics	U.S.	Agreement for the joint development of ADCETRIS, an ADC technology which targets CD30 for the treatment of HL. Approved in 67 countries with ongoing clinical trials for additional indications.
Shattuck Labs	U.S.	Collaboration agreement to explore and develop checkpoint fusion proteins utilizing Shattuck's unique Agonist Redirected Checkpoint (ARC)™ platform which enables combination immunotherapy with a single product. Takeda will have the option to take an exclusive license to further develop and commercialize TAK-252/SL-279252
GlaxoSmithKline	U.K.	Exclusive licensing agreement to develop and commercialize novel cancer therapy niraparib for the treatment of all tumor types in Japan, and all tumor types excluding prostate cancer in South Korea, Taiwan, Russia and Australia.
Teva	Israel	Agreement for worldwide License to TEV-48573 (TAK-573) (CD38-Attenukine) and multi-target discovery collaboration accessing Teva's attenukine platform.
Turnstone Therapeutics‡	U.S.	Collaboration to co-develop TAK-605 (RIVAL-01) (novel oncolytic virus expressing aCTLA4, IL12-mb, flt3L) via a worldwide partnership and also conduct collaborative discovery efforts to identify additional novel product candidates based on a Turnstone's vaccinia virus platform.

‡ Executed since April 1, 2019

* List is not inclusive of all Takeda R&D collaborations.

Rare Diseases

Partner	Country	Subject
AB Biosciences	U.S.	Research collaboration agreement to potentially develop assets for rare disease with pan-receptor interacting molecules targeted for specific immunological conditions with a focus on autoimmune modulated inflammatory diseases
Asklepios Biopharmaceuticals	U.S.	Agreement for multiple research and development collaborations using FVIII Gene Therapy for the treatment of Hemophilia A and B.
BioMarin	U.S.	Agreement for the in-license of enabling technology for the exogenous replacement of iduronate-2-sulfatase with Idursulfase-IT in patients via direct delivery to the CNS for the long-term treatment of Hunter Syndrome in patients with cognitive impairment in order to slow progression of cognitive impairment (TAK-609).
Evox Therapeutics‡	U.K.	Collaboration for developing novel protein replacement and mRNA therapies and targeted delivery using Evox's proprietary exosome technology. Partnership for up to five rare disease targets with Takeda assuming responsibility for its clinical development
GlaxoSmithKline	U.K.	In-license agreement between GSK and University of Michigan for TAK-620 (marabivir) in the treatment of human cytomegalovirus.
Harrington Discovery Institute at University Hospitals in Cleveland, Ohio	U.S.	Collaboration agreement for the advancement of medicines for rare diseases.
IPSEN	France	Purchase agreement for the development of Obizur for the treatment of Acquired Hemophilia A including for patients with Congenital Hemophilia A with inhibitorsindication in elective or emergency surgery.
KM Biologics	Japan	Agreement for the development collaboration of TAK-755 to overcome the ADAMTS13 deficiency, induce clinical remission thus reducing cTTP related morbidity and mortality.
NanoMedSyn	France	Pre-clinical research collaboration agreement to evaluate a potential enzyme replacement therapy using NanoMedSyn's proprietary synthetic derivatives named AMFA
Novimmune	Switzerland	Agreement for the exclusive worldwide rights to develop and commercialize an innovative, bi-specific antibody in pre-clinical development for the treatment of hemophilia A
Rani Therapeutics	U.S.	Research collaboration agreement to evaluate a micro tablet pill technology for oral delivery of FVIII therapy in hemophilia
Ultragenyx	U.S.	Collaboration agreement to develop and commercialize therapies for rare genetic diseases.
Xenetic Biosciences	U.S.	Exclusive R & D license agreement for PolyXen delivery technology for hemophilia factors VII, VIII, IX, X.

Neuroscience

Partner	Country	Subject
AstraZeneca	UK	Agreement for the joint development and commercialization of MEDI1341, an alpha-synuclein antibody currently in development as a potential treatment for Parkinson's disease.
Denali Therapeutics	U.S.	Strategic option and collaboration agreement to develop and commercialize up to three specified therapeutic product candidates for neurodegenerative diseases, incorporating Denali's ATV platform for increased exposure of biotherapeutic products in the brain.
Lundbeck	Denmark	Collaboration agreement to develop and commercialize vortioxetine.
Mindstrong Health	U.S.	Agreement to explore development of digital biomarkers for selected mental health conditions, in particular schizophrenia and treatment-resistant depression.
Ovid Therapeutics	U.S.	Agreement for the development of TAK-935, an oral CH24H inhibitor for rare pediatric epilepsies. Takeda and Ovid Therapeutics will share in the development and commercialization costs of TAK-935 on a 50/50 basis and, if successful, share in the profits on a 50/50 basis.
Skyhawk Therapeutics‡	U.S.	Collaboration and licensing agreement to develop and commercialize RNA modulation therapies targeting neurodegenerative diseases.
StrideBio	U.S.	Collaboration and license agreement to develop *in vivo* AAV based therapies for Friedreich's Ataxia (FA) and two additional undisclosed targets.
Wave Life Sciences	Singapore	Research, development and commercial collaboration and multi-program option agreement to develop antisense oligonucleotides for a range of neurological diseases.

‡ Executed since April 1, 2019

Gastroenterology

Partner	Country	Subject
Ambys Medicines	U.S.	Collaboration agreement for the application of novel modalities, including cell and gene therapy and gain-of-function drug therapy, to meet the urgent need for treatments that restore liver function and prevent the progression to liver failure across multiple liver diseases. Under the terms of the agreement, Takeda has an option to ex-U.S. commecialization rights for the first 4 products that reach an investigational new drug application.
Arcturus	U.S.	Collaboration agreement to develop RNA-based therapeutics for the treatment of non-alcoholic steatohepatitis and other gastrointestinal related disorders using Arcturus' wholly-owned LUNAR™ lipid-mediated delivery systems and UNA Oligomer chemistry.
Beacon Discovery	U.S.	Collaboration agreement for the G-protein coupled receptor drug discovery and development program to identify drug candidates for a range of gastrointestinal disorders. The agreement grants Takeda worldwide rights to develop, manufacture and commercialize products resulting from the collaboration.
Cerevance‡	U.S.	Multi-year research alliance to identify novel target proteins expressed in the central nervous system and to develop new therapies against them for certain GI disorders. Goal of the collaboration is to select, confirm and validate targets from gene expression data sets generated by Cerevance's NETSseq technology.
Cour Pharmaceutical Development Company‡	U.S.	Takeda has acquired an exclusive global license to develop and commercialize the investigational medicine TIMP-GLIA (TAK-101), an immune modifying nanoparticle containing gliadin proteins.
Enterome	France	Collaboration agreement to research and develop microbiome targets thought to play crucial roles in gastrointestinal disorders, including inflammatory bowel diseases (e.g. ulcerative colitis). The agreement includes a global license and co-development of EB8018/TAK-018 in Crohn's disease.
Finch Therapeutics	U.S.	Global agreement to develop FIN-524, a live biotherapeutic product composed of cultured bacterial strains linked to favorable clinical outcomes in studies of microbiota transplantations in inflammatory bowel disease. Under the terms of the agreement, Takeda obtains the exclusive worldwide rights to develop and commercialize FIN-524 and rights to follow-on products in inflammatory bowel diseases.
Hemoshear Therapeutics	U.S.	Collaboration agreement for novel target and therapeutic development for liver diseases, including nonalcoholic steatohepatitis using Hemoshear's proprietary REVEAL-Tx drug discovery platform.
Janssen	Belgium	Exclusive license agreement to develop and market prucalopride as a treatment for chronic constipation in the U.S. Motegrity, approved in December 2018.
NuBiyota	Canada	Agreement for the development of Microbial Ecosystem Therapeutic products for gastroenterology indications.
Phathom Pharmaceuticals‡	U.S.	Takeda has granted a license to Phathom Pharmaceuticals for the development and exclusive commercialization rights to vonoprazan in the U.S., Europe and Canada in exchange for upfront cash and equity, as well as future cash milestones and royalties on net sales.
Samsung Bioepis	Korea	Strategic collaboration agreement to jointly fund and co-develop multiple novel biologic therapies in unmet disease areas. The program's first therapeutic candidate is TAK-671, which is intended to treat severe acute pancreatitis.
Silence Therapeutics‡	U.K.	Technology Evaluation Agreement with Silence Therapeutics to access their GalNAc-siRNA technology platform. The objective of the evaluation is to identify a GalNAc-conjugated siRNA that inhibits expression of a proprietary Takeda target.
Theravance Biopharma	U.S.	Global license, development and commercialization agreement for TAK-954, a selective 5-HT4 receptor agonist for motility disorders.
UCSD/Fortis Advisors	U.S.	Technology license for the development of oral budesonide formulation (TAK-721) for treatment of eosinophilic esophagitis.

‡ Executed since April 1, 2019

Plasma Derived Therapies

Partner	Country	Subject
Halozyme	U.S.	Agreement for the in-license of Halozyme's proprietary ENHANZE™ platform technology to increase dispersion and absorption of HyQvia. Ongoing development work for a U.S. pediatric indication to treat primary immunodeficiencies and a Phase 3 indication in Chronic Inflammatory Demyelinating Polyradiculoneuropathy.
Kamada	Israel	In-license agreement to develop and commercialize IV Alpha-1 proteinase inhibitor (Glassia) ; Exclusive supply and distribution of Glassia in the U.S., Canada, Australia and New Zealand; Development of protocol for post market commitment trial ongoing.

Vaccines

Partner	Country	Subject
Biological E. Limited	India	Takeda agreed to transfer existing measles and acellular pertussis vaccine bulk production technology to develop low-cost combination vaccines for India, China and low- and middle-income countries.
U.S. Government - The Biomedical Advanced Research and Development Authority (BARDA)	U.S.	Partnership to develop TAK-426, a Zika vaccine candidate, to support the Zika response in the U.S. and affected regions around the world.
Zydus Cadila	India	Partnership to develop TAK-507, a Chikungunya vaccine candidate, to tackle an emerging and neglected infectious disease in the world.

Other / Multiple Therapeutic Area

Partner	Country	Subject
Bridge Medicines	U.S.	Partnership with Tri-Institutional Therapeutics Discovery Institute, Bay City Capital and Deerfield Management in the establishment of Bridge Medicines. Bridge Medicines will give financial, operational and managerial support to move projects seamlessly from a validating, proof-of-concept study to an in-human clinical trial.
Center for iPS Cell Research Application, Kyoto University	Japan	Collaboration agreement for clinical applications of iPS cells in Takeda strategic areas including applications in neurosciences, oncology and GI as well as discovery efforts in additional areas of compelling iPSC translational science.
Charles River Laboratories‡	U.S.	Collaboration on multiple integrated programs across Takeda's core therapeutic areas using Charles River Laboratories' end-to-end drug discovery and safety assessment platform to progress these programs towards candidate status.
Evotec GT‡	Germany	Research alliance to support Takeda's growing number of research stage gene therapy discovery programmes
HiFiBio	U.S.	Collaboration agreement for functional therapeutics high-throughput antibody discovery platform that enables identification of antibodies for rare events for discovery of therapeutic antibodies for GI & Oncology therapeutic areas.
HitGen	China	Agreement that HitGen will apply its advanced technology platform, based on DNA-encoded library design, synthesis and screening, to discover novel leads which will be licensed exclusively to Takeda.
Isogenica	UK	Agreement for the access to a sdAb platform to generate a toolbox of VHH to various immune cells and targets for pathway validation and pipeline development across Oncology and GI portfolio.
Numerate	U.S.	Agreement for joint-discovery programs aimed at identifying clinical candidates for use in Takeda's core therapeutic areas: oncology, gastroenterology, and central nervous system disorders, which is using its AI-driven platform, from hit finding and expansion through lead design/optimization and ADME toxicity modeling.
Portal Instruments	U.S.	Agreement for the development and commercialization of Portal's jet injector drug delivery device for potential use with Takeda's investigational or approved biologic medicines.
Recursion Pharmaceuticals	U.S.	Agreement to provide pre-clinical candidates for Takeda's TAK-celerator™ development pipeline.
Schrödinger	U.S.	Agreement for the multi-target research collaboration combining Schrödinger's in silico platform-driven drug discovery capabilities with Takeda's deep therapeutic area knowledge and expertise in structural biology.
Seattle Collaboration	U.S.	Agreement for SPRInT (Seattle Partnership for Research on Innovative Therapies) to accelerate the translation of Fred Hutchinson Cancer Research Center's and University of Washington's cutting-edge discoveries into treatments for human disease (focusing on Oncology, GI and Neuroscience).
Stanford University	U.S.	Collaboration agreement with Stanford University to form the Stanford Alliance for Innovative Medicines to more effectively develop innovative treatments and therapies.
Tri-Institutional Therapeutics Discovery Institute (Tri-I TDI)	U.S.	Agreement for the collaboration of academic institutions and industry to more effectively develop innovative treatments and therapies.

‡ Executed since April 1, 2019

Completed Partnerships [Update disclosed since release of FY2018 results (May 14th, 2019)]

Partner	Country	Subject
Max Planck Institute	Germany	Agreement for the exclusive worldwide license under certain intellectual property to develop and commercialize the licensed products in rare disease field.
Bill & Melinda Gates Foundation	U.S.	Partnership to develop TAK-195, a Sabin-strain Inactivated Polio vaccine (sIPV) candidate, to support polio eradication in developing countries.
ArmaGen	U.S.	Worldwide licensing and collaboration agreement to develop AGT-182 (TAK-531), an investigational enzyme replacement therapy for potential treatment of both the central nervous system (CNS) and somatic (body-related) manifestations of Hunter syndrome.

■ Clinical study protocol summaries

Clinical study protocol summaries are disclosed on the English-language web-site (https://takedaclinicaltrials.com/) and clinical study protocol information in the Japanese-language is disclosed on the Japanese-language web-site (https://www.takeda.com/jp/what-we-do/research-and-development/takeda-clinical-trial-transparency/).

We anticipate that this disclosure will assure transparency of information on Takeda's clinical trials for the benefit of healthcare professionals, their patients and other stakeholders, which we believe will contribute to the appropriate use of Takeda's products worldwide.

Takeda Pharmaceutical Company Limited