



Roche

HY 2020 results

Basel, 23 July 2020



This presentation contains certain forward-looking statements. These forward-looking statements may be identified by words such as 'believes', 'expects', 'anticipates', 'projects', 'intends', 'should', 'seeks', 'estimates', 'future' or similar expressions or by discussion of, among other things, strategy, goals, plans or intentions. Various factors may cause actual results to differ materially in the future from those reflected in forward-looking statements contained in this presentation, among others:

- 1 pricing and product initiatives of competitors;
- 2 legislative and regulatory developments and economic conditions;
- 3 delay or inability in obtaining regulatory approvals or bringing products to market;
- 4 fluctuations in currency exchange rates and general financial market conditions;
- 5 uncertainties in the discovery, development or marketing of new products or new uses of existing products, including without limitation negative results of clinical trials or research projects, unexpected side-effects of pipeline or marketed products;
- 6 increased government pricing pressures;
- 7 interruptions in production;
- 8 loss of or inability to obtain adequate protection for intellectual property rights;
- 9 litigation;
- 10 loss of key executives or other employees; and
- 11 adverse publicity and news coverage.

Any statements regarding earnings per share growth is not a profit forecast and should not be interpreted to mean that Roche's earnings or earnings per share for this year or any subsequent period will necessarily match or exceed the historical published earnings or earnings per share of Roche.

For marketed products discussed in this presentation, please see full prescribing information on our website www.roche.com

All mentioned trademarks are legally protected.



Group

Severin Schwan
Chief Executive Officer





HY 2020 performance

Significant COVID-19 impact



Pharmaceuticals

- Significant decline in May due to delay of HCP visits, recovering since June
- Launch of NMEs, readouts & pivotal trial starts largely on track
- Continued good growth momentum of new products (+37%), offsetting biosimilar erosion

Diagnostics

- Increase of COVID-19 testing offsetting negative impact on routine testing in Q2
- Ramping up of SARS-CoV-2 test manufacturing capacity will support growth in HY2
- Additional COVID-19 tests to be launched in Q3: PoC antibody test; multiplex SARS-CoV-2/flu



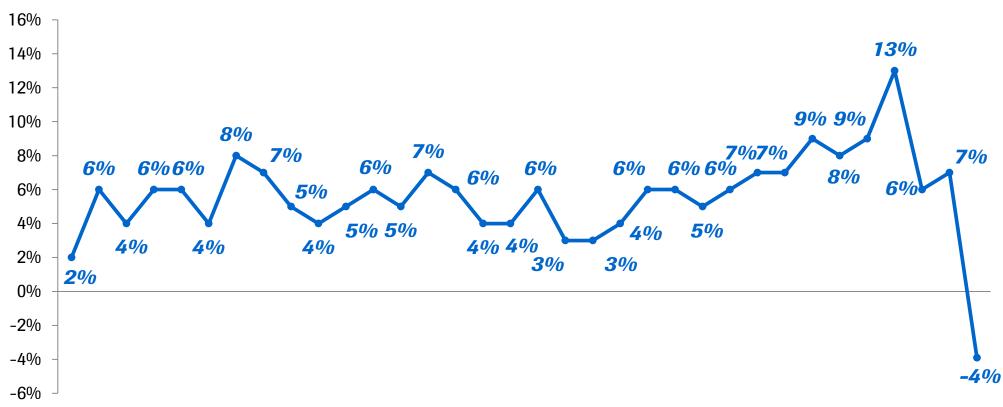


	HY 2020	HY 2019	Change in %	
	CHFbn	CHFbn	CHF	CER
Pharmaceuticals Division	23.2	24.2	-4	1
Diagnostics Division	6.1	6.3	-3	3
Roche Group	29.3	30.5	-4	1
noche dioup	29.3	30.3	-4	

CER=Constant Exchange Rates 7

Q2 2020: Heavily impacted by COVID-19

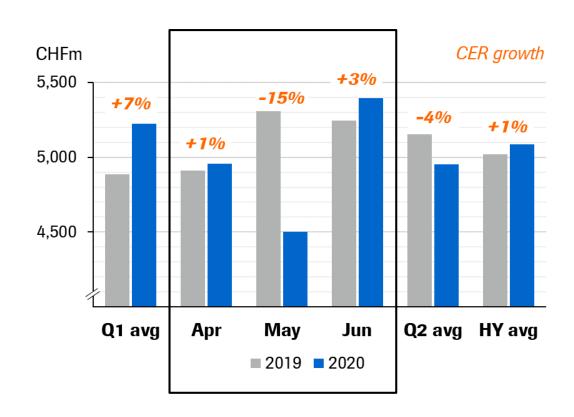








Recovery started in June



Pharmaceuticals

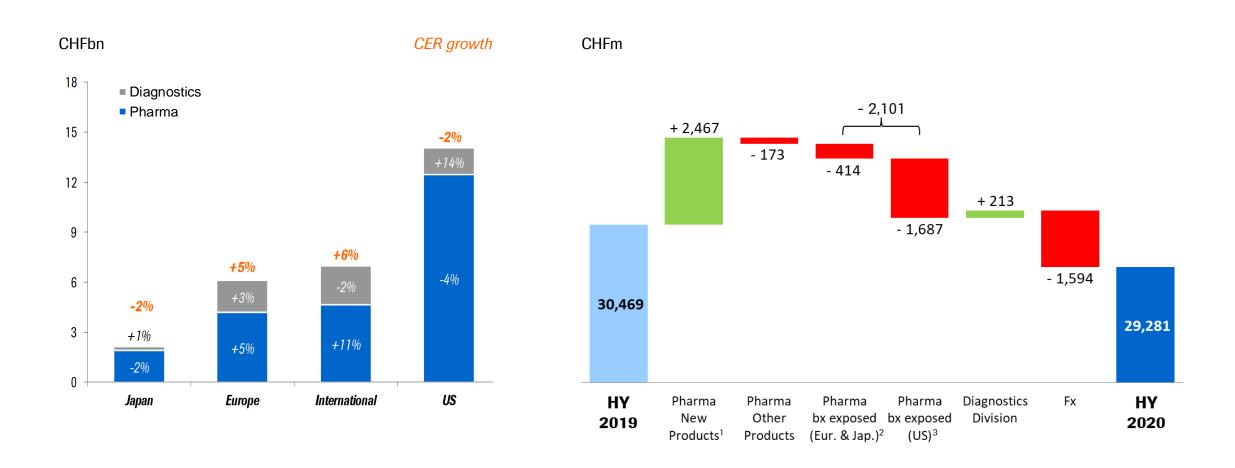
- Impact in May driven by patients delaying appointments (mainly but not only chronic diseases)
- Recovery in the last weeks of the quarter

Diagnostics

- Impact in April/May driven by decline in routine testing, partially compensated by COVID-19 testing
- Recovery started with easing of restrictions

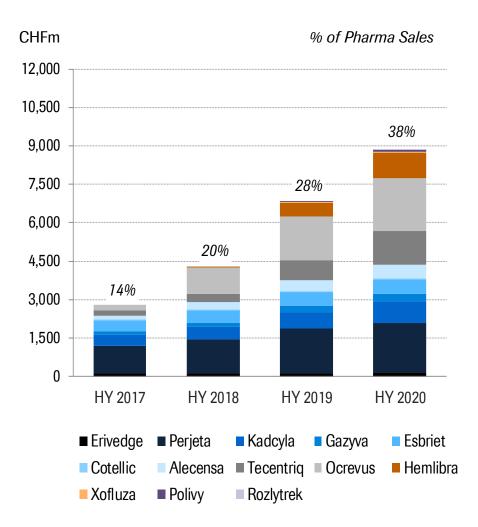


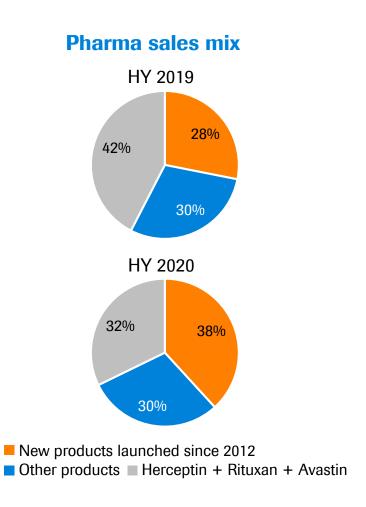
HY 2020: Good sales growth in International and Europe New products with strong momentum













Roche significantly advancing patient care Pivotal trials on track despite difficult environment

34 Breakthrough Therapy Designations (BTD) since 2013

Year	Molecule	Indication	
mosunetuzumab 2020 Tecentriq		3L+ FL	
		unresectable or metastatic ASPS	
	Esbriet	uILD	
	Cotellic	Histiocytic neoplasms	
Gazyva 2019 PRM-151 Venclexta + Kadcyla	Gazyva	Lupus nephritis	
	PRM-151	IPF	
	Venclexta + Gazyva	1L unfit CLL	
	Kadcyla	Adjuvant HER2+ BC	
	SPK-8011	Hemophilia A	
	satralizumab	NMOSD	
2018	Xolair	Food allergies	
2018	Tecentriq + Avastin	1L HCC	
Hemlibra Rozlytrek		Hemophilia A non-inhibitors	
		NTRK+ solid tumors	
2017	Polivy + BR	R/R DLBCL	
	Venclexta + LDAC	1L unfit AML	
	Zelboraf	BRAF-mutated ECD	
	Rituxan	Pemphigus vulgaris	

Breakthrough Device Designations (BDD) since 2018

Year	Device	Intended use	
2020	Elecsys GALAD score	early stage HCC	
	Elecsys β-Amyloid + p-Tau	AD: PET concordance	
	Cerebro Spinal Fluid assays	AD: Progression	
	sFlt + PLGF	Preeclampsia: rule-out within 1w	
2018	FACT CDx (liquid biopsy assay)	70 oncogenes + MSI + bTMB	
	cobas EBV	EBV in transplant patients	
cobas BKV CoaguChek Direct-X	cobas BKV	BKV in transplant patients	
	CoaguChek Direct-X	Patients on Factor Xa	

Pivotal trial recruitment finished in HY1 2020

ipatasertib

IL TNBC (Ph III: IPATunity130)

risdiplam

SMA type 1/2/3 (Ph II: JEWELFISH)

gantenerumab

Alzheimer's disease (Ph III: GRADUATE 1 & 2)

tominersen

Huntington's disease (Ph III: Generation HD1)

New pivotal study starts in HY1 2020

tiragolumab

mNSCLC (Ph III: SKYSCRAPER-01), ES-SCLC (Ph III: SKYSCRAPER-02)
Cervical cancer (Ph II: SKYSCRAPER-04)

PI3Ki

HR+ mBC (Ph III: INAVO120)

Venclexta+Gazyva

1L fit CLL (Ph III: CristaLLo)
severe COVID-19 pneumonia (Ph III: COVACTA, REMDACTA, EMPACTA)

Oncology

Neuroscience
Immunology

Key Diagnostics news flow in HY1 2020

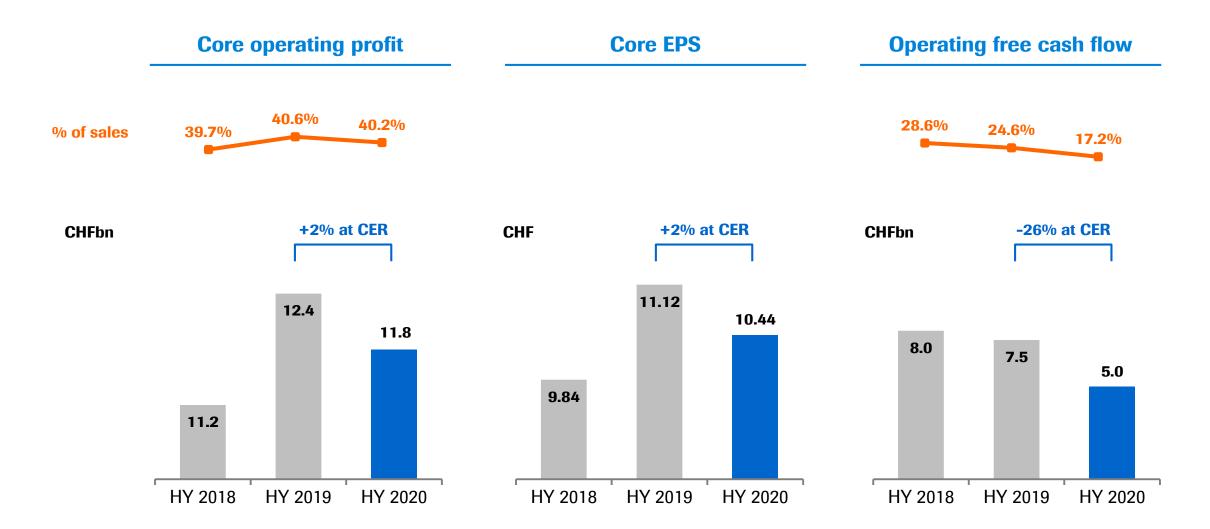
Instruments/Devices Launch of cobas® prime pre-analytical system

Tests/Assays Launch of SARS-CoV-2 antibody & PCR tests

Software Launch of v-TAC digital algorithm for blood-gas monitoring

HY 2020: Core OP and Core EPS maintained at high levels





CER=Constant Exchange Rates

13



HY 2020 performance

Major pipeline advances and upcoming launches in HY2 2020



Pharma

3 Upcoming NME launches

- risdiplam in SMA
- **Enspryng (satralizumab)** in NMOSD
- pralsetinib* in RET+ NSCLC; Thyroid cancer

7 Upcoming pivotal trial starts

- **SERDi** (Ph III 1L HR+ mBC)
- **glofitamab** (Ph III r/r DLBCL)
- **PRM-151/pentraxin-2** (Ph III IPF)
- **Gazyva** (Ph III Lupus Nephritis)
- crovalimab (Ph III PNH in patients switching from a C5 inhibitor; Ph III PNH in C5 inhibitor-naive patients)
- **SRP-9001** (Ph III DMD; run by Sarepta)

Diagnostics

4 Upcoming key launches

- cobas[®] SARS-CoV-2 & Influenza A/B for use on the cobas[®] Liat[®] System
- cobas[®] SARS-CoV-2 & Influenza A/B for use on the cobas[®] 6800/8800 Systems
- SARS-CoV-2 Rapid Antibody test
- Elecsys[®] Anti-SARS-CoV-2 S

^{*} subject to the expiration or termination of the waiting period under the HSR Act

2020 outlook confirmed *Further growing top and bottom line*



Group sales growth¹

• Low- to mid-single digit

Core EPS growth¹

Broadly in line with sales growth

Dividend outlook

Further increase dividend in Swiss francs



Pharmaceuticals Division

Bill Anderson CEO Roche Pharmaceuticals



Replace and extend the business: Further milestones achieved



Replace/extend existing businesses

MabThera/Rituxan	Gazyva, Venclexta, Polivy, mosunetuzumab, glofitamab
Herceptin	Perjeta, Kadcyla, Phesgo
Avastin	Tecentriq, Alecensa, Rozlytrek, tiragolumab
Lucentis	Port delivery system (PDS) faricimab
Tamiflu	Xofluza

Entering new franchises

Oncology:

Tecentriq (mUC, TNBC, SCLC, HCC, mM), ipatasertib (mCRPC), SERD (HR+ BC)

MS:

Ocrevus

Hemophilia A:

Hemlibra

CNS:

Enspryng (NMOSD), risdiplam (SMA), tominersen (Huntington), gantenerumab (AD), SRP-9001 (DMD)

Immunology:

etrolizumab (UC, CD), Gazyva (lupus nephritis)

Achievements Q2 2020

Entering new franchises

Tecentriq: US approval in 1L HCC (with Avastin) **ipatasertib:** Positive Ph III (IPATential150) results in

patients with PTEN loss tumors in mCRPC

Enspryng: First approvals in Canada, Japan, CH in NMOSD risdiplam: FIREFISH (SMA) part 2 results in Type 1 patients

presented at AAN

SPARK: 2 to 3.3 year follow up efficacy/safety data for

SPK-8011 hem A gene therapy presented at ISTH

Replace/extend existing businesses

Phesgo: US approval for P+H FDC-SC

tiragolumab: Randomized Ph II data presented at ASCO;

Ph III trials in 1L NSCLC and 1L SCLC initiated

SERD: Clinical data showing excellent efficacy

/safety profile presented at ASCO

glofitamab: Ph Ib data presented at EHA; Ph III in 2L+

DLBCL initiated

mosunetuzumab: BTD designation in 3L+ FL awarded

PDS: Positive Ph III (ARCHWAY) results in nAMD

COVID-19 impact in May, but recovery starting in June



- Broad COVID-19 impact due to missed patient visits and postponed new patient starts (e.g. breast cancer franchise, hematology franchise, neuroscience franchise)
- Immunology franchise holds up well with strong adherence to therapy by patients with lung diseases (Xolair, Esbriet)
- Launches (risdiplam; Enspryng; pralsetinib*) on track
- Pivotal read-outs in 2020/21 on track
- Clinical studies broadly on track, some delays in early trial starts
- Ultimate impact will also depend on the length and severity of the pandemic





HY 2020: Pharmaceuticals Division sales *Growth in International and Europe*

	HY 2020 HY 2019 Change in		e in %	
	CHFm	CHFm	CHF	CER
Pharmaceuticals Division	23,202	24,194	-4	1
United States	12,464	13,370	-7	-4
Europe	4,190	4,221	-1	5
Japan	1,908	1,988	-4	-2
International	4,640	4,615	1	11

CER=Constant Exchange Rates 20



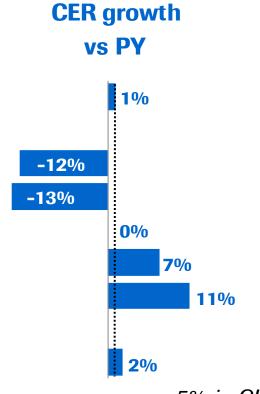


2020 CHFm abs. CER

Sales	23,202	+193
Royalties & other op. inc.	1,070	-150
Cost of sales	-4,175	+620
M & D	-3,266	-7
R & D	-5,077	-358
G & A	-793	-79
Core operating profit	10,961	+220

Core OP in % of sales

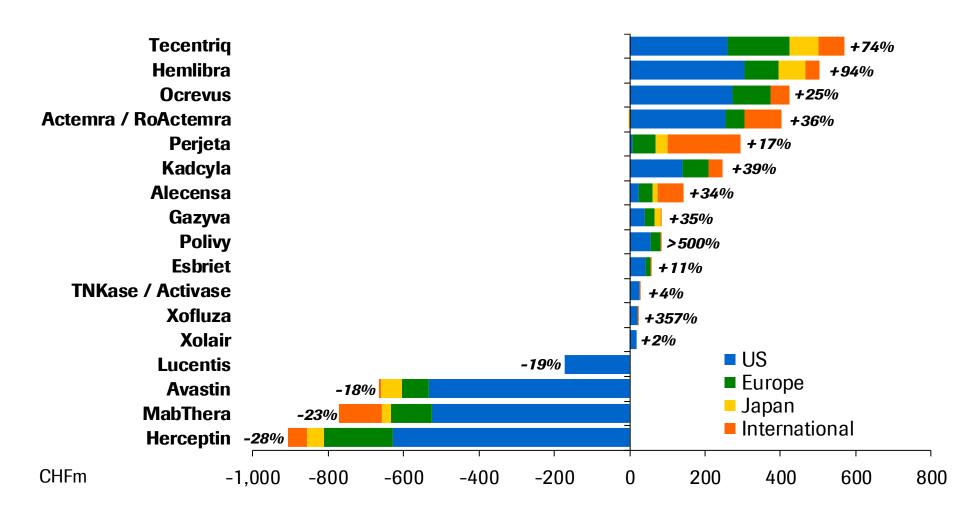
47.2%



-5% in CHF

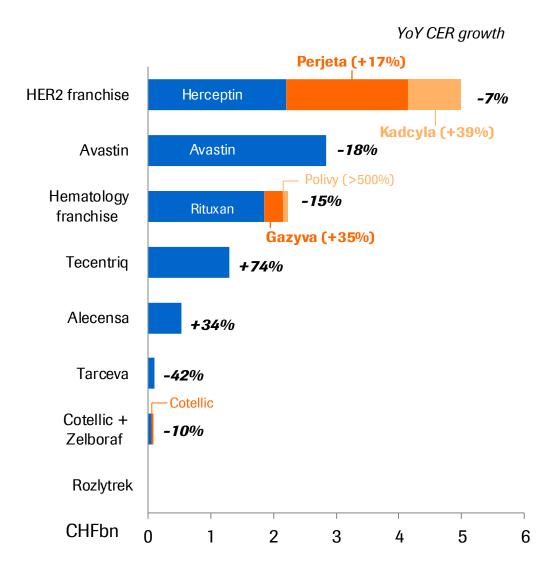






HY 2020: Oncology sales -6% with COVID-19 impact in May





HER2 franchise

Kadcyla and Perjeta with strong global uptake in adjuvant BC

Avastin franchise

Biosimilar erosion in US/Japan; first biosimilars launched in EU

Hematology franchise

- Venclexta:* Strong growth in 1L AML and 1L CLL
- Gazyva: Growth in 1L CLL and 1L FL
- Polivy: Strong US launch in R/R DLBCL

Tecentriq

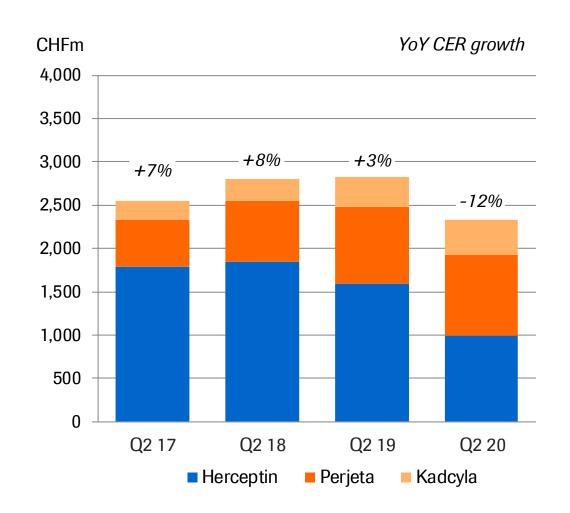
• Growth driven by 1L SCLC & 1L TNBC; 1L HCC launched in US

Alecensa

Strong growth in China following NRDL listing

HER2 franchise: Growth for Perjeta and Kadcyla, Phesgo approved





HER2 franchise Q2 update

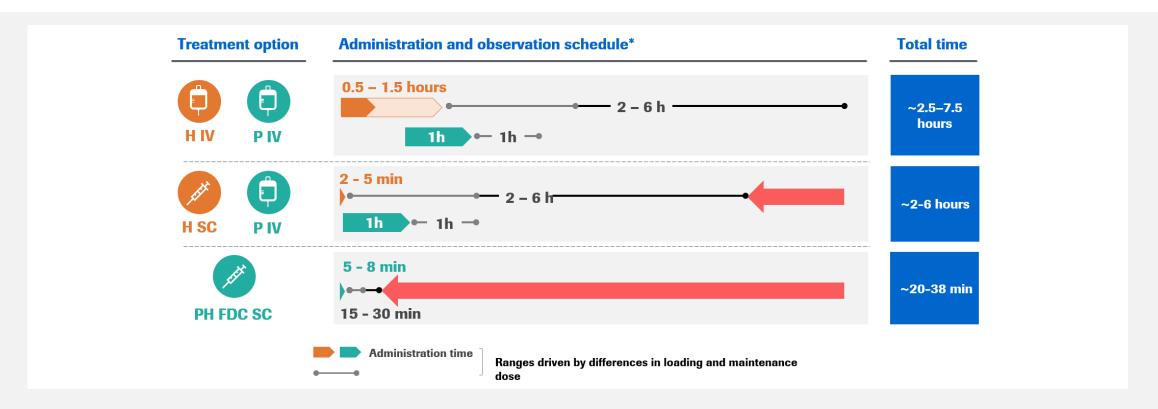
- COVID-19 impact due to lower BC screening rates
- Perjeta (+12%): Global growth driven by eBC (APHINITY) and early uptake in China
- Kadcyla (+26%): Growth in adjuvant setting for patients with residual disease (KATHERINE); switching as planned
- Herceptin (-33%): Decline due to switching to Kadcyla and biosimilar erosion in the US as expected
- US approval for Phesgo (PH FDC SC) achieved

- Global Perjeta (including China) and Kadcyla uptake in eBC
- Continued Herceptin erosion in the US



HER2 franchise: Phesgo US approval Significantly reduced healthcare costs and resource use





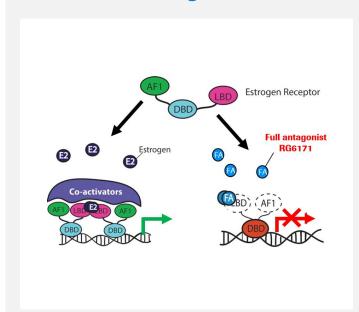
- Phesgo (PH FDC SC) achieves equivalent serum concentrations as IV at cycle 7 in neoadjuvant HER2+ eBC
- 85% of patients prefer Phesgo compared to standard IV administration
- US approval achieved in June; filed in the EU



HR+/HER2- franchise: Potentially best in class SERD (RG6171)

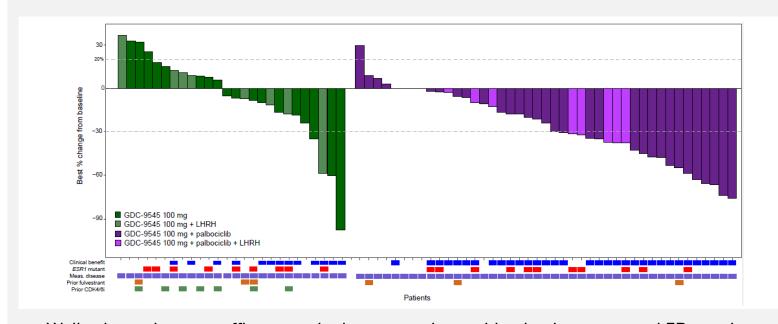
Strong efficacy as a single agent or in combination

Selective ER degrader (SERD)



- 3rd generation oral SERD
- Highly potent in vitro and improved efficacy in vivo versus other SERDs
- High potency + minimal safety findings lead to wide nonclinical safety margins

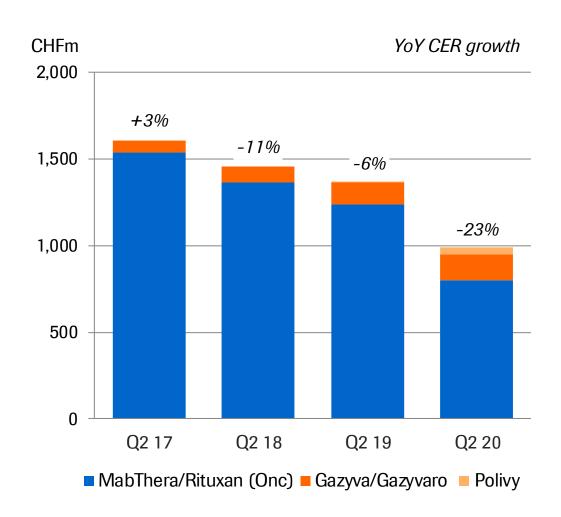
Ph Ib results: Tumor responses RG6171 +/- palbociclib



- Well-tolerated; strong efficacy as single agent or in combination in pre-treated ER+ patients, regardless of ESR1 mutation status
- Further evaluation at 30 mg daily expansion cohort given the promising efficacy with CBR of 50% and a safety profile observed at this dose level with no bradycardia events
- Ph III combination studies in HR+/HER2- mBC to be initiated

Hematology franchise: Growth from Venclexta, Gazyva and Polivy





Hematology franchise Q2 update

CD20 franchise

- MabThera/Rituxan (-32%): Biosimilar erosion in US as expected and market contraction due to COVID-19
- Gazyva (+23%): Growth driven by 1L CLL (CLL14) and 1L FL

Venclexta*

Strong growth driven by 1L unfit AML and 1L CLL (CLL14)

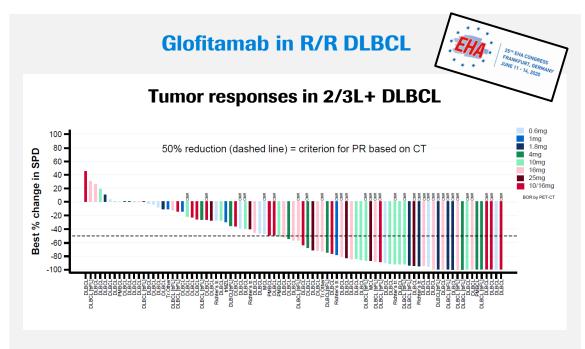
Polivy

US: Uptake in 3L+ DLBCL

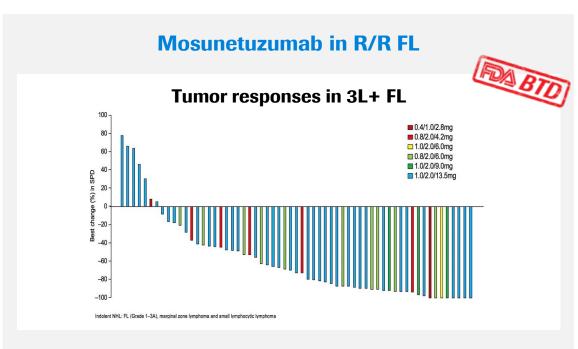
- Strong growth of new products and on-going Rituxan erosion
- Updates on the CD20 x CD3 program and Polivy combinations
- V+azacitidine in 1L unfit AML (Viale-A) US approval expected
- Ph III (POLARIX) Polivy in 1L DLBCL expected early 2021



Hematology franchise: CD20 x CD3 program in NHL progresses Improving the standard of care in DLBCL and FL



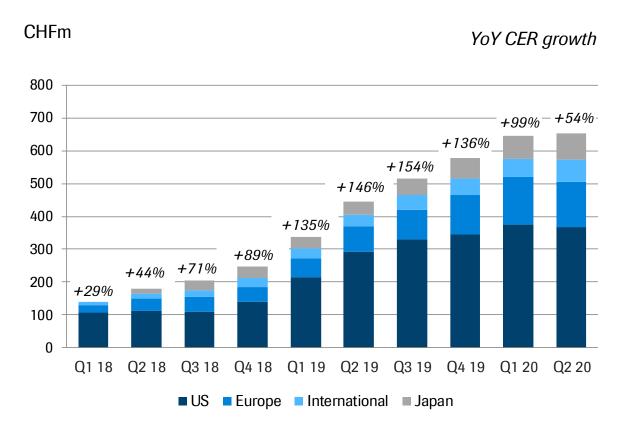
- The ≥10mg cohorts in R/R DLBCL showed an ORR of 49.4% and a CR rate of 34.1%; CRs appeared durable with the mDOR not reached after a median follow up of 10.2m
- Good safety profile with manageable CRS confined to cycle 1
- Dose optimization / trials with Tecentriq, Polivy, R-CHOP ongoing
- Ph III safety run-in for glofitamab in 2L+ DLBCL initiated



- Pooled data from 2.8mg to 13.5mg cohorts showed an ORR of 62.7% and CR of 43.3%; 82.8% pts remain in complete remission for up to 26m off initial treatment
- 95% of AEs in cycle 1; no cumulative or chronic toxicity; most CRS events mild-to-moderate with only 3 Gr ≥3 CRS events (1.1%)
- BTD for mosunetuzumab in 3L+ FL awarded; Ph III to be initiated



Tecentriq overview: Growth driven by first-in-class indications 1L HCC approved in the US; filed in EU/China



Tecentriq Q2 update

Lung franchise (NSCLC, SCLC)

- US/EU/Japan: Growth driven by 1L SCLC and 1L NSCLC
- US: Approval in 1L PDL1+ NSCLC achieved
- China: Approval in 1L SCLC achieved

Breast franchise (TNBC)

- US/EU: Growth driven by 1L PDL1+ TNBC
- Positive Ph III results in neoadjuvant TNBC

GI franchise (HCC)

- US: First-in-class 1L HCC approval achieved
- EU/China: 1L HCC filed

- US: First-in-class filing/approval in 1L BRAF+ melanoma
- Ph III data in neoadjuvant TNBC to be presented





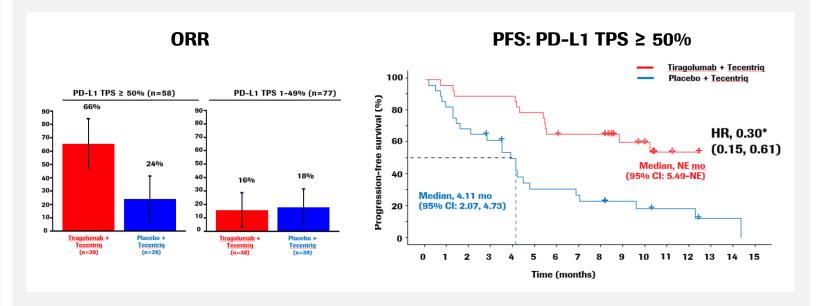


Anti-TIGIT antibody (tiragolumab)



- Fully human IgG1/kappa Ab with intact Fc region that blocks the binding of TIGIT to its receptor PVR
- Could restore anti-tumor response and could complement the activity of anti-PD-L1/PD-1 Abs

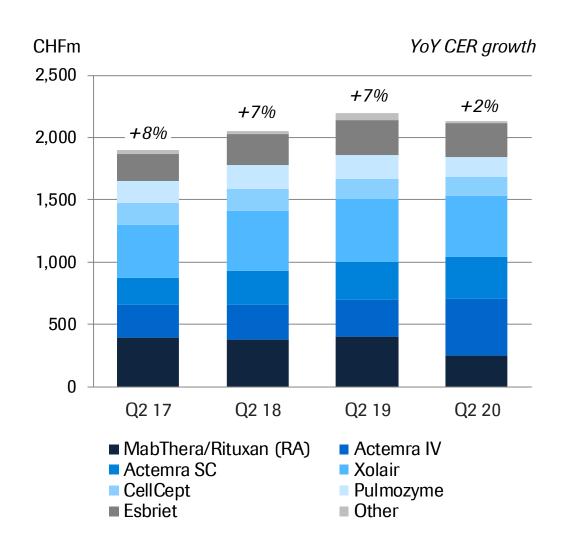
Randomized Ph II (CITYSCAPE): Tiragolumab + Tecentriq in 1L NSCLC



- Tira + Tec showed clinically meaningful improvement in ORR and PFS in the ITT population with a greater magnitude of improvement seen in the PD-L1 TPS ≥ 50% subgroup
- Tira + Tec was well-tolerated with a safety profile similar to placebo + Tec
- Ph III in 1L PDL1+ NSCLC (SKYSCRAPER-01) and in 1L ES-SCLC (SKYSCRAPER-02) ongoing
- Signal-seeking in various tumor types ongoing; additional Ph III studies to be initiated in 2020

Immunology franchise: Overall stable sales





Immunology Q2 update

Esbriet (+2%)

Growth in mild/moderate segments; remains EU market leader

Actemra (+40%)

Sales positively impacted by COVID-19

Xolair (+1%)

Remains leader in biologics asthma market; growth in CIU

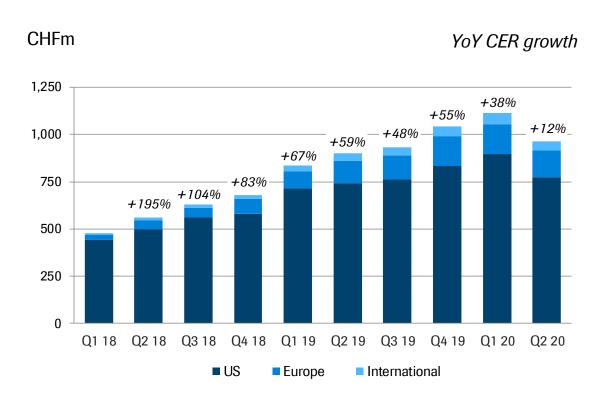
Rituxan (-34%)

Decline due to biosimilars and COVID-19 market contraction

- PH III (COVACTA) results of Actemra expected this summer
- Ph III results for etrolizumab in UC this summer
- Ph III (REGENCY) initiation of Gazyva in lupus nephritis
- Ph III initation of pentraxin-2 + SOC in IPF



Neuroscience franchise: Ocrevus in MS *Market leadership in US continues with 21% total patient share*¹



Ocrevus Q2 update

- COVID-19 impact in April/May due to reduced new patient starts and delayed dosing for existing patients
- Strong recovery starting in June
- Shorter infusion launched in the EU

- Continued recovery in HY2 as fundamentals remain strong
- Ongoing launches in EU and International
- US approval of shorter infusion

Neuroscience franchise: Risdiplam in type 1/2/3 SMA Compelling benefit/risk profile in infants, children, and adults

93%

of infants were alive and

85% of infants were

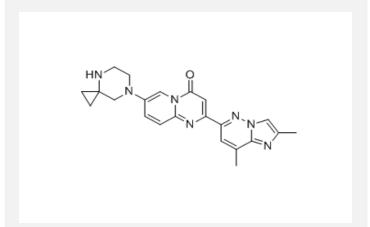
Month 12

(38/41)

(35/41)

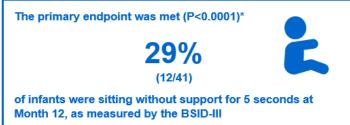


SMN2 splicing modifier



- Proven efficacy in infants, children, and adults
- Durably increases SMN protein throughout the CNS and in peripheral tissues
- Consistent safety profile in over 450 risdiplam-treated patients in trials
- First and only at-home treatment

FIREFISH part 2 results in type 1 SMA confirm highly competitive profile



95% (36/38) of infants alive maintained the ability to swallow after

49%
(20/41)

of all infants did not require hospitalization during 12 months of treatment

in motor function†

Risdiplam treatment led

significant improvement

(P<0.0001)‡

Infants
achieved
motor
milestones,
such as sitting
and standing[§] that would
never be seen in
untreated infants



No drug-related safety findings led to withdrawal in FIREFISH Part 2

• Positive Ph III (FIREFISH part 2) in older, symptomatic type 1 infants

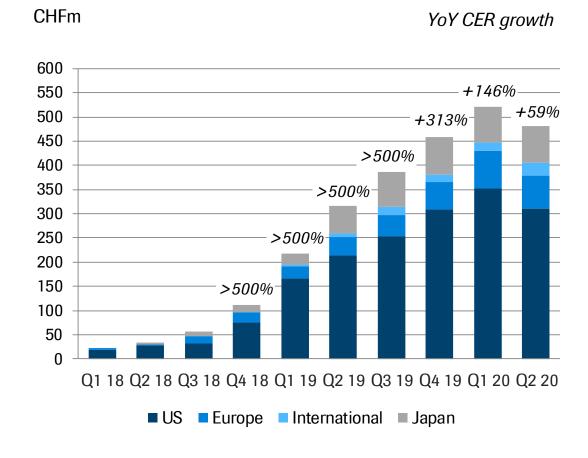
12 months of treatment

- Positive Ph III (SUNFISH part 2) the only placebo controlled study (n=180) in a broad spectrum of type 2/3 patients (age 2-25)
- US priority review with PDUFA date set for August 24; EU filing imminent; EU Accelerated Assessment; filed in China

Hemophilia A franchise

Hemlibra with 23% total US patient share after 33 months





Hemophilia Q2 update

- US: Gaining market share in non-inhibitors; patients on treatment stay on treatment, COVID-19 impact due to postponed new patient starts
- EU-5: Strong initial non-inhibitor uptake following reimbursement in all major markets
- Spark Therapeutics: SPK-8011 (gene therapy) results at ISTH show durable and stable expression at 2 to 3.3 years with acceptable safety profile

- Further recovery which started in June
- US: Further uptake in non-inhibitors
- EU: On-going launches in major markets

Ophthalmology franchise: Building a global PDS platform

Roche

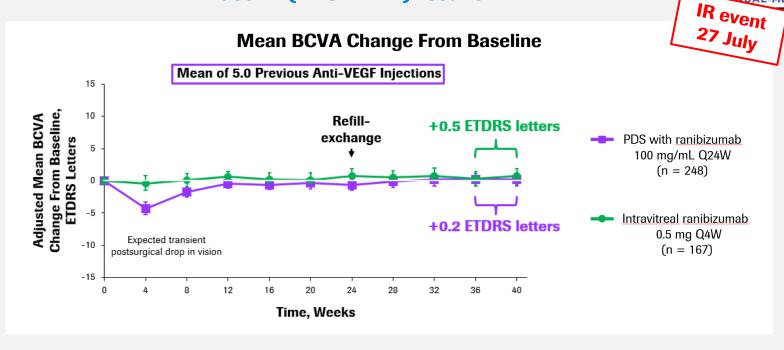




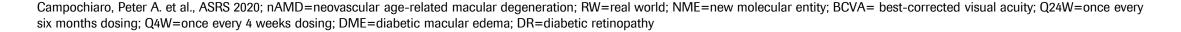


- Refillable intraocular implant using proprietary needle assembly and customized formulation
- Reduced treatment burden and potentially improved RW outcomes
- Continuous delivery platform to be combined with NMEs

Phase III (ARCHWAY) results in nAMD:

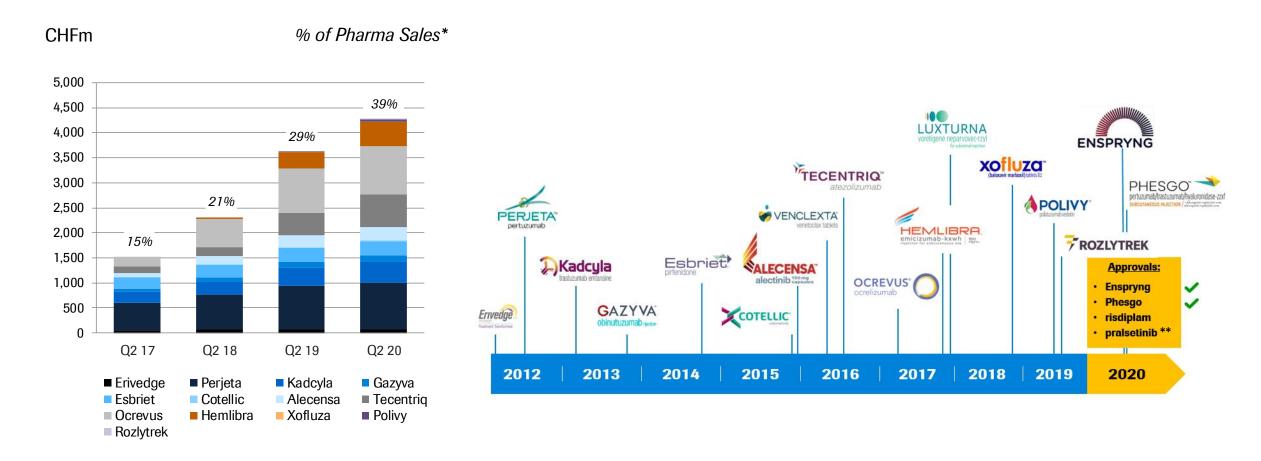


- Positive Ph III (ARCHWAY) results in nAMD using 6m dosing interval released at ASRS
- Ph III (PAGODA) in DME using 6m dosing interval on-going; Ph III (PAVILLION) in DR initiated
- PDS approval in the US expected in 2021





New products account for ~40% of Pharma sales* 4 NME approvals in 2020: ENSPRYNG and PHESGO approved in Q2



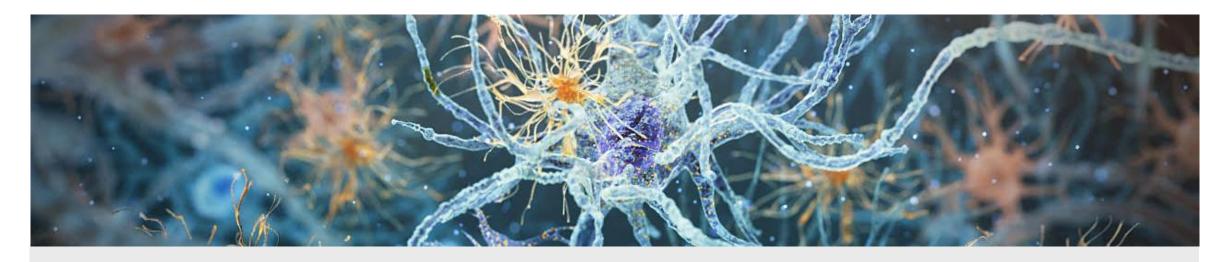
^{*} Venclexta sales are booked by partner AbbVie and therefore not included ** subject to the expiration or termination of the waiting period under the HSR Act

Roche Pharma Day 2020

Roche

37

Strategic business outlook and late stage pipeline update



Virtual Roche Pharma Day 2020

Monday, 14 September 2020 2pm-5pm CEST

Senior management presenting:

- Bill Anderson, CEO Pharma
- Teresa Graham, Head of Global Product Strategy
- Levi Garraway, Chief Medical Officer and Head Global Product Development
- Paulo Fontoura, Global Head Neuroscience and Rare Diseases Clinical Development
- Cristin Hubbard, Head I2O Global Product Strategy
- John Young, Global Head of Infectious Diseases, Roche Pharma Research & Early Development

2020: Key late-stage news flow*



	Compound	Indication	Milestone
	Rozlytrek	NTRK pan tumor; ROS1+ NSCLC	EU approval
	Venclexta + Gazyva	1L unfit CLL	EU approval
	Polivy + Rituxan +chemo	R/R DLBCL	EU approval
	risdiplam	SMA type 1/2/3	US approval; EU filing
Domiletem	Enspryng (satralizumab)	NMOSD	US/EU approval
Regulatory	Xolair	Nasal polyps	US approval
	Zelboraf + Cotellic + Tecentriq	1L+ BRAF+ Melanoma	US approval
	Tecentriq + Avastin	1L HCC	US approval; EU filing
	Tecentriq	1L PDL1+ NSCLC	US/EU approval
	Phesgo (PH FDC SC)	HER2+ breast cancer	US approval; EU filing
	idasanutlin + chemo	R/R AML	US approval; EU filing Ph III MIRROS
	risdiplam	SMA type 1	Ph II/III FIREFISH (part 2)
	Tecentriq + Avastin	1L OC	Ph III IMagyn050
	Tecentriq + chemo	Neoadjuvant TNBC	Ph III IMpassion031
	Venclexta + azacitidine	1L unfit AML	Ph III IMpassion031 Ph III Viale A
Phase III / pivotal	ipatasertib + chemo	Dx+ HR+ breast cancer	Ph III IPATunity130
readouts	ipatasertib + chemo	Dx+ 1L TNBC	Ph III IPATunity130
	ipatasertib + abiraterone	1L mCRPC	Ph III IPATential 150
	PDS	nAMD	Ph III Archway
	faricimab	DME	Ph III YOSEMITE/RHINE
	etrolizumab	Ulcerative Colitis	Ph III HIBISCUS/LAUREL/HICKORY/GARDENIA
	balovaptan	Autism spectrum disorders	Ph II aV1ation
	Virtual IR Event ASRS Monday, 27 July 4:30pm-5:30pm CEST	Roche Pharma Day Monday, 14 September 2pm-5pm CEST	

^{*} Outcome studies are event-driven: timelines may change



Diagnostics Division

Thomas Schinecker CEO Roche Diagnostics



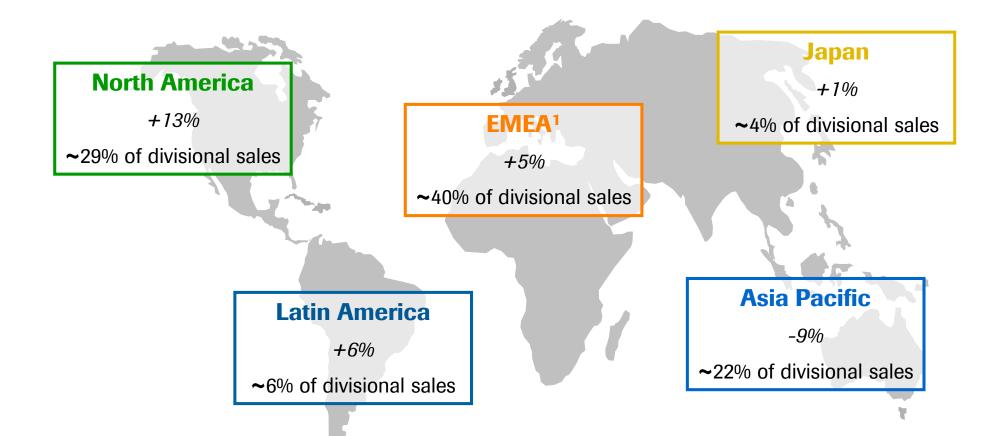


HY 2020: Diagnostics Division sales Growth driven by Molecular Diagnostics offsetting decline in routine testing due to COVID-19

	HY 2020	HY 2019	Change	in %
	CHFm	CHFm	CHF	CER
Diagnostics Division	6,079	6,275	-3	3
Centralised and Point of Care Solutions	3,181	3,762	-15	-10
Molecular Diagnostics	1,558	1,029	51	61
Diabetes Care	832	958	-13	-6
Tissue Diagnostics	508	526	-3	2

HY 2020: Diagnostics Division regional sales *Growth driven by North America and EMEA*

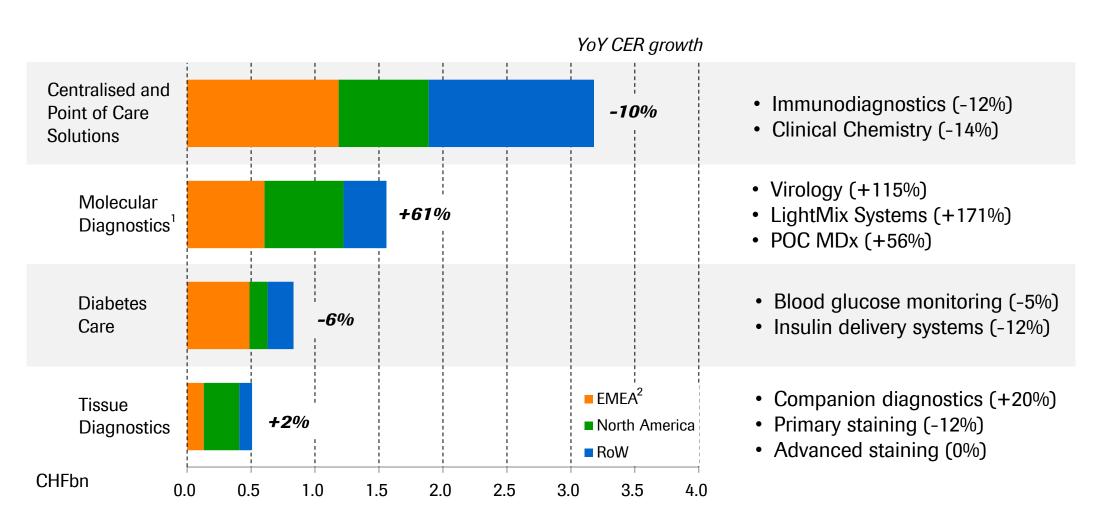




¹ Europe, Middle East and Africa; all growth rates at Constant Exchange Rates (CER)



HY 2020: Diagnostics Division highlights Growth driven by Molecular Diagnostics



¹ Underlying growth of Molecular Diagnostics excluding sequencing business: +69%; ² EMEA=Europe, Middle East and Africa CER=Constant Exchange Rates





Core operating profit growing at +9%

2020 **CHFm** abs. **CER**

16.8%

Sales	6,079	+213
Royalties & other op. inc.	27	-5
Cost of sales	-2,904	-138
M & D	-1,249	+80
R & D	-710	-49
G & A	-221	-9
Core operating profit	1,022	+95

-4% in CHF

-14%

-6%

CER growth

vs PY

3%

5%

7%

9%

CER=Constant Exchange Rates

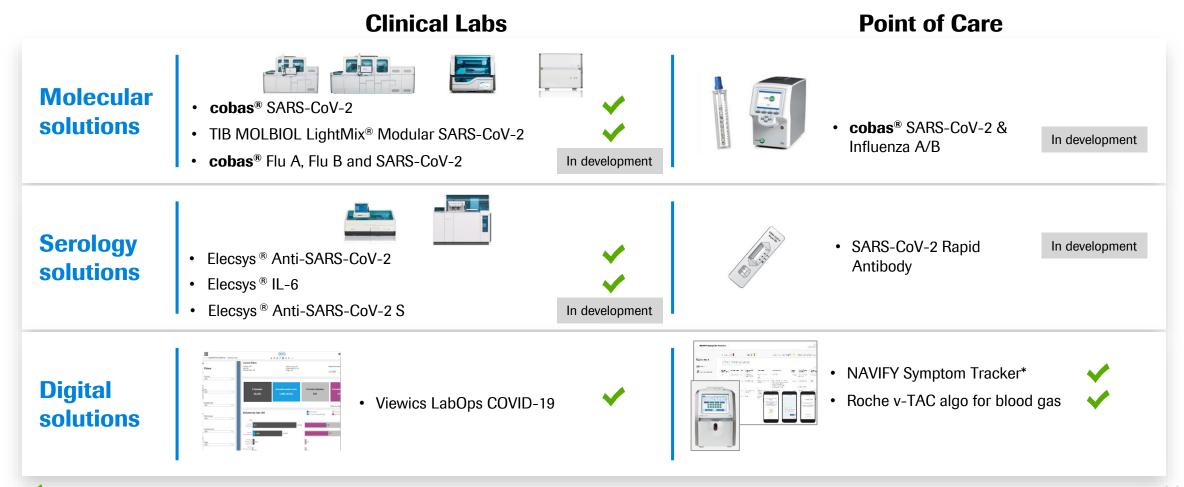
Core OP in % of sales

43

SARS-CoV-2 diagnostics portfolio

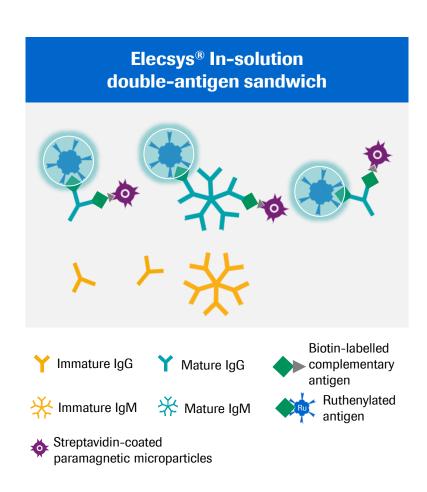


Comprehensive portfolio launched in record time





Elecsys® SARS-CoV-2 serology solutions *Broadening the portfolio for SARS-CoV-2 antibody testing*



Elecsys® Anti-SARS-CoV-2

- Immunoassay detecting antibodies to nucleocapsid protein (anti-N)
- Excellent performance confirmed in internal as well as external studies¹
 - Specificity 99.8% (n=10,453 negative samples)³
 - Sensitivity 99.5%² (n=185 positive samples)³
- Preliminary data shows good correlation with neutralizing antibodies
- Available on all cobas e⁴ immunoanalyzers (global installed base >40,000 systems)

Elecsys® Anti-SARS-CoV-2 S⁵

- Quantitative immunoassay detecting antibodies to spike protein (anti-S)⁵
- Will be available on all cobas e⁴ immunoanalyzers
- Important in the context of vaccines

¹ Ekelund O. et al.; Favresse J, et al.; Perkmann T et al.; Herroelen PH et al.; ² Sensitivity for samples taken ≥14 days after positive PCR; ³ Roche internal data; ⁴ cobas e: cobas e 801, cobas e 601, cobas e 411; ⁵ under development



Global launch of cobas® prime Pre-analytical System* Accelerating speed and efficiency in the molecular lab





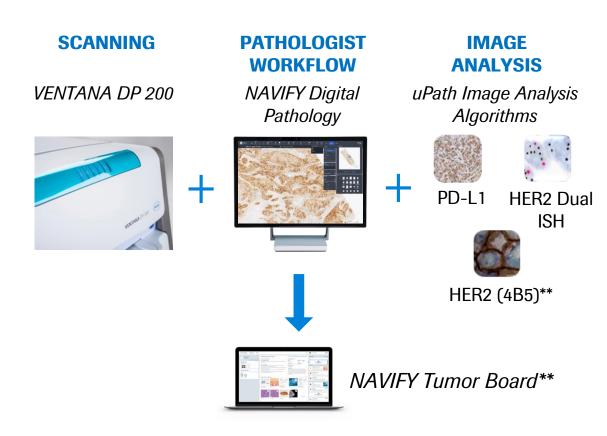
Multiple sample types

- First-of-its-kind solution for multiple sample types
- End-to-end automation for testing consolidation
- Reduces manual steps in molecular labs by 86%**
- Reduces manual errors and increases confidence in results

^{*} CE-IVD and in the US Class I Exempt; ** Based on a workflow configuration that includes cobas® prime Pre-analytical System connected via cobas® connection modules to cobas® 6800 System. Results may vary depending on different workflows.



PD-L1 (SP263) and HER2 Dual ISH digital pathology algorithms* Improving the speed and accuracy of cancer diagnosis



- The first next generation CE-IVD algorithms utilizing whole slide analysis
- uPath PD-L1 (SP263) image analysis aids in the detection and semi-quantitative measurement of PD-L1 protein
- uPath HER2 Dual ISH image analysis supports the determination of patients' HER2 gene status
- Uses artificial intelligence that was trained by leading pathologists

* CE-IVD; ** In-development

Key launches 2020



	Area	Product	Description	Market ¹
Instruments/	Workflow	cobas® prime	Next generation pre-analytical platform to support cobas® 6800/8800 Systems	CE 🗸
Devices	Diabetes Care	Accu-Chek Solo Diabetes Manager	Integration of the Accu-Chek Guide test strip technology into the Accu-Chek Solo Diabetes Manager (remote control)	CE
	Infectious Diseases	cobas [®] EBV EBNA IgG cobas [®] EBV VCA IgG cobas [®] EBV IgM cobas [®] HIV-1&2 Qual	EBV panel offering 3 different assays (EBV IgM, EBV VCA IgG, and EBV EBNA IgG) for the qualitative detection of antibodies to Epstein-Barr Virus (EBV) Qualitative detection and confirmation of HIV-1 & HIV-2	CE US
Tests/ Assays		cobas [®] EBV cobas [®] BKV	Monitoring tests for transplant patients to aid in the management of EBV and BKV infections	US
	Cervical Cancer	cobas® HPV (6800/8800)	The world's leading cobas® HPV assay for use on the fully automated cobas® 6800/8800 Systems	US 🗸
		CINtec PLUS Cytology	Next generation "Pap" test which leverages p16/Ki-67 dual-stain biomarker technology on cervical cytology samples	US 🗸
	Tissue Dx	VENTANA HER2 Dual ISH	Fully automated, brightfield ISH assay to determine eligibility for HER2 targeted therapy	US
		Algorithm - HER2 (4B5)	Whole slide image analysis algorithm for HER2 (4B5)	CE
	Sequencing	NAVIFY Mutation Profiler	Software as a medical device for annotating, variant classification, clinical interpretation and reporting from comprehensive genomic profile testing	US
Software		RocheDiabetes InsulinStart	A messaging service designed for people with type 2 diabetes to ease the transition from oral antidiabetics to a complimentary insulin therapy	CE 🗸
Software	Diabetes Care	mySugr app	Enabling control of the Accu-Chek Insight insulin pump from the mySugr app	WW
		RocheDiabetes Care Platform	New releases with improved features focusing on device connectivity, integration of 3 rd parties, and healthcare professionals' workflow optimisation	ww 🗸

¹ CE=European Conformity; US=FDA approval; WW=Worldwide; EBV=Epstein-Barr virus; BKV=BK virus



Finance

Alan Hippe Chief Financial Officer





HY 2020 results

Focus on Cash

Outlook

HY 2020: Highlights



Business

- Sales growth of +1%1 and Core operating profit up +2%1
- Core EPS growth +2%1

Cash flow

- Operating Free Cash Flow of CHF 5.0bn, -26%¹ lower due to higher net working capital and higher investments in intangible assets
- Net debt slightly up by CHF 0.4bn vs. Jun 30th 2019; higher by CHF 6.3bn vs. Dec 31st 2019 due to dividend payments

Net financial results

• Core net financial result improved by +3%1 driven by lower interest expenses 30%1

IFRS

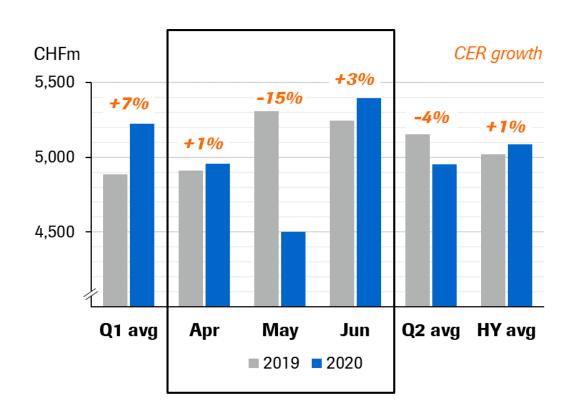
• Net income +3%¹ driven by the operating results

¹ At Constant Exchange Rates (CER) 51





Recovery started in June



Pharmaceuticals

- Impact in May driven by patients delaying appointments (mainly but not only chronic diseases)
- Recovery in the last weeks of the quarter

Diagnostics

- Impact in April/May driven by decline in routine testing, partially compensated by COVID-19 testing
- Recovery started with easing of restrictions



Roche

Sales up by +1% and Core EPS up by +2%

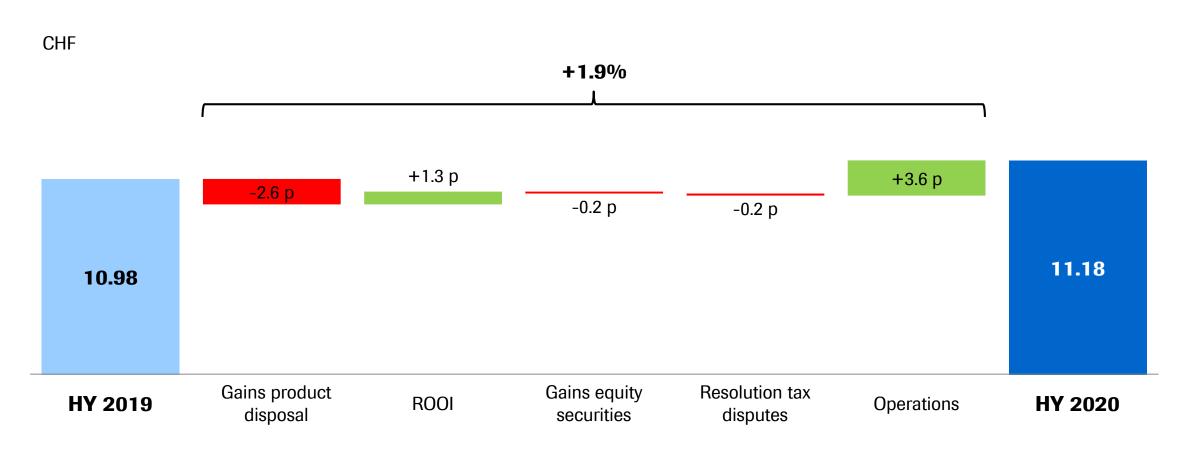
	HY 2020	HY 2019	Change	in %
	CHFm	CHFm	CHF	CER
Sales	29,281	30,469	-4	1
Core operating profit	11,766	12,363	-5	2
as % of sales	40.2	40.6		
Core net income	9,443	9,896	-5	3
as % of sales	32.2	32.5		
Core EPS (CHF)	10.44	11.12	-6	2
IFRS net income	8,465	8,904	-5	3
Operating free cash flow	5,036	7,508	-33	-26
as % of sales	17.2	24.6		
Free cash flow	3,274	5,277	-38	-29
as % of sales	11.2	17.3		

CER=Constant Exchange Rates 53



HY 2020: Core EPS development

Operations growth is driver for Core EPS growth, more than compensating lower gains on product disposals

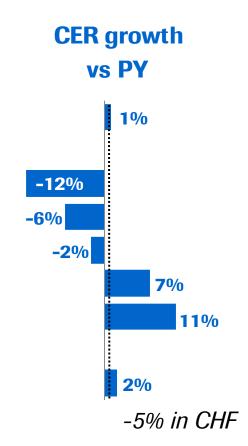




HY 2020: Group operating performance Core operating profit growth ahead of sales growth

2020 CHFm abs. CER

Sales	29,281	+406
		- 100
Royalties & other op. inc.	1,097	-154
Cost of sales	-7,079	+484
M & D	-4,515	+73
R & D	-5,787	-407
G & A	-1,231	-123
Core operating profit	11,766	+280
Core OP in % of sales	40.2%	



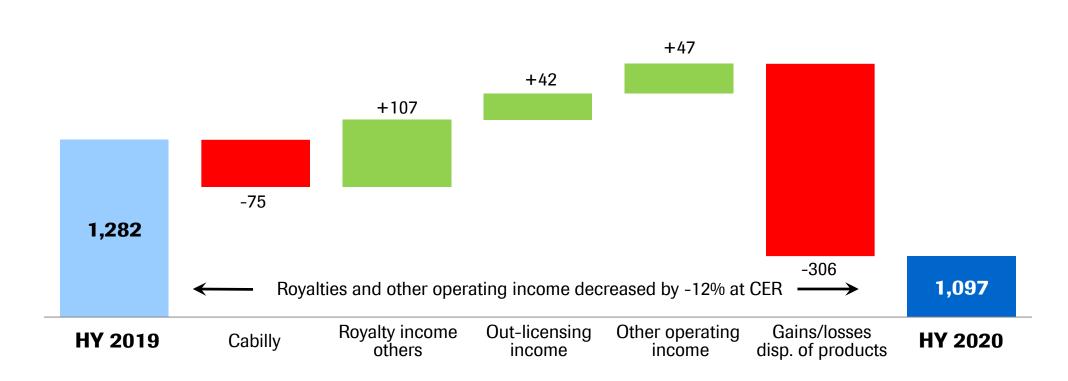
CER=Constant Exchange Rates

55



HY 2020: Royalties and other operating income Decline driven by lower income from product disposals

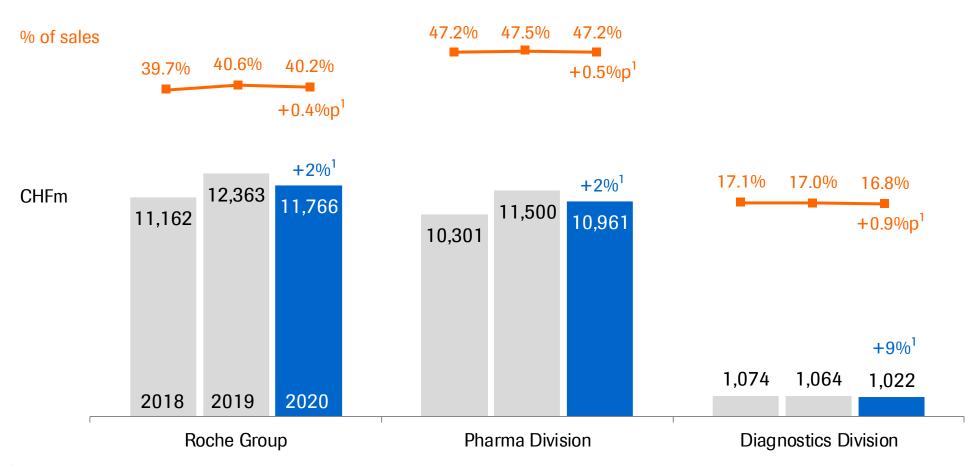




CER=Constant Exchange Rates





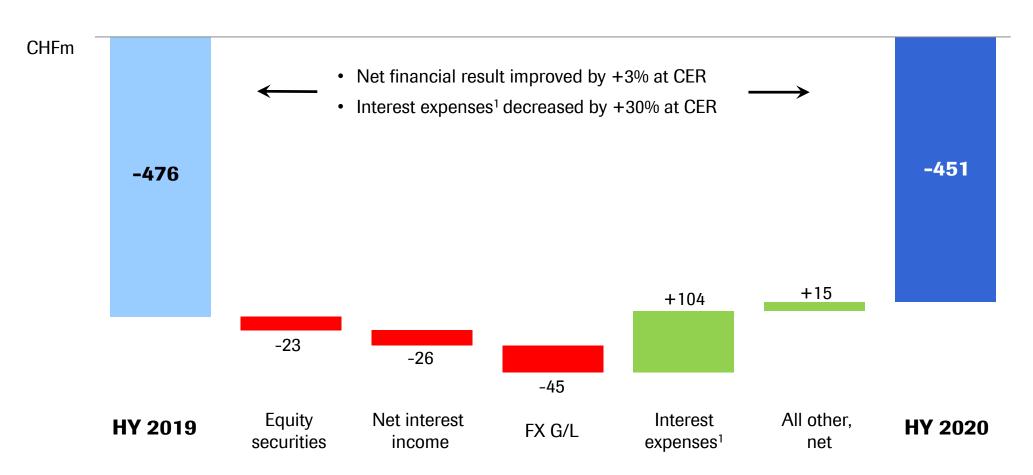


¹ At CER=Constant Exchange Rates

57



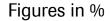
HY 2020: Core net financial result Improvement driven by lower interest expenses

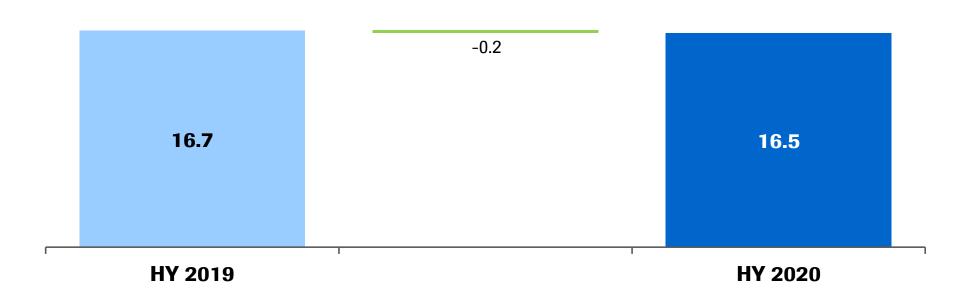




HY 2020: Group Core tax rate

Stable tax rate with similar impacts from resolution of tax disputes in HY 2020 and HY 2019







HY 2020: Non-core items

Non-core operating expenses lower than in 2019 driven by the Accutane provision release

	2019	2020		Chang	e in %
	CHF bn	CHFbn	CHFbn	CHF	CER
Core operating profit	12.4	11.8	-0.6	-5	+2
Global restructuring plans	-0.5	-0.3	+0.2		
Amortisation of intangible assets	-0.7	-0.8	-0.1		
Impairment of intangible assets ¹	-0.3	-0.3	-0.0		
M&A and alliance transactions	0.1	0.0	-0.1		
Legal & Environmental	-0.1	0.3	+0.4		
Total non-core operating items	-1.5	-1.1	+0.4		
IFRS Operating profit	10.8	10.6	-0.2	-2	+6
Total financial result & taxes	-1.9	-2.2	-0.2		
IFRS net income	8.9	8.5	-0.4	-5	+3

CER=Constant Exchange Rates; 1 incl. goodwill



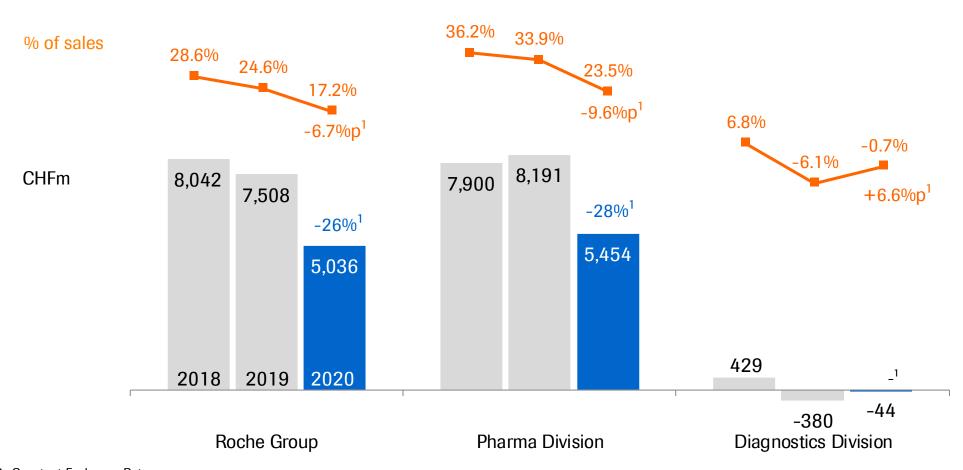
HY 2020 results

Focus on Cash

Outlook





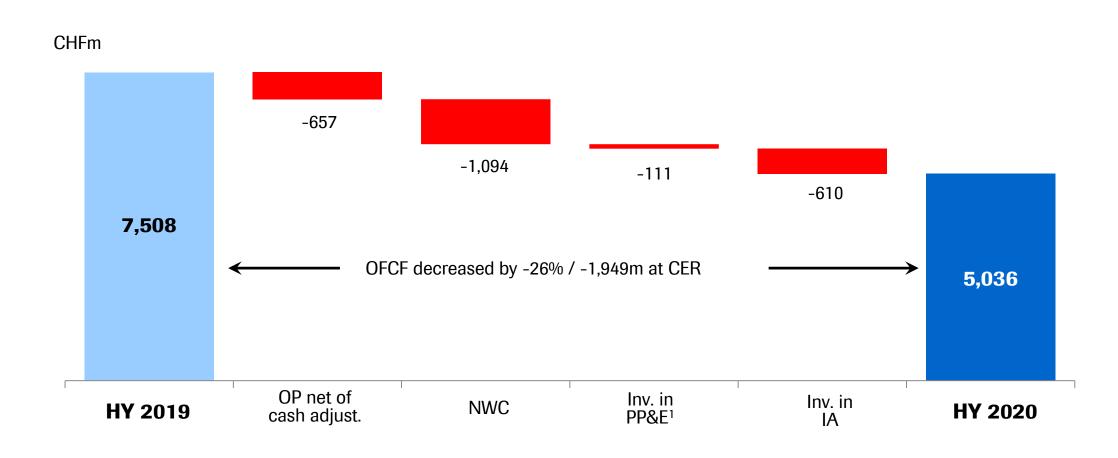


¹ At CER=Constant Exchange Rates





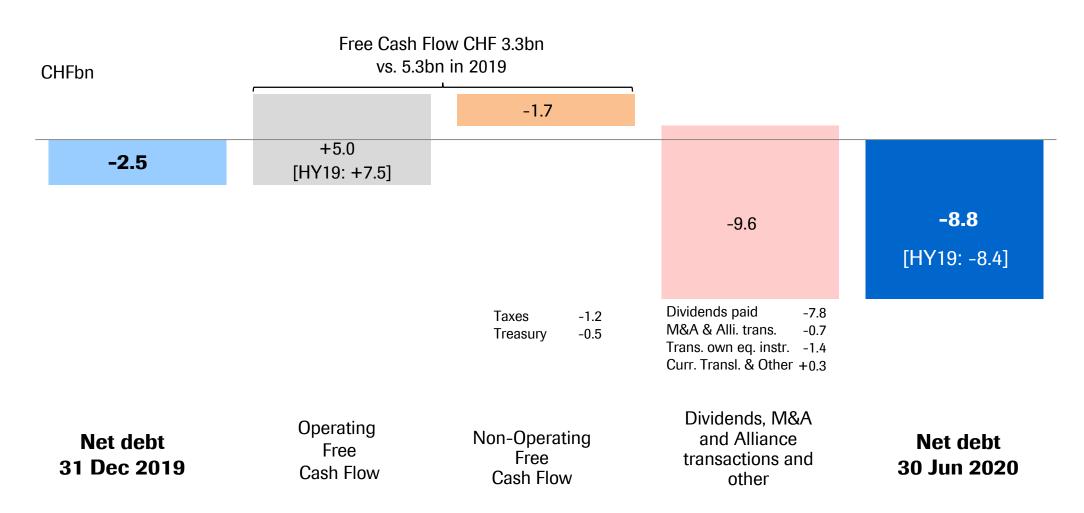
Lower than PY (-26%) driven by higher NWC and higher IA investments



HY 2020: Group net debt up vs. YE 2019





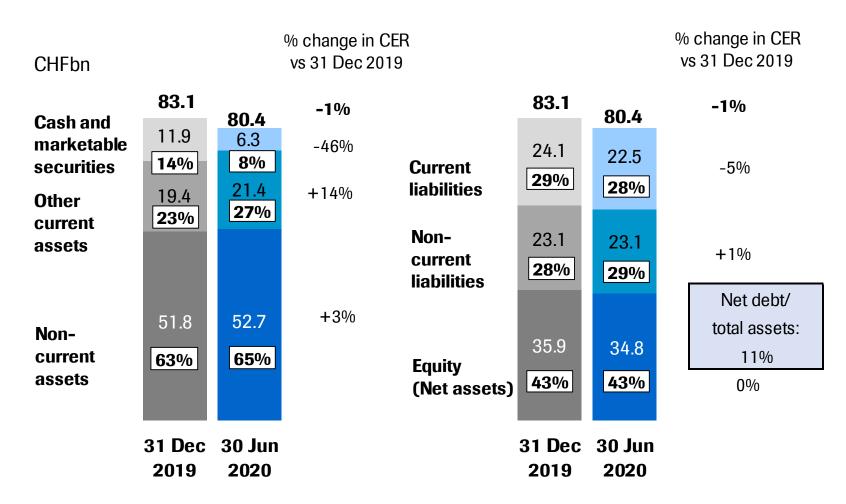


CER=Constant Exchange Rates (avg full year 2019)

Balance sheet 30 June 2020

Roche

Equity ratio at 43% (30 June 2019: 39%; 31 Dec 2019 43%)



CER=Constant Exchange Rates 65



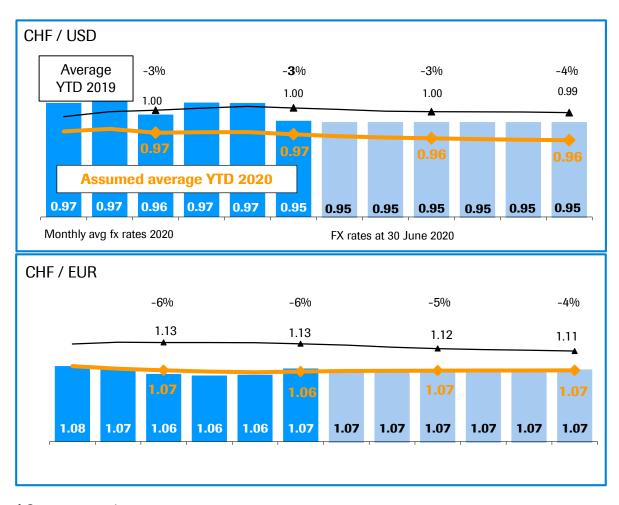
HY 2020 results

Focus on Cash

Outlook

High currency impact expected in 2020





Assuming the 30 June 2020 exchange rates remain stable until end of 2020, 2020 impact ¹ is expected to be (%p):

	Q1	HY	Sep YTD	FY
Sales	-5	-5	-5	-5
Core operating profit		-7		-7
Core EPS		-8		-8

¹ On group growth rates

2020 outlook confirmed *Further growing top and bottom line*



Group sales growth¹

• Low- to mid-single digit

Core EPS growth¹

Broadly in line with sales growth

Dividend outlook

Further increase dividend in Swiss francs

Changes to the development pipeline *Q2 2020 update*



New to phase I

5 NMEs:

RG6279 PD1-IL2v - solid tumors RG6247 4D-R110 - choroideremia RG6296 BCMA x CD16a - r/r MM RG7637 NME - neurodevelopmental disorders RG6115 TLR7 agonist (4) - HCC

New to phase II

3 NMEs: (transitioned from phase I)

RG7774 NME - retinal disease RG7854 TLR7 agonist (3) + RG7907 CpAM (2) combination - HBV

3 Als:

RG6058 tiragolumab+Tecentriq - cervical cancer RG6149 or RG7880 ST2 MAb or IL22-Fc -COVID-19 pneumonia IONIS ASO factor B - IgA-nephropathy

New to phase III

1 AI:

RG1569 Actemra+remdesivir - COVID-19 pneumonia

New to registration

2 Als:

RG7421 Cotellic+Zelboraf+Tecentriq - 1L+ BRAFm melanoma RG7601 Venclexta+azacitidine - 1L AML

Removed from phase I

1 NME:

RG6217 - HBV

4 Als:

RG7421 Cotellic+Tecentriq - RCC, bladder, head & neck ca

RG7421 Cotellic+Zelboraf+Tecentriq - melanoma

RG7421 Cotellic+Tecentriq - 2L BRAF WT MM

RG7601 Venclexta+idasanutlin - r/r AML

Removed from phase II

2 NMEs:

RG7314 balovaptan - autism RG7388 idasanutlin - 1L AML

Removed from phase III

1 AI:

RG3502 Kadcyla+Perjeta - Her2+ EBC

Approvals

1 NME approved in US

RG6264 Phesgo Perjecta+Herceptin FDC SC - HER2+ BC

2 Als approved in US

RG7446 Tecentriq + Avastin - 1L HCC **RG7446** Tecentriq - 1L non-sq + sq NSCLC Dx+

1 Al approved in EU

RG1594 Ocrevus Short infusion - RMS & PPMS

Roche Group development pipeline



Phase I (43 NMEs + 14 Als)

RG6026	glofitamab / combos	heme tumors	RG7769	PD1 x TIM3	solid tumors
RG6058	tiragolumab combos l	neme & solid tumors	RG7802	cibisatamab ± T	solid tumors
RG6076	CD19-4-1BBL	heme tumors	RG7827	FAP-4-1BBL FP	solid tumors
RG6107	crovalimab	PNH	RG7828	mosunetuzumab/combos	heme tumors
RG6115	TLR7 agonist (4)	HCC	RG7876	selicrelumab combos	solid tumors
RG6139	PD1 x LAG3	solid tumors	CHU	FIXa x FX	hemophilia
RG6160	FcRH5/ x CD3	r/r MM	CHU	glypican-3 x CD3	solid tumors
RG6171	SERD (3)	ER+/HER2- mBC	CHU	codrituzumab	HCC
RG6180	iNeST*± T	solid tumors	SQZ	PBMC vaccine	solid tumors
RG6185	belvarafenib (pan-RAF inh)+Cotellic	solid tumors	RG6151	-	asthma
RG6194	HER2 x CD3	ВС	RG6244	-	asthma
RG6279	PD1-IL2v	solid tumors	RG6287	-	IBD
RG6290	MAGE-A4 ImmTAC	solid tumors	RG7835	lgG-IL2	autoimmune diseases
RG6292	CD25 MAb	solid tumors	RG6084	-	HBV
RG6296	BCMA x CD16a	r/r MM	RG6346	HBV siRNA	HBV
RG6323	IL15/IL15Ra-Fc	solid tumors	RG7861	anti-S. <i>aureus</i> TAC	infectious diseases
RG7440	ipatasertib + Taxane + T	TNBC	RG7992	FGFR1 x KLB MAb	metabolic diseases
NG/440	ipatasertib + rucaparib n	nCRPC, solid tumors	RG6000	DLK inh	ALS
	T-based Morpheus platform	solid tumors	RG6102	brain shuttle gantenerumab	Alzheimer's
	T + Avastin + Cotellic	2/3L CRC	RG6237	-	neuromuscular disorders
	T ± Avastin ± chemo	HCC, GC, PaC	RG7637	- neur	odevelopmental disorders
RG7446	T + anti-CD20 combos	heme tumors	RG7816	GABA Aa5 PAM	autism
	T + K/HP	HER2+ BC	RG6179	-	DME
	T + rucaparib	ovarian cancer	RG6247	4D-R110	choroideremia
	T + CD47 MAb	r/r AML	RG7921	-	nAMD
RG7461	simlukafusp alpha (FAP IL2v FP) / com	bos solid tumors	CHU	PTH1 recep. ago	hypoparathyroidism
	Venclexta + AMG176	AML	CHU	-	hyperphosphatemia
RG7601	Venclexta ± azacitidine	r/r MDS	CHU	-	endometriosis
	Venclexta + gilteritinib	r/r AML			

RG-No - Roche/Genentech CHU- Chugai managed IONIS - IONIS managed

SQZ- SQZ Biotechnology managed NOV- Novimmune managed

*Individualized Neoantigen Specific Immunotherapy T=Tecentriq

New Molecular Entity (NME) Additional Indication (AI) Oncology / Hematology Immunology Infectious Diseases



Phase II (20 NMEs + 12 Als)

RG6180	iNeST* + pembrolizumab	malignant melanoma
RG6357	SPK-8011	hemophilia A
RG6358	SPK-8016 hemophi	lia A with inhibitors to factor VIII
RG6058	tiragolumab + T	NSCLC
NG0000	tiragolumab + T	cervical cancer
RG7421	Cotellic + T ± taxane	TNBC
RG7446	Tecentriq	SC NSCLC
RG7596	Polivy	r/r FL
	Venclexta + azacitidine	1L MDS
RG7601	Venclexta + fulvestrant	2L HR+BC
	Venclexta + carfilzomib	r/r MM t(11:14)
RG6149	ST2 MAb	asthma
RG6173	anti-tryptase	asthma
RG6354	rh pentraxin-2 (PRM-151)	myelofibrosis
NG0554	rh pentraxin-2 (PRM-151)	idiopathic pulmonary fibrosis
RG7159	Gazyva	lupus nephritis
RG7845	fenebrutinib	RA
RG7880	IL22-Fc	inflammatory diseases
RG6149/RG7880	ST2 MAb or IL22-Fc	COVID-19 pneumonia
NOV	TLR4 MAb	autoimmune diseases
RG7854+RG7907	TLR7 ago(3) + CpAM (2)	HBV
IONIS	ASO factor B	IgA nephropathy
RG6100	semorinemab	Alzheimer's
RG6356	microdystrophin (SRP-9001) DMD
RG7412	crenezumab	familial Alzheimer's healthy pts
RG7906	ralmitaront	schizophrenia
RG7935	prasinezumab	Parkinson's
RG6147	-	geographic atrophy
RG6367	SPK-7001	choroideremia
RG7774	-	retinal disease
IONIS	ASO factor B	geographic atrophy

Roche Group development pipeline



Phase III (8 NMEs + 30 Als)

RG6013	Hemlibra m	ild to moderate hemophilia A
RG6058	tiragolumab + T + chemo	1L SCLC
NG0000	tiragolumab + T	1L PD-L1+ NSCLC
RG6114	mPI3K alpha inh	1L HR+ mBC
	ipatasertib + abiraterone	1L CRPC
RG7440	ipatasertib + chemo	1L TNBC/HR+ BC
NG/440	ipatasertib + fulvestrant + p	albociclib 1L HR+ mBC
	ipatasertib + Tecentriq + tax	kane 1L TNBC
RG7596	Polivy	1L DLBCL
	Tecentriq	NSCLC adj
	Tecentriq	NMIBC, high risk
	Tecentriq	RCC adj
	T + chemo + Avastin	1L ovarian cancer
	T ± chemo	SCCHN adj
RG7446	Tecentriq	HER2+ BC neoadj
NG/440	T + paclitaxel	1L TNBC
	T + capecitabine or carbo/g	em 1L TNBC
	T + paclitaxel	TNBC adj
	T + nab-paclitaxel	TNBC neoadj
	T + Avastin	HCC adj
	T ± chemo	1L mUC

RG7446/ RG6268	Tecentriq bTMB-high or entrectinib ROS1+	1L NSCLC
RG7601	Venclexta	r/r MM t(11:14)
RG7853	Alecensa	ALK+ NSCLC adj
RG1569	Actemra	COVID-19 pneumonia
RG1569	Actemra + remdesivir	COVID-19 pneumonia
RG3648	Xolair	food allergy
RG7413	etrolizumab	ulcerative colitis
NG/413	etrolizumab	Crohn's
	Xofluza	influenza, hospitalized pts
RG6152	Xofluza	influenza, pediatric (0-1 year)
	Xofluza	influenza direct transmission
RG1450	gantenerumab	Alzheimer's
RG6042	tominersen	Huntington's
RG6321	port delivery system with r	anibizumab wAMD
NG0321	port delivery system with r	anibizumab DME
RG7716	faricimab	DME
Nu//10	faricimab	wAMD

Registration (5 NMEs + 11 Als)

RG6264	Phesgo ¹ Perjeta + I	C SC	HER2+ BC			
RG6268	Rozlytrek (entrectinib) 1		ROS1+ NSCLC			
NG0200	Rozlytrek (entrectinib) 1		NTRK+ tumor-agnostic			
RG7446	Tecentriq Dx+ 1		1L sq + non-sq NSCLC			
KG/446	Tecentriq+ Avastin	1L HCC				
RG7421	Cotellic + Zelboraf	1L+ BRAFm melanoma				
RG7601	Venclexta + azacitio		1L AML			
RG7853	Alecensa		1L	NSCLC Dx+		
RG3648	Xolair ²			nasal polyps		
	Xofluza ¹			influenza		
RG6152	Xofluza ¹		influer	nza, high risk		
KG0152	Xofluza ²	influenza post exposure prophylaxis				
	Xofluza ²	influenza, pediatric (1-12 yrs)				
RG1594	Ocrevus 3	shor	t infusion R	MS & PPMS		
RG6168	satralizumab			NMOSD		
RG7916	risdiplam ²			SMA		

¹ Approved in US, filed in EU

³ Filed in US, approved in EU





71

² Filed in US

NME submissions and their additional indications Projects in phase II and III



RG6321	Port Delivery System with ranibizumab WAMD										
RG7413	etrolizumab ulcerative colitis					RG6058	tiragolumab + Tecentriq 1L PD-L1+ cervical ca			RG6354	rh pentraxin-2 PRM-151 IPF
RG6152	Xofluza √ influenza, pediatric (1-12 yrs)	RG6152	Xofluza direct transmission	RG6042	tominersen Huntington's	RG6058	tiragolumab + Tecentriq 1L PD-L1+ NSCLC	RG7907 + RG7854	TLR7 ago (3) + CpAM (2) HBV	RG6354	rh pentraxin-2 PRM-151 myelofibrosis
RG6152	Xofluza √ influenza post-exposure prophylaxis	RG6152	Xofluza influenza, pediatric (0-1 year)	RG1450	gantenerumab Alzheimer's	RG6114	mPI3K alpha inh 1L HR+ BC	RG7906	ralmitaront schizophrenia	RG6149	ST2 MAb asthma
RG7916	risdiplam SMA (EU)	RG6152	Xofluza influenza, hospitalized	RG7413	etrolizumab Crohn's	RG6180	iNeST* oncology	RG6356	microdystrophin SRP-9001 DMD	RG6173	Anti-tryptase asthma
RG7440	ipatasertib + abiraterone 1L CRPC	RG7716	faricimab DME	RG6321	Port Delivery System with ranibizumab DME	RG7440	ipatasertib + fulv + palbociclib 1L HR+ mBC	RG6100	semorinemab (Tau MAb) Alzheimer's	RG7845	fenebrutinib autoimmune diseases
RG7440	ipatasertib + chemo 1L TNBC / HR+ BC	RG7716	faricimab wAMD	RG6058	tiragolumab + Tecentriq 1L SCLC	RG7440	ipatasertib + Tecentriq + taxane 1L TNBC	RG7935	prasinezumab Parkinson's	RG7880	IL22-Fc inflammatory diseases
2020 2021 2022						2023 and beyond					

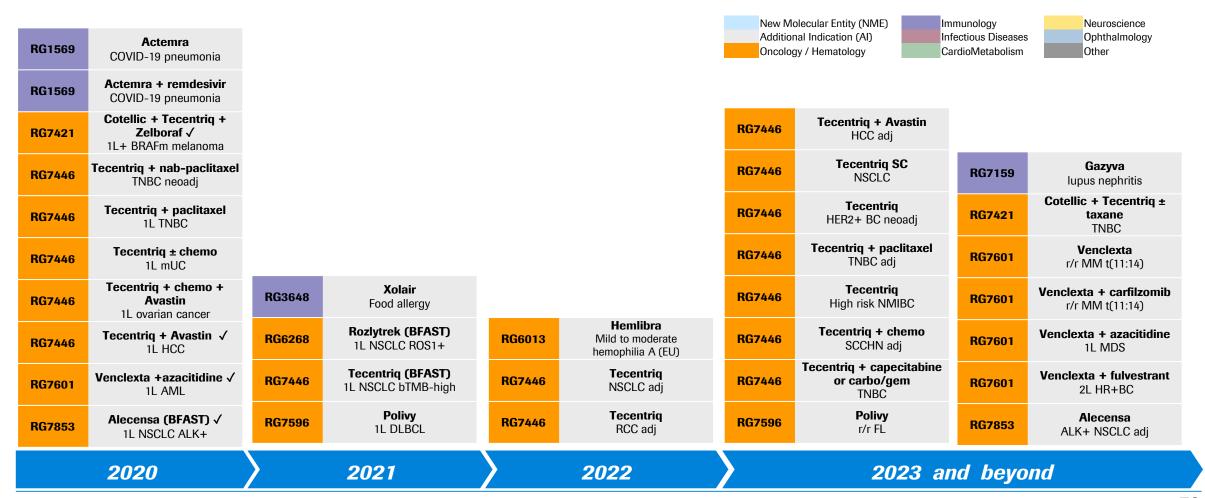
✓ Indicates submission to health authorities has occurred Unless stated otherwise submissions are planned to occur in US and EU





Al submissions for existing products Projects in phase II and III





Major pending approvals 2020

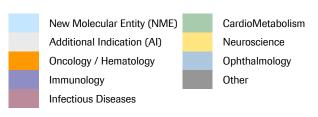


US			EU		China		Japan-Chugai	
RG6168	satralizumab NMOSD Filed Aug 2019	RG6268	Rozlytrek (entrectinib) ROS1+ NSCLC Filed Jan 2019	RG99	CellCept lupus nephritis Filed Aug 2018	RG3502	Kadcyla HER2+ eBC Filed Aug 2	adj
RG3648	Xolair nasal polyps Filed Sept 2019	RG6268	Rozlytrek (entrectinib) NTRK+ tumor-agnostic Filed Jan 2019	RG405	Avastin 1L/2L glioblastoma Filed Jan 2019	RG7446	Tecentriq +A HCC Filed Feb 20	
RG7916	risdiplam SMA Filed Nov 2019	RG6168	satralizumab NMOSD Filed Aug 2019	RG105	MabThera CLL Filed Apr 2019	RG7596	Polivy r/r DLBCl Filed June 2	
RG7853	Alecensa (BFAST) 1L NSCLC ALK+ Filed Jan 2020	RG7446	Tecentriq 1L non-sq + sq NSCLC Dx+ Filed Nov 2019	RG105	MabThera FL Filed Apr 2019			
RG1594	Ocrevus Short infusion RMS & PPMS Filed Feb 2020	RG6152	Xofluza influenza Filed Nov 2019	RG7159	Gazyva 1L FL Filed Sept 2019			
RG6152	Xofluza post exposure prophylaxis Filed March 2020	RG6152	Xofluza influenza, high risk Filed Nov 2019	RG7159	Gazyva r/r FL Filed Sept 2019			
RG6152	Xofluza influenza, pediatric (1-12 yrs) Filed March 2020	RG7446	Tecentriq +Avastin 1L HCC Filed Jan 2020	RG7446	Tecentriq +Avastin 1L HCC Filed Jan 2020			
RG7421	Cotellic + Zelboraf+ Tecentriq 1L+ BRAFm melanoma Filed May 2020	RG6264	Perjeta+Herceptin FDC SC Her2+BC Filed Jan 2020	RG6168	satralizumab NMOSD Filed April 2020		olecular Entity (NME)	CardioMetabo Neuroscience
RG7601	Venclexta+ azacitidine 1L AML Filed May 2020	RG7601	Venclexta+ azacitidine 1L AML Filed May 2020	RG7916	risdiplam SMA Filed March 2020		gy / Hematology	Ophthalmolog Other
				RG6152	Xofluza influenza Filed May 2020	Infectio FDC = fixed-dos	us Diseases e combination	
				RG6152	Xofluza influenza, high risk Filed May 2020			
Status as of Jul	iv 23, 2020			RG6013	Hemlibra Hemophilia A Filed June 2020			

Major granted approvals 2020



US			EU		China		Japan-Chugai	
RG7601	Venclexta+Gazyva 1L CLL Mar 2020	RG7596	Polivy r/r DLBCL January 2020	RG3502	Kadcyla HER2+ eBC Jan 2020	RG6268	Rozlytrek (entrectinib) ROS1+ NSCLC Feb 2020	
RG7446	Tecentriq + Avastin 1L HCC May 2020	RG7601	Venclexta+Gazyva 1L CLL Mar 2020	RG7446	Tecentriq + chemo 1L extensive stage SCLC Feb 2020	RG7853	Alecensa r/r ALK+ ALCL Feb 2020	
RG7446	Tecentriq 1L non-sq + sq NSCLC Dx+ May 2020	RG1594	Ocrevus Short infusion RMS & PPMS May 2020			RG105	Rituxan thrombocytopenic purpura Feb 2020	
RG6264	Phesgo (Perjeta+Herceptin FDC) SC Her2+BC June 2020					RG6168	Enspryng (satralizumab) NMOSD June 2020	





Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information

Hemlibra



Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients with inhibitors to factor VIII	Hemophilia A pediatric patients with inhibitors to factor VIII
Phase/study	Phase III HAVEN 1	Phase III HAVEN 2
# of patients	N=118	N=88
Design	Patients on episodic treatment prior to study entry: • ARM A: Hemlibra prophylaxis • ARM B: Episodic treatment (no prophylaxis) Patients on prophylaxis prior to study entry: • ARM C: Hemlibra prophylaxis Patients on episodic treatment previously on non-interventional study: • ARM D: Hemlibra prophylaxis	Patients on prophylactic or episodic treatment prior to study entry: • Cohort A: Hemlibra prophylaxis qw • Cohort B: Hemlibra prophylaxis q2w • Cohort C: Hemlibra prophylaxis q4w
Primary endpoint	 Number of bleeds over 24 weeks 	 Number of bleeds over 52 weeks
Status	 FPI Q4 2015, recruitment completed in arms A and B Q2 2016 Primary and all secondary endpoints met Q4 2016 Data published in <i>NEJM</i> 2017; 377:809-818 	 FPI Q3 2016, recruitment completed Q2 2017 Positive interim data in Q2 2017 FPI cohorts B/C Q4 2017 Full primary data at ASH 2018
	 Data presented at ISTH 2017, updated data presented at ASH 2017 Filed in US and EU in Q2 2017; granted accelerated assessment (EMA) and priority review (FDA) Approved in US Q4 2017 and EU Q1 2018 	
CT Identifier	NCT02622321	NCT02795767

Hemlibra



Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients without inhibitors to factor VIII	Hemophilia A patients with and without inhibitors to Factor VIII dosing every 4 weeks	
Phase/study	Phase III HAVEN 3	Phase III HAVEN 4	
# of patients	N=135	N=46	
Design	Patients on FVIII episodic treatment prior to study entry: • ARM A: Hemlibra prophylaxis qw • ARM B: Hemlibra prophylaxis q2w • ARM C: Episodic FVIII treatment; switch to Hemlibra prophylaxis possible after 24 weeks Patients on FVIII prophylaxis prior to study entry: • ARM D: Hemlibra prophylaxis qw	Multicenter, open-label, non-randomized study to assess the efficacy, safety, pharmacokinetics, and pharmacodynamics of Hemlibra administered every 4 weeks. • Part 1: Pharmacokinetic (PK) run-in part (N=6) • Part 2: Expansion part (N=40)	
Primary endpoint	 Number of bleeds over 24 weeks 	 Number of bleeds over 24 weeks 	
Status	 FPI Q3 2016, recruitment completed Q2 2017 Study met primary and key secondary endpoints Q4 2017 FDA granted Breakthrough Therapy Designation April 2018 Data presented at WFH 2018 Filed in US (priority review) and EU in Q2 2018 Data published in <i>NEJM</i> 2018; 379: 811-822 	 FPI Q1 2017, recruitment completed Q2 2017 PK run-in data at ASH 2017 Positive interim analysis outcome reported Q4 2017 Data presented at WFH 2018 Interim data filed in US and EU in Q2 2018 Data published in Lancet Haematology 2019 Jun;6(6):e295-e305 	
	-Approved in US Q4	2018 and EU Q1 2019	
CT Identifier	NCT02847637	NCT03020160	

Hemlibra



Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients with and without inhibitors to Factor VIII	Hemophilia A mild to moderate patients without inhibitors to Factor VIII
Phase/study	Phase III HAVEN 5	Phase III HAVEN 6
# of patients	N=85	N=70
Design	Patients with Hemophilia regardless of FVIII inhibitor status on prophylactic or episodic treatment prior to study entry: • Arm A: emicizumab prophylaxis qw • Arm B: emicizumab prophylaxis q4w • Arm C: No prophylaxis (control arm)	Multicenter, open-label study to evaluate the safety, efficacy, pharmacokinetics, and pharmacodynamics of Hemlibra in patients with mild or moderate Hemophilia A without FVIII inhibitors
Primary endpoint	Number of bleeds over 24 weeks	■ Safety and efficacy
Status	 FPI Q2 2018 Recruitment completed Q1 2019 Filed in China Q2 2020 	• FPI Q1 2020
CT Identifier	NCT03315455	NCT04158648

In collaboration with Chugai

Alecensa



New CNS-active inhibitor of anaplastic lymphoma kinase

Indication	Treatment-naïve ALK+ advanced NSCLC	Adjuvant ALK+ NSCLC
Phase/study	Phase III ALEX	Phase III ALINA
# of patients	N=286	N=255
Design	 ARM A: Alecensa 600mg BID ARM B: Crizotinib 250mg BID 	 ARM A: Alecensa 600 mg BID ARM B: Platinum-based chemotherapy
Primary endpoint	■ Progression-free survival	■ Disease-free survival
Status	 Recruitment completed Q3 2015 Primary endpoint met Q1 2017 Data presented at ASCO 2017, 2018, ESMO 2017, 2018 Data published in <i>NEJM</i> 2017; 377:829-838 CNS data presented at ESMO 2017 Final PFS and updated OS presented at ESMO 2019 Approved in US Q4 2017 (priority review) and in EU Q4 2017 	■ FPI Q3 2018
CT Identifier	NCT02075840	NCT03456076

Cotellic



Selective small molecule inhibitor of MAPK kinase

Indication	First-line metastatic triple negative breast cancer		
Phase/study	Phase II COLET		
# of patients	N=160		
Design	 ARM A: Cotellic plus paclitaxel ARM B: Placebo plus paclitaxel ARM C: Cotellic plus Tecentriq plus nab-paclitaxel ARM D: Cotellic plus Tecentriq plus paclitaxel 		
Primary endpoint	■ Progression-free survival and safety		
Status	 FPI Q1 2015 FPI arms C and D: Q4 2016 Data arms A and B presented at SABCS 2017 		
CT Identifier	NCT02322814		

Kadcyla



First ADC for HER2-positive breast cancer

Indication		ve early breast cancer n-risk patients
Phase/study		Phase III KATHERINE
# of patients		N=1,484
Design	 ARM A: Kadcyla 3.6mg/kg q3w ARM B: Herceptin 	
Primary endpoint	■ Invasive disease-free survival	
Status	 Recruitment completed Q4 2015 Stopped at pre-planned interim data analysis for efficacy Q4 2018 Data presented at SABCS 2018 BTD granted by FDA in Q1 2019 US filling completed under RTOR Q1 2019 and filed in EU Q1 2019 Approved in US Q2 2019 and in EU Q4 2019 Data published in <i>NEJM</i> 2019; 380:617-628 	
CT Identifier	١	NCT01772472

Perjeta

First-in-class HER2 dimerization inhibitor

Indication	Adjuvant HER2-positive breast cancer	Neoadjuvant/adjuvant HER2-positive breast cancer
Phase/study	Phase III APHINITY	Phase II BERENICE
# of patients	N=4,803	N=401
Design	 ARM A: Perjeta (840mg loading, 420 q3w) + Herceptin for 52 weeks plus chemotherapy (6-8 cycles) ARM B: Placebo + Herceptin (52 weeks) plus chemotherapy (6-8 cycles) 	 Neoadjuvant treatment: ARM A: ddAC q2w x4 followed by wkly paclitaxel for 12 wks, with P+H x 4 cycles ARM B: FEC plus P+H x 4 cycles followed by docetaxel plus P+H x 4 cycles Adjuvant treatment: P+H q3w to complete 1 year of HER2 therapy Hormonal and radiation therapy as indicated
Primary endpoint	Invasive disease-free survival (IDFS)	■ Safety
Status	 Primary endpoint met Q1 2017 Data presented at ASCO 2017 and published in NEJM 2017; 377:122-131 Filed in US and EU Q3 2017 Approved in US Q4 2017 (priority review) and EU Q2 2018 Six year IDFS data presented at SABCS 2019 	 Recruitment completed Q3 2015 Data presented at SABCS 2016 Data published in Ann Oncol. 2018 Mar 1; 29(3): 646-653
CT Identifier	NCT01358877	NCT02132949

Perjeta

Roche

First-in-class HER2 dimerization inhibitor

Indication	HER2-positive early breast cand	Neoadjuvant HER2-positive breast cancer	
Phase/study	Phase III FeDeriCa	Phase II Phrancesca	Phase III IMpassion050
# of patients	N=500	N=140	N=453
Design	Fixed-dose combination (FDC) of Perjeta (P) and Herceptin (H) for subcutaneous administration in combination with chemotherapy in the neoadjuvant/adjuvant setting • ARM A: P IV+H IV+chemotherapy • ARM B: FDC of PH SC+chemotherapy	• ARM A: PH IV followed by FDC SC • ARM B: PH FDC SC followed by IV	 ARM A: ddAC Herceptin/Perjeta + paclitaxel followed by surgery and chemotherapy ARM B: ddAC Herceptin/Perjeta + chemotherapy + Tecentriq followed by surgery and chemotherapy + Tecentriq
Primary endpoint	 Trough Serum Concentration (Ctrough) of Pertuzumab During Cycle 7 	 Percentage who preferred PH FDC SC 	 Pathologic complete response (pCR)
Status	 Recruitment completed Q4 2018 Study met primary endpoint Q3 2019 Data presented at SABCS 2019 Filed in US Q4 20 	 FPI Q4 2018 Final analysis completed, 85% patients preferred FDC SC 319 & in EU Jan 2020 	■ FPI Q4 2018
	•	in US Q2 2020	
CT Identifier	NCT03493854	NCT03674112	NCT03726879

Perjeta/Kadcyla and Tecentriq



Her2 targeted agents in combination with anti-PD-L1

Indication	Metastatic and locally advanced early breast cancer (HER2-positive)		
Phase/study	Phase I		
# of patients	N=76		
Design	 Cohort 1A (mBC): Tecentriq plus Perjeta plus Herceptin Cohort 1B (mBC): Tecentriq plus Kadcyla¹ Cohort 1F (mBC): Tecentriq plus Perjeta plus Herceptin plus docetaxel Cohort 2A (eBC): Tecentriq plus Perjeta plus Herceptin Cohort 2B (eBC): Tecentriq plus Kadcyla¹ Cohort 2C (expansion on cohort 1B): Tecentriq plus Kadcyla¹ 		
Primary endpoint	■ Safety		
Status	■ FPI Q4 2015 ■ Recruitment completed Q2 2018		
CT Identifier	NCT02605915		



Indication	1L non-squamous NSCLC		
Phase/study	Phase III IMpower150	Phase III IMpower132	
# of patients	N=1,202	N=568	
Design	 ARM A: Tecentriq plus paclitaxel plus carboplatin ARM B: Tecentriq plus Avastin plus paclitaxel plus carboplatin ARM C: Avastin plus paclitaxel plus carboplatin 	 ARM A: Tecentriq plus carboplatin or cisplatin plus pemetrexed ARM B: Carboplatin or cisplatin plus pemetrexed 	
Primary endpoint	 Progression-free survival and overall survival 	 Progression-free survival and overall survival 	
Status	 Study met co-primary endpoint of PFS in Q4 2017 and OS in Q1 2018 PFS data presented at ESMO IO 2017 and OS at ASCO 2018 Filed in US Q1 2018 (priority review) and EU (Q1 2018) Data published in NEJM 2018; 378:2288-2301 Approved in US Q4 2018 and EU Q1 2019 	 FPI Q2 2016 Recruitment completed Q2 2017 Study met co-primary endpoint of PFS in Q2 2018 Data presented at WCLC 2018 	
CT Identifier	NCT02366143	NCT02657434	



Indication	1L non-squamous and squamous NSCLC PD-L1-selected patients	1L extensive-stage SCLC
Phase/study	Phase III IMpower110	Phase III IMpower133
# of patients	N=570	N=400
Design	 ARM A: Tecentriq monotherapy ARM B: NSq: carboplatin or cisplatin plus pemetrexed Sq: carboplatin or cisplatin plus gemcitabine 	 ARM A: Tecentriq plus carboplatin plus etoposide ARM B: Placebo plus carboplatin plus etoposide
Primary endpoint	Overall survival	 Progression-free survival and overall survival
Status	 IMpower111 consolidated into IMpower110 Q3 2016 Recruitment completed Q1 2018 Study met primary endpoint in PD-L1 high (IC3/TC3) Q3 2019 Data presented at ESMO and ESMO-IO 2019 Filed in EU and US (priority review) Q4 2019 Approved in US Q2 2020 	 FPI Q2 2016 Orphan drug designation granted by FDA Q3 2016 Study met endpoints of OS and PFS in Q2 2018 Primary data presented at WCLC 2018 Data published in <i>NEJM</i> 2018; 379:2220-2229 Filed with the US and EU Q3 2018 Approved in US Q1 2019 and EU Q3 2019
CT Identifier	NCT02409342	NCT02763579



Indication	Adjuvant NSCLC	Neoadjuvant NSCLC
Phase/study	Phase III IMpower010	Phase III IMpower030
# of patients	N=1,127	N=450
Design	Following adjuvant cisplatin-based chemotherapy • ARM A: Tecentriq • ARM B: Best supportive care	 ARM A: Tecentriq + platinum-based chemotherapy ARM B: Platinum-based chemotherapy
Primary endpoint	■ Disease-free survival	 Major pathological response and event free survival
Status	 FPI Q3 2015 Trial amended from PD-L1+ selected patients to all-comers FPI for all-comer population Q4 2016 Recruitment completed Q3 2018 	■ FPI Q2 2018
CT Identifier	NCT02486718	NCT03456063



Indication	1L NSCLC	Stage IV non-small cell lung cancer
Phase/study	Phase II/III B-FAST	Phase lb/II IMscin001
# of patients	N=660	N=260
Design	 Cohort A: ALK+ (Alecensa) Cohort B: RET+ (Alecensa) Cohort C: bTMB-high (Tecentriq) Cohort D: ROS1+ (Rozlytrek) Cohort E: BRAF+ (vemurafenib plus cobimetinib plus Tecentriq) 	 Part 1: dose finding, atezo SC followed by atezo IV Part 2: non inferiority of atezo SC + Avastin + chemo vs atezo IV + Avastin+ chemo
Primary endpoint	Cohort A/B: Objective response rateCohort C: Progression-free survival	 Observed concentration of atezolizumab in serum at cycle 1
Status	 FPI Q3 2017 Recruitment completed for cohort A Q3 2018 and cohort C Q3 2019 Study met primary endpoint in cohort A (ALK+) Q3 2019; presented at ESMO 2019 ALK+ Alecensa (cohort A) filed in US Q1 2020 	■ FPI Q4 2018
CT Identifier	NCT03178552	NCT03735121



Anti-PD-L1 cancer immunotherapy – SCCHN

Indication	Adjuvant squamous cell carcinoma of the head and neck	
Phase/study	Phase III IMvoke010	
# of patients	N=400	
Design	ARM A: Tecentriq 1200mg q3w ARM B: Placebo	
Primary endpoint	Event-free survival and overall survival	
Status	 FPI Q1 2018 Recruitment completed Q1 2020 	
CT Identifier	NCT03452137	



Anti-PD-L1 cancer immunotherapy – UC

Indication	1L metastatic urothelial carcinoma	High-risk non-muscle-invasive bladder cancer
Phase/study	Phase III IMvigor130	Phase III ALBAN
# of patients	N=1,200	N=614
Design	 ARM A: Tecentriq plus gemcitabine and carboplatin or cisplatin ARM B: Tecentriq monotherapy ARM C: Placebo plus gemcitabine and carboplatin or cisplatin 	 ARM A: BCG induction and maintenance ARM B: Tecentriq+ BCG induction and maintenance
Primary endpoint	 Progression-free survival, overall survival and safety 	Recurrence-free survival
Status	 FPI Q3 2016 FPI for arm B (amended study) Q1 2017 Recruitment completed Q3 2018 Study met co-primary endpoint of PFS Q3 2019 Data presented at ESMO 2019 	■ FPI Q4 2018
CT Identifier	NCT02807636	NCT03799835

UC=urothelial carcinoma; BCG=Bacille Calmette-Guérin



Anti-PD-L1 cancer immunotherapy – renal cell cancer

Indication	Adjuvant renal cell carcinoma	Advanced renal cell carcinoma after immune checkpoint inhibitor treatment
Phase/study	Phase III IMmotion010	Phase III Contact-03 ¹
# of patients	N=664	N=500
Design	 ARM A: Tecentriq monotherapy ARM B: Observation 	 ARM A: Tecentriq plus cabozantinib ARM B: cabozantinib
Primary endpoint	■ Disease-free survival	 Progression-free survival and overall survival
Status	 FPI Q1 2017 Recruitment completed Q1 2019 	■ FPI expected Q3
CT Identifier	NCT03024996	NCT04338269

¹In collaboration with Exelixis



Anti-PD-L1 cancer immunotherapy – CRC and HCC

Indication	2/3L metastatic colorectal cancer	1L hepatocellular carcinoma	Adjuvant hepatocellular carcinoma
Phase/study	Phase I	Phase III IMbrave150	Phase III IMbrave050
# of patients	N=84	N=501	N=662
Design	Open-label, single-arm, two-stage study with Cotellic plus Tecentriq plus Avastin • Stage 1: Safety run-in • Stage 2: Dose-expansion with two cohorts: - Expansion - Biopsy	 ARM A: Tecentriq plus Avastin ARM B: Sorafenib 	• ARM A: Tecentriq plus Avastin • ARM B: Active surveillance
Primary endpoint	■ Safety	 Overall survival and progression free survival 	Recurrence-Free Survival (RFS)
Status	 FPI Q3 2016 Recruitment completed Q3 2018 Data presented at ESMO 2019 	 FPI Q1 2018 Recruitment completed Q1 2019 Data presented at ESMO Asia 2019 US filing completed under RTOR Q1 2020; filed in EU Q1 2020 Data published in NEJM 2020;382:1894-1905 Approved in US Q2 2020 	■ FPI Q4 2019
CT Identifier	NCT02876224	NCT03434379	NCT04102098



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication		Previously untreated metastatic	
maicauon	triple negative breast cancer		
Phase/study	Phase III IMpassion130	Phase III IMpassion131	Phase III IMpassion132
# of patients	N=900	N=540	N=572
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	 ARM A: Tecentriq plus paclitaxel ARM B: Placebo plus paclitaxel 	 ARM A: Tecentriq plus capecitabine or carbo/gem ARM B: Placebo plus capecitabine or carbo/gem
Primary endpoint	 Progression-free survival and overall survival (co-primary endpoint) 	 Progression-free survival 	Overall survival
Status	 Recruitment completed Q2 2017 Study met co-primary endpoint of PFS in both PDL1+ and ITT populations Jul 2018 Primary PFS and interim OS data presented at ESMO 2018 and ASCO 2019 Data published in <i>NEJM</i> 2018; 379:2108-2121 US accelerated approval Q1 2019 Approved in EU Q3 2019 	 FPI Q3 2017 Recruitment completed Q3 2019 	• FPI Q1 2018
CT Identifier	NCT02425891	NCT03125902	NCT03371017



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication	Neoadjuvant triple negative breast cancer	Adjuvant triple negative breast cancer
	Trocacjavant arpio nogativo broast ouncoi	Adjuvant aipio nogativo broact ounoci
Phase/study	Phase III IMpassion031	Phase III IMpassion030
# of patients	N=324	N=2,300
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	 ARM A: Tecentriq + paclitaxel followed by AC followed by Tecentriq + AC, followed by Tecentriq maintenance ARM B: Placebo + paclitaxel followed by AC followed by placebo
Primary endpoint	 Percentage of participants with pathologic complete response (pCR) 	Invasive Disease Free Survival
Status	 FPI Q3 2017 Recruitment completed Q2 2018 Q1 2019 IDMC recommendation to expand study to recruit 120 additional patients (all comers and PDL1-positive). Recruitment completed for additional patients Q3 2019 Study met primary endpoint Q2 2020 	• FPI Q3 2018
CT Identifier	NCT03197935	NCT03498716

IDMC=Independent data monitoring committee



Anti-PD-L1 cancer immunotherapy – ovarian cancer

Indication	Front-line ovarian cancer	Advanced gynecological cancers and triple negative breast cancer
Phase/study	Phase III IMaGYN050	Phase Ib
# of patients	N=1,300	N=48
Design	 ARM A: Tecentriq plus carboplatin plus paclitaxel plus Avastin ARM B: Carboplatin plus paclitaxel plus Avastin 	 Part 1: Dose finding Tecentriq plus rucaparib (CO-338)¹ Part 2: Expansion Tecentriq plus rucaparib (CO-338)¹
Primary endpoint	 Progression-free survival and overall survival (co-primary endpoint) 	■ Safety
Status	 FPI Q1 2017 Recruitment completed Q1 2019 Primary endpoint not met Q2 2020 	• FPI Q2 2017
CT Identifier	NCT03038100	NCT03101280

¹Rucaparib in collaboration with Clovis



Anti-PD-L1 cancer immunotherapy – melanoma

Indication	First-line BRAFv600 mutation-positive metastatic or unresectable locally advanced melanoma
Phase/study	Phase III IMspire150 TRILOGY
# of patients	N=500
Design	Double-blind, randomized, placebo-controlled study • ARM A: Tecentriq plus Cotellic plus Zelboraf¹ • ARM B: Placebo plus Cotellic plus Zelboraf¹
Primary endpoint	■ Progression-free survival
Status	 FPI Q1 2017 Recruitment completed Q2 2018 Primary endpoint met Q4 2019 Data presented at AACR 2020 Data published in Lancet;395(10240):1835-1844 Filed in US Q2 2020 under Project Orbis²
CT Identifier	NCT02908672



Anti-PD-L1 cancer immunotherapy – hematology

Indication	Relapsed or refractory AML
Phase/study	Phase I
# of patients	N=21
Design	■ Tecentriq plus anti-CD47
Primary endpoint	- Safety and efficacy
Status	■ FPI Q4 2019
CT Identifier	NCT03922477

AML=acute myeloid leukemia



Novel small molecule Bcl-2 selective inhibitor – CLL

Indication	Untreated CLL patients with coexisting medical conditions	Relapsed or refractory CLL	Untreated fit CLL patients
Phase/study	Phase III CLL14	Phase III MURANO	Phase III CristaLLo
# of patients	N=432	N=391	N=165
Design	 ARM A: Venclexta plus Gazyva ARM B: Chlorambucil plus Gazyva 	 ARM A: Venclexta plus Rituxan ARM B: Rituxan plus bendamustine 	 ARM A: Venclexta plus Gazyva ARM B: Fludarabine + cyclophosphamide + Rituxan or bendamustine + Rituxan
Primary endpoint	 Progression-free survival 	 Progression-free survival 	 MRD negativity rate in peripheral blood at 15 months
Status	 Study met primary endpoint at pre-specified interim analysis Q4 2018 BTD granted by FDA Q1 2019 US filing completed under RTOR Q1 2019 Filed in EU Q2 2019 Data presented at ASCO 2019 and ASH 2019 Data published in NEJM 2019; 380:2225-2236 Approved US Q2 2019 and EU Q1 2020 	 Study met primary endpoint at interim analysis Data presented at ASH 2017 Filed in US Q4 2017 and EU Q1 2018 Data published in <i>NEJM</i> 2018; 378:1107–20 Updated data presented at ASCO 2018 and ASH 2019 Approved in US Q2 2018 (priority review) EU approval Q4 2018 	■ FPI Q2 2020
CT Identifier	NCT02242942	NCT02005471	NCT04285567



Novel small molecule Bcl-2 selective inhibitor – MM

Indication	Relapsed or refractory multiple myeloma		
Phase/study	Phase I	Phase Ib/II	Phase III CANOVA
# of patients	N=166	N=120	N=244
Design	 Dose escalation cohort: Venclexta dose escalation Safety expansion cohort (t11:14): Venclexta expansion Combination: Venclexta plus dexamethasone 	 Venclexta plus carfilzomib plus dexamethasone in t(11;14) positive r/r MM 	 Venclexta plus dexamethazone vs pomalidomide plus dexamethasone in t(11;14) positive r/r MM
Primary endpoint	 Safety and maximum tolerated dose 	 Safety, objective response rate, PK, PD 	 Progression-free survival
Status	 FPI Q4 2012 Data presented at ASCO 2015 Updated data presented at ASCO 2016 and ASH 2016 	■ FPI Q1 2017	■ FPI Q4 2018
CT Identifier	NCT01794520	NCT02899052	NCT03539744



Novel small molecule Bcl-2 selective inhibitor – AML

Indication	Treatment-naïve AML not eligible for standard induction therapy		
Phase/study	Phase III Viale-A	Phase III Viale-C	
# of patients	N=443	N=175	
Design	 ARM A: Venclexta plus azacitidine ARM B: Azacitidine 	 ARM A: Venclexta plus low-dose cytarabine ARM B: Low-dose cytarabine 	
Primary endpoint	 Overall survival and percentage of participants with complete remission 		
Status	 FPI Q1 2017 Study met dual primary endpoints Q1 2020 Data presented at EHA 2020 Filed in U5 	 FPI Q2 2017 Study did not meet primary endpoint Q1 2020 Primary and additional 6 month overall survival data presented at ASCO 2020 JS and EU Q2 2020	
CT Identifier	NCT02993523 NCT03069352		



Novel small molecule Bcl-2 selective inhibitor – AML

Indication	Treatment-naïve AML not eligible for standard induction therapy		
Phase/study	Phase Ib	Phase Ib/II	
# of patients	N=212	N=92	
Design	 Venclexta (dose escalation) plus decitabine Venclexta (dose escalation) plus azacitidine Venclexta (dose escalation) plus decitabine plus posaconazole 	 Venclexta (dose escalation) plus low-dose cytarabine 	
Primary endpoint	■ Safety ■ Safety, PK, PD and efficacy		
Status	 FPI Q4 2014 Initial data presented at ASH 2015, updated data presented at ASCO 2016 and ASCO 2018 Breakthrough Therapy Designation granted by FDA Q1 2016 Data published in Blood. 2019 Jan 3;133(1):7-17 	 FPI Q1 2015 Initial data presented at ASCO 2016, updated data presented at ASH 2016 and ASH 2017 Breakthrough Therapy Designation granted by FDA Q3 2017 	
	■ Filed in US Q3 2018 ■ US accelerated approval Q4 2018		
CT Identifier	NCT02203773 NCT02287233		



Novel small molecule Bcl-2 selective inhibitor – AML

Indication	Relapsed or refractory AML	Relapsed or refractory hematological malignancies
Phase/study	Phase I	Phase I
# of patients	N=52	N=86
Design	Venclexta in combination with gilteritinib	 Venclexta plus AMG176 dose escalation Dose expansion phase to confirm safety and preliminary RPTD
Primary endpoint	 Dose and composite complete remission (CRc) Rate 	 Maximum tolerated dose and safety
Status	 FPI Q4 2018 Initial data presented at ASH 2019 	FPI Q2 2019Study on clinical hold
CT Identifier	NCT03625505	NCT03797261



Novel small molecule Bcl-2 selective inhibitor – MDS

Indication	Relapsed or refractory myelodysplastic syndromes	Treatment-naive myelodysplastic syndromes	
Phase/study	Phase Ib	Phase II	
# of patients	N=68	N=129	
Design	Cohort 1: • ARM A: Venclexta 400 mg • ARM B: Venclexta 800 mg Cohort 2: • ARM A: Venclexta plus azacitidine Study expansion: • Venclexta or Venclexta plus azacitidine	 ARM A: Venclexta 400 mg plus azacitidine ARM B: Venclexta 800 mg plus azacitidine ARM C: Azacitidine 	
Primary endpoint	 Safety, efficacy, PK and PD 	Overall response rate	
Status	■ FPI Q1 2017	FPI Q1 2017Data presented at ASH 2019	
CT Identifier	NCT02966782	NCT02942290	



Novel small molecule Bcl-2 selective inhibitor – breast cancer

Indication	≥2L HR+ breast cancer	
Phase/study	Phase II VERONICA	
# of patients	N=100	
Design	 ARM A: Venclexta plus fulvestrant ARM B: Fulvestrant 	
Primary endpoint	Clinical benefit lasting equal or more than 24 weeks	
Status	• FPI Q3 2018	
CT Identifier	NCT03584009	

Polivy (polatuzumab vedotin)



ADC targeting CD79b to treat B cell malignancies

Indication	Relapsed or refractory FL and DLBCL	1L DLBCL	
Phase/study	Phase Ib/II	Phase III POLARIX	
# of patients	N=329	N=875	
Design	 Plb: Dose escalation PhII: Polatuzumab vedotin plus BR vs. BR PhII expansion: Polatuzumab vedotin plus Gazyva (non-randomized) 	 ARM A: Polatuzumab vedotin plus R-CHP ARM B: R-CHOP 	
Primary endpoint	 Safety and response by PET/CT 	 Progression-free survival 	
Status	 FPI Q4 2014 PRIME Designation (Q2 2017) and Breakthrough Therapy Designation (Q3 2017) granted for r/r DLBCL Pivotal randomized Ph2 in r/r DLBCL presented at ASH 2017 Filed in US and EU Q4 2018; US priority review granted Q1 2019 Approved in US Q2 2019 and in EU Jan 2020 Published in J Clin Oncol. 2020 Jan 10;38(2):155-165 	 FPI Q4 2017 Recruitment completed Q2 2019 	
CT Identifier	NCT02257567	NCT03274492	

Polivy (polatuzumab vedotin)



ADC targeting CD79b to treat B cell malignancies

Indication	Relapsed or refractory FL or DLBCL		
Phase/study	Phase I/II	Phase I/II	
# of patients	N=134	N=128	
Design	 Dose escalation cohort: Polatuzumab vedotin plus Gazyva plus Venclexta¹ Expansion cohort DLBCL: Polatuzumab vedotin plus Rituxan plus Venclexta¹ Expansion cohort FL: Polatuzumab vedotin plus Gazyva plus Venclexta¹ 	 Dose escalation cohort: Polatuzumab vedotin plus Gazyva plus lenalidomide Expansion cohort DLBCL: Polatuzumab vedotin plus Rituxan plus lenalidomide Expansion cohort FL: Polatuzumab vedotin plus Gazyva plus lenalidomide 	
Primary endpoint	 Percentage of participants with CR 	 Percentage of participants with CR 	
Status	• FPI Q1 2016	 FPI Q1 2016 Interim data in FL presented at ASCO, EHA and ICML 2019 Primary data presented at ASH 2019 	
CT Identifier	NCT02611323	NCT02600897	

Rozlytrek (entrectinib)



CNS-active and selective inhibitor of NTRK/ROS1

Indication	Locally Advanced or Metastatic tumors with ROS1 gene rearrangement	Locally Advanced or Metastatic tumors with NTRK1/2/3 gene rearrangement	Pediatric tumors with NTRK 1/2/3, ROS-1 or ALK rearrangement
Phase/study	Phase II STARTRK2	Phase II STARTRK2	Phase I/Ib STARTRK - NG
# of patients	N~300 total	N~300 total	N~80
Design	Single arm with Baskets based on tumor type and genomic alteration status	Single arm with Baskets based on tumor type and genomic alteration status	Single arm with Baskets based on tumor type and genomic alteration status
Primary endpoint	 Objective response rate 	 Objective response rate 	 Maximum tolerated dose (MTD) and recommended phase II dose (RP2D)
	FPI Q1 2016Data presented at WCLC 2018	FPI Q1 2016Data presented at ESMO 2018	 FPI Q2 2016 Initial data presented at ASCO 2019
 Breakthrough Therapy Designation granted by FDA (Q2 2017), PRIME designation granted by EMA (Q1 2018) and Sakigake I by MHLW (Q4 2017) for NTRK fusion-positive, locally advanced or metastatic solid tumors Filed in US Q4 2018 and EU Q1 2019 Approved in US Q3 2019 			
CT Identifier	NCT02568267	NCT02568267	NCT02650401

Ocrevus (ocrelizumab, RG1594)



Humanized mAb selectively targeting CD20+ B cells

Indication	Relapsing multiple sclerosis (RMS)		Primary-progressive multiple sclerosis (PPMS)
Phase/study	Phase III OPERA I	Phase III OPERA II	Phase III ORATORIO
# of patients	N=821	N=835	N=732
Design	 96-week treatment period: ARM A: Ocrelizumab 2x300 mg iv followed by 600 mg iv every 24 weeks ARM B: Interferon β-1a 	 96-week treatment period: ARM A: Ocrelizumab 2x300 mg iv followed by 600 mg iv every 24 weeks ARM B: Interferon β-1a 	120-week treatment period:ARM A: Ocrelizumab 2x300 mg iv every 24 weeksARM B: Placebo
Primary endpoint	 Annualized relapse rate at 96 weeks versus Rebif 	 Annualized relapse rate at 96 weeks versus Rebif 	 Sustained disability progression versus placebo by Expanded Disability Status Scale (EDSS)
Status	 Primary endpoint met Q2 2015, OLE ongoing Primary data presented at ECTRIMS 2015 Updated data presented at AAN and ECTRIMS 2017, AAN and EAN 2018 Data published in NEJM 2017; 376:221-234 		 Primary endpoint met Q3 2015 Primary data presented at ECTRIMS 2015, updated data presented at AAN and ECTRIMS 2017, AAN and EAN 2018 Data published in <i>NEJM</i> 2017; 376:209-220
	 Approved in US Q1 2017 and EU Q1 2018 		1 2018
CT Identifier	NCT01247324	NCT01412333	NCT01194570

Ocrevus (ocrelizumab, RG1594)



Humanized mAb selectively targeting CD20+ B cells

Indication	Relapsing and primary progressive multiple sclerosis (RMS & PPMS)
Phase/study	Phase IIIb ENSEMBLE PLUS
# of patients	N ~ 700
Design	 Substudy of ongoing phase IIIb, open-label, single-arm ENSEMBLE study Shorter two-hour infusion time
Primary endpoint	 Safety, measured by the proportion of patients with IRRs following the first randomised 600 mg infusion (frequency/severity assessed during and 24-hours post infusion)
Status	 Filed in US and EU Q1 2020 Approved in EU Q2 2020 Data published Neurol, Neuroimmunol and Neuroinflamm Sept 2020; 7(5), e807, publication available since June 2020
CT Identifier	NCT03085810

Gazyva (obinutuzumab)



Immunology development program

Indication	Lupus nephritis	
Phase/study	Phase II NOBILITY	Phase III REGENCY
# of patients	N=120	N=252
Design	 ARM A: Obinutuzumab 1000mg IV plus mycophenolate mofetil / mycophenolic acid ARM B: Placebo IV plus mycophenolate mofetil / mycophenolic acid 	 ARM A: Obinutuzumab 1000 mg IV (six doses through Week 52) plus mycophenolate mofetil ARM B: Obinutuzumab 1000 mg IV (five doses through Week 52) plus mycophenolate mofetil ARM C: Placebo IV plus mycophenolate mofetil
Primary endpoint	 Percentage of participants who achieve complete renal response (CRR) 	 Percentage of participants who achieve complete renal response (CRR)
Status	 Recruitment completed Q4 2017 Primary endpoint met Q2 2019 Breakthrough therapy designation granted by the FDA Q3 2019 Data presented at ASN and ACR 2019 	• FPI expected Q3 2020
CT Identifier	NCT02550652	NCT04221477

Actemra/RoActemra (RG-1569)



Interleukin 6 receptor inhibitor

Indication	Adult hospitalised with severe COVID-19 pneumonia	
Phase/study	Phase III COVACTA ¹	Phase III REMDACTA ²
# of patients	N=450	N=450
Design	 Arm A: tocilizumab plus standard of care Arm B: placebo plus standard of care 	 Arm A: remdesivir plus tocilizumab Arm B: remdesivir plus placebo
Primary endpoint	 Clinical status assessed using 7-Category Ordinal Scale (Day 28) 	 Clinical status assessed using 7-Category Ordinal Scale (Day 28)
Status	• FPI Q1 2020 • LPI Q2 2020	■ FPI Q2 2020
CT Identifier	NCT04320615	NCT04409262

Actemra/RoActemra (RG-1569)



Interleukin 6 receptor inhibitor

Indication	Adult hospitalised with severe COVID-19 pneumonia	
Phase/study	Phase II MARIPOSA	Phase III EMPACTA
# of patients	N=100	N=379
Design	 Arm A: 8 mg/kg tocilizumab plus standard of care Arm B: 4mg/kg tocilizumab plus standard of care 	Conducted in sites known to provide critical care to underserved and minority populations that often do not have access to clinical trials - Arm A: tocilizumab plus standard of care - Arm B: placebo plus standard of care
Primary endpoint	Pharmacodynamics and pharmacokinetics	 Cumulative proportion of participants requiring mechanical ventilation by day 28
Status	■ FPI Q2 2020 ■ LPI Q2 2020	■ FPI Q2 2020
CT Identifier	NCT04363736	NCT04372186

Xolair



Humanized mAb that selectively binds to IgE

Indication	Chronic rhinosinusitis with nasal polyps		Food allergy
Phase/study	Phase III POLYP 1	Phase III POLYP 2	Phase III OUtMATCH ¹
# of patients	N=138	N=127	N=225
Design	Adult patients with chronic rhinosinusitis with nasal polyps (CRSwNP) who have had an inadequate response to SOC: • ARM A: Xolair every 2 wks or every 4 wks • ARM B: Placebo	Adult patients with chronic rhinosinusitis with nasal polyps (CRSwNP) who have had an inadequate response to SOC: • ARM A: Xolair every 2 wks or every 4 wks • ARM B: Placebo	 Xolair by subcutaneous injection either every 2 weeks or every 4 weeks for 16 to 20 weeks
Primary endpoint	 Change from baseline in average daily nasal congestion score (NCS) at week 24 Change from baseline in nasal polyp score (NPS) to week 24 	 Change from baseline in average daily nasal congestion score (NCS) at week 24 Change from baseline in nasal polyp score (NPS) to week 24 	 Number of participants who successfully consume ≥600 mg of peanut protein without dose-limiting symptoms
Status	 FPI Q4 2017 Recruitment completed Q3 2018 Co-primary endpoints met Q2 2019 	 FPI Q4 2017 Recruitment completed Q3 2018 Co-primary endpoints met Q2 2019 	• FPI July 2019
	Filed in US Q4 2019		
CT Identifier	NCT03280550	NCT03280537	NCT03881696

Xofluza (baloxavir marboxil, RG6152, S-033188)



Small molecule, novel CAP-dependent endonuclease inhibitor

Indication	Influenza	
Phase/study	Phase III CAPSTONE-1	Phase III CAPSTONE-2
# of patients	N=1,436	N=2,184
Design	 Randomized, double-blind study of a single dose of Xofluza compared with placebo or Tamiflu 75 mg twice daily for 5 days in otherwise healthy patients with influenza 	 Randomized, double-blind study of a single dose of Xofluza compared with placebo or Tamiflu 75 mg twice daily for 5 days in patients with influenza at high risk of influenza complications
Primary endpoint	Time to alleviation of symptoms	Time to improvement of influenza symptoms
Status	 FPI Q4 2016, recruitment completed Q1 2017 Primary endpoint met Q3 2017 Filed in US Q2 2018 (priority review), approval Q4 2018 Data published in <i>NEJM</i> 2018; 379:913-923 Filed in EU Q4 2019 	 FPI Q1 2017, recruitment completed Q1 2018 Primary endpoint met Q3 2018 Data presented at IDweek 2018 Filed in US Q1 2019, approval Q4 2019 Filed in EU Q4 2019 Data published in Lancet Infectious Diseases 2020 Jun 8;S1473-3099(20)30004-9
CT Identifier	NCT02954354	NCT02949011

Xofluza (baloxavir marboxil, RG6152, S-033188)



Small molecule, novel CAP-dependent endonuclease inhibitor

Indication	Influenza		
Phase/study	Phase III FLAGSTONE (hospitalised patients)	Phase III miniSTONE 1 (0-1 year old)	Phase III miniSTONE 2 (1-12 years old)
# of patients	N=366	N=30	N=176
Design	 Xofluza + neuraminidase inhibitor vs placebo + neuraminidase inhibitor in hospitalized patients with influenza 	 Xofluza on Day 1 (based on body weight and age) in healthy pediatric patients from birth to <1 year with influenza-like symptoms 	 Xofluza vs Tamiflu in healthy pediatric patients 1 to <12 years of age with influenza- like symptoms
Primary endpoint	 Time to clinical improvement 	■ Safety	Safety
Status	 FPI Jan 2019 Recruitment completed Q1 2020 	• FPI Q1 2019	 FPI Q4 2018 Recruitment completed Q1 2019 Primary endpoint met Q2 2019 Data presented at OPTIONS X 2019 Filed in US Q1 2020 Data published in Pediatric Infectious Disease 2020 Aug;39(8):700-705
CT Identifier	NCT03684044	NCT03653364	NCT03629184

In collaboration with Shionogi & Co., Ltd.

Xofluza (baloxavir marboxil, RG6152, S-033188)



Small molecule, novel CAP-dependent endonuclease inhibitor

Indication	Influenza	
Phase/study	Phase III BLOCKSTONE	Phase IIIb CENTERSTONE
# of patients	N= 752	N= 3,160
Design	 Post exposure prophylaxis to prevent disease onset in household contacts. Used after known exposure to infected person. Patients treated with Xofluza vs placebo 	 Reduction of direct transmission of influenza from otherwise healthy patients to household contacts Patients treated with Xofluza vs placebo
Primary endpoint	 Percentage of household contacts who developed clinical influenza 	 Percentage of household contacts who are PCR-positive for influenza by day 5 post randomization of index patients
Status	 Study met primary endpoint Q2 2019 Data presented at OPTIONS X 2019 Filed in US Q1 2020 Data published in NEJM 2020 Jul 8. doi:10.1056/NEJMoa1915341 	■ FPI Q4 2019
CT Identifier	JapicCTI-184180	NCT03969212



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information

Ipatasertib (RG7440, GDC-0068)



Highly selective small molecule inhibitor of Akt

Indication	1L castration-resistant prostate cancer	Advanced prostate cancer and solid tumors
Phase/study	Phase III IPATential150	Phase Ib
# of patients	N=1,100	N=54
Design	 ARM A: Ipatasertib plus abiraterone ARM B: Placebo plus abiraterone 	 Ipatasertib plus rucaparib Stage 1: Dose escalation in advanced breast, ovarian and prostate cancer Stage 2: Dose expansion in prostate cancer
Primary endpoint	 Radiographic progression-free survival (rPFS) in patients with PTEN loss tumors and overall population 	Safety and efficacy
Status	 FPI Q2 2017 Recruitment completed Jan 2019 Study met co-primary endpoint in rPFS in patients with PTEN loss tumors 	• FPI Q2 2019
CT Identifier	NCT03072238	NCT03840200

In collaboration with Array BioPharma

Ipatasertib (RG7440, GDC-0068)



Highly selective small molecule inhibitor of Akt

Indication	1L TNBC and HR+ breast cancer	1L TNBC	TNBC
Phase/study	Phase III IPATunity130	Phase II LOTUS	Phase Ib
# of patients	N=450	N=120	N=202
Design	Cohort A: Dx+ 1L TNBC (N=249): • ARM A: Ipatasertib+paclitaxel • ARM B: Placebo+paclitaxel Cohort B: Dx+ HR+ mBC (N=201): • ARM A: Ipatasertib+paclitaxel • ARM B: Placebo+paclitaxel	 ARM A: Ipatasertib+paclitaxel ARM B: Placebo+paclitaxel 	 ARM A: Ipatasertib+Tecentriq +paclitaxel ARM B: Ipatasertib+Tecentriq+nab-paclitaxel
Primary endpoint	 Progression-free survival 	 Progression-free survival 	 Safety and efficacy
Status	 FPI Q1 2018 Recruitment cohort B completed Q1 2019 and cohort A Q1 2020 	 Recruitment completed Q1 2016 Data presented at ASCO 2017 and ASCO 2018 Data published in Lancet Oncology 2017 Aug 8. pii: S1470-2045(17)30450-3 	FPI Q1 2018Data presented at AACR 2019
CT Identifier	NCT03337724	NCT02162719	NCT03800836

Ipatasertib (RG7440, GDC-0068)



Highly selective small molecule inhibitor of Akt

Indication	1L HR+ mBC	1L TNBC
Phase/study	Phase Ib/III IPATunity150	Phase III IPATunity170
# of patients	N=370	N=1,155
Design	 ARM A: Ipatasertib plus fulvestrant and palbociclib ARM B: Placebo plus fulvestrant and palbociclib 	Ipatasertib plus Tecentriq plus paclitaxel: • ARM A: PD-L1 negative • ARM B: PD-L1 positive
Primary endpoint	■ Progression free survival in ITT and in patients with PIK3CA/AKT1/PTEN altered tumors	■ Progression free survival and overall survival
Status	■ FPI Q4 2019 in Phase Ib part	■ FPI Q4 2019
CT Identifier	NCT04060862	NCT04177108

In collaboration with Array BioPharma

Tiragolumab (anti-TIGIT, RG6058, MTIG7192A)



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	1L NSCLC PD-L1 TPS>50%	1L ES-SCLC	Metastatic and/or recurrent PD-L1+ cervical cancer
Phase/study	Phase III SKYSCRAPER-01	Phase III SKYSCRAPER-02	Phase II SKYSCRAPER-04
# of patients	N=500	N=424	N=160
Design	 Arm A: Tiragolumab +Tecentriq Arm B: Placebo +Tecentriq 	 Arm A: Tiragolumab + Tecentriq +carboplatin +etoposide Arm B: Placebo +Tecentriq +carboplatin +etoposide 	 Arm A: Tiragolumab + Tecentriq Arm B: Tecentriq
Primary endpoint	 Overall survival and progression free survival 	 Overall survival and progression free survival 	Objective Response Rate (ORR)
Status	• FPI Q1 2020	• FPI Q1 2020	• FPI Q2 2020
CT Identifier	NCT04294810	NCT04256421	NCT04300647

Tiragolumab (anti-TIGIT, RG6058, MTIG7192A)



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Solid tumors	NSCLC	R/R Multiple Myeloma (MM) or R/R B-cell NHL
Phase/study	Phase I	Phase II CITYSCAPE	Phase I
# of patients	N=400	N=135	N=52
Design	 Phase Ia: Dose escalation and expansion of tiragolumab Phase Ib: Dose escalation and expansion Tecentriq plus tiragolumab Phase Ib: Chemo combinations with tiragolumab (cis, carbo, pem, pac, etoposide) 	 Arm A: Tecentriq plus tiragolumab Arm B: Tecentriq monotherapy 	 Phase Ia: Tiragolumab monotherapy Phase Ib: Tiragolumab plus daratumumab (r/r MM) or rituximab (r/r NHL)
Primary endpoint	 Safety, tolerability, PK variability and preliminary efficacy 	 Overall response rate and progression-free survival 	 Safety, tolerability, PK/PD and preliminary efficacy
Status	FPI Q2 2016Data presented at AACR 2020	 FPI Q3 2018 Recruitment completed Q2 2019 Data presented at ASCO 2020 	■ FPI Q2 2019
CT Identifier	NCT02794571	NCT03563716	NCT04045028

Glofitamab (CD20-TCB, RG6026)



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultanously

1 3		7 000	
Indication	Relapsed or refractor	y Non-Hodgkin's lymphoma	Non-Hodgkin's lymphoma
Phase/study	Phase I	Phase Ib	Phase Ib
# of patients	N=700	N=140	Part I: 15-60 Part II: ~66-104
Design	Cohort 1: Single-agent dose escalation study Initial dose escalation Expansion cohort in r/r DLBCL Expansion cohort in r/r FL All patients will receive pretreatment with a single dose of Gazyva (1000mg) Cohort 2: glofitamab + Gazyva (i.e. continuous treatment with Gazyva)	Dose escalation and expansion • Arm A: glofitamab + Tecentriq • Arm B: glofitamab + Polivy	 Part I: Dose-finding for the combination of glofitamab plus G/R CHOP in r/r indolent NHL Part II: Dose expansion glofitamab plus G/R-CHOP or R-CHOP in 1L DLBCL
Primary endpoint	■ Safety	■ Safety	■ Safety
Status	 FPI Q1 2017 Data presented at ASH 2018, ICML 2019, ASH 2019 	FPI Q2 2018Data presented at ASH 2019	■ FPI Q1 2018
CT Identifier	NCT03075696	NCT03533283	NCT03467373

Glofitamab (CD20-TCB, RG6026)



Bispecific anti-CD20/CD3 antibody engaging T and B cells simultanously

Indication	Relapsed/refractory DLBCL and High-Grade Large B-Cell Lymphoma	Relapsed/refractory DLBCL
Phase/study	Phase Ib	Phase III
# of patients	N=20	N=270
Design	 Glofitamab plus gemcitabine and oxaliplatin, followed by up to 4 cycles of glofitamab monotherapy A single dose of obinutuzumab will be administered 7 days prior to the first dose of glofitamab 	 Arm A: glofitamab plus gemcitabine and oxaliplatin, followed by up to 4 cycles of glofitamab monotherapy Arm B: Rituxan in combination with gemcitabine and oxaliplatin A single dose of obinutuzumab will be administered 7 days prior to the first dose of glofitamab
Primary endpoint	■ Safety	Overall survival
Status	■ FPI Q2 2020	■ FPI expected H2 2020
CT Identifier	NCT04313608	NCT04408638

PI3K alpha inhibitor (RG6114, GDC-0077)



A potent, orally available, and selective PI3K α inhibitor

Indication	PIK3CA-mutant HR+ mBC	PIK3CA mutant solid tumors and metastatic ER+ HER2-neg breast cancer
Phase/study	Phase III INAVO120	Phase I
# of patients	N=400	N=156
Design	 Arm A: GDC-0077 plus palbociclib plus fulvestrant Arm B: Placebo plus palbociclib plus fulvestrant 	Monotherapy and in combination with SoC (letrozole; letrozole plus palbociclib; fulvestrant) • Stage 1: Dose escalation • Stage 2: Expansion
Primary endpoint	■ Progression-free survival	 Safety, tolerability and PK
Status	■ FPI Q1 2020	 FPI Q4 2016 Preclinical/molecule discovery data presented at AACR 2017 Data presented at SABCS 2019
CT Identifier	NCT04191499	NCT03006172

Crenezumab (RG7412)



Humanized mAb targeting all forms of $A\beta$

Indication	Alzheimer's Prevention Initiative (API) Colombia	
Phase/study	Phase II Cognition study	
# of patients	N=252	
Design	 ARM A: PSEN1 E280A mutation carriers recieve crenezumab SC ARM B: PSEN1 E280A mutation carriers receive placebo ARM C: non-mutation carriers receive placebo 	
Primary endpoint	■ Change on Alzheimer's Prevention Initiative (API) Composite Cognitive Test total score	
Status	■ FPI Q4 2013 ■ Recruitment completed Q1 2017	
CT Identifier	NCT01998841	

Gantenerumab (RG1450)



Fully human mAb binding aggregated forms of $A\beta$

Indication	Prodromal to mild Alzheimer's disease	
Phase/study	Phase III GRADUATE 1	Phase III GRADUATE 2
# of patients	N=1,016	N=1,016
Design	 104-week subcutaneous treatment period: ARM A: Gantenerumab ARM B: Placebo 	104-week subcutaneous treatment period:ARM A: GantenerumabARM B: Placebo
Primary endpoint	■ Change in CDR-SOB at 27 months	 Change in CDR-SOB at 27 months
Status	 FPI Q2 2018 Recruitment completed Q2 2020 	 FPI Q3 2018 Recruitment completed Q2 2020
CT Identifier	NCT03443973	NCT03444870

Gantenerumab (RG1450)



Fully human mAb binding aggregated forms of $A\beta$

Indication	Prodromal Alzheimer's disease	Mild Alzheimer's disease
Phase/study	Phase II/III SCarlet RoAD	Phase III Marguerite RoAD
# of patients	N=799	N=389
Design	 104-week subcutaneous treatment period: ARM A: Gantenerumab (225 mg) ARM B: Gantenerumab (105 mg) ARM C: Placebo 	104-week subcutaneous treatment period:ARM A: GantenerumabARM B: Placebo
Primary endpoint	Change in CDR-SOB at 2 yearsSub-study: change in brain amyloid by PET at 2 years	 Change in ADAS-Cog and CDR-SOB at 2 years (co-primary)
Status	 Phase I PET data: Archives of Neurology, 2012 Feb;69(2):198-207 Recruitment completed Q4 2013 Dosing stopped due to futility Q4 2014 FPI in open label extension study Q4 2015 OLE data presented at CTAD 2017, AD/PD and AAN 2018 and 2019 	 FPI Q1 2014 Recruitment stopped Q4 2015 FPI Q1 2016 for open label extension OLE data (MRI) presented at CTAD 2017, AD/PD, AAIC 2018 and AAN 2018 and 2019
CT Identifier	NCT01224106	NCT02051608

Risdiplam (RG7916)

Roche

Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy		
Phase/study	Phase II/III FIREFISH	Phase II/III SUNFISH	Phase II JEWELFISH
# of patients	N=21 (Part 1), 41 (Part 2)	N=51 (Part 1), 180 (Part 2)	N=174
Design	Open-label study in infants with type 1 spinal muscular atrophy: • Part 1 (dose-finding): At least 4 weeks • Part 2 (confirmatory): 24 months	Randomized, double-blind, placebo-controlled study in adult and pediatric patients with type 2 or type 3 spinal muscular atrophy: Part 1 (dose-finding): At least 12 weeks Part 2 (confirmatory): 24 months	 Open-label single arm study adult and pediatric patients (0.5-60 years) with previously treated SMA type 1, 2 and 3
Primary endpoint	 Safety, tolerability, PK, PD and efficacy 	 Safety, tolerability, PK, PD and efficacy 	Safety, tolerability and PK/PD
Status	 Recruitment completed for part 2 Q4 2018 12 month data from Part 1 presented at AAN, CureSMA and EAN 2019; 16 month data presented at WMS 2019 Study met primary endpoint in part 2 Jan 2020 Part 2 data presented at AAN 2020 	 Recruitment completed for part 2 Q3 2018 12 month data from Part 1 presented at AAN, CureSMA and EAN 2019; 16 month data presented at WMS 2019 Study met primary endpoint in part 2 Q4 2019 Part 2 Data presented at SMA Europe 2020 	 FPI Q1 2017 Data presented at WMS 2017, AAN 2018, WMS 2018, CureSMA 2019, WMS 2019 and CureSMA2020 Recruitment completed Q1 2020
	Orphan drug designation granted by FDA Q1 2017 and EU Q1 2019, PRIME designation in Q4 2018, filed in US Q4 2019		on in Q4 2018, filed in US Q4 2019
CT Identifier	NCT02913482	NCT02908685	NCT03032172

Risdiplam (RG7916)



Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy	
Phase/study	Phase II RAINBOWFISH	
# of patients	N=25	
Design	Open-label, single-arm, multicenter study in infants aged from birth to 6 weeks who have been genetically diagnosed with SMA but are not yet presenting with symptoms	
Primary endpoint	■ Proportion who are sitting without support after 12 months of treatment	
Status	• FPI Q3 2019	
CT Identifier	NCT03779334	

Tominersen (RG6042, HTT ASO)



Antisense oligonucleotide (ASO) targeting human HTT mRNA

Indication	Huntington's disease		
Phase/study	Phase I/IIa	Phase II OLE	
# of patients	N=46	N=46	
Design	 Multiple ascending doses of RG6042 administered intrathecally to adult patients with early manifest Huntington's Disease 	■ Patients from phase I are enrolled into OLE	
Primary endpoint	Safety, tolerability, PK and PD	Longer term safety, tolerability, PK, PD.	
Status	 FPI Q3 2015 Data presented at CHDI 2018 and AAN 2018 PRIME designation granted 2018 Published in <i>NEJM</i> 2019; 380:2307-2316 	 FPI Q1 2018 PK/PD data presented at AAN 2019 Update presented at CHDI 2020 Study completed, patients moved to GEN-EXTEND OLE 	
CT Identifier	NCT02519036	NCT03342053	

Tominersen (RG6042, HTT ASO)



Antisense oligonucleotide (ASO) targeting human HTT mRNA

Indication	Huntington's disease	
Phase/study	Phase III Generation HD1	Phase III GEN-EXTEND
# of patients	N=791	N=1050
Design	 ARM A: RG6042 120mg bimonthly ARM B: RG6042 120mg every four months ARM C: Placebo bimonthly 	Open-Label Extension study in patients participating in prior Roche and Genentech sponsored studies • Arm A: RG6042 120mg bimonthly • Arm B: RG6042 120mg every four months
Primary endpoint	cUHDRS globallyTFC USA only	 Long term safety, tolerability
Status	 FPI Jan 2019 Q1 2019 protocol modified to allow for bi-monthly vs four-monthly dosing, FPI for new protocol July 2019 Recruitment completed Q2 2020 	• FPI April 2019
CT Identifier	NCT03761849	NCT03842969

Satralizumab (RG6168, SA237)



Anti-IL-6 receptor humanized monoclonal antibody

Indication	Neuromyelitis optica spectrum disorder (NMOSD)		
Phase/study	Phase III Sakura Star	Phase III Sakura Sky	
# of patients	N=90	N=70 (adults); N=6 (adolescents)	
Design	Satralizumab as monotherapy: • Group A: Satralizumab 120mg SC monthly • Group B: Placebo SC monthly	 Add-on therapy of satralizumab: Group A: Satralizumab 120mg SC monthly Group B: Placebo SC Both arms on top of baseline therapies: azathioprine, mycophenolate mofetil or oral corticosteroids 	
Primary endpoint	Efficacy (time to first relapse) and safety, PD, PK	 Efficacy (time to first relapse) and safety, PD, PK 	
Status	 Primary endpoint met Q4 2018 Data presented at ECTRIMS 2019 Published in Lancet Neurology 2020; 19(5): 402-412 	 FPI Q3 2017 Primary endpoint met Q3 2018 Data presented at ECTRIMS 2018 and AAN 2019 Published in NEJM 2019; 381:2114-2124 	
	 BTD granted Q4 2018 Filed in EU Q3 2019; US acceptance of filing Q4 2019 		
CT Identifier	NCT02073279	NCT02028884	

^{*}Trials managed by Chugai (Roche opted-in)
ECTRIMS=European Committee for Treatment and Research in Multiple Sclerosis; AAN=American Academy of Neurology; NEJM=New England Journal of Medicine

Etrolizumab (RG7413)



Humanized mAb against beta 7 integrin

	0	O	
Indication	Ulcerative colitis patients who are TNF-naïve		
Phase/study	Phase III HIBISCUS I Induction study	Phase III HIBISCUS II Induction study	Phase III GARDENIA Sustained remission study
# of patients	N=358	N=358	N=390
Design	 ARM A: Etrolizumab 105mg SC q4w plus adalimumab placebo SC ARM B: Etrolizumab placebo SC plus adalimumab SC ARM C: Etrolizumab placebo SC plus adalimumab placebo SC 	 ARM A: Etrolizumab 105mg SC q4w plus adalimumab placebo SC ARM B: Etrolizumab placebo SC plus adalimumab SC ARM C: Etrolizumab placebo SC plus adalimumab placebo SC 	Time on treatment 54 weeks: • ARM A: Etrolizumab 105mg SC q4w plus placebo IV • ARM B: Placebo SC q4w plus infliximab IV
Primary endpoint	 Induction of remission compared with placebo as determined by the Mayo Clinic Score (MCS) at week 10 	 Induction of remission compared with placebo as determined by the Mayo Clinic Score (MCS) at week 10 	 Proportion of patients in sustained clinical remission as determined by Mayo Clinic Score (MCS) at weeks 10, 30 and 54
Status	FPI Q4 2014Recruitment completed Q4 2019	FPI Q4 2014Recruitment completed Q4 2019	FPI Q4 2014Recruitment completed Q2 2019
CT Identifier	NCT02163759	NCT02171429	NCT02136069

Etrolizumab (RG7413)



Humanized mAb against beta 7 integrin

	<u> </u>		
Indication	Ulcerative colitis patients who are TNF-naïve and refractory or intolerant to immunosuppressant and/or corticosteroid treatment	Ulcerative colitis patients who are refractory or intolerant of TNF inhibitors	Moderate to severe ulcerative colitis patients
Phase/study	Phase III LAUREL Maintenance study	Phase III HICKORY Induction and maintenance study	Phase III COTTONWOOD Open label extension study
# of patients	N=359	N=609	N=2,100
Design	Induction phase: • ARM A: Open label etrolizumab 105mg SC q4w Maintenance study: • ARM B: Etrolizumab 105mg SC q4w • ARM C: Placebo	Cohort 1 (open-label): • ARM A: Etrolizumab induction + placebo maintenance • ARM B: Etrolizumab induction + maintenance Cohort 2 (blinded): • ARM A: Etrolizumab induction + maintenance • ARM B: Placebo induction + maintenance	 Patients who were previously enrolled in etrolizumab phase II and phase III studies and meet recruitment criteria will receive etrolizumab 105 SC q4w
Primary endpoint	 Maintenance of remission (at week 62) among randomized patients in remission at Week 10 as determined by the Mayo Clinic Score (MCS) 	 Clinical Remission (Mayo Clinic Score, MCS) at Week 14 Remission maintenance (by MCS, at Week 66) among patients with remission at Week 14 	 Long-term efficacy as determined by partial Mayo Clinic Score (pMCS), incidence of adverse events
Status	■ FPI Q3 2014 ■ Recruitment completed Q1 2019	 FPI Q2 2014 First data presented at ECCO 2017 Open label induction and endoscopy data presented at UEGW 2017 Recruitment completed Q1 2019 	■ FPI Q3 2014
CT Identifier	NCT02165215	NCT02100696	NCT02118584

Etrolizumab (RG7413)



Humanized mAb against beta 7 integrin

	8	
Indication	Moderately to severely active Crohn's disease	Moderately to severely active Crohn's disease
Phase/study	Phase III BERGAMOT Induction and maintenance study	Phase III JUNIPER Open label extension study for BERGAMOT
# of patients	N=1,150	N=900
Design	 ARM A: Etrolizumab SC 210 mg (induction only) ARM B: Etrolizumab SC 105 mg and maintenance ARM C: Placebo 	■ Etrolizumab SC 105mg q4w
Primary endpoint	 Induction and maintenance of clinical remission 	■ Safety
Status	FPI Q1 2015Cohort 1 data presented at UEGW 2017	■ FPI Q2 2015
CT Identifier	NCT02394028	NCT02403323

UEGW=United European Gastroenterology Week

Crovalimab (RG6107; SKY59)



A humanized monoclonal antibody against complement C5

Indication	Paroxysmal nocturnal hemoglobinuria (PNH)
Phase/study	Phase I/II COMPOSER
# of patients	N=44
Design	 Healthy volunteers and treatment naïve and pretreated patients with PNH: Part 1: single ascending dose study in healthy subjects Part 2: intra-patient single ascending dose study in PNH patients Part 3: Multiple-dose study in PNH patients Part 4: Dose confirmation in PNH patients
Primary endpoint	■ Safety, PK, PD
Status	 Part 1: FPI Q4 2016 Part 2/3: FPI Q2 2017 Part 4: FPI Q2 2019 Nonclinical data published in Scientific Reports 2017 Apr; 7(1):1080 Data presented for Part 2 and 3 at ASH 2018 and 2019
CT Identifier	NCT03157635

RG6354 (PRM-151)



Recombinant human innate immunity protein pentraxin-2

Indication	Idiopathic pulmonary fibrosis (IPF)	Myelofibrosis
Phase/study	Phase II	Phase II
# of patients	N=117	N=98
Design	 Randomized, double-blind, placebo-controlled trial: 4-week screening period, 24-week randomized treatment period, 4-week follow-up visit (week 28) RG6354 at days 1, 3 and 5 then every 4 weeks vs placebo 	Multiple dose study of RG6354
Primary endpoint	 Least-squares mean change in forced vital capacity (FVC) percentage of predicted value from baseline to week 28 	Bone marrow response rate
Status	 Study met its primary endpoint Data published in JAMA 2018;319(22):2299-2307 	• Ongoing
CT Identifier	NCT02550873	NCT01981850

JAMA=Journal of the American Medical Association

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Neovascular age related macular degeneration (nAMD)		Center-involving diabetic macular edema (CI-DME)
Phase/study	Phase II AVENUE	Phase II STAIRWAY	Phase II BOULEVARD
# of patients	N=271	N=75	N=210
Design	 ARM A: SoC (Lucentis), q4w ARM B: 1.5 mg faricimab, q4w ARM C: 6mg faricimab, q4w ARM D: 6mg faricimab, q4w / q8w ARM E: SoC q4w x 3 doses, switch group to 6 mg faricimab q4w 	 ARM A: SoC (Lucentis), q4w ARM B: 6mg faricimab, q>8w (short interval duration) ARM C: 6mg faricimab, q>8w (long interval duration) 	 ARM A: SoC (Lucentis), 0.3 mg q4w ARM B: 1.5mg faricimab, q4w ARM C: 6mg faricimab, q4w
Primary endpoint	 Change from baseline BCVA after 32 weeks 	 Change from baseline BCVA at Week 40 	 Mean change from baseline BCVA at week 24
Status	 FPI Q3 2015 Recruitment completed Q1 2017 Data presented at Retina Society 2018 	 FPI Q1 2017 Recruitment completed Q1 2017 Data presented at Retina Society 2018 (24 week data) and AAO 2018 (full data) 	 FPI Q2 2016 Recruitment completed Q1 2017 Data presented at Angiogenesis 2018 and Retina Society 2018 Data published in Ophthalmology. 2019 Aug;126(8):1155-1170
CT Identifier	NCT02484690	NCT03038880	NCT02699450

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Center-involving diabetic macular edema (CI-DME)		
Phase/study	Phase III YOSEMITE	Phase III RHINE	
# of patients	N=900	N=900	
Design	 ARM A: Faricimab q8w ARM B: Faricimab (RG7716) q8w/PTI ARM C: Aflibercept, q8w 	 ARM A: Faricimab q8w ARM B: Faricimab (RG7716) q8w/PTI ARM C: Aflibercept, q8w 	
Primary endpoint	■ Change from baseline in BCVA at 1 year	■ Change from baseline in BCVA at 1 year	
Status	FPI Q3 2018Recruitment completed Q3 2019	FPI Oct 2018Recruitment completed Q3 2019	
CT Identifier	NCT03622580	NCT03622593	

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Neovascular age related macular degeneration (nAMD)		
Phase/study	Phase III TENAYA	Phase III LUCERNE	
# of patients	N=640	N=640	
Design	 ARM A: Faricimab 6.0mg Q16 flex after 4 initiating doses (IDs) ARM B: Aflibercept 2.0mg Q8 after 3 IDs 	 ARM A: Faricimab 6.0mg Q16 flex after 4 initiating doses (IDs) ARM B: Aflibercept 2.0mg Q8 after 3 IDs 	
Primary endpoint	 Change from baseline in BCVA Week 40, 44 & 48 	 Change from baseline in BCVA Week 40, 44 & 48 	
Status	FPI Q1 2019Recruitment completed Q4 2019	 FPI Q1 2019 Recruitment completed Q4 2019 	
CT Identifier	NCT03823287	NCT03823300	

Port Delivery System with ranibizumab



First eye implant to achieve sustained delivery of a biologic medicine

Indication	wAMD		DME
Phase/study	Phase III Archway	Phase II+III extension Portal	Phase III Pagoda
# of patients	N=418	N=500	N=545
Design	 ARM A: PDS with ranibizumab every 24 weeks ARM B: Intravitreal ranibizumab every 4 weeks 	 Patients from LADDER or Archway will receive refills of 100 mg/mL ranibizumab q24w (patients without the PDS will receive the PDS and subsequent refills) 	• ARM A: PDS with ranibizumab every 24 weeks • ARM B: Intravitreal ranibizumab every 4 weeks
Primary endpoint	 Change in BCVA from baseline at the average of week 36 and week 40 	 Safety and long term efficacy 	 Change in BCVA from baseline at the average of week 48 and week 52
Status	 FPI Q3 2018 Recruitment completed Q2 2019 Study met primary endpoint Q2 2020 	■ FPI Q3 2018	• FPI Q3 2019
CT Identifier	NCT03677934	NCT03683251	NCT04108156



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information

Roche *pRED*

Antibody fusion proteins

Molecule	simlukafusp alfa (FAP-IL2v FP, RG7461)	
Indication	Solid tumors Solid tumors	
Phase/study	Phase I	Phase Ib
# of patients	N=60	N=360
Design	 Part A: Dose escalation study (monotherapy) Part B: Dose escalation and extension in combination with trastuzumab (HER2+ breast cancer) Part C: Dose escalation and extension in combination with cetuximab (head & neck cancer) 	Open-label multicenter basket study of FAP-IL2v plus Tecentriq in CPI- naïve and/or CPI-experienced NSCLC, HNSCC, cervical cancer and esophageal cancer
Primary endpoint	 Safety, PK/PD and efficacy (Part B/C only) 	Safety, PD and efficacy
Status	 FPI Q4 2015 FPI Part B/C Q4 2017 	• FPI Q1 2018
CT Identifier	NCT02627274	NCT03386721

Roche pRED

Antibody fusion proteins

Molecule	simlukafusp alfa (FAP-IL2v FP, RG7461)	
Indication	1L Renal call carcinoma 1L/2L+ melanoma	
Phase/study	Phase Ib	Phase I
# of patients	N=110	N=150
Design	 Part I: Dose escalation ARM A: FAP-IL2v plus Tecentriq ARM B: FAP-IL2v plus Tecentriq plus Avastin Part II: Dose expansion ARM A: FAP-IL2v plus Tecentriq ARM B: FAP-IL2v plus Tecentriq plus Avastin 	 Part 1: FAP-IL2v plus pembrolizumab safety run in Part 2: FAP-IL2v plus pembrolizumab expansion cohort
Primary endpoint	■ Safety, PD and efficacy	■ Safety
Status	• FPI Q1 2017	■ FPI Q2 2019
CT Identifier	NCT03063762	NCT03875079

FP= Fusion protein

Roche

Antibody fusion proteins

Molecule	FAP-4-1BBL FP (RG7827)	CD19-4-1BBL (RG6076)
Indication	Solid tumors	Relapsed or refractory B cell non-Hodgkin's lymphoma
Phase/study	Phase I	Phase I
# of patients	N=200	N=207
Design	 Part 1: Single agent dose escalation Part 2: Combo dose escalation with Tecentriq Part 3: Combo expansion with Tecentriq 	 Part 1: Dose-escalation in combination with Gazyva Part 2: Dose-escalation in combination with CD20-TCB
Primary endpoint	■ Safety, efficacy, PK and PD	■ Safety, PK/PD and efficacy
Status	■ FPI Q2 2018	■ FPI Q3 2019
CT Identifier		NCT04077723



Antibody fusion proteins

Molecule	PD1-IL2v (RG6279)	
Indication	Solid tumors	
Phase/study	Phase I	
# of patients	N=440	
Design	 Part 1: Dose-escalation (iv and sc) of RG6279 as a single agent Part 2: Dose-escalation of RG6279 in combination with atezolizumab Part 3: Extension of RG6279 as a single agent and/or in combination with atezolizumab 	
Primary endpoint	■ Safety, PK/PD, efficacy	
Status	■ FPI Q2 2020	
CT Identifier	NCT04303858	

Roche pRED

Bispecific antibody

Molecule	cibisatamab (CEA x CD3, RG7802)		
Indication	CEA-positive solid tumors		3L+ MSS mCRC
Phase/study	Phase Ia Phase Ib		Phase Ib
# of patients	N=149	N=228	N=46
Design	 Part I: Dose escalation Part II: Dosing strategy Part III: Assessment of schedule Part IV: Dose and schedule expansion 	 Part I: RG7802 dose escalation + Tecentriq Part II: Expansion at defined dose and schedule 	 RG7802 + Tecentriq after pre-treatment with Gazyva in patients with high CEACAM5 expression
Primary endpoint	Safety, Efficacy, PK and PD	Safety, Efficacy, PK and PD	■ Safety, Efficacy, PK, PD
Status	FPI Q4 2014Data presented at ASCO 2017	FPI Q1 2016Data presented at ASCO 2017	■ FPI Q1 2019
CT Identifier	NCT02324257	NCT02650713	NCT03866239

Roche pRED

Bispecific antibodies

Molecule	PD1-TIM3 (RG7769)	PD1-LAG3 (RG6139)
Indication	Advanced and metastatic solid tumors	Advanced and metastatic solid tumors
Phase/study	Phase la/b	Phase I
# of patients	N=280	N=320
Design	 Part A1: Dose escalation (Q2W) Part A2: Dose escalation (Q3W) Part B1: Dose expansion metastatic melanoma Part B2: Dose expansion NSCLC 2L+ Part B3: Dose expansion NSCLC 1L (PD-L1 high cohort) 	Open-label, multicenter, multiple-ascending dose (MAD) study • Part A: Dose escalation (Q2W or Q3W) • Part B: Tumor specific dose expansion
Primary endpoint	■ Safety, PK/PD and efficacy	Safety, PK/PD and efficacy
Status	■ FPI Q4 2018	■ FPI Q4 2019
CT Identifier	NCT03708328	NCT04140500

NSCLC=non-small cell lung cancer

Roche *pRED*

Monoclonal antibodies

Molecule	selicrelumab (CD40 MAb, RG7876)	Anti-CD25 (RG6292)
Indication	Solid tumors Advanced and metastatic solid tumors	
Phase/study	Phase Ib	Phase I
# of patients	N=170	N=110
Design	 Part I: Selicrelumab dose escalation in combination with vanucizumab Part II: Selicrelumab dose expansion in combination with Avastin in PROC, HNSCC and CPI exp. NSCLC 	 Part A: Dose escalation Q3W Part B: Tumor specific expansion cohorts
Primary endpoint	■ Safety, PD and efficacy	■ Safety, PK/PD and efficacy
Status	 FPI Q1 2016 Part II FPI Q2 2018 Selicrelumab+vanucizumab no longer recruiting 	• FPI Q4 2019
CT Identifier	NCT02665416	NCT04158583

Roche pRED

Small molecules

Molecule	TLR7 agonist (4) (RG6115)
Indication	Hepatocellular carcinoma
Phase/study	Phase I
# of patients	N=100
Design	 Open label, multi-center, single arm, multiple-ascending dose escalation and expansion study
Primary endpoint	■ Safety
Status	■ FPI July 2020
CT Identifier	NCT04338685



Molecule	Brain Shuttle gantenerumab (RG6102)	
Indication	Alzheimer's disease	
Phase/study	Phase I	
# of patients	N~60	
Design	• Single and multiple ascending dose study with healthy volunteer and patient cohorts	
Primary endpoint	 Safety, tolerability, PK 	
Status	• FPI Q3 2019	
CT Identifier	NCT04023994	



Molecule	ralmitaront (partial TAAR1 agonist, RG7906)		
Indication	Schizophrenia		
Phase/study	Phase II Phase II		
# of patients	N=36	N=345	
Design	 Randomized, double-blind, placebo-controlled, crossover study for two weeks in patients 	 Part A: Monotherapy, one dose, qd, 12 weeks (N=125) Part B: Add-on therapy, two dose levels, qd, 12 weeks (N=220) 	
Primary endpoint	Effects on dopamine synthesis capacity	 Effects on negative symptoms (Brief Negative Symptoms Scale, BNSS) 	
Status	■ FPI Q4 2018 ■ LPI Q3 2019	■ FPI Q4 2019	
CT Identifier		NCT03669640	

Roche *pRED*

Parkinson's disease and autism

Molecule	prasinezumab (anti-αSynuclein, RG7935, PRX002)	GABA-Aa5 PAM (RG7816)	
Indication	Parkinson's disease	Autism	
Phase/study	Phase II PASADENA	Phase I	Phase I
# of patients	N=316	N=105	N=15
Design	 Randomized, double-blind, placebo-controlled study to evaluate the efficacy of prasinezumab in participants with early PD (52 weeks (Part 1) plus a 52-week blinded extension (Part 2)) 	 Randomized, double-blind, adaptive single-ascending-dose SAD/MAD/FE study in healthy volunteers 	 PET study to assess occupancy of brain alpha5-containing GABAA receptors of RG7816 using [11C] Ro15-4513 following single oral doses in healthy participants
Primary endpoint	 Change from baseline in Movement Disorder Society- Unified Parkinson's Disease Rating Scale (MDS-UPDRS) total score (sum of Parts I, II, and III) at week 52 	 Safety and tolerability 	 Percentage of brain alpha5-containing GABA-A receptors occupied by RG7816, plasma concentrations of RG7816
Status	 Study did not meet its primary objective, but showed signals of efficacy Roche is evaluating data to determine next steps The 52-week blinded extension (Part 2) is ongoing 	• FPI Q4 2017	■ FPI Q2 2018
CT Identifier	NCT03100149		NCT03507569
Collaborator	Prothena		



Molecule	NME RG7637	
Indication	Neurodevelopmental disorders	
Phase/study	Phase I	
# of patients	N=80	
Design	 Randomized, double-blind, single- and multiple-ascending dose, placebo-controlled study to investigate safety, tolerability, pharmacokinetics, pharmacodynamics and food effect 	
Primary endpoint	■ Percentage of participants with adverse events	
Status	■ FPI July 2020	
CT Identifier		

Infectious diseases development programs



Chronic hepatitis B

Molecule	TLR7 agonist (3) (RG7854)	CpAM (RG7907)
Indication	Chronic hepatitis B Chronic hepatitis B	
Phase/study	Phase I	Phase I/II
# of patients	N=150	N=190
Design	 Healthy volunteer and chronic hepatitis B patient study 	 Part 1: Healthy volunteers Part 2: Chronic hepatitis B patients, 4 week dosing Part 3: Chronic hepatitis B patients, 48 week on top of SoC
Primary endpoint	■ Safety, tolerability	Safety, tolerability
Status	FPI Q4 2016Data presented at APASL 2019	FPI Q4 2016Data presented at EASL 2018 and 2019
CT Identifier	NCT02956850	NCT02952924

Infectious diseases development programs

Roche pRED

Chronic hepatitis B

Molecule	TLR7 agonist (3) + CpAM (RG7854 + RG7907)	NME (RG6084)
Indication	Chronic hepatitis B	Chronic hepatitis B
Phase/study	Phase II Piranga	Phase I
# of patients	N=65	N=27
Design	 Efficacy and safety of TLR7 (3) in combination with CpAM in HBV patients previously treated with nucleosides 	MAD study in chronic hepatitis B patients
Primary endpoint	Safety and efficacy	■ Safety
Status	• FPI July 2020	■ FPI Q1 2019
CT Identifier	NCT04225715	



Molecule	IgG-IL2 FP (RG7835)
Indication	Ulcerative Colitis
Phase/study	Phase 1b
# of patients	N=50
Design	 Multicenter, randomized, double-blind, placebo controlled study to investigate the subcutaneously administered RG7835 in participants with active ulcerative colitis
Primary endpoint	■ Safety, tolerability, PK/PD, efficacy
Status	• FPI Q2 2019
CT Identifier	NCT03943550

Ophthalmology development programs



Molecule	NME (RG6179)	NME (RG7774)	
Indication	DME	Retinal disease	
Phase/study	Phase I	Phase II CANBERRA	
# of patients	N~50	N=180	
Design	 Part 1: Open label, multiple ascending dose study evaluating safety, tolerability and pharmacokinetics (PK) of intravitreal monotherapy Part 2: Safety, tolerability and pharmacodynamics of RG6179 in combination with anti-VEGF (ranibizumab) treatment 	 Randomized, double-blind, placebo controlled study in patients with severe and moderately severe Non Proliferative Diabetic Retinopathy 	
Primary endpoint	■ Safety, tolerability, PK	■ Safety, PK, PD, efficacy	
Status	■ FPI July 2019	■ FPI Q2 2020	
CT Identifier		NCT04265261	
Collaborator	Sesen Bio		



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information

Genentech Research & Early Development

Bispecific antibodies

Molecule	mosunetuzumab (CD20 x CD3, RG7828)			
Indication	3L+ DLBCL & 3L+ FL & ibrutinib R/R MCL 1L DLBCL R/R DLBCL & FL 1L DLBCL & 2L DLBC 1L induction			
Phase/study	Phase I	Phase Ib/II	Phase Ib	Phase I
# of patients	N=665	N=160	N=276	N=40
Design	 Dose escalation study of mosunetuzumab as single agent and in combination with Tecentriq Expansion cohorts for r/r FL, r/r DLBCL and ibrutinib r/r MCL 	 Mosunetuzumab plus CHOP Mosunetuzumab plus CHP plus polatuzumab vedotin 	 Mosunetuzumab plus polatuzumab vedotin 	 Cohort A: Mosunetuzumab monotherapy (after a response to prior systemic chemotherapy) Cohort B: Mosunetuzumab monotherapy (1L treatment in elderly/frail)
Primary endpoint	 Safety, tolerability, dose/schedule, PK, and response rates 	 Safety/tolerability and response 	 Safety/tolerability and response 	 Safety/tolerability and response
Status	 FPI Q3 2015 First data in r/r NHL presented at ASH 2018 and 2019 BTD granted by FDA Q2 2020 	■ FPI Q1 2019	■ FPI Q3 2018	 FPI Q2 2019 – Cohort B FPI Q3 2019 – Cohort A
CT Identifier	NCT02500407	NCT03677141	NCT03671018	NCT03677154

gRED Genentech Research & Early Development

Bispecific antibodies

Molecule	FcRH5 X CD3 (RG6160)	HER2 x CD3 (RG6194)	BCMA x CD16a (RG6296)
Indication	Relapsed/refractory multiple myeloma	Metastatic HER2-expressing cancers	Relapsed/refractory multiple myeloma
Phase/study	Phase I	Phase I	Phase I
# of patients	N=80	N=449	N=80
Design	 Dose escalation and expansion of single agent 	 Dose escalation and expansion of single agent 	 Dose escalation and expansion of single agent
Primary endpoint	Safety and tolerability	 Safety and tolerability 	 Safety and tolerability
Status	■ FPI Q3 2017	■ FPI Q2 2018	■ FPI Q3 2020
CT Identifier	NCT03275103	NCT03448042	NCT04434469
Collaborator			Affimed

gRED Genentech Research & Early Development

Small molecules and fusion proteins

Molecule	SERD (3) (RG6171, GDC-9545)			IL15/IL15Ra-Fc (RG6323)
Indication	Metastatic ER+ HER2-neg breast cancer	ER+ HER2-neg Stage I-III operable breast cancer	Neoadjuvant ER+ BC	Solid Tumors
Phase/study	Phase I	Phase I	Phase II	Phase I/II
# of patients	N=220	N=75	N=215	N=250
Design	 Dose escalation and expansion at recommended phase II dose (RP2D) Single agent and in combination with palbociclib and/or luteinizing hormone—releasing hormone (LHRH) agonist 	Open-label, pre-operative administrationDose escalation	 ARM A: Single agent followed by combo with palbociclib ARM B: anastrazole followed by anastrazole plus palbociclib 	 Dose escalation and expansion of single agent and in combination with Tecentriq
Primary endpoint	■ Safety	Safety, tolerability and PK/PD	Safety, tolerability and PK/PD	 Safety and tolerability
Status	FPI Q4 2017Data presented at SABCS 2019	■ FPI Q3 2019	■ FPI expected Q3 2020	■ FPI Q1 2020
CT Identifier	NCT03332797	NCT03916744	NCT04436744	NCT04250155
Collaborator				Xencor

SABCS=San Antonio Breast Cancer Symposium

gRED Genentech Research & Early Development

Individualized Neoantigen-Specific Therapy

Molecule	Individualized Neoantigen-Specific Therapy (iNeST) (RG6180)		
Indication	Locally advanced or metastatic solid tumors	1L Advanced Melanoma	
Phase/study	Phase Ia/Ib	Phase II IMcode001	
# of patients	N=770	N=132	
Design	Open-label, multicenter, global study: • Phase la: Dose escalation of RG6180 as single agent • Phase lb: Dose escalation, exploration and expansion trial of RG6180 in combination with Tecentriq	 ARM A: Pembrolizumab ARM B: iNeST in combination with pembrolizumab 	
Primary endpoint	Safety, tolerability, PK and immune response • Progression free survival and objective response rate		
Status	 FPI Q4 2017 Data presented at AACR 2020 FPI Q1 2019 		
CT Identifier	NCT03289962 NCT03815058		
Collaborator	BioNTech		



Molecule	DLK inhibitor (RG6000, GDC-0134)	Semorinemab (RG6100)	
Indication	Amyotrophic lateral sclerosis	Prodromal to mild Alzheimer's disease Moderate Alzheimer's disease	
Phase/study	Phase I	Phase II TAURIEL	Phase II LAURIET
# of patients	N=82	N=457	N=260
Design	 Randomized, double-blind, placebo- controlled, multicenter, single and multiple ascending dose study 	 Randomized, double-blind, placebo-controlled, multi-center efficacy and safety study 	 Randomized, double-blind, placebo-controlled, parallel-group, efficacy and safety study
Primary endpoint	 Safety, tolerability, and PK of single and multiple doses 	 Safety, CDR-SOB score from baseline to week 72 	 Safety, ADAS-Cog11 and ADCS-ADL from baseline to week 49
Status	■ FPI Q2 2016	• FPI Q4 2017	■ FPI Q1 2019
CT Identifier	NCT02655614	NCT03289143	NCT03828747
Collaborator		AC Immune	



Molecule	IL-22Fc (RG7880)		NME (RG6287, GDC-8264)
Indication	Inflammatory diseases Inflammatory bowel disease		Inflammatory bowel disease
Phase/study	Phase Ib	Phase II	Phase I
# of patients	N=90	N=270	N=114
Design	 Multiple ascending dose study with healthy volunteer and patient cohorts 	IL-22Fc compared with vedolizumab and with placebo in the treatment of participants with moderate to severe UC: • Part A: Induction of clinical remission • Part B: Durability of clinical remission	 Single and multiple ascending dose study with food effect in healthy volunteers
Primary endpoint	 Safety and tolerability 	 Percentage of participants with clinical remission at week 8 	 Safety, tolerability, PK and PD for target engagement
Status	• FPI Q2 2016	■ FPI Q4 2018	■ FPI Jan 2020
CT Identifier	NCT02749630	NCT03558152	



Molecule	NME (RG6151, GDC-0214)	NME (RG6244, GDC-4379)
Indication	Asthma	
Phase/study	Phase I	Phase I
# of patients	N=84	N=84
Design	 Single and multiple ascending dose study with healthy volunteer and patient cohorts 	 Single and multiple ascending dose study with healthy volunteer and patient cohorts
Primary endpoint	 Safety, tolerability and biomarker for target engagement (FeNO reduction) 	 Safety, tolerability and biomarker for target engagement (FeNO reduction)
Status	 FPI Q4 2017 Recruitment completed Q1 2018 	■ FPI Q2 2019
CT Identifier	ACTRN12617001227381p	ACTRN12619000227190p



Molecule	ST2 MAb (RG6149, AMG 282, MSTT1041A) or IL-22Fc (RG7880)	
Indication	Adult hospitalised with severe COVID-19 pneumonia	
Phase/study	Phase II COVASTIL	
# of patients	N=300	
Design	 Arm A: anti-ST2 plus standard of care Arm B: anti-ST2 matched placebo Arm C: IL-22Fc plus standard of care Arm D: IL-22Fc matched placebo 	
Primary endpoint	 Clinical Status, Assessed Using a 7-Category Ordinal Scale (Day 28) 	
Status	• FPI Q2 2020	
CT Identifier	NCT04386616	
Collaborator	Amgen (for ST2 Mab)	



Molecule	Anti-trypt (RG6173, MTP	ST2 MAb (RG6149, AMG 282, MSTT1041A)						
Indication	Asthma							
Phase/study	Phase I	Phase IIa	Phase IIb ZENYATTA					
# of patients	N=70	N=160	N=515					
Design	 Single and multiple ascending dose study of MTPS9579A in healthy adult subjects 	 MTPS9579A compared to placebo in patients with uncontrolled moderate to severe asthma 	Add-on therapy for the treatment of high-need, uncontrolled asthma in adults (50-week subcutaneous treatment period): • ARM A: RG6149 (70 mg) • ARM B: RG6149 (210mg) • ARM C: RG6149 (490mg) • ARM D: Placebo					
Primary endpoint	 Safety, tolerability and PK 	 Time to first CompEx event 	 Percentage of participants with asthma exacerbations 					
Status	■ FPI Q1 2018	■ FPI Q4 2019	FPI Q3 2016Recruitment completed Apr 2018					
CT Identifier		NCT04092582	NCT02918019					
Collaborator			Amgen					



Molecule	fenebrutinib (BTKi, RG7845, GDC-0853)							
Indication	Rheumatoid arthritis							
Phase/study	Phase II ANDES	Phase II Open label extension						
# of patients	N=578	N=578						
Design	Randomized, double-blind, parallel group study in rheumatoid arthritis patients: • Cohort 1: Fenebrutinib vs adalimumab in patients with inadequate response to previous MTX • Cohort 2: Fenebrutinib vs placebo in patients with inadequate response to previous TNF	Patients enter the study after completing 12 weeks of treatment in the ANDES Randomized study: • 200mg BID of fenebrutinib for 52 weeks						
Primary endpoint	■ ACR 50 at week12 and safety	 ACR 50 at week12 and safety 						
Status	 FPI Q3 2016 Recruitment completed Q1 2018; Data presented at EULAR and ACR in 2019 	 FPI Q4 2016 Recruitment completed Q2 2018 						
CT Identifier	NCT02833350	NCT02983227						

Infectious diseases development programs



Molecule	Anti-S. aureus TAC (RG7861)						
Indication	Serious infections caused by Staphylococcus aureus						
Phase/study	Phase Ib						
# of patients	N=25						
Design	■ Establish safety and PK in patients (S. aureus bacteremia)						
Primary endpoint	■ Safety and PK						
Status	■ FPI Q3 2017 ■ Recruitment completed Q3 2019						
CT Identifier	NCT03162250						
Collaborator	Seattle Genetics, Symphogen						

Ophthalmology development programs



Molecule	NME (RG6147)
Indication	Geographic atrophy
Phase/study	Phase II GALLEGO
# of patients	N=285
Design	 Multicenter, Randomized, Single-Masked, Sham-Controlled Study to assess RG6147 in patients With GA secondary to AMD RG6147 Q4W RG6147 Q8W Sham IVT injections Q4W or Q8W
Primary endpoint	■ Safety, Tolerability, and Efficacy
Status	• FPI Q2 2019
CT Identifier	NCT03972709

Metabolic diseases development programs



Molecule	FGFR1 X KLB (RG7992)							
Indication	Metab	NASH						
Phase/study	Phase la	Phase Ib	Phase II					
# of patients	N=79	N=140	N=260					
Design	Healthy volunteer study Randomized, blinded, placebo-controlled, single ascending dose of RG7992	Obese type 2 diabetes Randomized, blinded, placebo-controlled, multiple ascending dose of RG7992	Non-Alcoholic Steatohepatitis (NASH) Randomized, blinded, placebo-controlled study of RG7992					
Primary endpoint	 Safety and tolerability 	 Safety, tolerability and PK 	 Efficacy (NASH resolution on overall histopathological reading without worsening of fibrosis at week 52), safety and PK 					
Status	FPI Q4 2015Recruitment completed Q1 2017	FPI Q1 2017Recruitment completed Q2 2019	■ FPI expected in H2 2020					
CT Identifier	NCT02593331	NCT03060538	NCT04171765					



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information

Hemophilia A

Spark Roce

Unique gene therapy platform

Molecule	SPI (RC	SPK-8016 (RG6358)			
Indication	Hem	Hemophilia A with inhibitors to Factor VIII			
Phase/study	Phase I	Phase I/II	Phase I/II		
# of patients	N=100	N=30	N=30		
Design	 Long term follow up study of patients who have received SPK-8011 in any prior Spark-sponsored SPK-8011 study 	 Gene transfer, dose-finding safety, tolerability, and efficacy study of SPK-8011 	 Gene transfer, dose-finding safety, tolerability, and efficacy study of SPK-8016 in individuals with FVIII inhibitors 		
Primary endpoint	■ Safety	 Safety and changes from baseline in FVIII activity levels at week 52 Updated data presented at ISTH 2020 	 Safety; peak and steady state FVIII activity levels a week 52 		
Status	Ongoing	Ongoing	Ongoing		
CT Identifier	NCT03432520	NCT03003533	NCT03734588		

Choroideremia



Unique gene therapy platform

Molecule	SPK-7001 (RG6367)
Indication	Choroideremia
Phase/study	Phase I/II
# of patients	N=15
Design	 Safety study in subjects with CHM (choroideremia) gene mutations
Primary endpoint	Safety and tolerability
Status	■ FPI Q1 2015 ■ Recruitment completed Q2 2017
CT Identifier	NCT02341807



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information





CHFm	HY 2019	HY 2020	% change CER
Pharmaceuticals Division	24,194	23,202	+1
United States	13,370	12,464	-4
Europe	4,221	4,190	+5
Japan	1,988	1,908	-2
International	4,615	4,640	+11
Diagnostics Division	6,275	6,079	+3
United States	1,443	1,583	+14
Europe	2,000	1,936	+3
Japan	226	226	+1
International	2,606	2,334	-2
Group	30,469	29,281	+1
United States	14,813	14,047	-2
Europe	6,221	6,126	+5
Japan	2,214	2,134	-2
International	7,221	6,974	+6

^{*} Geographical sales split shown here does not represent operational organization; CER=Constant Exchange Rates

Pharma Division sales HY 2020 *Top 20 products*



	Global US		Europe		Japan		International			
	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER
Avastin	2,835	-18	1,057	-33	796	-8	363	-13	619	-1
MabThera	2,440	-23	1,693	-23	202	-34	33	-42	512	-17
Herceptin	2,200	-28	848	-42	361	-33	77	-37	914	-5
Ocrevus	2,076	25	1,671	19	297	49	_	-	108	75
Perjeta	1,941	17	770	1	567	11	149	27	455	65
Actemra / RoActemra	1,461	36	692	56	382	14	181	-2	206	77
Tecentriq	1,297	74	744	52	282	123	148	102	123	111
Hemlibra	1,003	94	664	80	146	143	151	87	42	418
Xolair	958	2	958	2	-	-	_	-	-	-
Kadcyla	837	39	404	51	257	34	41	3	135	35
Lucentis	728	-19	728	-19	-	-	_	-	_	-
TNKase / Activase	691	4	664	4	_	-	_	-	27	14
Esbriet	566	11	402	11	134	12	_	-	30	12
Alecensa	540	34	168	17	125	39	115	11	132	102
Pulmozyme	352	0	244	0	68	6	_	-	40	-6
CellCept	314	3	32	-23	80	-2	40	-3	162	14
Gazyva	310	35	144	35	101	34	36	77	29	11
Mircera	251	-7	-	-	31	-4	75	-23	145	3
Madopar	194	13	-	-	53	1	_	-	141	19
Tamiflu	186	-12	-1	-	45	18	29	-59	113	47

CER=Constant Exchange Rates (avg full year 2019)

Pharma Division sales HY 2020



New products

	Global		US		Euro	ope	Jap	an	International		
	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHF m	% CER	
Erivedge	147	23	100	23	31	15	-	-	16	46	
Perjeta	1,941	17	770	1	567	11	149	27	455	65	
Kadcyla	837	39	404	51	257	34	41	3	135	35	
Gazyva	310	35	144	35	101	34	36	77	29	11	
Esbriet	566	11	402	11	134	12	-	-	30	12	
Cotellic	26	-5	6	-4	12	-27	-	-	8	51	
Alecensa	540	34	168	17	125	39	115	11	132	102	
Tecentriq	1,297	74	744	52	282	123	148	102	123	111	
Ocrevus	2,076	25	1,671	19	297	49	_	-	108	75	
Hemlibra	1,003	94	664	80	146	143	151	87	42	418	
Xofluza	28	357	26	345	_	-	_	-	2	*	
Polivy	83	*	56	*	26	*	_	-	1	-	
Rozlytrek	8	-	7	-	-	_	1	-	-	-	
Total	8,862	37	5,162	29	1,978	40	641	47	1,081	69	

Pharma Division sales HY 2020



Top 20 products

	Glo	bal	US		Europe		Jap	an	International		
	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER	
Avastin	2,835	-18	1,057	-33	796	-8	363	-13	619	-1	
MabThera	2,440	-23	1,693	-23	202	-34	33	-42	512	-17	
Herceptin	2,200	-28	848	-42	361	-33	77	-37	914	-5	
Ocrevus	2,076	25	1,671	19	297	49	-	-	108	75	
Perjeta	1,941	17	770	1	567	11	149	27	455	65	
Actemra / RoActemra	1,461	36	692	56	382	14	181	-2	206	77	
Tecentriq	1,297	74	744	52	282	123	148	102	123	111	
Hemlibra	1,003	94	664	80	146	143	151	87	42	418	
Xolair	958	2	958	2	-	-	-	-	-	-	
Kadcyla	837	39	404	51	257	34	41	3	135	35	
Lucentis	728	-19	728	-19	-	-	-	-	-	-	
TNKase / Activase	691	4	664	4	-	-	-	-	27	14	
Esbriet	566	11	402	11	134	12	-	-	30	12	
Alecensa	540	34	168	17	125	39	115	11	132	102	
Pulmozyme	352	0	244	0	68	6	-	-	40	-6	
CellCept	314	3	32	-23	80	-2	40	-3	162	14	
Gazyva	310	35	144	35	101	34	36	77	29	11	
Mircera	251	-7	-	-	31	-4	75	-23	145	3	
Madopar	194	13	-	-	53	1	-	-	141	19	
Tamiflu	186	-12	-1	-	45	18	29	-59	113	47	
Pharma Division	23,202	1	12,464	-4	4,190	5	1,908	-2	4,640	11	



Pharma Division CER sales growth¹ in % *Global top 20 products*

	Q1/19	Q2/19	Q3/19	Q4/19	Q1/20	Q2/20
Avastin	9	6	8	-6	-13	-24
MabThera	-3	-5	-1	-6	-15	-32
Herceptin	-6	-12	-7	-24	-24	-33
Ocrevus	67	59	48	55	38	12
Perjeta	41	29	33	16	22	12
Actemra / RoActemra	6	10	9	5	30	40
Tecentriq	135	146	154	136	99	54
Hemlibra	*	*	*	313	146	59
Xolair	1	2	3	0	3	1
Kadcyla	24	42	54	57	55	26
Lucentis	11	9	7	7	-13	-25
TNKase / Activase	7	-3	5	0	11	-3
Esbriet	10	13	6	9	22	2
Alecensa	61	41	50	11	43	27
Pulmozyme	6	0	7	-5	10	-10
CellCept	4	-4	3	-3	7	-2
Gazyva	35	38	45	51	49	23
Mircera	16	10	11	5	-8	-7
Madopar	16	-1	22	9	5	23
Tamiflu	-40	110	369	104	-13	-10

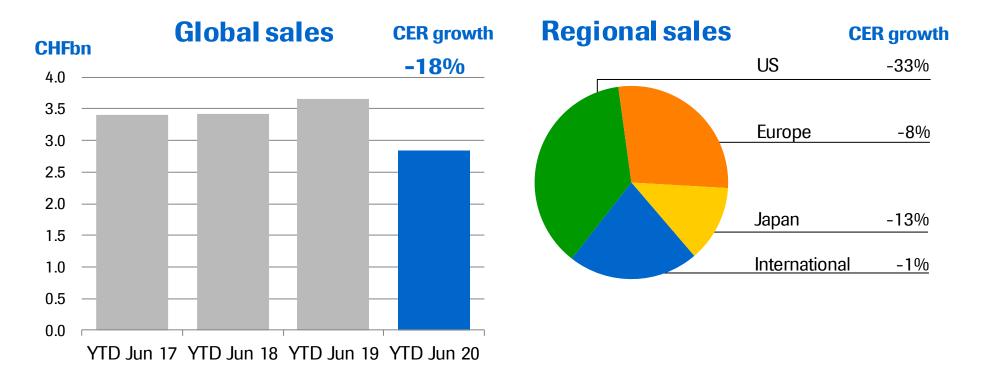


CER sales growth (%)Quarterly development

	2	2019 v	2	2020 vs. 2019				
	Q1	Q2	Q3	Q4		Q1	Q2	
Pharmaceuticals Division	10	11	15	8		7	-6	
United States	14	13	14	11		3	-10	
Europe	-6	-2	5	6		14	-3	
Japan	7	12	14	3		3	-7	
International	17	16	27	2		16	5	
Diagnostics Division	1	4	6	1		5	2	
Roche Group	8	9	13	6		7	-4	

Avastin



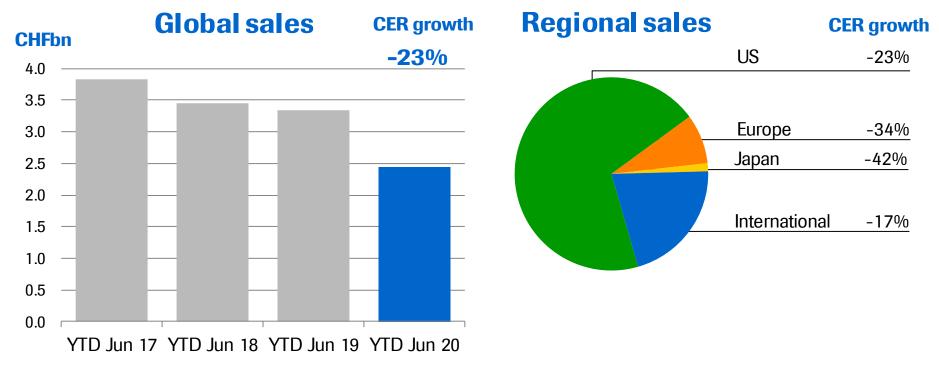


HY 2020 sales of CHF 2,835m

- US: Decline due to biosimilars and new competition in OC
- EU: Decline due to rebates upfront of biosimilars; new competition in OC
- Japan: Decline due to biosimilars and new competition in OC

MabThera/Rituxan



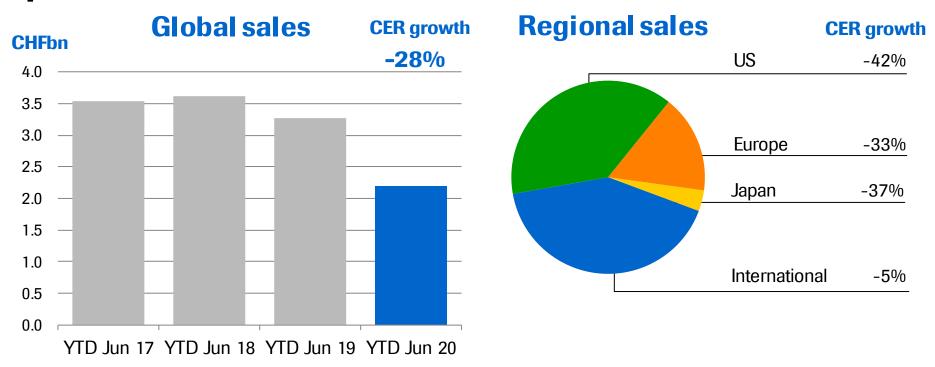


HY 2020 sales of CHF 2,440m

- US: Decline due to biosimlars and COVID-19 market contraction in Q2
- EU: Biosimilar erosion rate softening; COVID-19 market contraction in Q2
- Japan: Decline due to biosimilars and COVID-19 market contraction in Q2
- International: Biosimilar erosion, price decline in China, recovery from COVID-19 impact in China in Q2

Herceptin



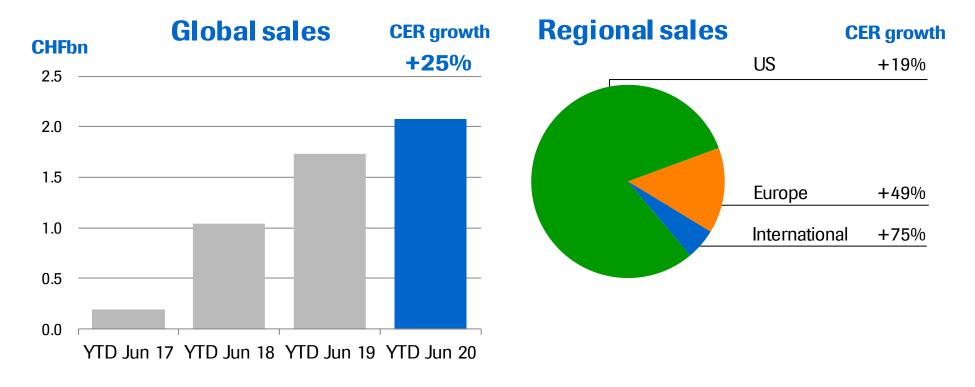


HY 2020 sales of CHF 2,200m

- US: Biosimilar erosion and switching of eligible adjuvant patients to Kadcyla; minor COVID-19 impact
- EU: Decline due to biosimilars and switching
- Japan: Decline due to biosimilars
- International: Price decline in China

Ocrevus





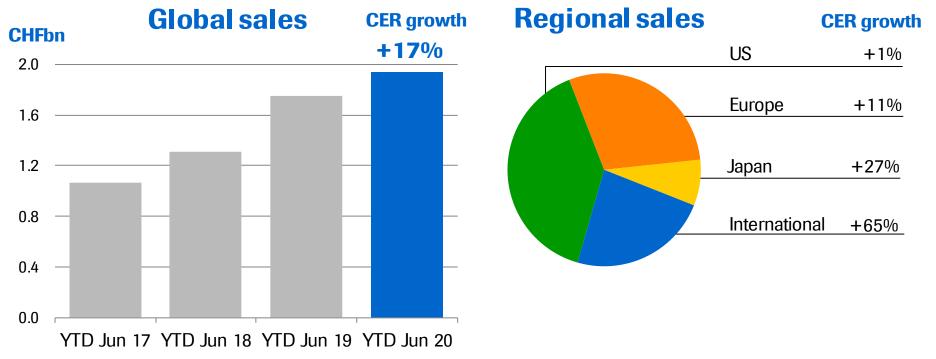
HY 2020 sales of CHF 2,076m

- US: Moving into earlier lines displacing orals; gaining market shares in all MS indications; COVID-19 impact seen in April/May, recovery started in June
- EU: Uptake dynamics in EU5 countries overall similar to the US; COVID-19 impact in Q2

CER=Constant Exchange Rates 188

Perjeta



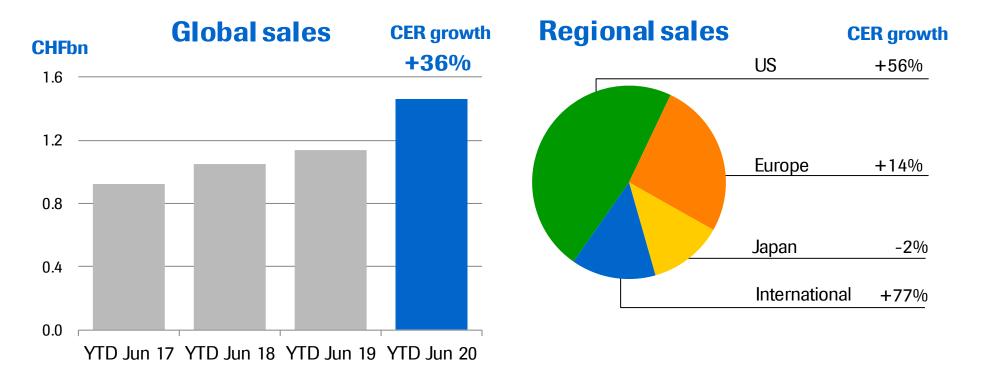


HY 2020 sales of CHF 1,941m

- US: Increased DoT in eBC compensates for patients with residual disease being switched to Kadcyla
- EU: Growth driven by eBC adjuvant setting; COVID-19 impact in Q2
- International: Accelerated growth in all regions, especially in China after NRDL was achieved
- Japan: Growth driven by eBC and mBC

Actemra/RoActemra



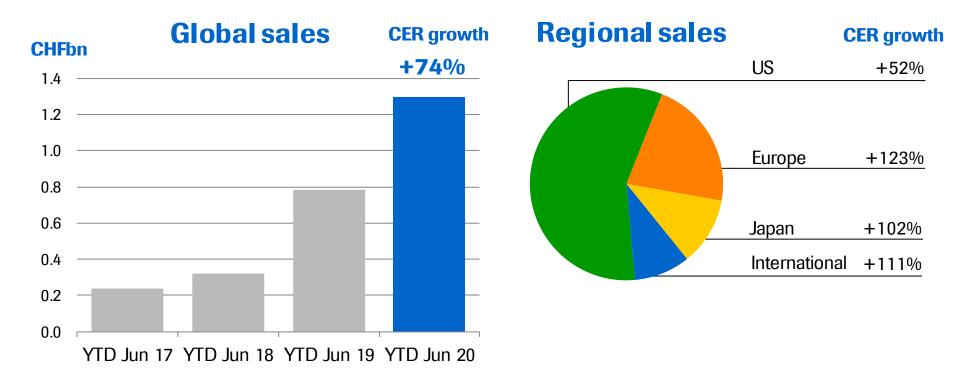


HY 2020 sales of CHF 1,461m

- US: Increased demand for SC formulation (home administration) and due to COVID-19
- EU: Market leadership in 1L RA monotherapy maintained; Growth driven by new RA, GCA and due to COVID-19
- International: Strong growth driven by all regions and due to COVID-19

Tecentriq



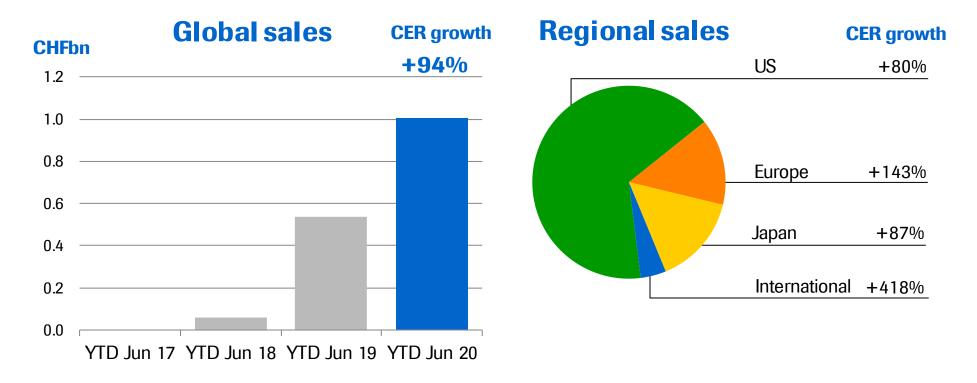


HY 2020 sales of CHF 1,297m

- US: Growth driven by first-in-class launches in 1L SCLC, 1L TNBC and 1L HCC
- EU: Growth driven by first-in-class launches in 1L SCLC and 1L TNBC and by share gains in 2L NSCLC
- Japan: Growth driven by first-in-class launches in 1L SCLC and 1L TNBC

Hemlibra



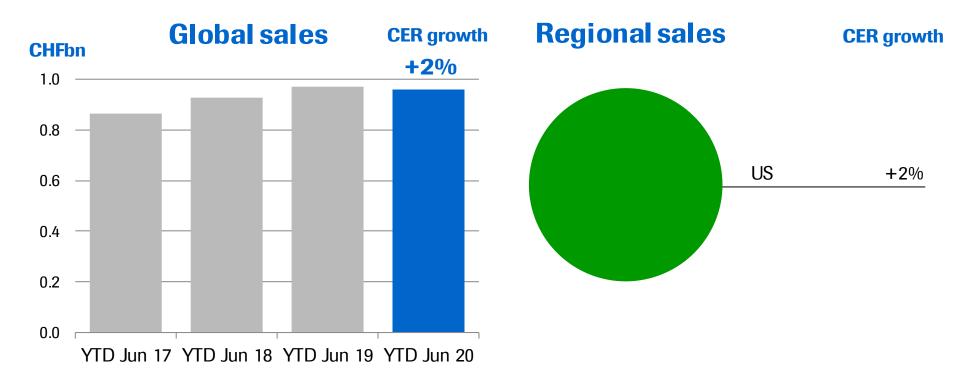


HY 2020 sales of CHF 1,003m

- US: Continued share gains in non-inhibitors; COVID-19 impact in Q2 with early signs of recovery
- EU: Growth driven by strong non-inhibitor launches in EU5
- Japan: Very strong uptake in non-inhibitors

Xolair



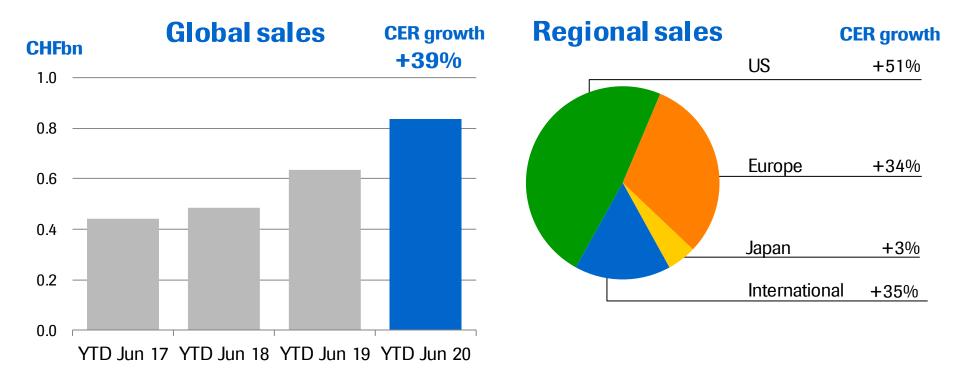


HY 2020 sales of CHF 958m

- Xolair remains market leader in a growing biologics asthma market; patients are eager to stay on their treatments in face of COVID-19
- Growth due to chronic idiopathic urticaria (CIU)

Kadcyla



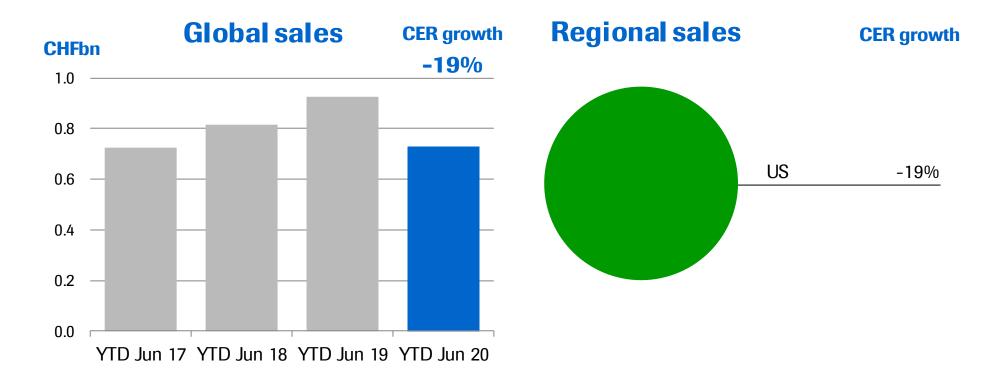


HY 2020 sales of CHF 837m

- US: Strong uptake in adjuvant eBC in patients with residual disease after neoadjuvant treatment; COVID-19 impact in Q2
- EU: Strong uptake in adjuvant eBC in early launch countries; COVID-19 impact in Q2
- International: Growth driven by all regions (especially China) in 2L mBC and due to first launches in adjuvant eBC

Lucentis



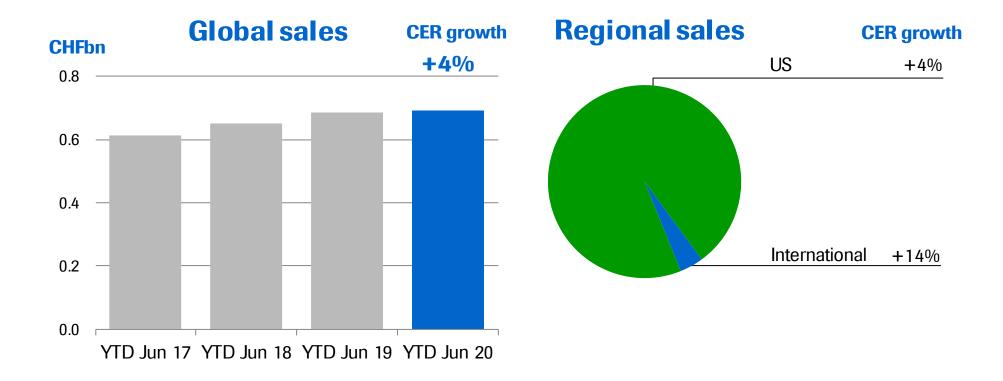


HY 2020 sales of CHF 728m

- Decline due to pronounced COVID-19 impact; partial recovery from lows in April
- Overall market shares stable

TNKase/Activase



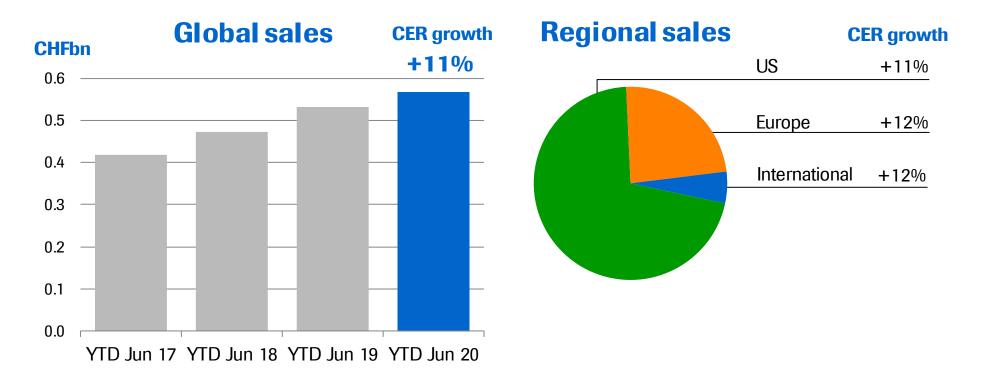


HY 2020 sales of CHF 691m

US: Growth driven by demand

Esbriet



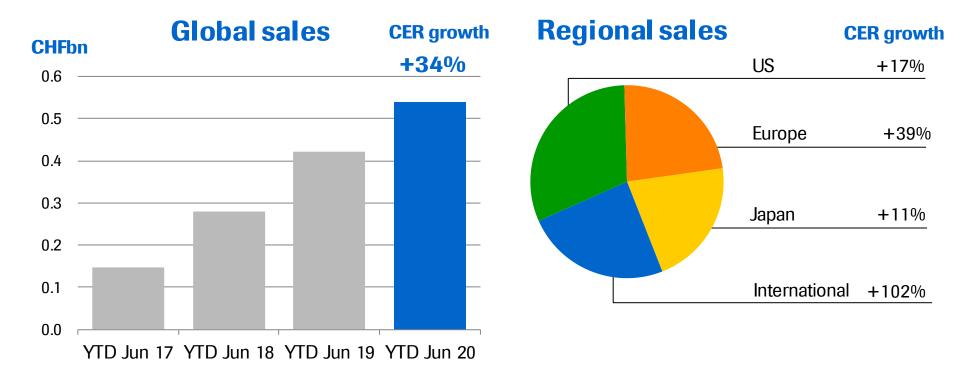


HY 2020 sales of CHF 566m

- US: Growth driven by continued penetration in moderate and mild patients; improved patient compliance; patients are eager to stay on their treatments in face of COVID-19
- EU: Growth driven by continued penetration in moderate and mild patients

Alecensa



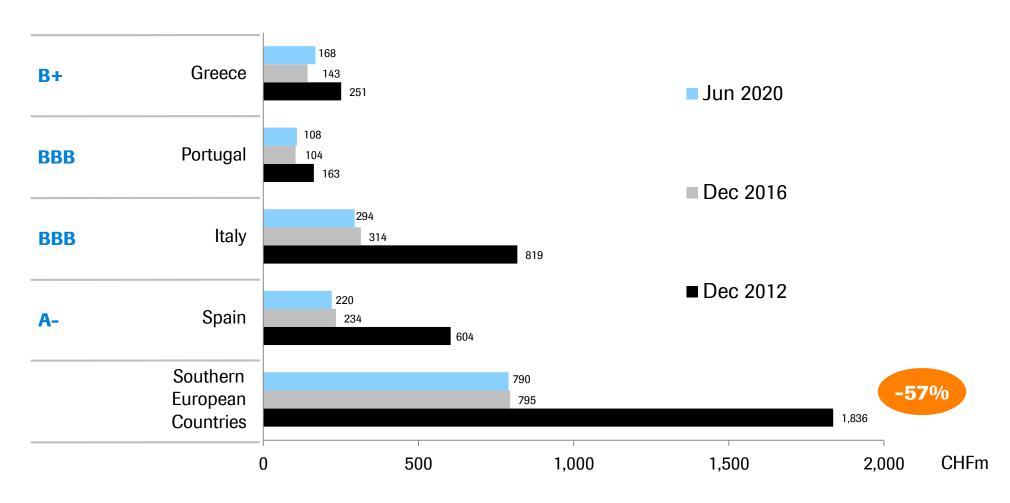


HY 2020 sales of CHF 540m

- US: Growth driven by 1L new patient share reaching >70%
- EU: Growth driven by 1L launches
- Japan: Growth due to 1L new patient share reaching >70%
- International: Growth driven by launch in China following NRDL listing

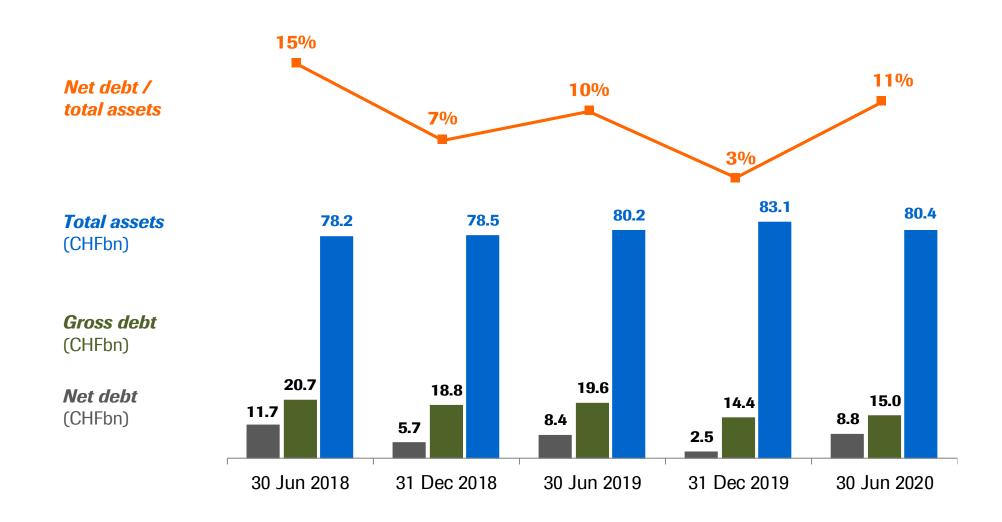


HY 2020: Accounts receivable in Southern Europe decreased by -57% since Dec 2012





Balance sheet: Net debt, gross debt, and total assets





Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

Diagnostics

Foreign exchange rate information





	Globa	al	EMEA	\ ¹	North Am	erica	RoW		
	Q	% CER	Q	% CER	(% CER	% CER		
	CHFm (growth	CHFm (CHFm growth		growth	CHFm	growth	
Centralised and Point of Care Solutions	3,181	-10	1,185	-6	704	-5	1,292	-15	
Molecular Diagnostics	1,558	61	605	65	617	62	336	52	
Diabetes Care	832	-6	488	-10	141	8	203	-2	
Tissue Diagnostics	508	2	130	0	278	-1	100	12	
Diagnostics Division	6,079	3	2,408	5	1,740	13	1,931	-5	

CER=Constant Exchange Rates; ¹ Europe, Middle East and Africa

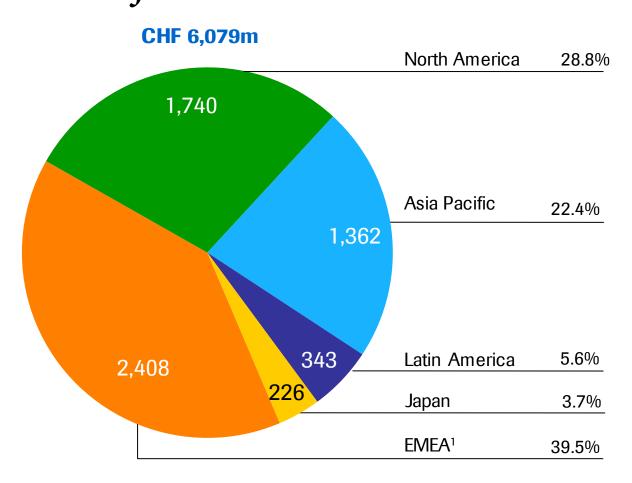


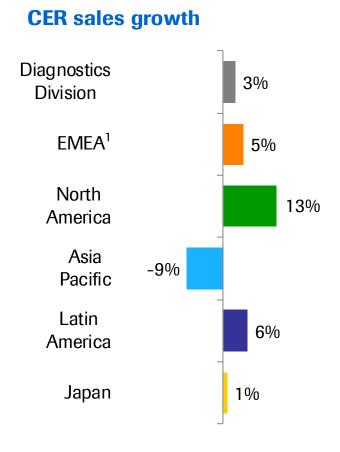


	Q1 19	9 CER	Q2 19 CHFm % CE		Q3 19 CHFm % CER		Q4 19 CHFm % CER		Q1 20 CHFm % CER		Q2 20 CHFm % CE	
Centralised and Point of Care Solutions	1,681	-1	2,081	5	2,004	9	2,053	-2	1,572	-1	1,609	-17
Molecular Diagnostics	502	7	527	6	518	8	562	4	614	29	944	91
Diabetes Care	465	1	493	0	437	-8	523	9	425	-2	407	-9
Tissue Diagnostics	251	-1	275	-4	273	6	305	-1	270	12	238	-8
Diagnostics Division	2,899	1	3,376	4	3,232	6	3,443	1	2,881	5	3,198	2



HY 2020: Diagnostics Division sales Growth driven by North America and EMEA, partly offset by Asia Pacific

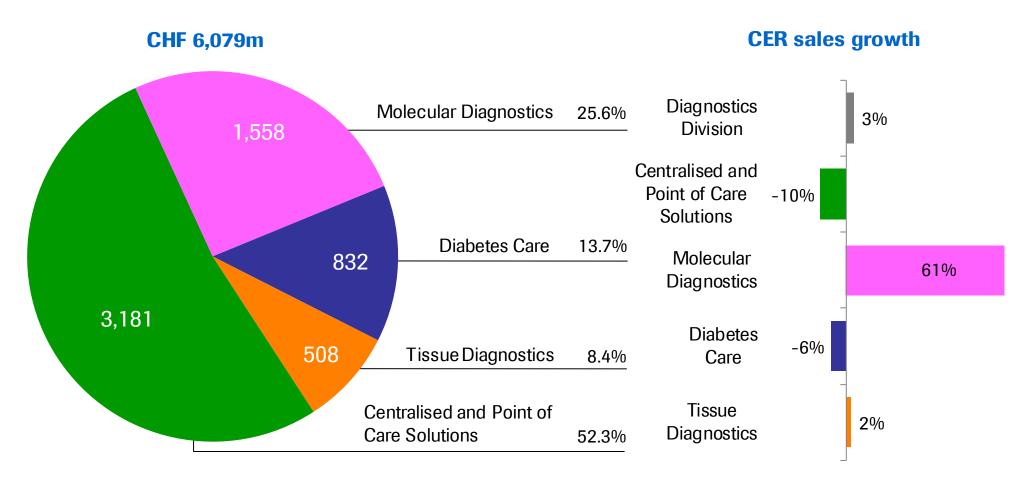






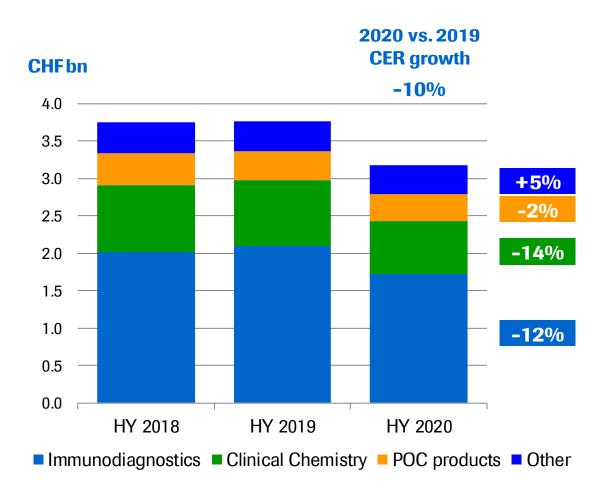
HY 2020: Diagnostics Division sales

Growth driven by Molecular Diagnostics, partially offset by Centralised and Point of Care Solutions



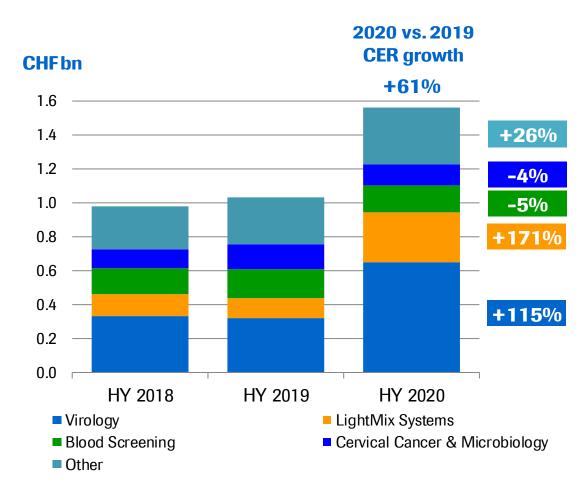
Centralised and Point of Care Solutions





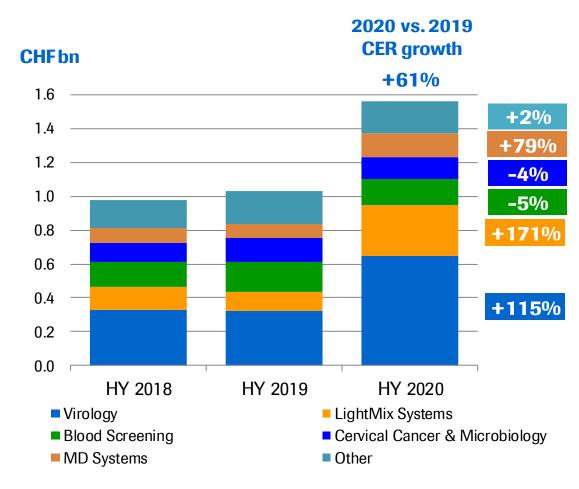
Molecular Diagnostics





Molecular Diagnostics

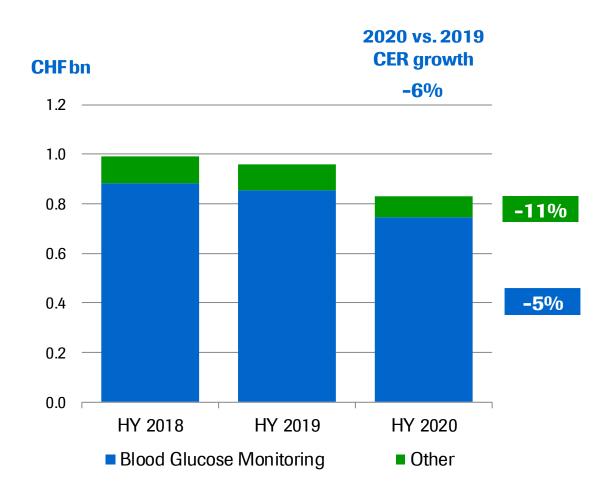




CER=Constant Exchange Rates 208

Diabetes Care

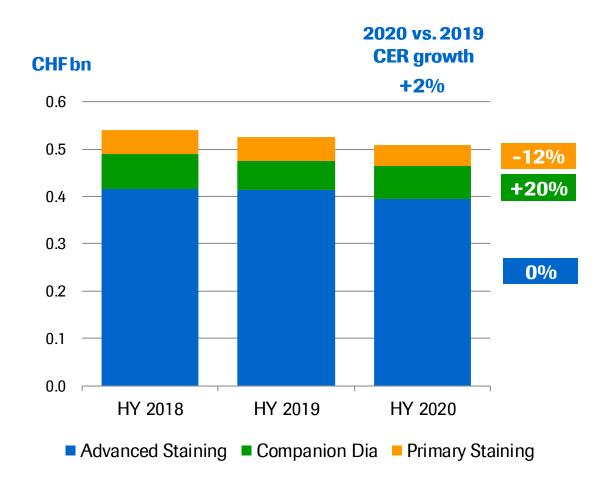




CER=Constant Exchange Rates 209

Tissue Diagnostics







Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group HY 2020 results

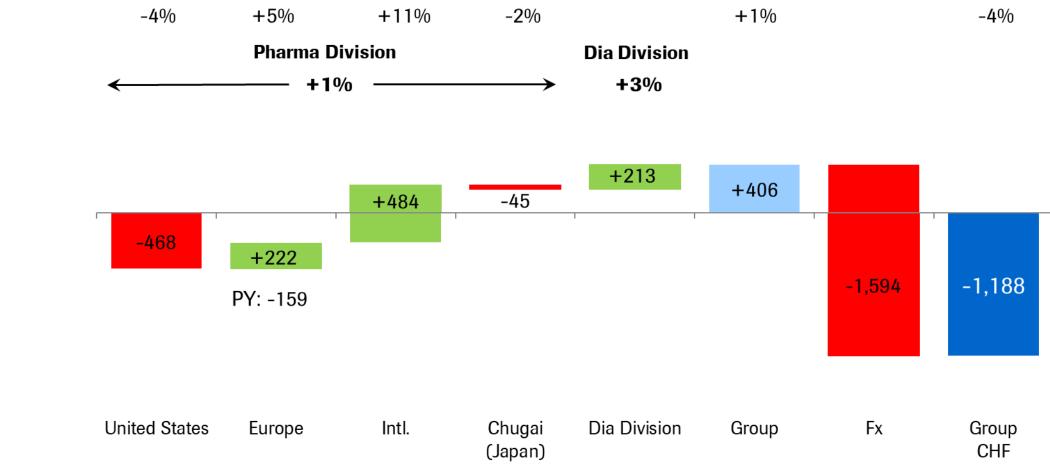
Diagnostics

Foreign exchange rate information



Group sales HY 2020

CER sales increase of +1% driven by International, Diagnostics and Europe, partially offset by US; Fx impact of -5%p



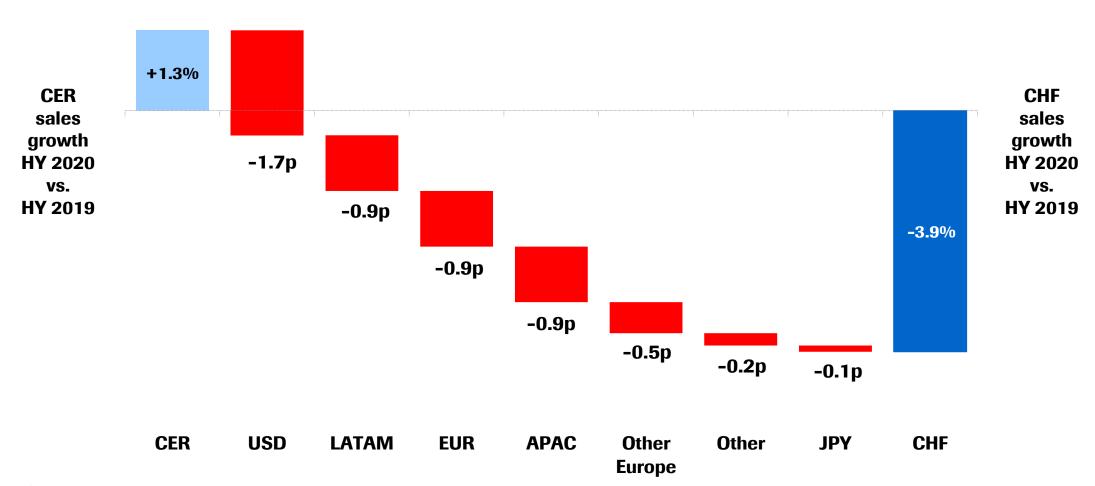
¹ avg full year 2019 to avg YTD June 2020 fx

212

Exchange rate impact on sales growth

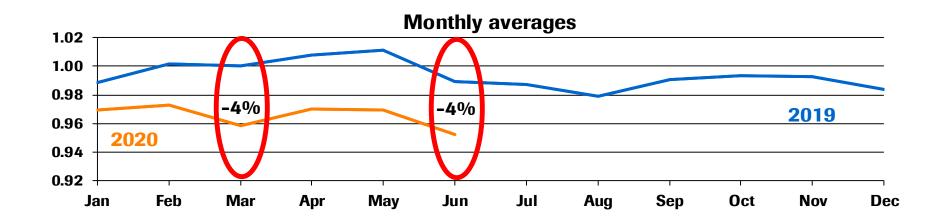


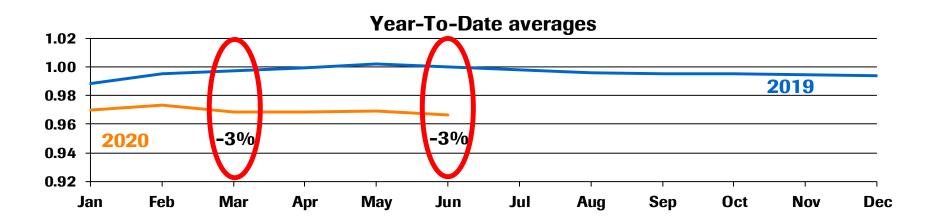
Negative impact due to all currencies



CHF / USD

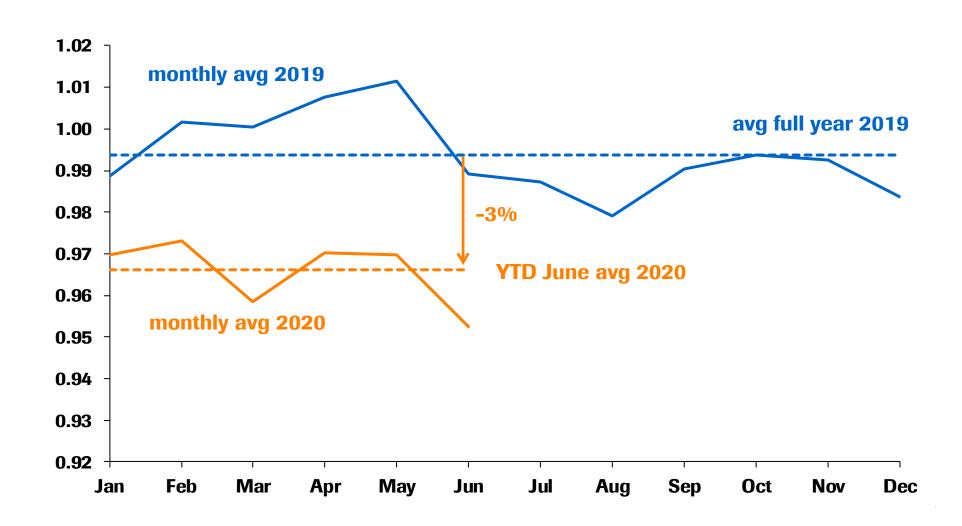






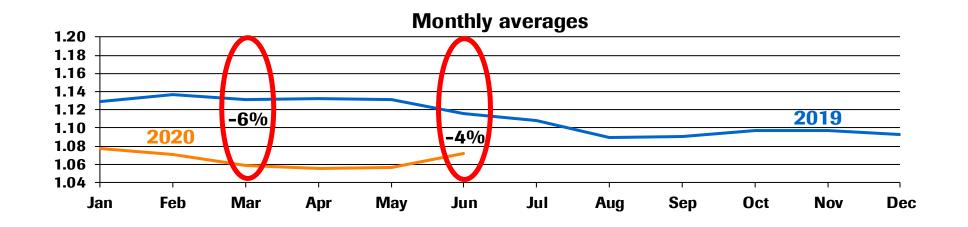
CHF / USD

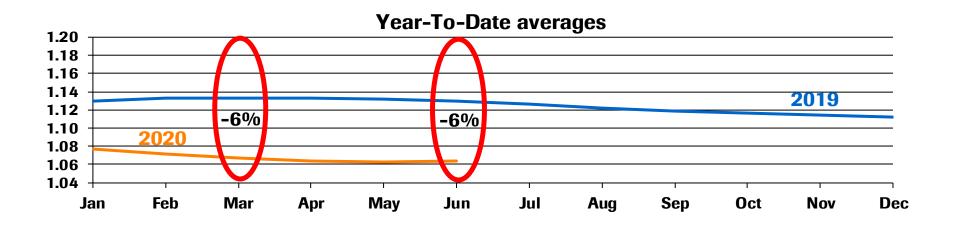




CHF / EUR

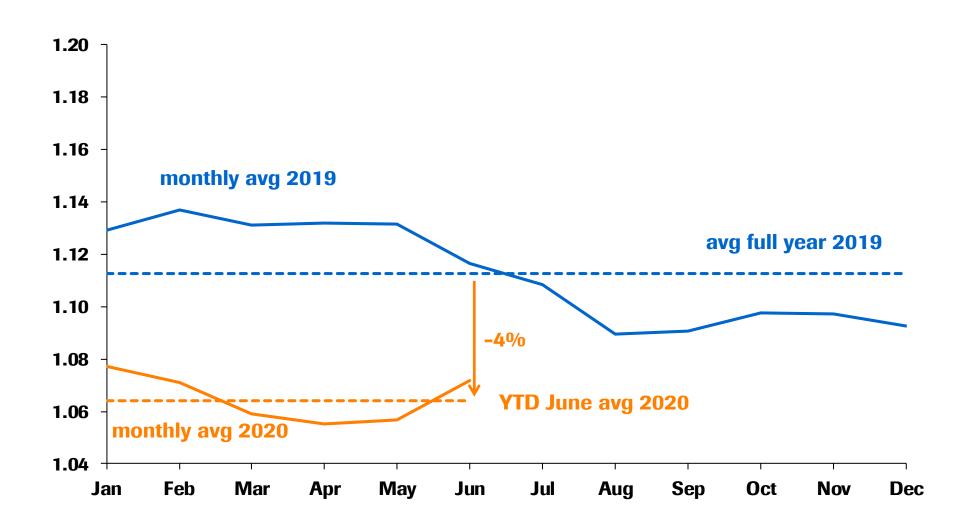






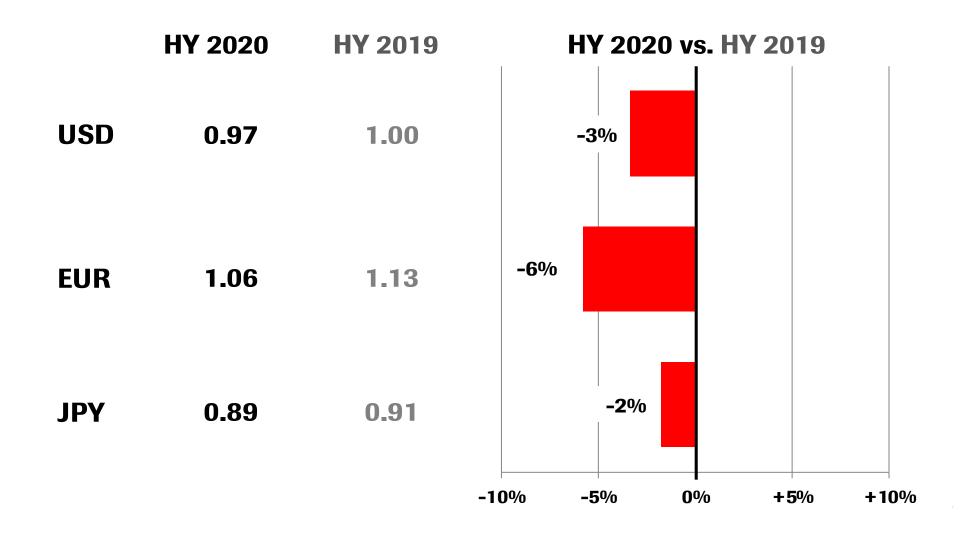
CHF / EUR





Average CHF exchange rates





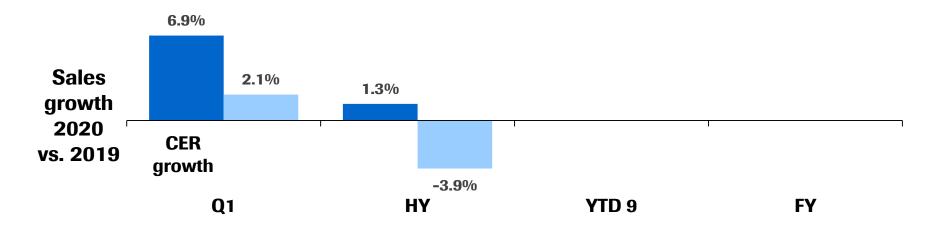


Exchange rate impact on sales growth In HY 2020 negative impact of all currencies

Development of average exchange rates versus prior year period

CHF / USD -2.9% -3.4% CHF / EUR -5.8% -5.8% -1.8%

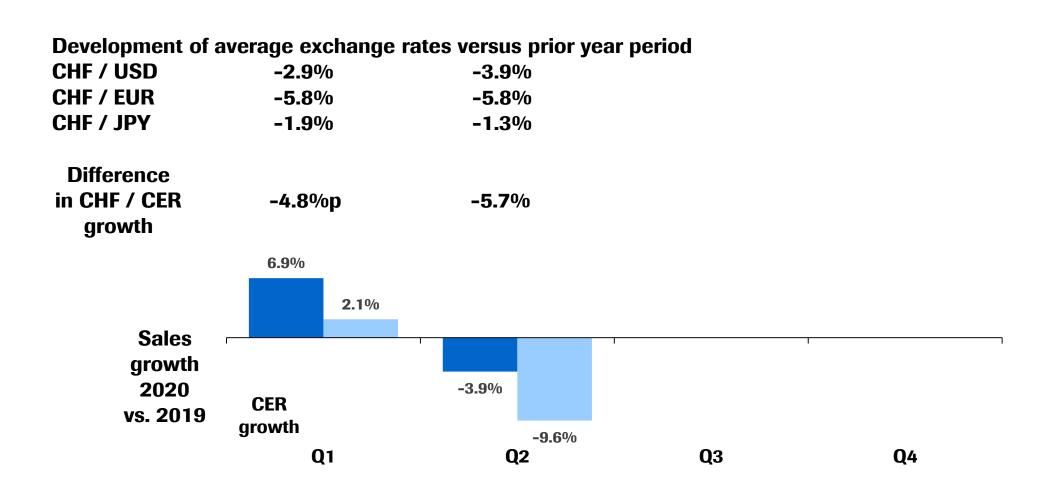
Difference in CHF / CER -4.8%p -5.3%p growth



CER=Constant Exchange Rates (avg full year 2019)



Exchange rate impact on sales growth In Q2 2020 negative impact of EUR, USD and JPY





Doing now what patients need next