

GSK Investor Presentation

November 2020

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Cautionary statement regarding forward-looking statements



This presentation may contain forward-looking statements. Forward-looking statements give the Group's current expectations or forecasts of future events. An investor can identify these statements by the fact that they do not relate strictly to historical or current facts. They use words such as 'anticipate', 'estimate', 'expect', 'intend', 'will', 'project', 'plan', 'believe', 'target' and other words and terms of similar meaning in connection with any discussion of future operating or financial performance. In particular, these include statements relating to future actions, prospective products or product approvals, future performance or results of current and anticipated products, sales efforts, expenses, the outcome of contingencies such as legal proceedings, dividend payments and financial results.

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A number of adjusted measures are used to report the performance of our business, which are non-IFRS measures. These measures are defined and reconciliations to the nearest IFRS measure are available in our third quarter 2020 earnings release and Annual Report on Form 20-F for FY 2019.

All expectations and targets regarding future performance and the dividend should be read together with "Assumptions related to 2020 guidance and 2016-2020 outlook" on page 63 of our third quarter 2020 earnings release.

About us



We are a science-led global healthcare company with a special purpose:
to help people do more, feel better, live longer.

We have **3 global businesses** that research, develop and manufacture innovative pharmaceutical medicines, vaccines and consumer healthcare products.

Our goal is to be one of the world's most innovative, best performing and trusted healthcare companies.

Our values and expectations are at the heart of everything we do and help define our culture - so that together we can deliver extraordinary things for our patients and consumers and make GSK a brilliant place to work.

Our values are **Patient focus, Transparency, Respect, Integrity.**

Our expectations are **Courage, Accountability, Development, Teamwork.**

3 long-term priorities



Innovation

We invest in scientific and technical excellence to develop and launch a pipeline of new products that meet the needs of patients, payers and consumers.

Performance

We aim to achieve industry-leading growth by investing effectively in our business, developing our people and delivering flawlessly.

Trust

We commit to use our science and technology to address health needs, make our products affordable and available and to be a modern employer.

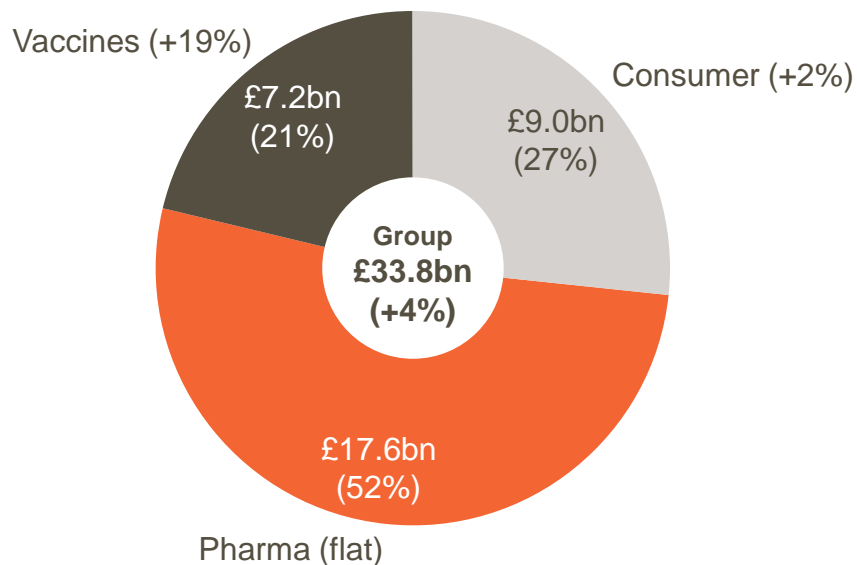
Culture

Sales, earnings and cash flow growth in 2019



Group: revenue breakdown 2019

Business Units



Total Group operating margin

20.6%

flat

Total EPS

93.3p

+23%

Free cash flow

£5.1bn

2017: £5.7bn

Adjusted Group operating margin

26.6%

-1.8%pts

Adjusted EPS

123.9p

+1%

2019 dividend

80p

Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Group and Consumer growth rates are proforma. Breakdown percentages are approximate

Maintaining momentum; delivering long term priorities



While bringing solutions to COVID-19

2020 focus

Innovation

Performance

Trust

- ✓ – Progress pipeline
- ✓ – Drive operating performance
- ✓ – Successful integration
- ✓ – Prepare for 2 new companies

New GSK: a leading biopharma company with R&D focused on science of the immune system, genetics and advanced technologies

New leading Consumer Healthcare company with category leading power brands and science and consumer insights

Preparing for 2 new companies



Investment in R&D and future growth drivers

2-year
separation
programme

New
GSK

Common approach to R&D and capital allocation
Capabilities and efficiencies in support functions
Optimise supply chain and portfolio. Divestments

New
CH

Build key technology infrastructure and
corporate functions

CH JV integration, synergy delivery and investment in
growth drivers

**New GSK: a leading
biopharma company** with
R&D focused on science of the
immune system, genetics and
advanced technologies

**New leading Consumer
Healthcare company** with
category leading power brands
and innovation based on
science and consumer insights

Progress on portfolio of COVID-19 solutions



3 vaccine approaches in the clinic



- Sanofi's recombinant protein-based antigen + GSK's AS03 adjuvant
- FTIH studies initiated September 2020
- Data expected by year end 2020; pivotal study start anticipated by year end



- Medicago's recombinant Coronavirus Virus-Like Particles (CoVLP) + GSK's AS03 adjuvant
- FTIH studies initiated July 2020
- Data expected to be published shortly; pivotal study start anticipated by year end



- Clover's COVID-19 S-Trimer vaccine (SCB 2019) + GSK's AS03 adjuvant
- FTIH studies initiated June 2020
- Data expected to be published shortly; pivotal study start anticipated by year end

2 therapeutics in pivotal studies

- **Vir7831**: neutralizing human monoclonal antibody, specifically engineered for SARS-CoV-2
- Potential to be best-in-class: designed for maximum bioavailability in the lung; long half-life following single infusion; optimal binding to virus even if it subsequently mutates
- COMET-ICE pivotal study ongoing with initial data possible by end 2020

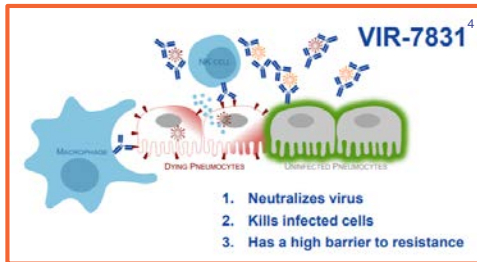
- **otilimab**: aGM-CSF antibody, targeting a cytokine found in high levels in COVID patients
- For treatment of severe pulmonary COVID-19 related disease
- OSCAR study ongoing, with data expected 1H 2021
- Also in Phase 3 studies for rheumatoid arthritis

Vir collaboration: potential best-in-class antibody for COVID-19



Differentiated antibody approach

- Vir-7831 potently **neutralises SARS-Cov-2**
- High barrier of resistance**¹ due to unique binding properties and a highly conserved epitope
- Highly potent allowing for a lower dose** and has the ability to recruit other immune cells to kill already infected cells^{2,3}
- Has a “LS mutation”⁵ which **extends the antibody half life** and increases the amount of the drug in the lung



COMET-ICE study ongoing in patients at high risk of hospitalisation; preliminary data expected by end 2020

Significant unmet need

- Clear need for therapeutics despite active vaccine development programmes
- Significant demand for COVID-19 mAbs
- Around 5% of infections are thought to require hospitalisation, based on data to date

Additional opportunities planned

- Phase 3 study in hospitalised patients with severe COVID-19
- Phase 3 study for prevention of symptomatic infection
- Vir-7832 Phase 2 study

1. Adapted from Pinto et al. Nature (published online May 18, 2020). <https://doi.org/10.1038/s41586-020-2349-y>
2. Piccoli et al, Cell (published online September 16, 2020). <https://doi.org/10.1016/j.cell.2020.09.037>
3. Schafer et al, BioRxiv (published on line September 15, 2020). <https://doi.org/10.1101/2020.09.15.298067>

4. Vir Investor Presentation <https://investors.vir.bio/static-files/a14f9b2a-d9aa-4793-aa41-b2eee1fb33e7>
5. Ko et al. Nature 2014;514(7524):642-5



Trust

Trust

We commit to use our science and technology to address health needs, make our products affordable and available and to be a modern employer.

Trust is one of our three long-term priorities and is essential to how we deliver our purpose and strategy.

Society has high expectations presenting both challenges and opportunities, and we must be able to effectively respond to remain commercially successful, uphold our reputation and build trust.

Our Trust commitment describe the actions we will take to help deliver societal value and build trust. Progress on these commitments are presented in our [annual report](#).

Our Trust commitments



Innovation

By using our

science and technology

to address health needs



New medical innovations

Develop differentiated, high-quality and needed medicines, vaccines and consumer healthcare products to improve health

Global health

Improve global health impact through R&D for infectious diseases that affect children and adolescents in developing countries focusing on HIV, malaria and TB

Health security

Help the world to better prepare for future disease outbreaks with pandemic potential, and tackle antimicrobial resistance

Performance

By making our products

affordable and available



Pricing

Improve the health of millions of people each year by making our products available at responsible prices that are sustainable for our business

Product reach

Use access strategies to reach 800 million underserved people in developing countries with our products by 2025

Healthcare access

Partner to improve disease prevention, awareness and access to healthcare services for 12 million people by 2025

Trust

By being a

modern employer



Engaged people

Achieve and maintain a competitive employee engagement score by 2022

Inclusion and diversity

Accelerate our progress on inclusion and diversity, aiming for over 37% female representation in senior roles and recognition in global LGBT+ indices, by 2022

Health, wellbeing and development

Be a leading company in how we support employee health, wellbeing and personal development

Being a responsible business

Reliable supply

Commit to quality, safety and reliable supply of our products for patients and consumers

Ethics and values

Operate an ethical, values-driven culture, in which any issues are responded to swiftly and transparently

Data and engagement

Use data responsibly and transparently. Improve patient and scientific engagement

Environment*

Reduce our environmental impact by one quarter by 2030

* We have announced new environmental sustainability goals – see next slide. We will report against these new targets from 2021

New environmental targets announced November 2020



Climate action

Net zero impact on climate by 2030

Biopharma

- Net zero emissions across all operations by 2030 (scope 1 and 2)
- 100% renewable electricity by 2025 (scope 2)
- Net zero emissions across our full value chain by 2030 (scope 3)

Consumer Healthcare

- Net zero emissions across all operations by 2030 (scope 1 and 2)
- 100% renewable electricity by 2025 (scope 2)
- Net zero emissions for select brands/formats by 2030 (scope 3)

Accredited 1.5°C SBTi reduction target; RE100 and EV100 accreditation

Nature Action

Positive impact on nature by 2030

Biopharma

- 100% sites to achieve good water stewardship by 2025 and reduce overall water use by 20% by 2030
- Water neutral in operations and key suppliers in water stressed regions by 2030
- Zero impact active pharmaceutical ingredient levels⁽¹⁾ for all sites and key suppliers by 2030
- Zero operational waste, including eliminating single use plastics⁽²⁾, by 2030
- 25% environmental impact reduction for our products and packaging by 2030
- 10% waste reduction from supply chain by 2030
- Positive impact on biodiversity at all sites⁽³⁾ by 2030
- 100% materials sustainably sourced and deforestation free by 2030

Consumer Healthcare

- 100% sites to achieve good water stewardship by 2025 and reduce overall water use by 20% by 2030
- Reduce water use in high water stressed locations by 30% by 2030
- 90% operational waste reused, recycled, downcycled or incinerated with heat recovery by 2030
- 100% product packaging recyclable or reusable, including eliminating all problematic and unnecessary plastics, where quality and safety permits by 2025⁽⁴⁾
- 100% materials sustainably sourced and deforestation free by 2030

(1) Below the predicted no-effect level

(2) Where regulatory obligations allow, and excluding plastics which are critical to product discovery and development and health & safety

(3) GSK-owned sites

(4) Where quality and safety permit and subject to regulatory compliance

Aiming for SBTN accreditation once methodology published

Benchmarking and recognition



1st
in Access to
Medicines Index
(6th consecutive
time at no.1)

Lead the
ATMI Antimicrobial
Resistance
Benchmark

84% employee
engagement score
in our employee
survey

Named as
a Stonewall
Top Global
employer for
LGBT+ inclusion

2nd
in Dow Jones
Sustainability
Index
(Pharma sector)

Member of
FTSE4Good Index
since 2004

1st
in Transparency
Internationals UK's
Corporate Political
Engagement Index

Accredited by the
Science Based
Targets Initiative;
named a CDP
Supplier
Engagement
Leader

**Trust
resources**

Annual Report 2019

ESG Performance Summary 2019

Our Contribution to the SDGs

GSK.com Responsibility section

<https://www.gsk.com/media/5894/annual-report.pdf>

<https://www.gsk.com/media/5886/esg-performance-summary-2019.pdf>

www.gsk.com/media/5326/our-contribution-to-the-sdgs.pdf

www.gsk.com/en-gb/responsibility/

Deep dive: Using our science and technology for global health



We aim to improve global health impact through R&D for infectious diseases that affect children and young people in developing countries focusing on HIV, malaria and TB

HIV

FDA has approved paediatric dolutegravir, and we have filed an EU regulatory submission in partnership with the International Maternal Paediatric Adolescent AIDS Clinical Trials Network and the Paediatric European Network for Treatment of AIDs.

Malaria

Krintafel/Kozenis (tafenoquine), our single dose radical cure treatment for *P. vivax* malaria, developed in partnership with the Medicines for Malaria Venture, has been approved by the US FDA, the Australian TGA and in malaria endemic countries Brazil and Thailand.

Our RTS,S vaccine aims to protect children from *P. falciparum* malaria. A pilot vaccine implementation programme coordinated by the WHO has launched in selected areas of Malawi, Ghana and Kenya. At least 360,000 children per year for five years will receive the vaccine.

TB

Released positive final phase II results for our candidate TB vaccine and built a collaboration with the Bill & Melinda Gates Medical Research Institute for the continued development of the asset for developing countries

Pharmaceuticals

Our Pharmaceuticals business has a broad portfolio of innovative and established medicines with commercial leadership in respiratory and HIV. Our R&D approach focuses on science related to the immune system, use of genetics and advanced technologies.

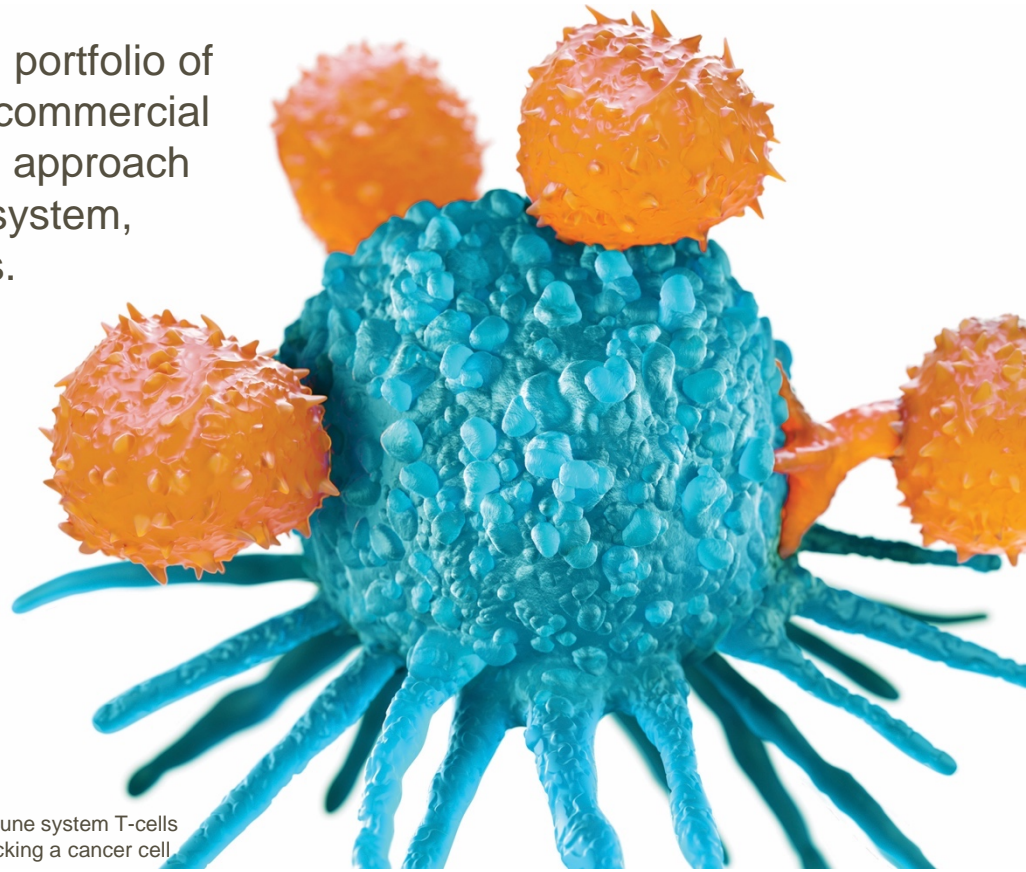
£17.6bn, flat CER

Sales turnover 2019

Key Products

<i>Tivicay/Triumeq/2DRs*</i>	HIV
<i>Trelegy</i>	COPD
<i>Nucala</i>	Severe Asthma
<i>Zejula</i>	Oncology
<i>Benlysta</i>	Immuno-inflammation

* 2DR = 2 drug dolutegravir-based regimens such as Dovato and Juluca



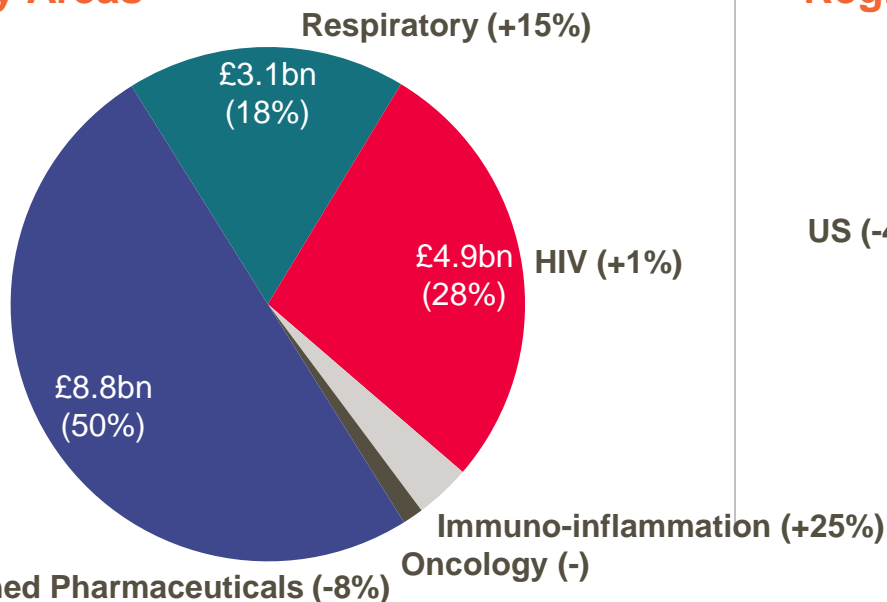
Immune system T-cells attacking a cancer cell.

Pharmaceuticals: revenue breakdown 2019

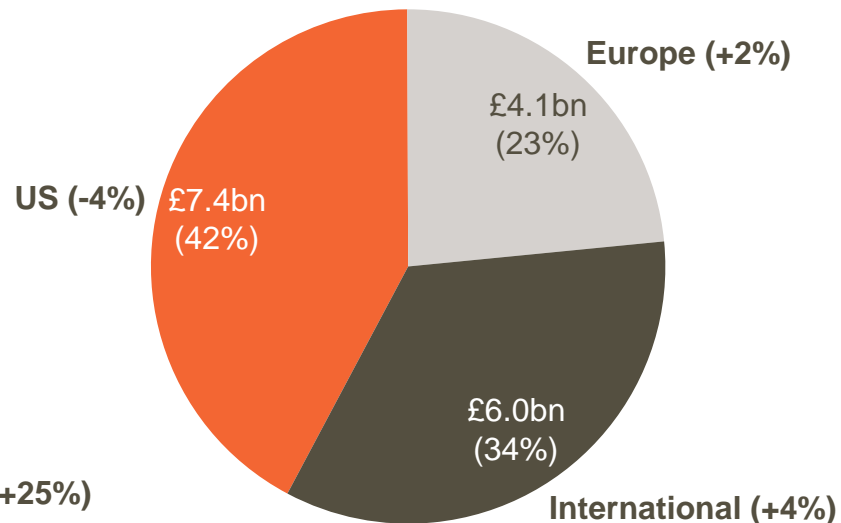


Revenues of £17.6bn (+0% CER)

Therapy Areas



Regions



Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Breakdown percentages are approximate

Increasing focus and prioritisation to support future growth



Focus resources on key products

Trelegy

Nucala

HIV

Zejula

Shingrix

Bexsero

Investing in priority markets

US

China

Building our capability in Specialty

New talent with Specialty experience

Co-location of development and commercial in Oncology

Tesaro transaction

Changes to our policy for working with healthcare professionals

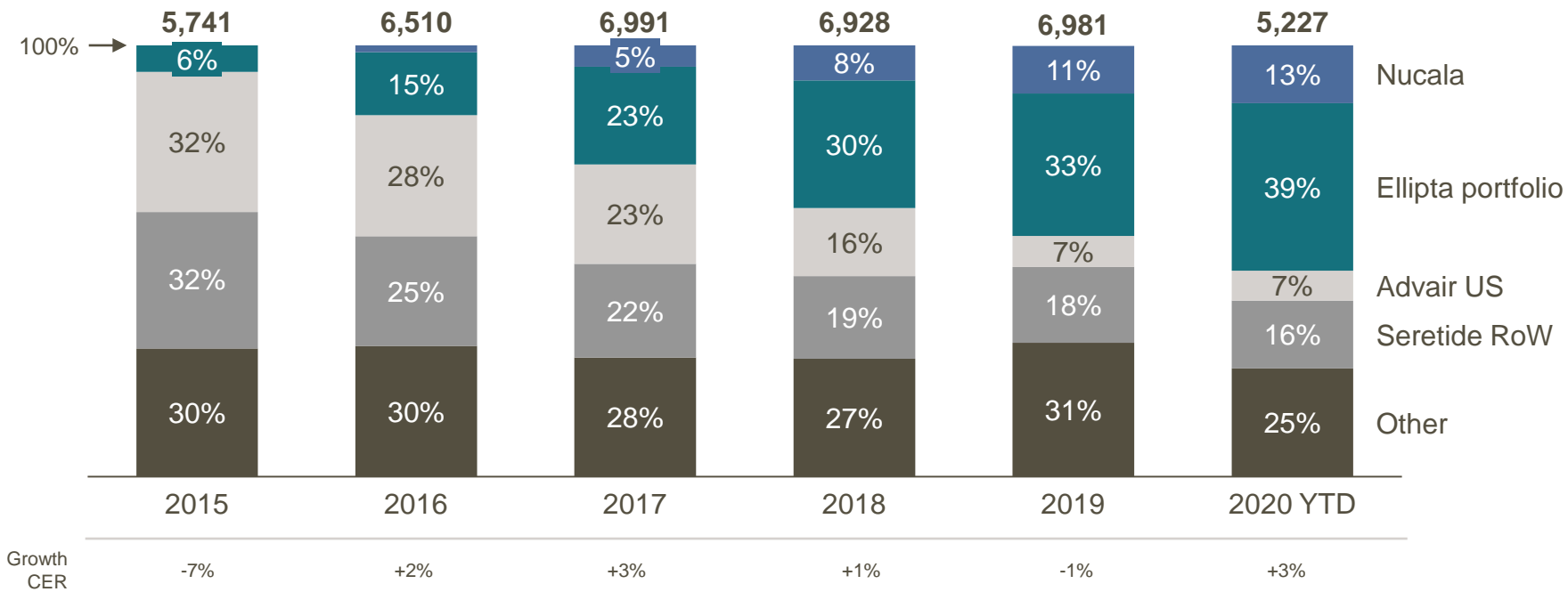


Respiratory

The changing shape of the respiratory portfolio



New portfolio offsetting decline in Advair/Seretide

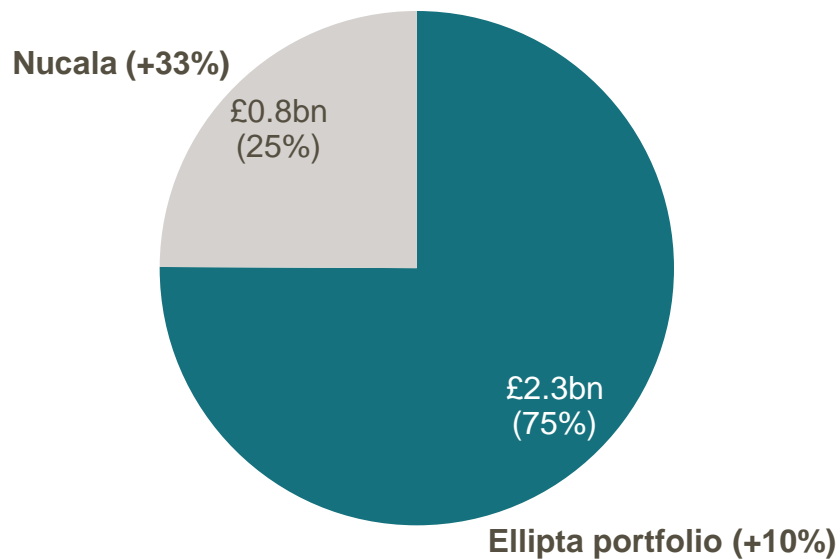


Respiratory: revenue breakdown 2019

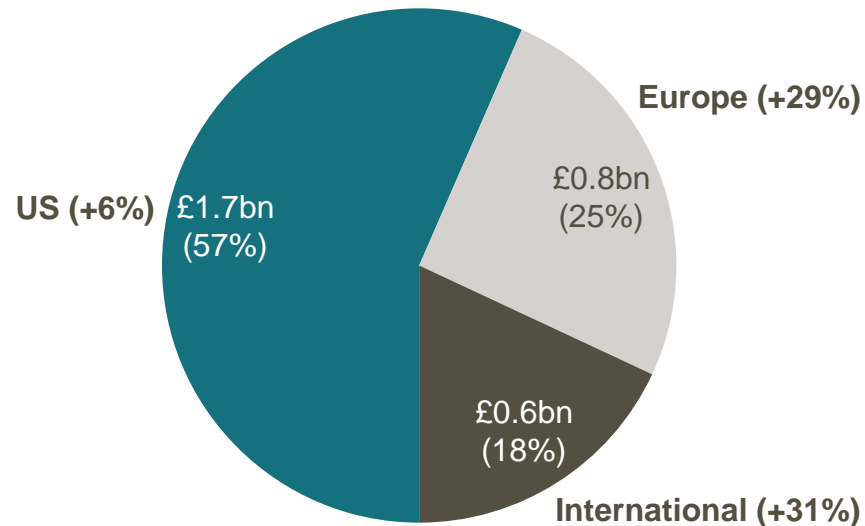


Revenues of £3.1bn (+15% CER)

Products



Regions



Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER) . Breakdown percentages are approximate

Nucala: market leadership with upside opportunity



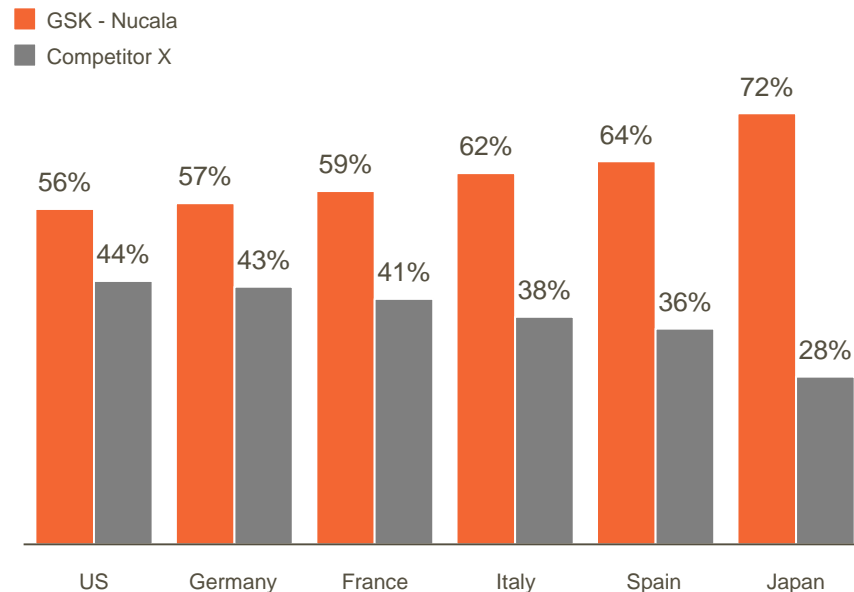
Leading in eosinophilic indications

- £251m in Q3, +29% CER; remains the IL-5 market leader globally
- Growth opportunity:
 - 12-24m with SEA¹ globally but majority undertreated
 - ~420k patients in US; only 27% currently receive a biologic
- Rapid indication expansion:
 - Paediatric patients
 - First biologic with auto-injector for at home use
 - First biologic approved for EGPA² and HES³
 - First anti IL-5 with positive Ph3 data in NP⁴
 - Phase 3 study in COPD ongoing
- Delivers proven efficacy by precisely targeting IL-5 to reduce eosinophils to normal levels

1. Severe Eosinophilic Asthma 2. Eosinophilic granulomatosis with polyangiitis
3. Hypereosinophilic syndrome 4. Nasal Polyps

Global leader in IL-5 market share

Moving Quarterly Total (MQT) Market Share*



* Market share data sources: US (IQVIA DDD+ and Xponent data), Germany ("Sell Out Units ZE" from German PADDs-Pharmascope and "Zaehleinheit" from German PADDs-DKM dataset), France (IQVIA & GERS), Italy (IQVIA Volume Data), Spain (Atrys Health Severe Asthma - Biologic Market), Japan (IQVIA PEQ Data)

Trelegy: growing the market with leading performance

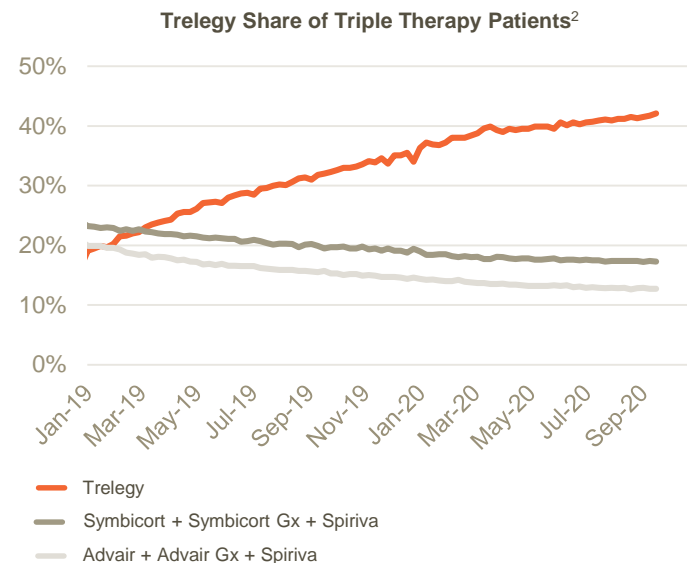


Strong performance with room to grow

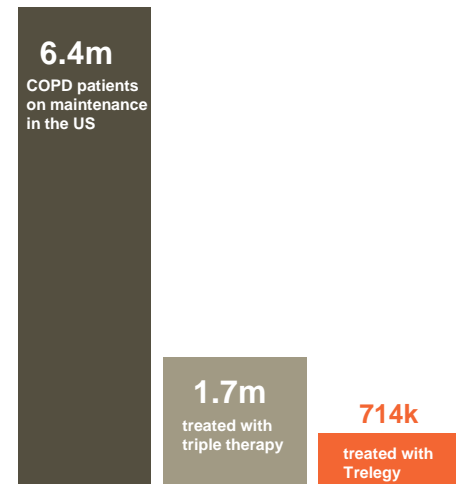
- £194m in Q3, +45%
- Substantial COPD growth opportunity
 - <25% maintenance patients on triple therapy today
- Launched in 43 markets including China and Japan
- Further growth & differentiation opportunity in asthma
 - 5.8m US adult asthma patients on ICS/LABA – 30% uncontrolled
 - US approval received September 2020
 - Only once-daily triple approved for asthma in US; filed in EU and Japan

Market leading in US and other major markets

US triple therapy market share



Unmet need remains



Substantial room to grow the class with <27% of maintenance on a triple and only 42% of those on a triple taking Trelegy³

1 Lancet 2016 2. Source: IQVIA APLD; w/e Sep 18th, 2020

3. Treated with Maintenance: IQVIA Claims Data; Jan - Dec 2019; Patients on Triple Therapy and % Patients on Trelegy: Sourced from IQVIA Claims Data; Aug 2020



HIV

HIV patient pool continues to increase



~38 million HIV+ globally, estimated
7.1 million don't know their status¹

1.7 million new infections
in 2019¹

25.4 million people living with HIV
were accessing antiretroviral therapy
in 2019¹

~£25bn antiretroviral market size

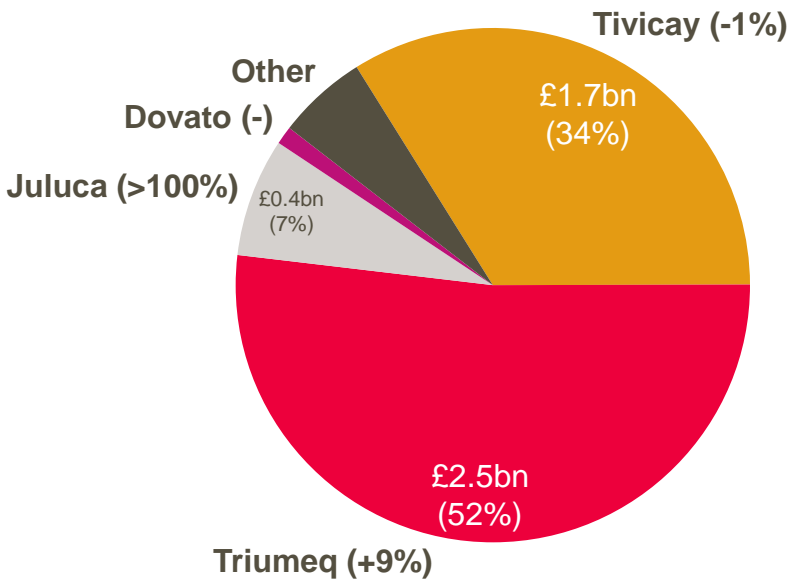
PLHIV will continue to need new treatments throughout their lifetime...

HIV: revenue breakdown 2019

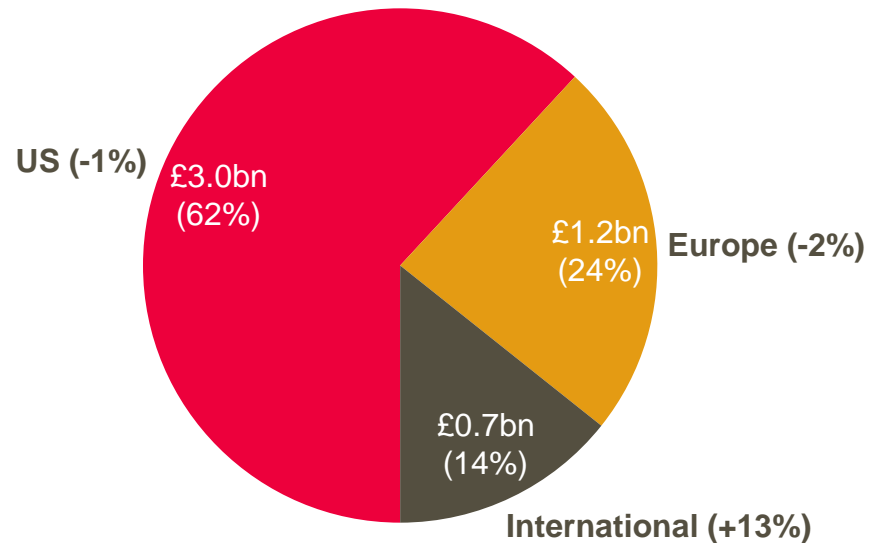


Revenues of £4.9bn (+1% CER)

Products



Regions



Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Breakdown percentages are approximate

From EVOLUTION to REVOLUTION: the 2DR era



Current standard of care HAART/legacy drugs

Dolutegravir-based regimens

Tivicay
Triumeq

Legacy ARV drug portfolio

abacavir/lamivudine,
maraviroc and others

New treatment paradigm = 2DR

Two-drug regimens

Juluca: dolutegravir/rilpivirine
Dovato: dolutegravir/lamivudine

Long-acting treatment regimens

Cabenuva**:
cabotegravir + rilpivirine

Search for remission and cure

Prevention

cabotegravir long-acting*

New MOA

Rukobia: Attachment inhibitor (fostemsavir)
Maturation inhibitor portfolio**
Capsid inhibitor**
Broadly neutralizing AB (N6LS)**



Pipeline Strategy

*Investigational treatments

** Cabenuva approved in Canada

*Discovery programme

HIV: Leading core agent in HIV treatment



- Dolutegravir is #1 core agent globally
- 500,000 patients worldwide taking a dolutegravir based regimen
- Unmatched trial results; superiority in 5 studies and data in broad populations

vs. efavirenz	vs. raltegravir	vs. darunavir	vs. atazanavir	vs. lopinavir
Superior (naive)	Superior (experienced)	Superior (naive)	Superior (women/naive)	Superior (experienced)
				

SINGLE, FLAMINGO, SAILING, ARIA and DAWNING were non-inferiority studies with a pre-specified analysis for superiority. Table shows primary endpoint outcomes.

*Patient Pathways survey presented at IAS 2017
DHHS: Department of Health and Human Services; EACS: European AIDS Clinical Society

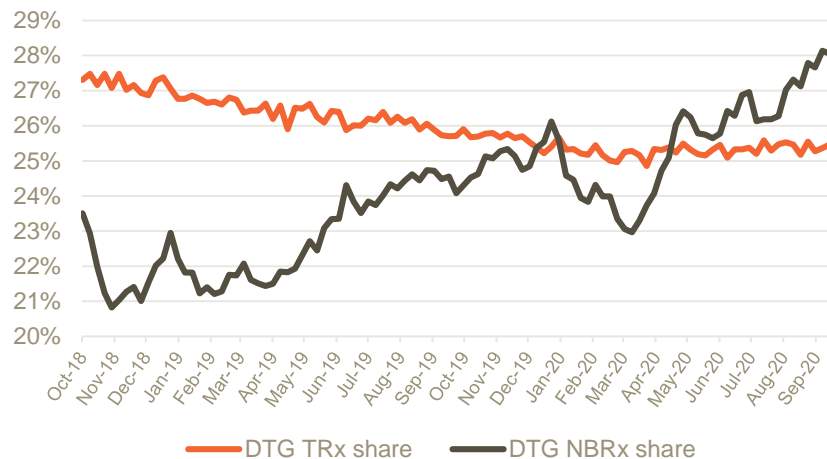
Strong momentum on 2DRs



Strong execution across portfolio

- Leading share of voice in US and Europe
- Strong execution with 2DRs, driving uptake (NBRx: >8%)
- Dovato US label expansion to include TANGO data; driving increased share in switch market
- Additional supportive data from 96-week TANGO switch and 144-week GEMINI studies
- Positive start for Rukobia; US insurance coverage 70%
- CAB PrEP filing with FDA on track for H1 2021 – approval anticipated Q1 2022

US DTG NBRx share outpacing DTG TRx share



Market at point of inflection as 2DRs gain traction

The PREP landscape worldwide



- 200,000 people currently taking PrEP in US
- US Government believes 1.2 million could benefit
- Circa 500,000 MSM in Europe could benefit from PrEP but barriers to access remain high
- In Africa HIV infections are growing among adolescent girls and young women who could benefit from PrEP
- Some people express dissatisfaction at taking daily PrEP pills as reinforcing self stigma
- CAB LA could present a new option, dosed every two months

US market value
Circa \$2bn today and growing

Redefining HIV PrEP with long-acting cabotegravir



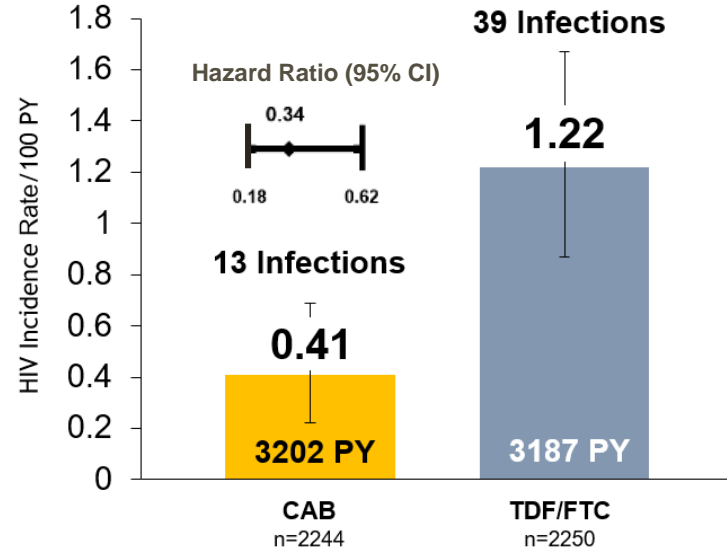
Cabotegravir for PrEP

- Long acting, injectable cabotegravir administered every two months is 66% more effective than daily pills
- Working with the FDA and other regulatory agencies to prepare a file



Anticipated submission 1H 2021

HIV Incidence





Oncology

Building our oncology commercial capability



Improved engagement with HCPs

Updated HCP engagement policies to improve how we help prescribers understand new data and clinical experience with our innovative products

Attracting and retaining the best sales force talent

Competitive sales force incentives in place to recruit, motivate and retain sales teams with the right levels of expertise and experience

Seamless execution across functions and in markets

Aligned efforts to ensure launch readiness for exciting oncology launches and drive value for patients and shareholders

Oncology commercial opportunities in 2020

Zejula approved in US for 1L maintenance in ovarian cancer for all platinum responders; launch ongoing

- PRIMA presented at ESMO 2019
- Significantly improved PFS in the overall population

Belantamab mafodotin (BCMA ADC) relapsed/recurrent Multiple Myeloma (DREAMM-2) approved in US and EU, launch ongoing

- Strong demand in line with expectations due to high unmet need
- Study met primary objective and demonstrated clinically meaningful ORR

Dostarlimab (PD-1) in recurrent endometrial cancer (GARNET) FDA submission accepted

- Study met primary objective and demonstrated clinically meaningful ORR and DoR

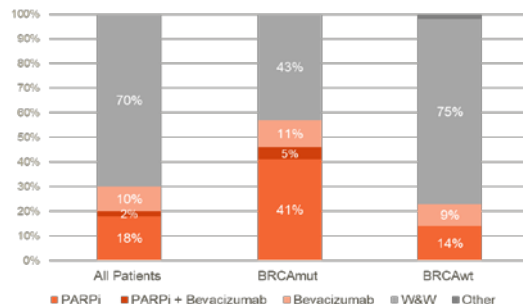
Zejula: strong label and commercial execution drive share in 1LM OC



Best-in-class PARPi; opportunity for growth

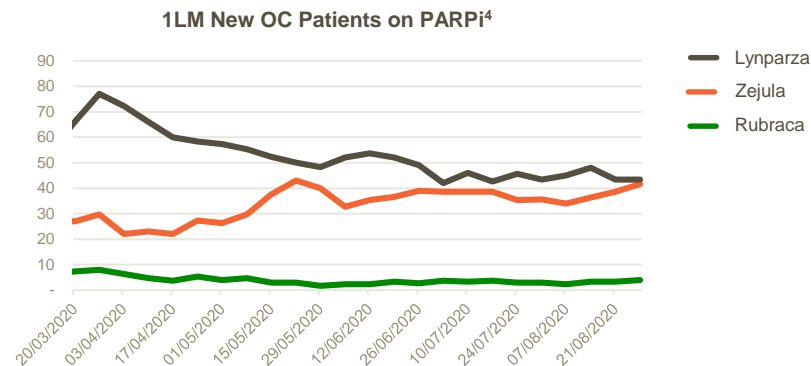
- £92m in Q3, +47%; positive CHMP opinion for PRIMA
- 1st PARP inhibitor to show PFS¹ in first line ovarian cancer regardless of biomarker status
- Supportive guidelines from NCCN and ASCO

- Watch & wait approach still used in >70% of women in 1LM OC setting in the US²



- ZEAL-1L study in NSCLC to start shortly; demonstrated tumour penetration and ability to cross the blood brain barrier³

Increasing new patients starts in 1LM OC



46% of new 1LM patients getting a PARPi now receive Zejula⁵



31% of all PARPi patients (new and repeat) now on Zejula in 1LM⁶

1 PFS = Progression-free survival
 2. Flatiron Health Jul 2020
 3. Sun et al. Oncotarget 2018, Vol 9 (no 98)

4. Symphony Claims Data through August 2020 - Rolling 3 Week Average
 5. Symphony Health Aug 2020
 6. Flatiron Health Aug 2020

Blenrep: first-in-class treatment for multiple myeloma



Positive response, encouraging demand

- REMS fully operationalised; >500 HCPs enrolled
- 200+ patients enrolled in REMS (end Q3)
- Share of voice¹ amongst top 3 MM² treatments
- Included in NCCN Guidelines

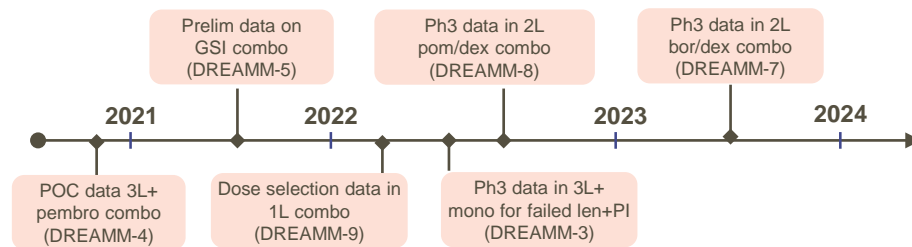


- Highly-skilled and experienced salesforce
- In-person access to HCPs highest amongst MM competitive set¹

Development in earlier lines continues

- Studying optimal dosing volume and scheduling
- Investigating synergistic combinations:
 - DREAMM-5 platform study; preliminary data on GSI combination expected 2021
 - DREAMM-4 combination with pembrolizumab; data in-house, presentation expected 1H21

Upcoming read-outs



1. Brand Impact Report; Sept 2020

2. Multiple Myeloma



Immuno-inflammation

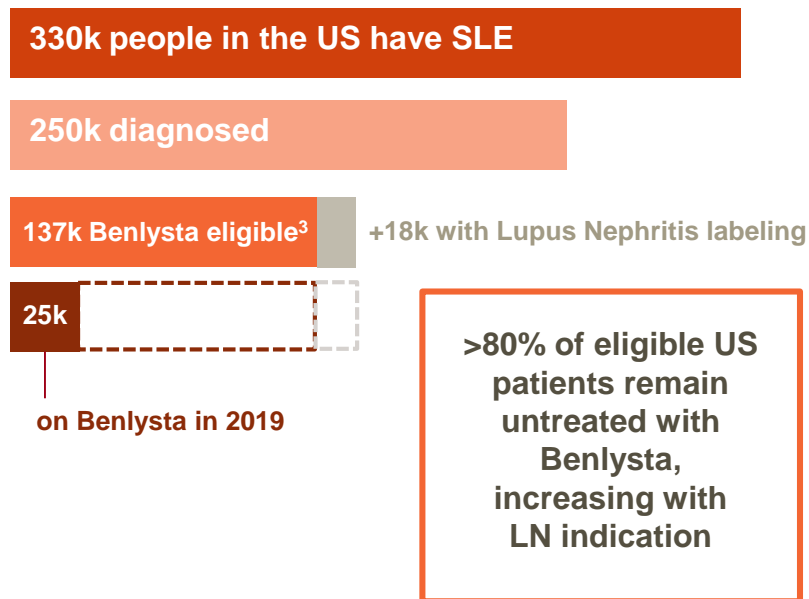
Benlysta: consistent growth in an expanding market



LCM driving sustained leadership in lupus

- £186m in Q3, +13% CER
- Life cycle management driving future growth
 - **Lupus Nephritis (LN):** US approval expected by year end
 - Positive data in NEJM¹
 - FDA Breakthrough Designation & Priority Review
 - **Combination with rituximab:** BLISS-BELIEVE pivotal study ongoing
 - Primary endpoint data expected in-house end 2020
 - Possible filing 1H21
 - **China:** Successful launch of IV formulation; ~1m SLE² patients, expected to increase with increased diagnosis and treatment

Considerable unmet patient need remains



1. Furie R, Rovin B, Houssiau F, et al. Two-Year, Randomized, Controlled Trial of Belimumab in Lupus Nephritis. N Engl J Med. 2020;383:1117-112. 2. SLE: Systemic Lupus Erythematosus

Source: Internal US estimates based on external epidemiology studies, claims data and market research
3. Benlysta eligible based on current labeling

Pipeline

Science

x

Technology

x

Culture



Strengthening our R&D pipeline through a focus on science related to the immune system, the use of human genetics, and advanced technologies

Over the last two years we have made significant progress



July 2018 to July 2020

- Over 40% of our POC studies have been positive
- Enabling us to initiate 9 potentially registrational studies
- We delivered 17 positive pivotal studies
- We are on track for 14 approvals, including up to 5 NMEs in 2020
- We focused the pipeline by removing 24 assets of marginal value and added 20 very promising assets

Our R&D pipeline

40 medicines and 18 vaccines



First time in human (Phase 1)

3858279* (CCL17 inhibitor) OA pain
3745417 (STING agonist) cancer
3186899* (CRK-12 inhibitor) visceral leishmaniasis
3511294* (LA anti-IL5 antagonist) asthma
3810109* (broadly neutralizing antibody) HIV
3537142* (NYESO1 ImmTAC) cancer
3439171* (H-PGDS inhibitor) DMD
3368715* (Type 1 PRMT inhibitor) cancer
3174998* (OX40 agonist) cancer
2798745* (TRPV4) DME
6097608* (CD96) cancer
2982772 (RIP1-k) psoriasis
3882347* (FimH antagonist) uUTI
3739937 (maturation inhibitor) HIV
3923868 (PI4kβ inhibitor) viral COPD exacerbations
3901961* (CD8 TCR) cancer
3845097* (TGFβR2 TCR) cancer
3494245* (proteasome inh) visceral leishmaniasis
C. difficile*
SAM (rabies model)
S. aureus*
COVID-19 (Clover Biopharmaceuticals)* ^{†1}
COVID-19 (Medicago)* ^{†1}
COVID-19 (Sanofi)* ^{†2}

Proof of concept (Phase 1b/2)

3640254 (maturation inhibitor) HIV
3228836* (HBV ASO) HBV
2330811 (OSM antagonist) systemic sclerosis
linerixibat (IBATI) cholestatic pruritus in PBC
3326595* (PRMT5 inhibitor) cancer
cobolimab* (TSR-022, TIM-3 antagonist) cancer
3036656* (leucyl t-RNA inhibitor) TB
2831781* (aLAG3 depleting) ulcerative colitis
4074386* (TSR-033, LAG3 antagonist) cancer
Menveo liquid
RSV paediatric
RSV maternal*
RSV older adults* ²
Therapeutic HBV* ²
Malaria* (fractional dose)
Shigella*

Pivotal (Phase 2/3)

Benlysta ³ + Rituxan SLE**
cabotegravir** LA + rilpivirine* LA HIV
daprodustat (HIF-PHI) anemia
Nucala COPD / nasal polyps
Blenrep* (BCMA ADC) multiple myeloma
Zejula* (PARP inhibitor) ovarian cancer**
dostarlimab* (PD-1 antagonist) dMMR/MSI-H EC
bintrafusp alfa* (TGFβ trap/anti-PDL1) BTC**
otilimab* (3196165, aGM-CSF inhibitor) RA** ^{†4}
gepotidacin* (2140944) uUTI and GC
3359609* (ICOS receptor agonist) HNSCC** ^{†1}
letresgene-autoleucel* (3377794, NY-ESO-1 TCR) SS**
4182136* (Vir-7831) COVID-19
Shingrix immuno-compromised*
Bexsero infants (US)
MMR (US)
Rotarix liquid (US)
MenABCWY

Rx Vx

Note: Only the most advanced indications are shown for each asset

- *In-license or other alliance relationship with third party
 **Additional indications also under investigation
 † GSK is contributing pandemic adjuvant to COVID-19 vaccines collaborations
 1. ICOS HNSCC is a Phase 2/3 study with registrational potential
 2. In Phase 1/2 study
 3. Benlysta for lupus nephritis in registration
 4. Otilimab for COVID-19 therapy in Ph2

RA: rheumatoid arthritis; OA: osteoarthritis; DMD: duchenne muscular dystrophy; PBC: primary biliary cholangitis; TB: tuberculosis; SLE: systemic lupus erythematosus; BTC: biliary tract cancer; EC: endometrial cancer; uUTI: uncomplicated urinary tract infection; GC: gonorrhoea; HNSCC: head and neck squamous cell carcinoma; dMMR: deficient mismatch repair; DME: diabetic macular edema

Upcoming milestones that will inform our progress



	2H 2020	1H 2021	2H 2021	1H 2022	2H 2022
Anticipated submission	Nucala NP ✓	Benlysta + Rituxan SLE ✓	bintrafusp alfa (TGFβ trap/anti-PDL1) BTC	Dostarlimab (PD-1) combo with CT 1L EC (RUBY)	belantamab mafodotin (BCMA) 3L in MM (DREAMM-3)
	Shingrix IC (US)	dostarlimab (PD-1) dMMR pan-tumor ✓	Zejula + dostarlimab 2L+ PROC (MOONSTONE) ⁴	daprodustat (HIF-PHI) anemia	
Pivotal data	Benlysta + Rituxan SLE ¹	bintrafusp alfa BTC	dostarlimab combo with CT 1L EC (RUBY)	belantamab mafodotin (BCMA) 3L in MM (DREAMM-3)	belantamab mafodotin (BCMA) + Pd 2L+ in MM (DREAMM-8)
	dostarlimab (PD-1) dMMR pan-tumor ✓	4182136 (Vir) COVID-19 ³	Zejula + dostarlimab 2L+ PROC (MOONSTONE) ⁴	gepidacin uUTI ⁵	MenABCWY
PoC data	2330672 (Inerixibat, IBAT inhibitor) cholestatic pruritus in PBC ²	3359609 (ICOS) ENTRÉE lung platform - docetaxel	cobolimab (TIM-3) NSCLC (AMBER)	belantamab mafodotin (BCMA) 1L combo in MM (DREAMM-9)	
	belantamab mafodotin (BCMA) PD-1 combo in MM (DREAMM-4) ✓	2831781 (aLAG3 depleting) UC ⁶	3036656 (leucyl t-RNA) tuberculosis [*]	3228836 (HBV-ASO) HBV ²	
	COVID-19 (Clover Biopharmaceuticals)	otilimab (aGM-CSF) COVID-19	lete-cel (3377794 NY-ESO) NSCLC [*] therapy		
	COVID-19 (Medicago)		S. Aureus interim data [*]		
	COVID-19 (Sanofi)				

Key:

- ✓ +ve data in-house, decided to progress
- ✓ +ve data in-house, decision pending
- ↔ data in-house, additional data needed
- ✘ -ve data in-house, return to research
- ✘ -ve data in-house, decided to terminate

MM: multiple myeloma; NP: nasal polyposis; PrEP: pre-exposure prophylaxis; SLE: systemic lupus erythematosus; UC: ulcerative colitis; NSCLC: non-small cell lung cancer; PBC: primary biliary cholangitis; EC: endometrial cancer; PROC: Platinum resistant ovarian cancer; BTC: biliary tract cancer; dMMR: deficient mismatch repair

*Interim Analysis (internal) 1. Primary data in-house at 52 weeks, study completion at 104 weeks 2. Phase 2b study 3. Also delivers PoC data 4. Study temporarily held recruitment activities to perform a pre-planned interim analysis 5. interim analysis subject to regulators feedback 6. Initial data, timing dependent on RSV infection circulation during pandemic lockdowns
 Note: tick marks refer to programmes on left side of marks

23andMe and GSK exclusive collaboration



Collaboration offers scale, diversity, sustainability for advancing therapeutic programs

Questionnaire yields unique phenotype information vs other biobanks

Can deploy custom surveys to dive deeper into specific diseases

Allows rapid recruitment of clinical trials based on genotype, phenotype and proximity to study centres



Improved target selection (higher PoS, and safer, more effective medicines)

Allows more efficient/effective identification and recruitment of patients for clinical studies

Empowers patients!

Human genetics and functional genomics

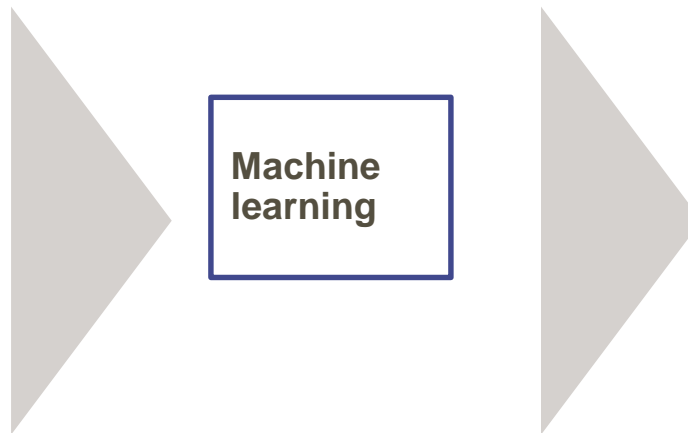


Science and technology together to drive better R&D success



“Artificial Intelligence is the new electricity and is changing industry after industry.”

Stanford School of Business lecture by Andrew Ng



More high quality targets

Faster development

Better success rates

Machine Learning will enable the fields of science and medicine to evolve from an era of “Big Data” to an era of “Understanding Data”

New R&D approach will support the development of current clinical portfolio



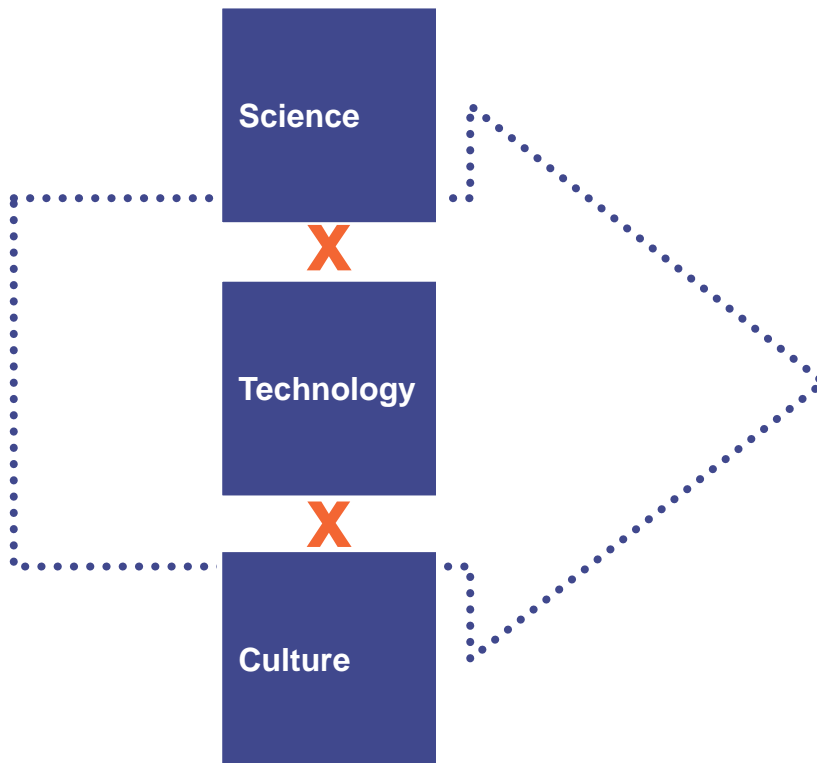
From

Spend spread thinly across too many programmes (“shots on goal” strategy)

Consensus-driven decision making

R&D/Commercial silos

Limited Business Development activity



To

Backing the best assets, and removing those that don't look promising

Culture of accountability where smart risk-taking and courageous decisions are made by individuals **and** rewarded

Robust governance model with scientific peer review, commercial input and data-driven decisions

Leveraging Business Development to optimise our portfolio

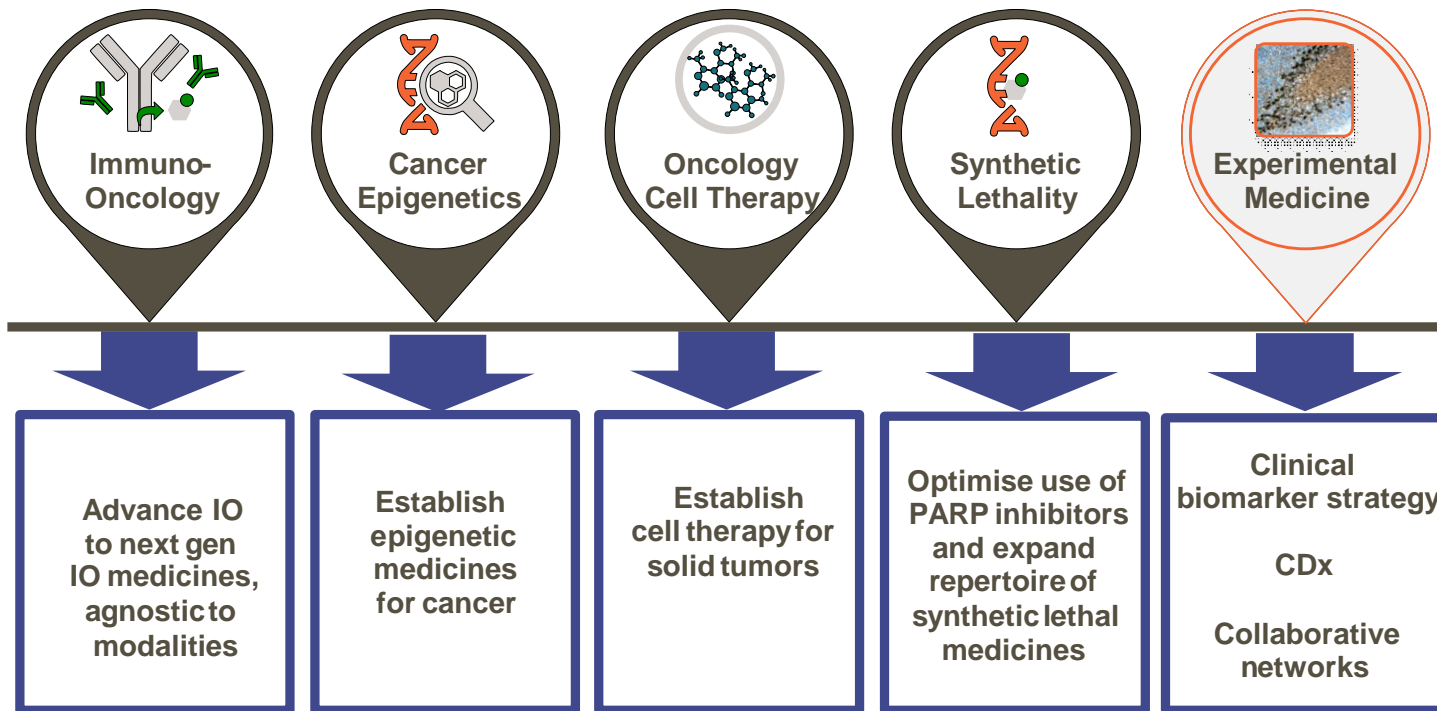


Growing Oncology Pipeline

Oncology R&D: strategy and scientific focus



Maximise patient survival through transformational medicines



Building a world class synthetic lethal pipeline and unit



December 2018

- Announced the Tesaro acquisition

July 2019

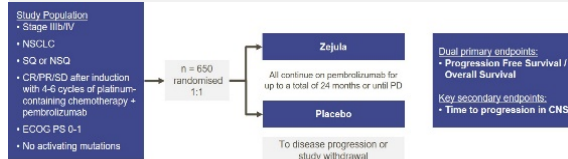
- Announced headline results from PRIMA

July 2020

- Announced the Broad Institute and Boston SL unit

Exploring Zejula's potential in lung cancer

- Platinum sensitivity is a surrogate predictive marker of response to PARPs in ovarian and pancreatic cancer
- Best-in-class potential given all-comers efficacy & blood-brain barrier penetration
- 1L Ph3 NSCLC study starting H2 2020



Expanding our synthetic lethal pipeline

- Investigating collateral lethality with GSK '715, our Type 1 PRMT inhibitor
- Formed a strategic partnership with IDEAYA to explore three combinations:
 - MAT2A + GSK'715
 - Pol Theta + Zejula
 - Werner Helicase + dostarlimab



World leading collaborations and a dedicated research unit

- Created a dedicated synthetic lethal research unit in Boston
- Collaborating with the Broad Institute, UCSF and Berkeley (latter via the LGR) to create the world's leading functional genomics capability



4L

treatment

				Study start	Read-out	
QUADRA	pivotal	following 3-4 regimens of chemotherapy	open label, single arm study n= 461	2017	Complete	Approved

Recurrent

platinum resistant

TOPACIO	POC	recurrent OC and advanced /metastatic TNBC	niraparib + pembrolizumab (MK-3475) n~120	2016	Complete	Published in JAMA
MOONSTONE*	pivotal	platinum resistant ovarian cancer	Open label, single arm nira + dostarlimab n~150	2H 2019	2021	Enrolling

Recurrent

maintenance therapy or treatment

NOVA	pivotal	platinum sensitive	niraparib vs. placebo following chemo n= 553	2013	Complete	Approved
AVANOVA**	POC	platinum sensitive	niraparib vs niraparib + bev n= ~100 (part 1 and part 2 combined)	2015	Complete	Best of ASCO 2019

1L

monotherapy and combination with novel agents

PRIMA	pivotal	maintenance following CR/PR with frontline chemo	niraparib monotherapy n~620	2016	Complete	Approved
OVARIO	POC	maintenance following frontline chemo+bev	single arm, open label study of niraparib + bevacizumab n~100	2018	2020	SGO 2020 presentation
FIRST	pivotal	maintenance in newly diagnosed advanced OC	Combo w/dostarlimab +/- bevacizumab n~620	2018	2023	Enrolling

RTOR

PRIMA: Comparing PARPi and bevacizumab in 1L ovarian cancer



	PRIMA ¹ niraparib	SOLO-1 ² olaparib	PAOLA-1 ³ bevacizumab +/- olaparib	VELIA ⁴ veliparib	GOG-218 ⁵ bevacizumab	ICON7 ⁶ bevacizumab
N	733	391	806	1140	1873	1528
Overall population	0.62		0.59	0.68	0.73	0.87
HR deficient <i>BRCAmut</i> (~20% of patients*)	0.40	0.30	0.31	0.44	0.95	ND
HR deficient <i>BRCAwt</i> (~30% of patients*)	0.50		0.43	0.74 NS		ND
HR proficient <i>BRCAwt</i> (~50% of patients*)	0.68		0.92 NS	0.81 NS	0.71	ND

Only Zejula demonstrated efficacy in all patient HR subgroups in first line

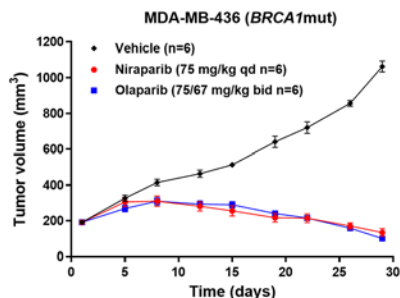
(1) Gonzalez, ESMO 2019; (2) MORE, NEJM 2018; (3) Ray-Coquard ESMO 2019; Coleman ESMO 2019; (5) Burger NEJM 2011; (6) Perren NEJM 2011

* Patients with known BRCA and HR status

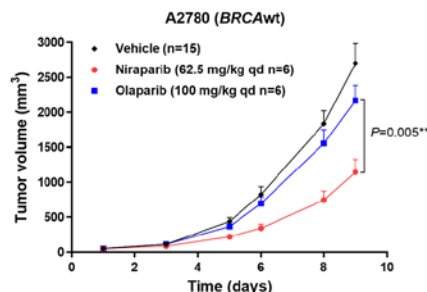
A comparative pharmacokinetic study of PARP inhibitors demonstrates favorable properties for niraparib efficacy in preclinical tumor models

Kaiming Sun¹, Keith Mikule¹, Zebin Wang¹, Grace Poon¹, Aparajitha Vaidyanathan², Gillian Smith², Zhi-Yi Zhang¹, Jeffrey Hanke¹, Sridhar Ramaswamy¹ and Jing Wang¹

BRCAMut TNBC model



BRCAwt ovarian model



“Our results show that at steady state, tumor exposure to niraparib is 3.3 times greater than plasma exposure in tumor xenograft mouse models.

In comparison, the tumor exposure to olaparib is less than observed in plasma. In addition, niraparib crosses the blood-brain barrier and shows good sustainability in the brain, whereas sustained brain exposure to olaparib is not observed in the same models.

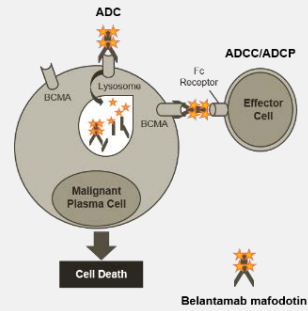
Consistent with its favourable tumor and brain distribution, niraparib achieves more potent tumor growth inhibition than olaparib in BRCAwt models and an intracranial tumor model at maximum tolerated doses.”

Sun et al

Belantamab mafodotin the first approved anti-BCMA agent for multiple myeloma



Approved in US and EU based on the benefit/risk profile in heavily R/R MM



- 1) Blocking BCMA receptor
- 2) Delivery of cytotoxic, MMAF
- 3) Enhancing antibody-dependent cellular cytotoxicity/phagocytosis
- 4) Immunogenic cell death

- 12-0 positive vote at FDA ODAC
- Positive opinion adopted by the EMA's CHMP

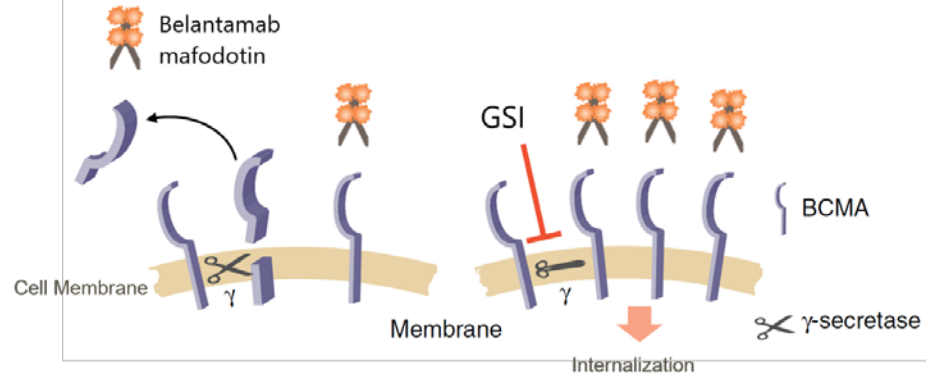
The New York Times

FDA Panel Votes in Favor of Approving GSK's Multiple Myeloma Drug

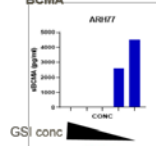
REUTERS

GSK's blood cancer drug wins European panel thumbs-up

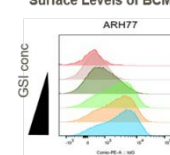
DREAMM-5: exploring belantamab mafodotin combined with γ -secretase inhibitors (GSI)



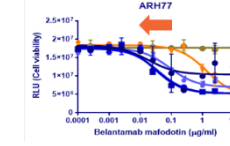
1) GSI Blocks Shedding of BCMA



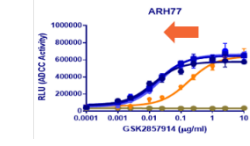
2) GSI Increases Cell Surface Levels of BCMA



3) GSI Increases Cytotoxic Potency



4) GSI Increases ADCC Potency



belantamab mafodotin



2L pivotal studies initiated (DREAMM-7 and DREAMM-8)

Development strategy for use in:

4L/3L

monotherapy and combinations

				Study start	Est launch
DREAMM-1	pilot	relapsed/ refractory patients	Belantamab mafodotin monotherapy, single arm, n=73	2014	---
DREAMM-2	pivotal	daratumumab failures	Belantamab mafodotin monotherapy, single arm, n=223	Jun 2018	2020
DREAMM-3	pivotal	failed lenalidomide and proteasome inhibitor	Belantamab mafodotin monotherapy vs. PomDex, n=320	1H 2020	2023
DREAMM-4	pilot	relapsed/ refractory patients	Belantamab mafodotin + PD1 combination, single arm, n=40	Mar 2019	---
DREAMM-5	pilot	relapsed/ refractory patients	Belantamab mafodotin + novel combinations platform study, n=514	Oct 2019	---

Approved

2L

combination with SOC

DREAMM-6	pilot	failed 1 prior therapy	Belantamab mafodotin+LenDex OR +BorDex, open label, n= 99	Oct 2018	---
209418	ISS	relapsed/ refractory patients	Belantamab mafodotin+PomDex, n= 78	Jan 2019	---
DREAMM-7	pivotal	failed 1 prior therapy	Belantamab mafodotin+BorDex vs. Dara+BorDex, n= 478	1H 2020	2024
DREAMM-8	pivotal	failed 1 prior therapy	'916+PomDex vs. PomBorDex, n= 450	2H 2020	2023

1L

combination with novel
and SOC agents

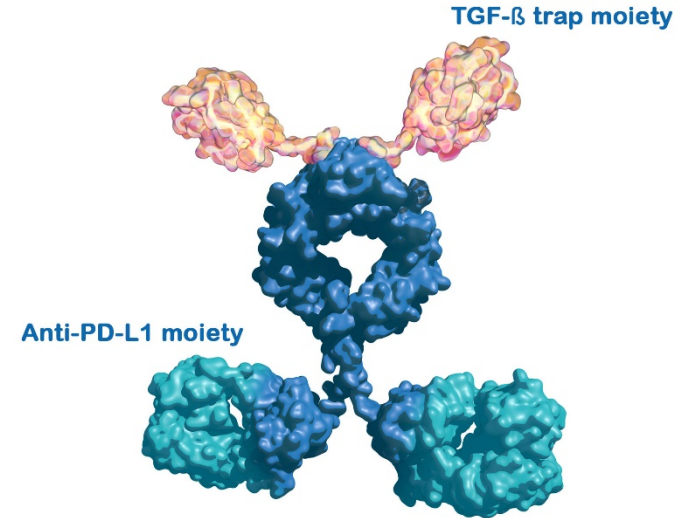
DREAMM-9	pilot	transplant ineligible	Belantamab mafodotin+BorLenDex vs. n=70	Jan 2020	---
DREAMM-10	pivotal	transplant ineligible	Belantamab mafodotin+novel agent vs SOC, n=TBC	2022	---

bintrafusp alfa (M7824)*: a first-in-class TGF- β / anti-PDL1 therapy



Unique design offers potential for superiority against the competitive landscape

The target	<ul style="list-style-type: none">– PD-L1 and TGF-β are key pathways with independent and complementary immunosuppressive functions– Blocking TGF-β signalling may sensitize tumours to anti-PD-1/PD-L1 therapies and lead to synergistic and superior anti-tumour activity compared with monotherapies
The agent	<ul style="list-style-type: none">– M7824 is a bifunctional fusion protein with dual function designed to simultaneously block the anti-PD-1 and anti-TGFβ pathways– Fully humanised protein immunoglobulin G1 (IgG1) mAb against human PD-L1 fused to the extracellular domain of human TGF-β receptor II, which functions as a TGF-β trap



M7824 is an investigational bifunctional immunotherapeutic that combines a TGF- β trap (yellow) with an antibody against PD-L1 (blue) in one fusion protein. Targeting both pathways with M7824 aims to control tumor growth by potentially restoring and enhancing anti-tumor responses.

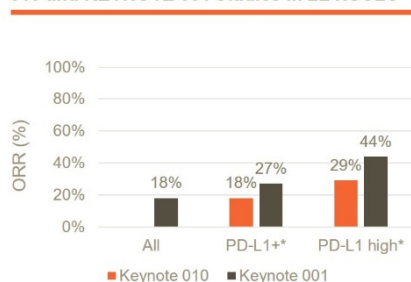
bintrafusp alfa (M7824)+



Encouraging clinical efficacy, pivotal study started in BTC

Non small cell lung cancer (NSCLC) 2L

Pembrolizumab response rates in KEYNOTE 010 and KEYNOTE 001 studies in 2L NSCLC



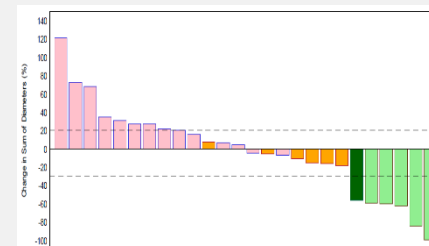
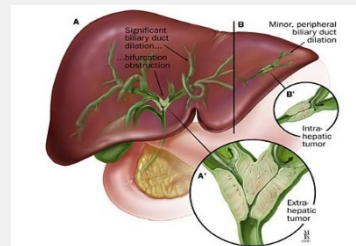
bintrafusp alfa response rates in 2L NSCLC



- Durable responses across all PD-L1 expression levels in 2L NSCLC

Efficacy according to independent read, RECIST 1.1

Biliary tract cancer (BTC) 2L



- Overall Response Rate (ORR) of 20%
- Median Overall Survival (mOS) of 12.7 months
- Benchmark
 - 2L Chemotherapy: 5-8% ORR and 7.2 months mOS[#]
 - Pembrolizumab: 5.8% ORR and 9.1 months mOS (Keynote-158)[^]

* PD-L1+ (pembro:22C3 TPS ≥ 1%; M7824: EMD001 ≥ 1%), PD-L1 high (pembro:22C3 TPS ≥ 50%; M7824: EMD 001 ≥ 80%; TPS ≥ 50% with 22C3 comparable to ≥ 80% with EMD 001 assessments)

[#] Alliance with Merck KGaA, Darmstadt, Germany; [^] Salati et al., ASCO 2019; [^] Ueno et al., ESMO 2018

Dostarlimab (PD-1 antagonist)



- Endometrial cancer is the most common gynecological cancer in the US
- GARNET is the largest study of anti-PD-1 monotherapy in patients with recurrent or advanced endometrial cancer
 - Data at SGO 2020 in patients with recurrent or advanced dMMR endometrial cancer
 - Overall response rate (ORR) of 42% and disease control rate (DCR) 58%, by RECIST v1.1*

Development strategy for use in:

2/3L

treatment in patients with advanced solid tumors (**GARNET**)



				Study start	Read-out
dMMR/MSI-H EC	pivotal	monotherapy n=75		2017	2H19
dMMR/MSI-H tumor agnostic	pivotal	monotherapy n=50		2018	2H20
MMRp/MSS EC	pivotal	monotherapy n=100		2017	2H19

BLA accepted,
Presented at SGO 2020

1L

Treatment (**RUBY**)



Endometrial cancer	pivotal	dMMR/MSI-H and MMRp/MSS patients	combo w chemo n=470	2H 2019	2021
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* As determined by NGS test

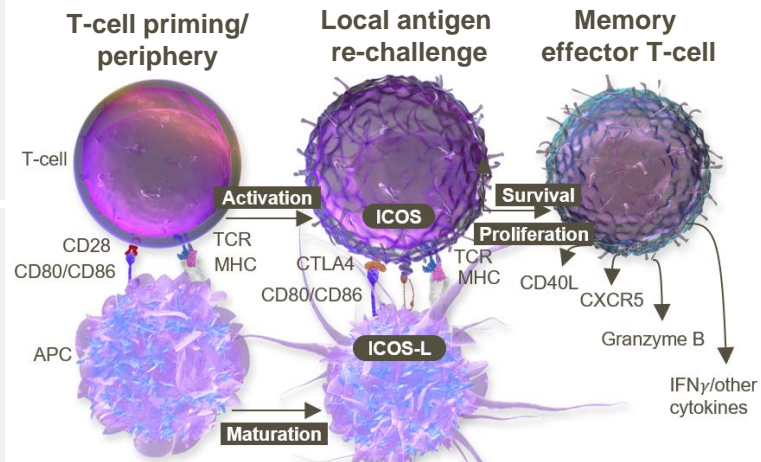
** Based on pooled data from studies that used either 200 mg every 3 weeks or 10 mg/kg every 2 weeks

GSK'609 ICOS receptor agonist



Differentiated MOA with encouraging clinical data at ESMO 2019

<p>Target</p>	<ul style="list-style-type: none"> • ICOS, a member of the CD28 family of co-stimulatory receptors, has a pivotal role in the proliferation, differentiation, survival, and function of T cells • Highly upregulated upon T-cell receptor stimulation¹ and is expressed on tumour infiltrating lymphocytes in many tumours² • Consistent with CTLA-4 and PD-1 blockade, ICOS agonism is anticipated to modulate T-cell dynamics resulting in prolonged control of tumour growth kinetics and survival in patients
<p>Agent</p>	<ul style="list-style-type: none"> • Humanised IgG4 antibody selected for its potent binding, agonist activity through the human ICOS receptor and low/no T-cell depleting effects via antibody-dependent cellular toxicity • Anti-tumour activity observed with an ICOS agonist is further enhanced in combination with CTLA-4 and PD-1 blockade in non-clinical models^{3,4} ICOS agonist treatment led to upregulation of PD-1/PDL-1 expression in these models³ • RNA-sequencing data shows strong correlation of ICOS and PD-L1 in solid tumours, further supporting clinical evaluation of this combination⁴
<p>Status</p>	<ul style="list-style-type: none"> • Clinical activity observed with both monotherapy and PD-1 combination; HNSCC data presented at ESMO September 2019 • INDUCE-3 and 4 gated Ph2/3 studies in HNSCC started end 2019 and mid 2020



APC, antigen-presenting cell; CXCR5, C-X-C motif chemokine receptor 5; ICOS-L, ICOS ligand; IFN- γ , interferon gamma; MHC, major histocompatibility complex

1. Hutmoff A, et al. Nature 1999;397:263-6. 2. Mayes P, et al. Nat Rev Drug Disc 2018;17:509-27. 3. Brett S, et al. ESMO 2018 poster presentation: Abstract 1840P.4. Yadavilli S, et al. AACR 2017 poster presentation: Abstract 1637/15

RRMM = Relapsed/ Refractory malignant melanoma; RR HNSCC = Relapsed/ Refractory Head and Neck Squamous Cell Carcinoma; NSCLC = non small cell lung cancer

GSK'609: progressing to advanced trials and novel combinations



Solid tumours

				Study start	Read-out
INDUCE-1	POC	Relapsed/refractory selected solid tumours	Open label dose escalation and expansion study of GSK'609 monotherapy and combination with pembrolizumab n= >500	2016	NA

HNSCC

recurrent or metastatic

INDUCE-2	POC	Relapsed/ refractory HNSCC	Open label dose escalation and expansion study of GSK'609 in combination with tremelimumab N=114	Dec'18	2021
INDUCE-3	Ph2/3 gated	1L PD-1 positive recurrent or metastatic HNSCC	Randomised, double blind, adaptive study of GSK'609 in combination with pembrolizumab vs placebo. N=600	Dec'19	2023
INDUCE-4	Ph2/3 gated	1L PD-L1 total population recurrent or metastatic HNSCC	Randomised, double blind, adaptive study of GSK'609 in combination with pembrolizumab and CT vs placebo (+pembro+CT) N=640	Aug'20	2024

55k
patients*

NSCLC

relapsed/ refractory advanced

ENTRÉE	platform	Relapsed/ refractory NSCLC	Open label platform study of novel regimens of GSK'609 mono and combo versus SoC n=105	Jan'19	2021
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130k
patients*

* Drug-treated patients. Source: Kantar Patient Matrix for US, EU5 and Japan in 2019, September 2019

POC = proof of concept; HNSCC = head and neck squamous cell carcinoma; SoC = standard of care; NSCLC = non small cell lung cancer



Other Pipeline

Progressing our innovative new medicines



Building momentum with impactful programmes across the portfolio

GSK '836 in chronic Hepatitis B

- Programme in-licensed from Ionis Pharmaceuticals in Q3 2019
- Ph2a data presented at AASLD (Nov)¹
- HBsAg reduction seen in HBeAg positive and negative patients with 300mg dose

Ph2b study started

GSK '609 ICOS agonist in HNSCC

- Demonstrated activity in both monotherapy and PD-1 combo
- Ph 2/3 gated studies INDUCE-3 and INDUCE-4 in HNSCC initiated
- Design allows progression to pivotal if interim analysis positive

Further POC data expected 2021

gepotidacin in uUTIs and gonorrhoea

- uUTI and GC not addressed by new oral antibiotics in 20 years
- ~40% of uUTI patients have antibiotic resistance infections²
- Emerging resistance to 1st line therapy for gonorrhoea^{3,4,5}
- Ph3 programme initiated to investigate gepo vs. ceftriaxone + azithromycin (GC) and gepo vs. nitrofurantoin (uUTI)

Ph3 results expected 1H 2022

daprodustat in anaemia

- Futility analysis performed Dec 2019 on CV outcome studies, which are continuing without modification
- Approved in Japan for anaemia due to chronic kidney disease

CVOT data expected 2H 2021

uUTIs = uncomplicated urinary tract infections; GC = urogenital gonorrhoea; HNSCC = head and neck squamous cell carcinoma; POC = proof of concept; PMDA = Pharmaceuticals and Medicines Device Agency

1. Yuen MF et al. Phase 2a, randomized, double-blind, placebo-controlled study of an antisense inhibitor (ISIS 505358) in treatment-naive chronic hepatitis B (CHB) patients: safety and antiviral efficacy. Poster presented at AASLD, The Liver Meeting, November 8-12, 2019, Boston.

2. World Health Organization STD Fact Sheet 2016: [https://www.who.int/en/news-room/fact-sheets/detail/sexually-transmitted-infections-\(stis\)](https://www.who.int/en/news-room/fact-sheets/detail/sexually-transmitted-infections-(stis))

3. Workowski KA, Berman SM, Douglas Jr. JM. Emerging antimicrobial resistance in Neisseria gonorrhoeae: urgent need to strengthen prevention strategies. *Ann Intern Med.* 2008;148(8):606-13

4. Antibiotic Resistance Threats in the United States. US CDC <https://www.cdc.gov/drugresistance/biggest-threats.html>

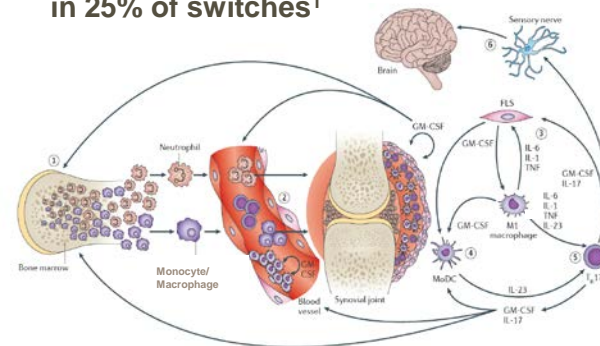
5. GSK US physician market research, 2019

GSK'165 (aGM-CSF): potential for a disease modifying effect in rheumatoid arthritis (RA) with a unique impact on pain



<p>The target</p>	<ul style="list-style-type: none"> GM-CSF is a pro-inflammatory cytokine that induces differentiation and proliferation of granulocytes and macrophages One of the first cytokines detected in human synovial fluid from inflamed joints Preclinical data suggests a broader range of actions than existing biologics (including a beneficial effect on pain)
<p>The agent</p>	<ul style="list-style-type: none"> GSK'165 is a fully humanised antibody targeting anti-granulocyte macrophage colony-stimulating factor (aGM-CSF)
<p>Current status</p>	<ul style="list-style-type: none"> Phase III started for RA in July 2019 Exploration of additional indications beyond RA

- **Unmet need remains in RA despite development of new classes of agent (JAK inhibitors, anti IL6):** ~50% of patients do not achieve low disease activity criteria within 12 months of aTNF treatment and ~80% do not achieve Disease Activity Score 28 (DAS28)¹
- **Currently 45% of patients report daily pain despite treatment with targeted therapies and pain is the key driver in 25% of switches¹**

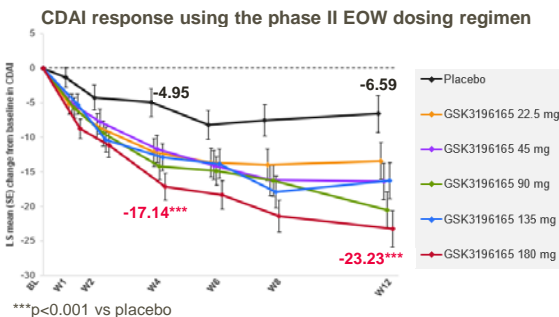


¹ Targeting GM-CSF in inflammatory diseases. Ian P. Wicks & Andrew W. Roberts. Nature Reviews Rheumatology volume 12, pages 37–48 (2016)

GSK'165 (GM-CSF antagonist): phase III programme in rheumatoid arthritis started in July 2019



Encouraging Ph II data presented at ACR October 2018 demonstrating marked clinical response

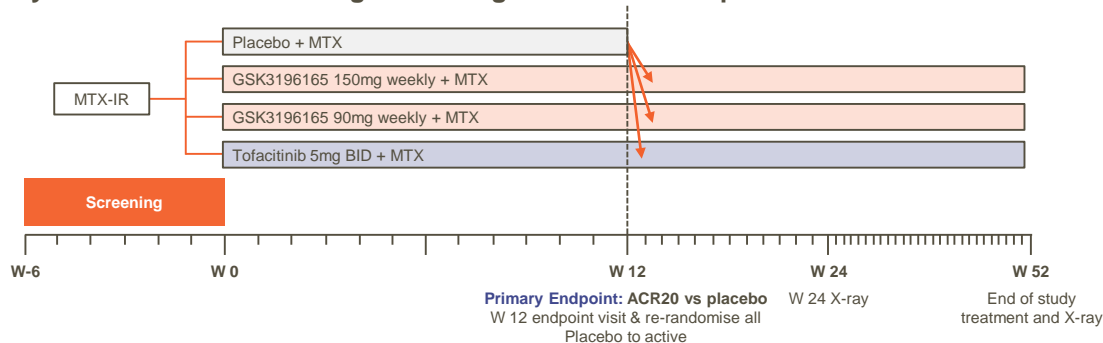


Significant unmet need remains in RA

- Around 50% of patients do not achieve low disease activity criteria within 12 months of aTNF treatment¹
- 45% of patients report daily pain and pain is the key driver in 25% of switches to biological and oral therapies²

Three pivotal studies ongoing

Study 201790: Innovative design including JAKi active comparator



Primary endpoint	ACR20 vs placebo at W 12
Key secondaries include	Pain and CDAI vs active comparator
Target population	Post first line targeted therapy
Administration	Weekly via a subcutaneous injection with a choice of autoinjector or prefilled syringe
Two further pivotal studies of similar design will include biologic-IR patients	210791 52 week duration with tofacitinib active comparator
	202018 24 week duration with sarilumab active comparator

Gepotidacin: a first in class novel oral antibiotic



Potential to transform treatment landscape for patients with limited therapeutic options

uUTIs: common health problem with need for new options for resistant infections

Over 50% of all women develop at least one UTI in their lifetime and >24% experience recurrent UTIs¹

10.5m office visits for UTI symptoms and ~11m prescriptions annually in the US^{2,3}

Current treatment options are established generic antibiotics but increasing antimicrobial resistance (AMR) drives need for alternatives to current antibiotics

Gepotidacin:

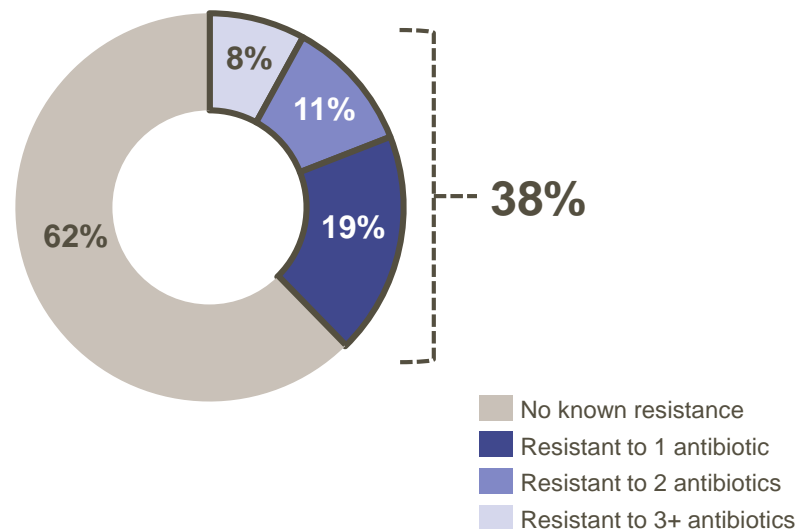
- Novel mechanism of action; Active against most antibiotic resistant bacteria
- Twice daily, oral dosing, short course (5 days uUTI, 1 day GC)
- 650 subjects have received gepotidacin to date
- Majority AEs mild-to-moderate & do not lead to discontinuations

Phase 3 studies initiated for uUTIs and urogenital gonorrhoea; results expected 1H 2022 (for uUTI, interim analysis)

uUTIs - uncomplicated Urinary Tract Infections GC – urogenital gonorrhoea

1. Foxman, B. Epidemiology of urinary tract infections: incidence, morbidity, and economic costs. *The American Journal of Medicine*. 2002; 113(1):5-13
2. Flores-Mireles AL, et al. Urinary tract infections: epidemiology, mechanisms of infection and treatment options. *Nat Rev Microbiol*. 2015;13(5):269-284
3. Foxman, B, et al.. Urinary tract infection: self-reported incidence and associated costs. *Ann Epidemiol*. 2000; 10: 509-515

Market research shows ~40% of uUTI patients have infections with antibiotic resistance⁴



4. GSK US physician market research, 2019

Vaccines

Our Vaccines business has a broad portfolio and innovative pipeline of vaccines to help protect people throughout life. We deliver over two million vaccine doses per day to people living in over 160 countries.

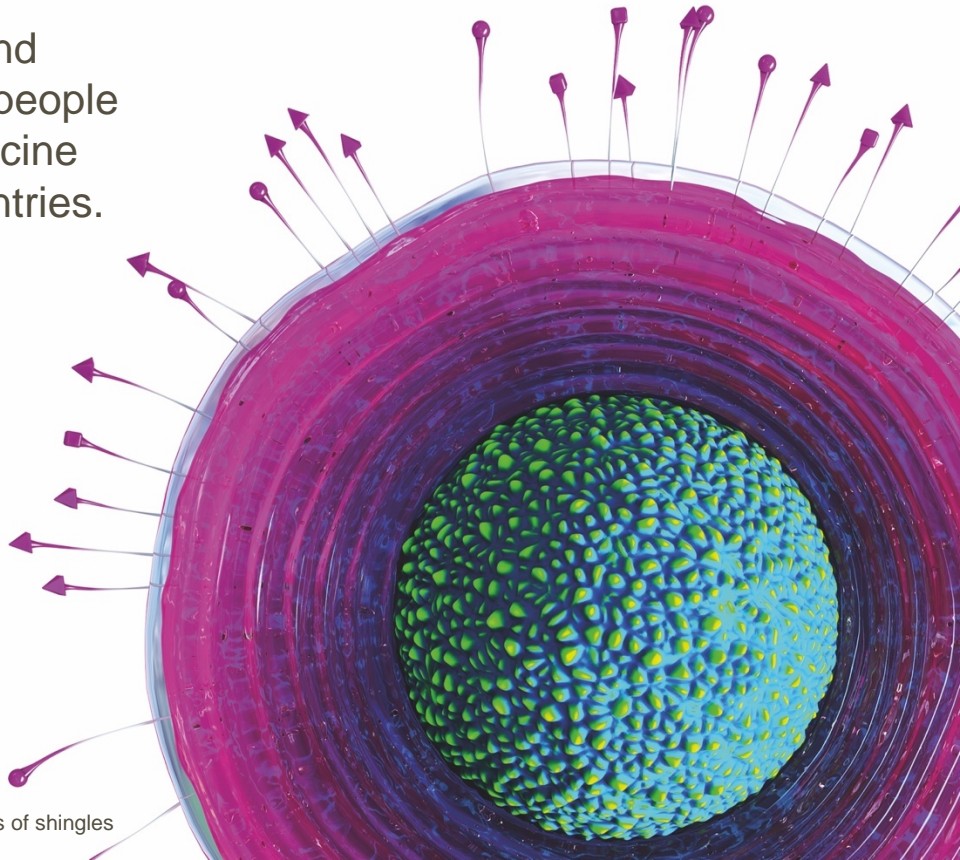
£7.2bn, +19% CER

Sales turnover 2019

Key Products

<i>Shingrix</i>	Shingles
<i>Infanrix/Pediarix</i>	Paediatric
<i>Bexsero, Menveo</i>	Meningitis

Herpes zoster virus of shingles



Attractive market dynamics



Expanding and durable market



Attractive demographics

Growing and ageing population
Increasing vaccination rates

Long product lifecycles

No 'patent cliffs'

Barriers to entry



Large initial capital investment

Limited number of global players

Long development lead times

Could take up to 10-20 years to bring to market;
Returns on investments take time

Complex manufacturing

>100 quality checks for each vaccine

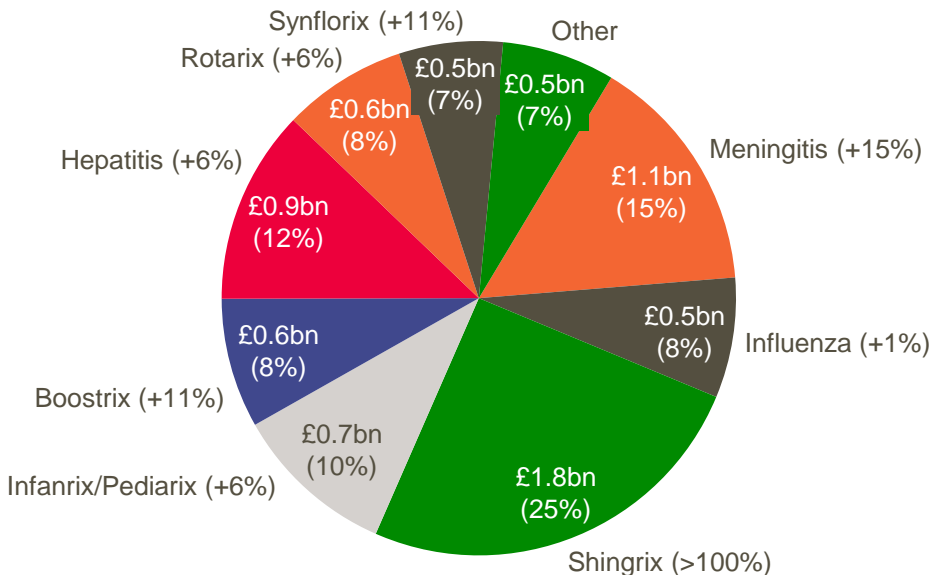
Steady forecast growth with potential for pharma-like operating margins and cash conversion

Vaccines: revenue breakdown 2019

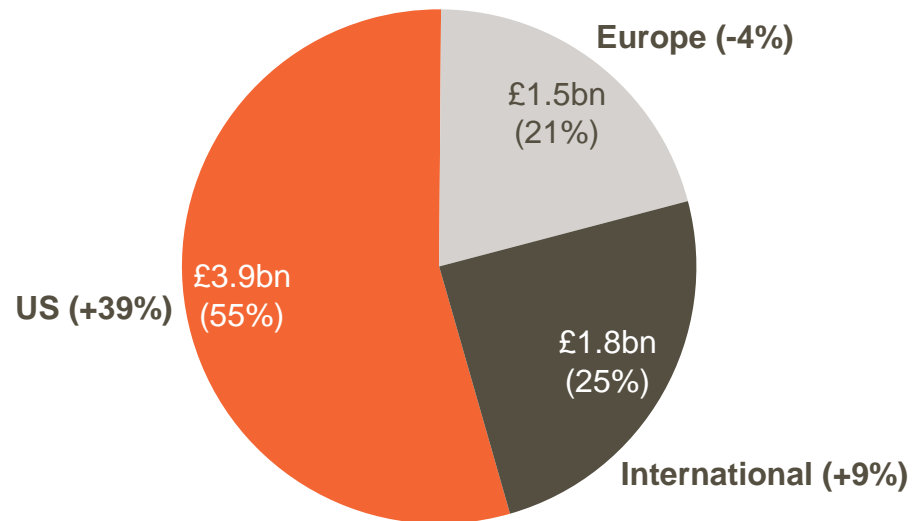


Revenues of £7.2bn (+19% CER)

Products



Regions



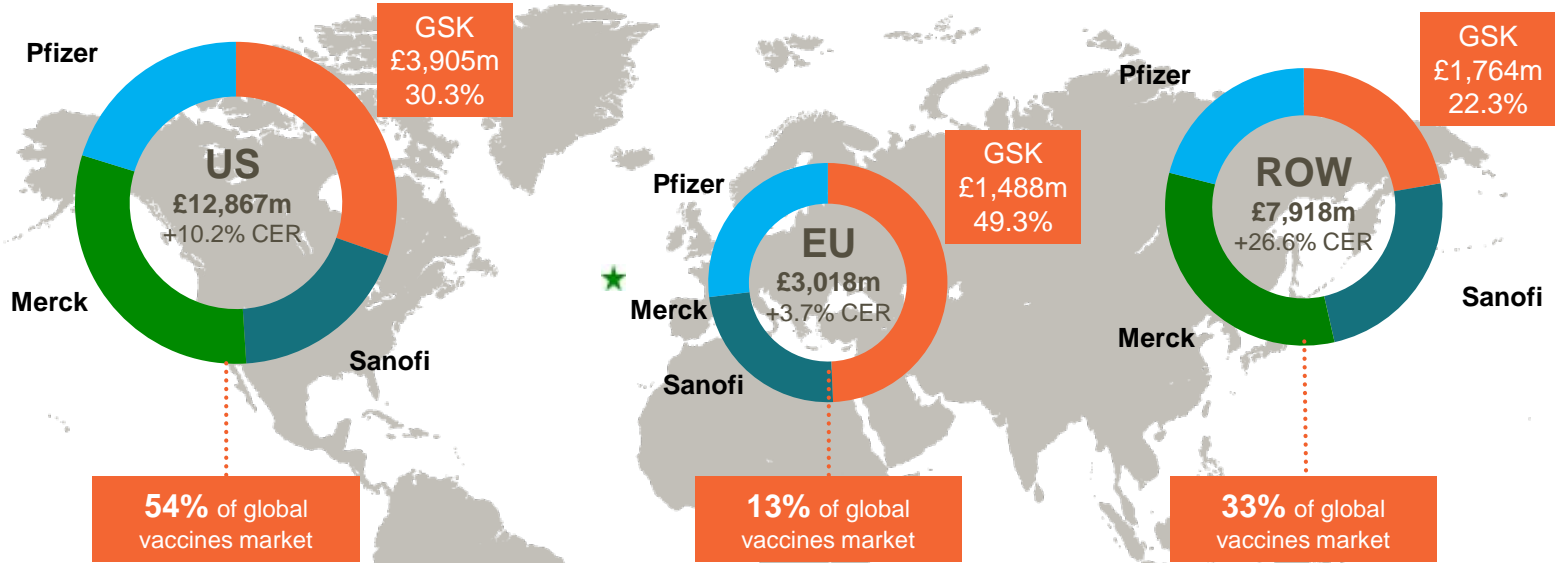
Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Breakdown percentages are approximate

GSK Vaccines is well positioned in US, EU and ROW



2019 Vaccines sales for top four companies



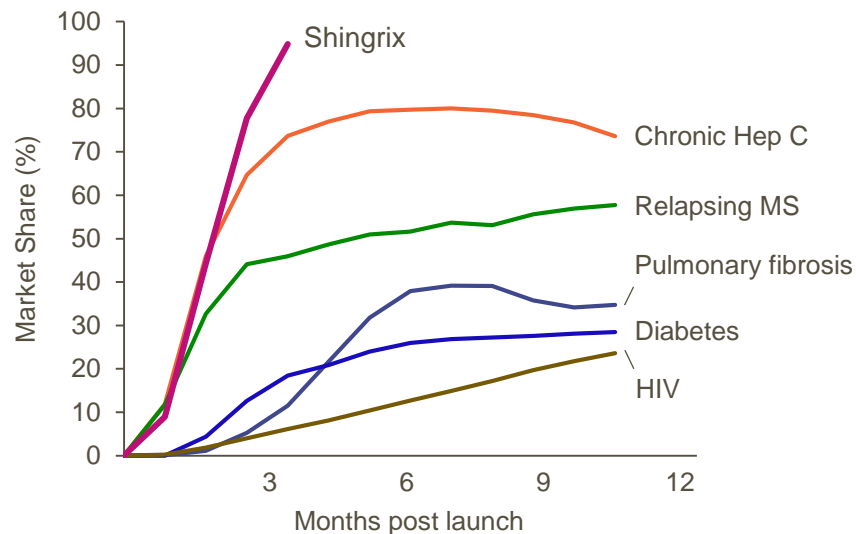
GSK has highest global market share by value of the big 4 vaccines companies with 30.1%

★ Data from company filings. Merck does not report on EU region – all sales included in ROW

Shingrix: US launch driving market expansion



Share uptake superior to recent benchmarked biopharma launches



Source: Internal calculations by GSK using IQVIA database.

Significant US opportunity remains

Received at least first dose of Shingrix



Potential revaccination population



Adults 50+ that receive vaccinations



Population 50+



1. Estimated based on IQVIA TRxs launch through end of Dec 2019.
2. US Census & CDC reported immunisation rate.
3. US Census & IQVIA Patient Data Analysis (Estimated % of adults who have received vaccinations when 50+).
4. US Census.

Bexsero: leading the market in Meningitis B



Invasive Meningococcal B disease

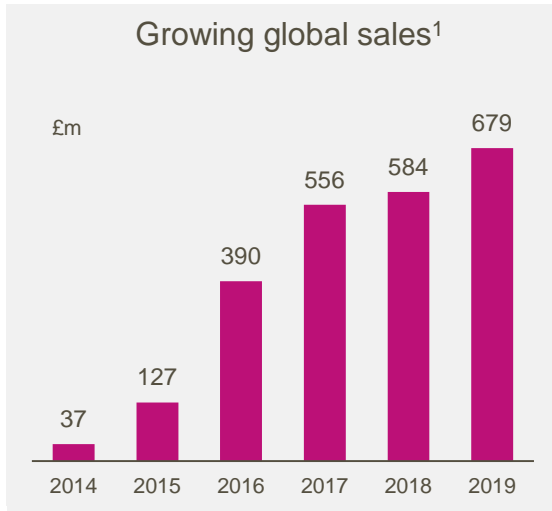
Incidence and serotype distribution varies by region; most common serogroup is Men B

Affects healthy infants, children and teens

Invasive Men B mortality rate: ~10%

Dramatic health impact: rapid disease progression, up to 20% of those who survive may suffer major physical or neurological disability

Sales growth driven by global demand and US share gains



Launched in 35 markets

EU: Strong competitive differentiation with infant indication: incidence in infants >10x that in adolescents (competing product indicated for adolescent use only)

US: 72% market share of fast growing MenB market²; infant indication studies ongoing

1. 2014 and 2015 figures represent 12 month pro forma sales (unaudited).

2. US Men B market grew +22% in 2019.

Established vaccines and flu: durable assets provide portfolio backbone



Strategic lifecycle management enables a durable, cash generative portfolio

Hepatitis franchise

£874m in 2019

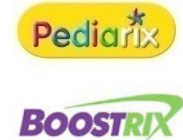
- Supply agility created opportunities
- Engerix-B approved in US in 1989



DTP franchise¹

£1,317m in 2019

- Hexa competition in Europe; expected in US
- Boostrix 65+ age expansion approved in US in 2011



Flu franchise

£541m in 2019

- First approval in US in 2005
- Highly seasonal
- GSK: ~46m US doses in 2019/20



Rotavirus

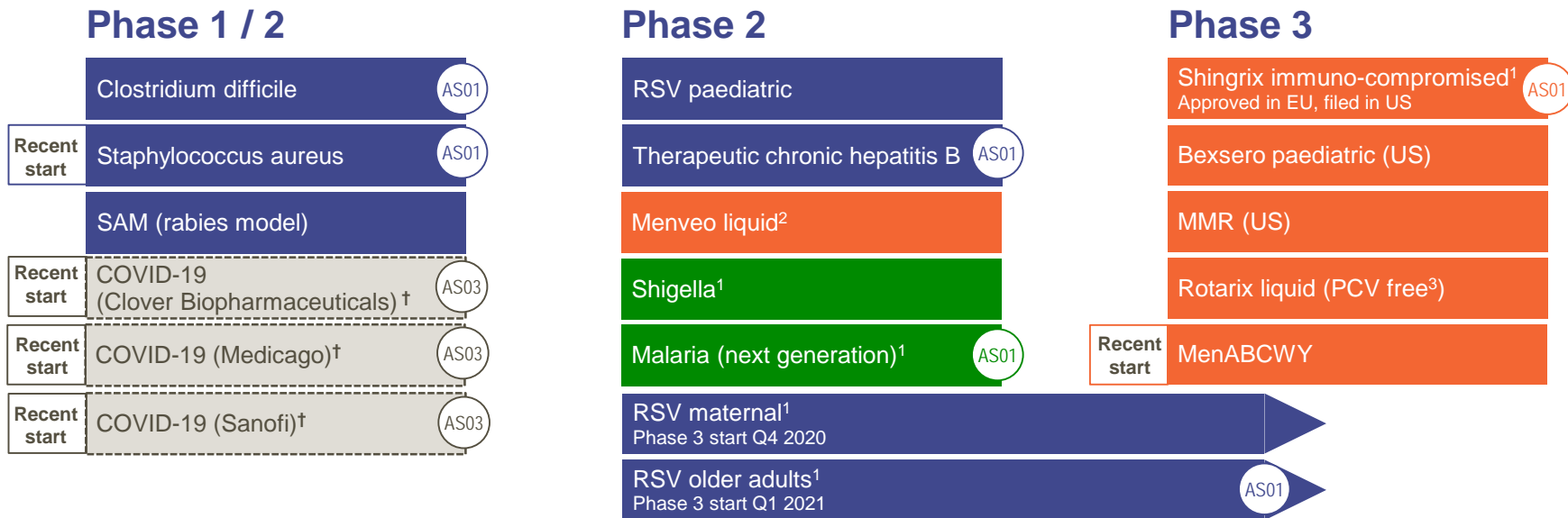
£558m in 2019

- Available in 115 markets
- 2 dose differentiation
- Pursuing PCV-free² liquid formulation for the US



1. Diphtheria, tetanus, pertussis.
2. Porcine circovirus free formulation.

GSK Vaccines pipeline



¹ In-license or other alliance relationship with third party

² Menveo booster also in development

³ Porcine circovirus free formulation

†GSK is contributing pandemic adjuvant to COVID-19 vaccines collaborations

Note: Candidates using adjuvants are designated

Our RSV assets offer a compelling opportunity for GSK



Opportunity is significant

Data support move to pivotal studies



Older adults

- Potential first-in-class with differentiated adjuvant
- 70m adults age 60+ in the US¹; >300m in developed regions²
- ~2/3 of older adults in US receive flu or pneumococcal vaccines²

- Compelling neutralising antibodies response and T-cell restoration in older adults; well tolerated
- Phase 3 start on track for Q1 2021; initial data expected in H2 2022*



Pregnant women

- Protect infants from birth up to 6 months of life
- Potential to expand portfolio of other recommended vaccines for pregnant women
- 4m birth cohort in US³; globally >130m⁴
- ~50% of pregnant women in US receive flu and/or pertussis vaccines⁵

- Immunogenic response; good safety profile
- Data in pregnant women in-house and supportive of advancement
- Maternal phase 3 to start Q4 2020; initial data expected in H2 2022*

1. US Census: <https://www.census.gov/data/tables/2018/demo/age-and-sex/2018-older-population.html>;
2. CDC: <https://www.cdc.gov/nchs/products/databriefs/db281.htm>; 3. CDC: <https://www.cdc.gov/nchs/nvss/births.htm>;
4. United Nations World Population Prospects 2019, 5. CDC: <https://www.cdc.gov/vitalsigns/maternal-vaccines/index.html>

*Timing dependent on RSV infection circulation during pandemic lockdowns.

Consumer Healthcare

Our Consumer Healthcare business develops and markets an innovative portfolio of consumer preferred and expert recommended brands in the Oral health, Pain relief, Respiratory, Skin health, Nutrition and Digestive categories.

£9.0bn, +17% CER

Sales turnover 2019

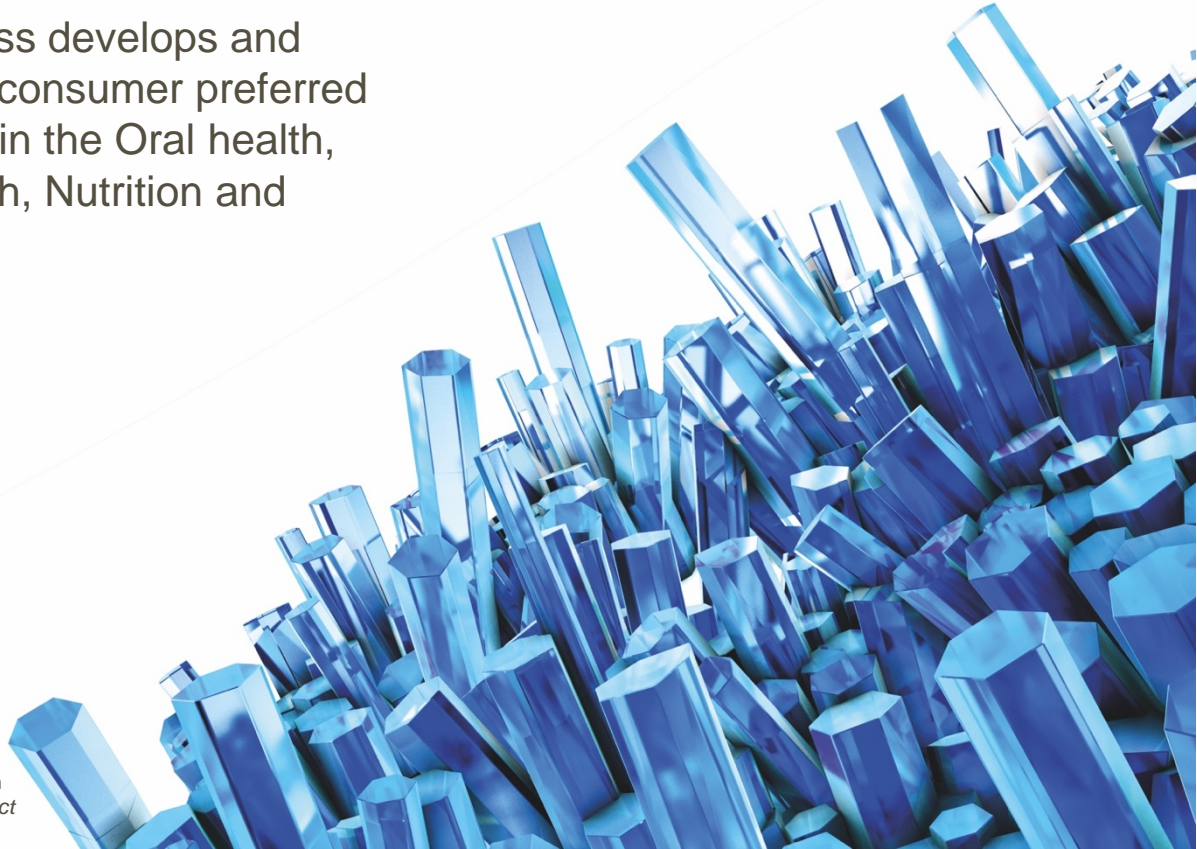
Key brands

Sensodyne Oral health

Voltaren Pain relief

Centrum Vitamins

Novamin, a key technology in
Sensodyne Repair and Protect



Integration update

Successful to date and firmly on track



Key milestones

- 96% of PCH sales on our book with one system
- 71 systems cutovers in the last 7 months
- 87% of co-locations complete
- 39 out of 41 warehouses closed
- Future market cutovers, employee transfers, and local legal closes on track

Synergies

- £500m 2022 annual synergy target remains on track, with 40% total in 2020, c.80% in 2021 and full amount in 2022
- Continue to expect up to 25% to be reinvested
- Margin guidance maintained
- Separation program on track

Divestment

- Transactions signed to meet £1 billion proceeds target¹
- Divested more than 50 growth dilutive brands
- Rationalisation and strengthening of existing portfolio

¹ As of date of Q3 2020 results

World class portfolio with category leading positions



Top 4 categories, additionally #1 positions in Digestive Health and Smoker's health¹



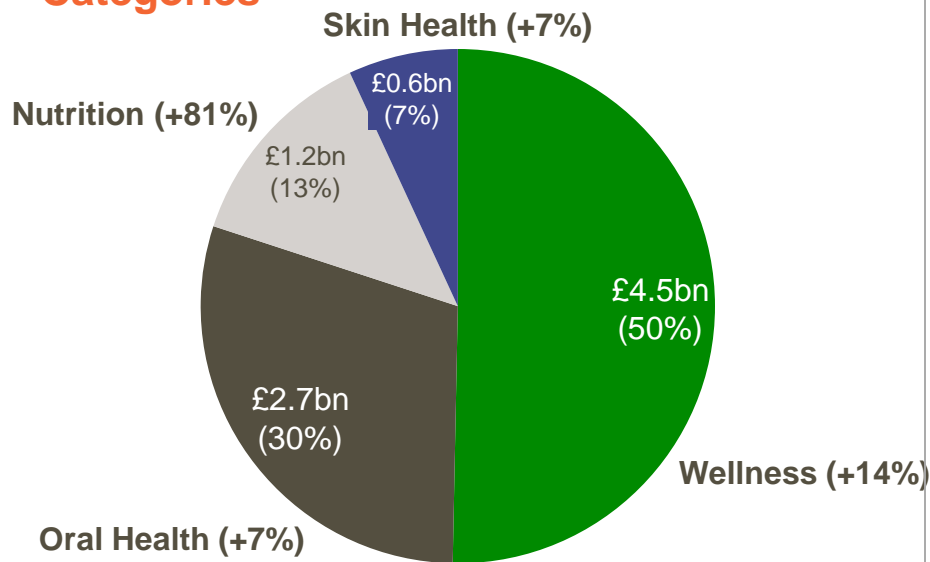
¹ All categories ex Therapeutic Oral Health based on Nicholas Hall© DB6 Consumer Healthcare Database FY2019, Therapeutic Oral Health is based on Nielsen and IRI data

Consumer Healthcare: revenue breakdown 2019

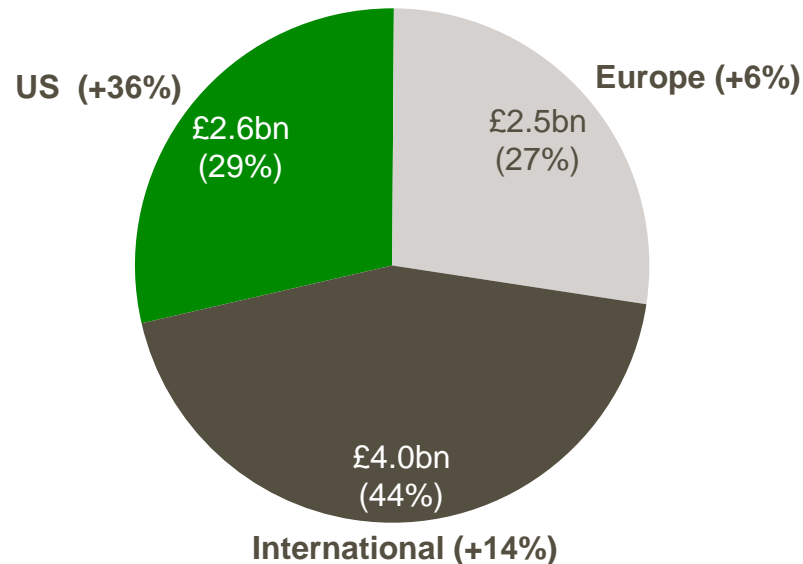


Revenues of £9.0bn (+17% CER, +2% Pro-forma), including 5 months of Pfizer sales

Categories



Regions

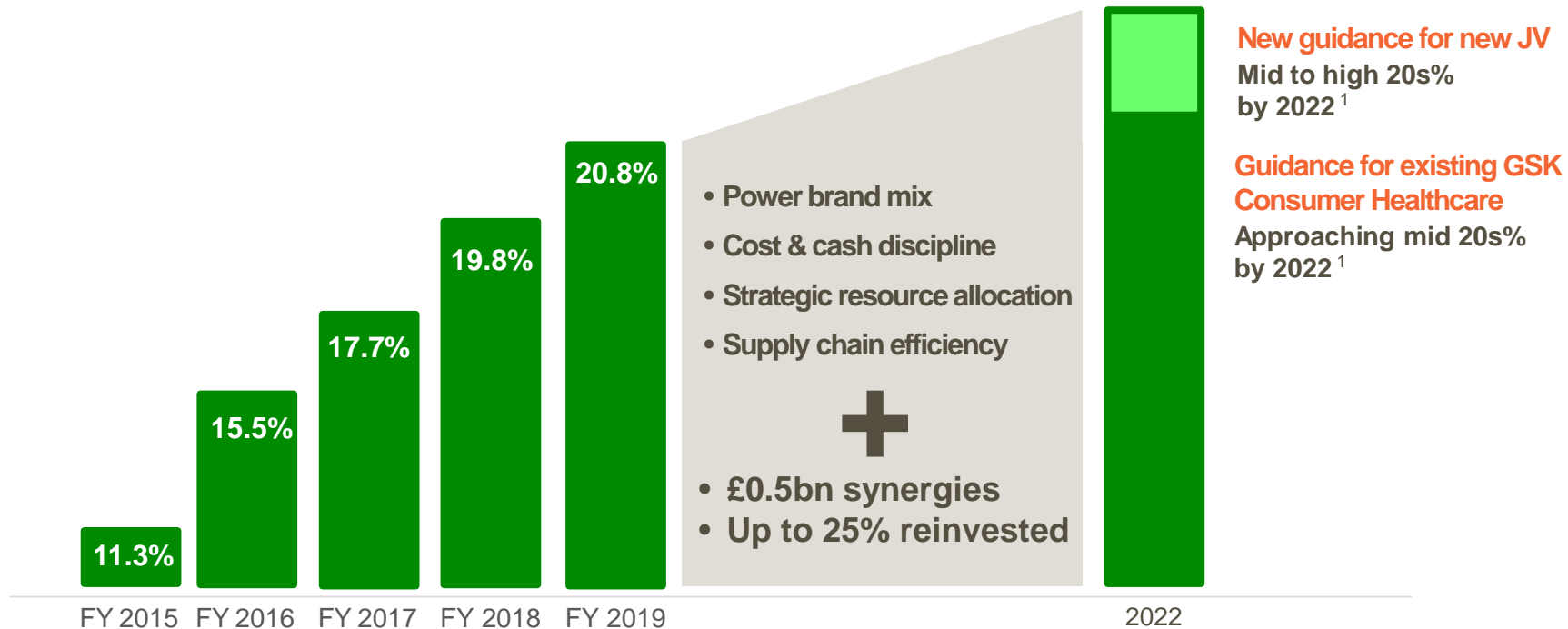


Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Breakdown percentages are approximate

CER growth rates include five months' results of former Pfizer consumer healthcare business. Pro-forma CER growth rates are calculated as if the equivalent five months of Pfizer consumer healthcare business results, as reported by Pfizer, were included in the comparative period of 2018.

Deliver an industry leading margin



¹At 2017 constant exchange rates. Expected 20%+ operating margin by 2020 at 2015 constant exchange rates. Historical margins shown for the GSK Consumer Healthcare segment are at respective actual rates

Enhances financial flexibility and investment capacity

Presents a clear pathway forward for GSK

Creates a new leading biopharma company
and

New leading Consumer Healthcare company

Each with a balance sheet and capital structure appropriate to its requirements

New consumer healthcare company

Targeting investment grade balance sheet

Leverage of 3.5-4.0x net debt/Adjusted EBITDA at point of separation

Target payout ratio in the range of 30-50% of Adjusted earnings



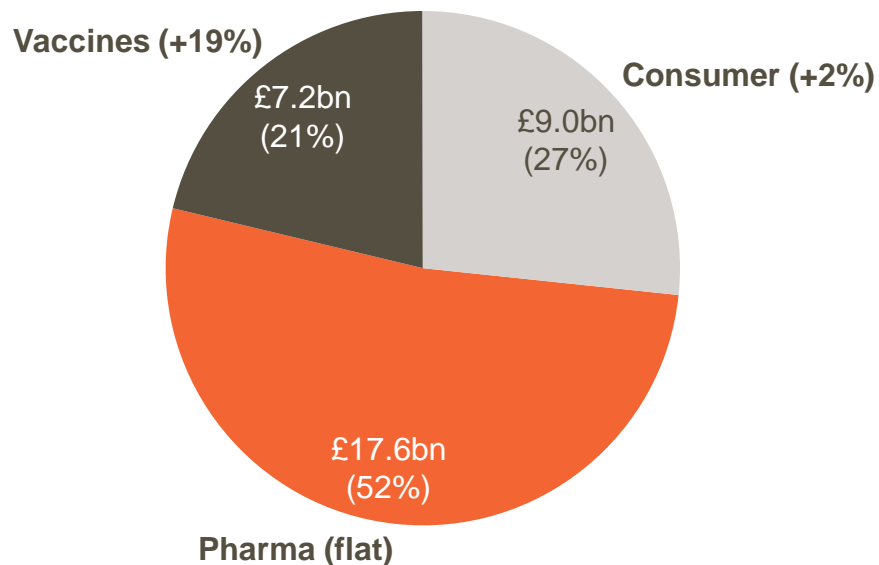
Financials

Group: revenue breakdown 2019

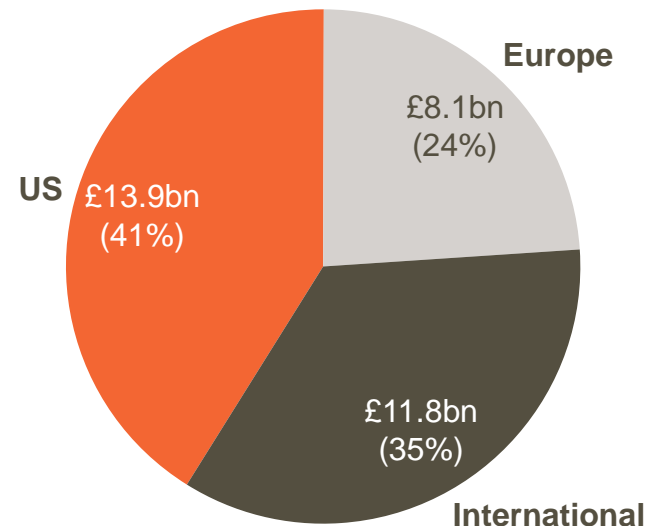


Revenues of £33.8bn (+8% CER)

Business Units



Regions



Source: GSK Full year 2019 results release – February 2020

All growths at constant exchange rates (CER). Breakdown percentages are approximate

Pharma & Consumer performance on track

Sustained recovery in adult vaccination rates

Delivering Integration & Restructuring programmes

Disciplined focus on cost management



FY 2020 guidance

Adjusted EPS

Down 1 to 4% CER

**Tracking to lower end
of range**

Dividend policy



Expect to rebuild dividend cover over time

We will distribute regular dividend payments determined primarily with reference to free cash flow generated after meeting investment requirements

2019

We paid 80p dividend per share

2020

The Board currently intends to maintain the dividend for 2020 at the current level of 80p per share, subject to any material change in the external environment or performance expectations

**Free cash
flow cover**

Focus on rebuilding free cash flow cover over time
Target 1.25x to 1.5x FCF cover before returning to dividend growth

2019 currency sales exposure

US \$	41 %
Euro €	18 %
Japanese ¥	6 %
Other*	35 %

- The other currencies that each represent more than 1% of Group sales are: Australian Dollar, Brazilian Real, Canadian Dollar, Chinese Yuan, Indian Rupee, Russian Rouble.
- In total they accounted for 13% of Group revenues in 2019.

2020 Adjusted EPS ready reckoner

US \$

10 cents movement in average exchange rate for full year impacts Adjusted EPS by approx. +/- 5.5%

Euro €

10 cents movement in average exchange rate for full year impacts Adjusted EPS by approx. +/- 1.5%

Japanese ¥

10 Yen movement in average exchange rate for full year impacts Adjusted EPS by approx. +/- 1.0%

If exchange rates were to hold at the closing rates on 31 March 2020 (\$1.24/£1, €1.13/£1 and Yen 134/£1) for the rest of 2020, the estimated impact on 2020 Sterling turnover growth would be around flat and if exchange gains or losses were recognised at the same level as in 2019, the estimated impact on 2020 Sterling Adjusted EPS growth would also be around flat

Expected costs and savings under Major Restructuring Programmes



Date Announced	£bn 2019 Average Rates	Cumulative Actuals to 2018	2019	2020	2021	2022	2023	
			Actuals	Projected ¹				
Combined Integration & Restructuring Programme ³	2015	Savings ²	3.9	4.2	4.3			
		Total charges	5.2	0.1	0.1			
		Cash payments	3.6	0.3	0.1			
2018 Restructuring Programme (incl. Tesaro)	Q2'18	Savings ²		0.2	0.4	0.5		
		Total charges	0.4	0.8	0.4	0.2		
		Cash payments	0.0	0.2	0.3	0.2	0.1	
Consumer JV	Dec-18	Synergies ²			0.2	0.4	0.5	
		Total charges		0.3	0.5	0.1	0.1	
		Cash payments		0.2	0.4	0.1	0.0	
Separation Preparation Programme ⁴	Feb-20	Savings ²			0.1	0.3	0.7	0.8
		Total charges			0.9	0.9	0.6	0.0
		Cash payments			0.5	0.7	0.4	0.0

¹ All expectations and targets regarding future performance should be read together with the "Outlook assumptions and cautionary statement" sections of the Fourth Quarter 2019 Results Announcement and the cautionary statement slide included with this presentation.

² Savings and synergies shown are cumulative for the programme to date throughout the table

³ The Combined Integration and Restructuring programme is substantially complete, therefore GSK will cease external reporting of total costs and benefits for this programme from 2020 onward.

⁴ Does not include additional one-time costs to prepare Consumer Healthcare for separation, estimated at £600-700m, excluding transaction costs

Preparing for 2 new companies



2-year
separation
programme

New GSK

Common approach to R&D and capital allocation

Capabilities and efficiencies in support functions

Leaner organisation, leveraging recent and ongoing technology investments, consistent operating models and location strategy

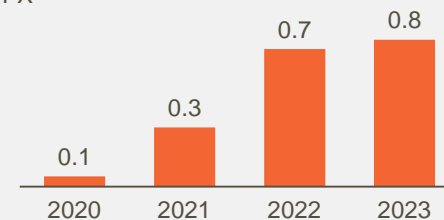
Optimise supply chain and product portfolio including through non-core divestments

25% manufacturing footprint reduction since 2017 – maintain momentum, competitive network fitting portfolio by 2022

Non-core divestment proceeds to fund cash costs of programme and delivering New GSK

Major restructuring savings and costs

£ bn, 2019 FX



Cash	0.6	0.6	0.4	0.0
Non-cash	0.3	0.3	0.2	0.0
Total	0.9	0.9	0.6	0.0

New Consumer Healthcare

Build technology infrastructure and corporate functions required to operate as a standalone company

Estimated one-time charge of £600-700m with the majority incurred prior to separation

No change to Adjusted operating margin outlook of mid-to-high 20s by 2022 for Consumer Healthcare



Latest Financials

Q3 performance



Pharma and Consumer growth drivers and cost control offset pandemic impacts

Pharmaceuticals -3% CER

New & Specialty Pharma +12%*
Respiratory products +26%**
HIV flat; 2DRs £222m, +94%
Benlysta +13%; Oncology £99m, +58%

Vaccines -9% CER

Shingrix £374m, -25%
Meningitis +1%
Influenza +21%

Consumer Healthcare +2% CER

Pro forma -6%, (+3% excluding brands divested or under review)
Gaining share overall and with power brands;
VMS +18%, Oral Health +5%

**Group sales -3%,
pro forma -5%**

**30.8% Adjusted
operating margin;
+2.4 pp pro forma**

**Total EPS
25.0p, -9%;
Adjusted EPS
35.6p, +1%**

FCF £2.3 billion YTD

All growth rates and margin changes at CER. VMS: vitamins, minerals and supplements

The definitions for non-IFRS measures are set out on pages 10, 11 and 62 of our Third Quarter 2020 earnings release, and reconciliations are set out on pages 23 and 62.

* New & Specialty Pharma comprises Pharmaceuticals excluding Established Pharmaceuticals ** Respiratory comprises the Ellipta portfolio and Nucalea

Headline results



	Q3 2020			YTD 2020		
	£m	Reported %		£m	Reported %	
		AER	CER		AER	CER
Turnover	8,646	(8)	(3)	25,360	2	4
Total operating profit	1,858	(13)	(2)	6,722	33	37
Total EPS	25.0p	(20)	(9)	102.0p	51	55
Adjusted operating profit	2,665	(4)	4	7,089	-	3
Adjusted EPS	35.6p	(8)	1	92.6p	(7)	(4)
Free cash flow	(180)	>(100)	n/a	2,300	(7)	n/a

Results reconciliation



Q3 2020

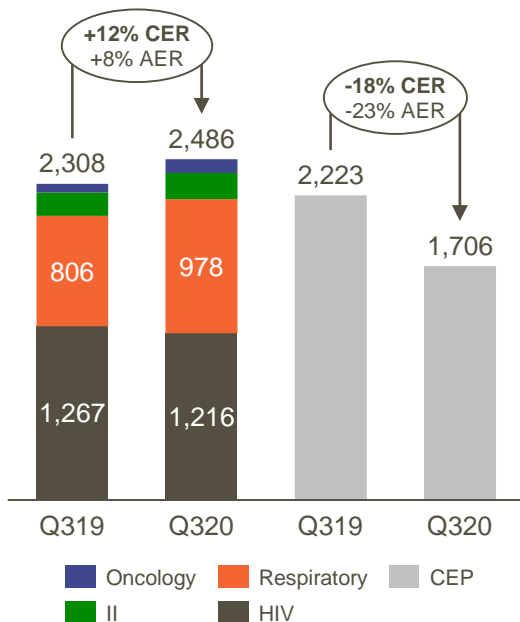
	Total results	Intangible amortisation	Intangible impairment	Major restructuring	Transaction related	Disposals, significant legal and other	Separation costs	Adjusted results
Turnover (£bn)	8.6							8.6
Operating profit (£bn)	1.9	0.2	0.1	0.3	0.4	(0.2)	<0.1	2.7
EPS (pence)	25.0	3.1	1.0	5.0	4.3	(3.2)	0.4	35.6
Q3 19 EPS (pence)	31.4	3.4	0.4	3.4	5.7	(5.7)	n/a	38.6

Q3 2020

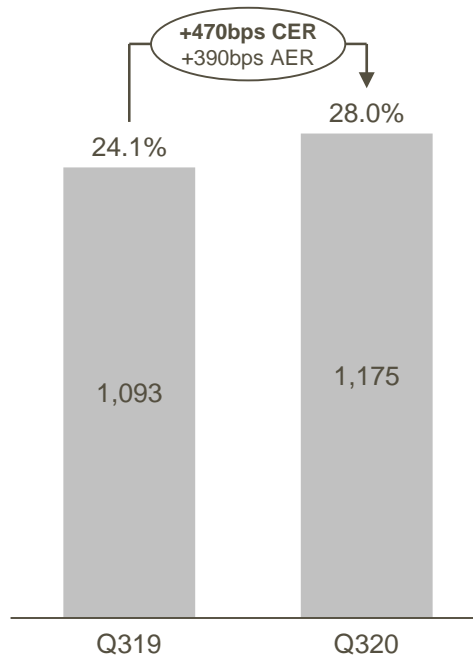
Sales

All figures £m

Q3 2020 Total : £4,192m: -3% CER; -7% AER



Operating margin



Sales

- (+) New launches: Trelegy, Nucala, Dovato, Juluca, Zejula
- (+) Sustained Benlysta growth
- (-) Impact of generics on Established products
- (-) Pandemic-related lower demand for antibiotics

Operating profit

- (+) Product mix
- (+) Favourable 2019 one-offs comparison
- (+) Tight control of costs
- (-) Investment in new product support and targeted R&D

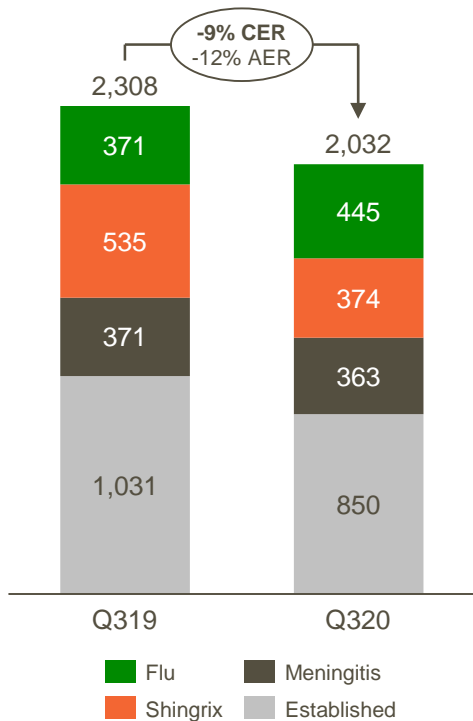
Vaccines



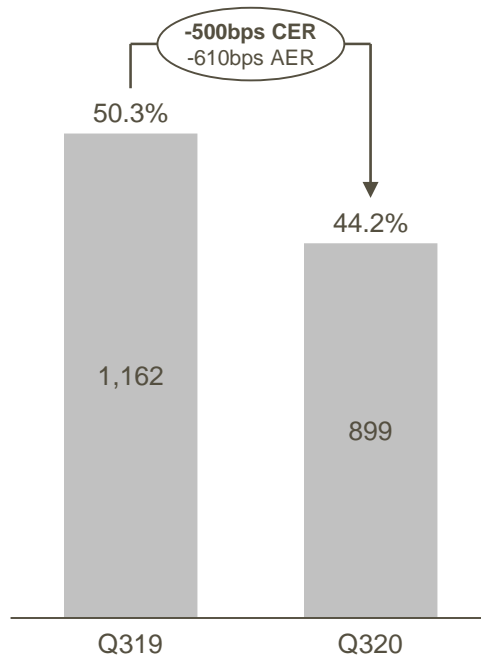
Q3 2020

Sales

All figures £m



Operating margin



Sales

- ⊖ Pandemic environment impact
- ⊕ Flu sales execution

Operating profit

- ⊖ Operating leverage from pandemic-related sales decline
- ⊖ Key brand investment

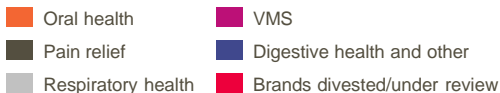
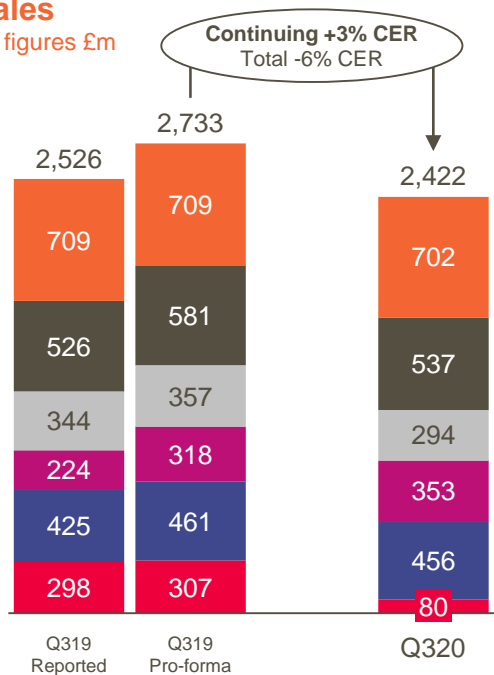
Consumer Healthcare



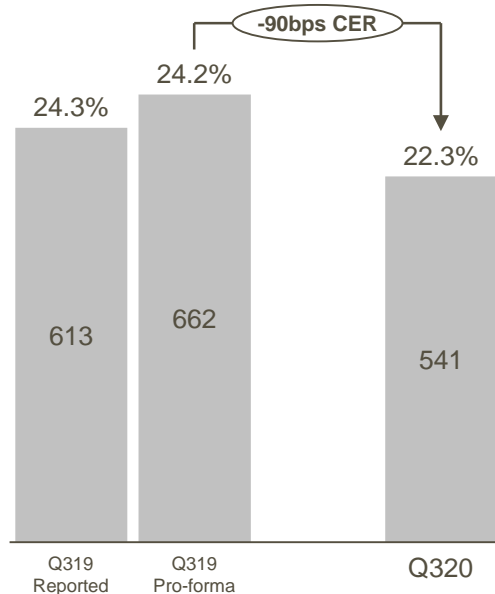
Q3 2020

Sales

All figures £m



Operating margin



Sales

- ⊕ VMS consumer usage
- ⊕ Sensodyne strength
- ⊕ Voltaren OTC switch in US
- ⊖ Reversal of Q2 stocking following systems cutover
- ⊖ Impact of divested brands

Operating profit

- ⊕ Synergy delivery and cost control
- ⊖ Impact of divested brands
- ⊖ Brand investment

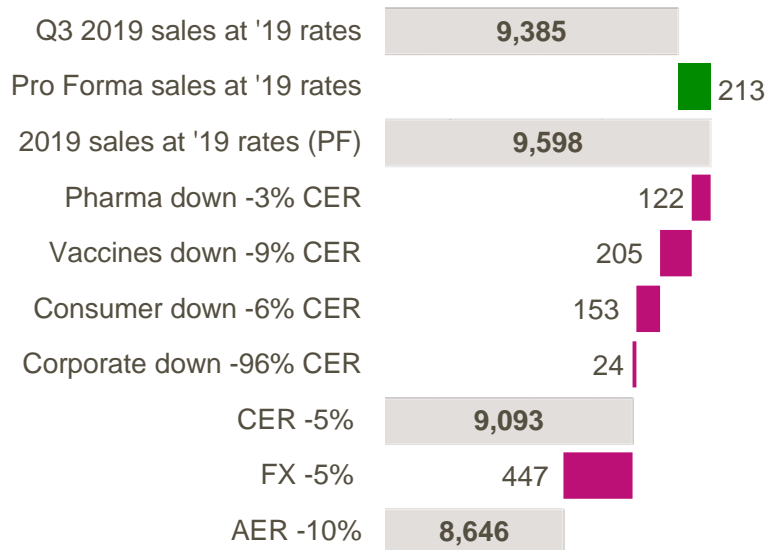
Sales and Adjusted operating margins



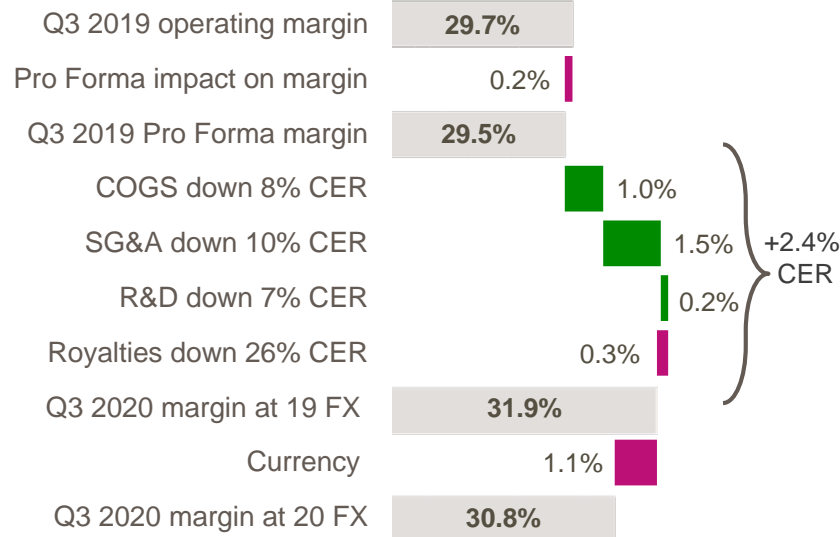
Q3 2020

Sales

All figures £m



Adjusted operating margin



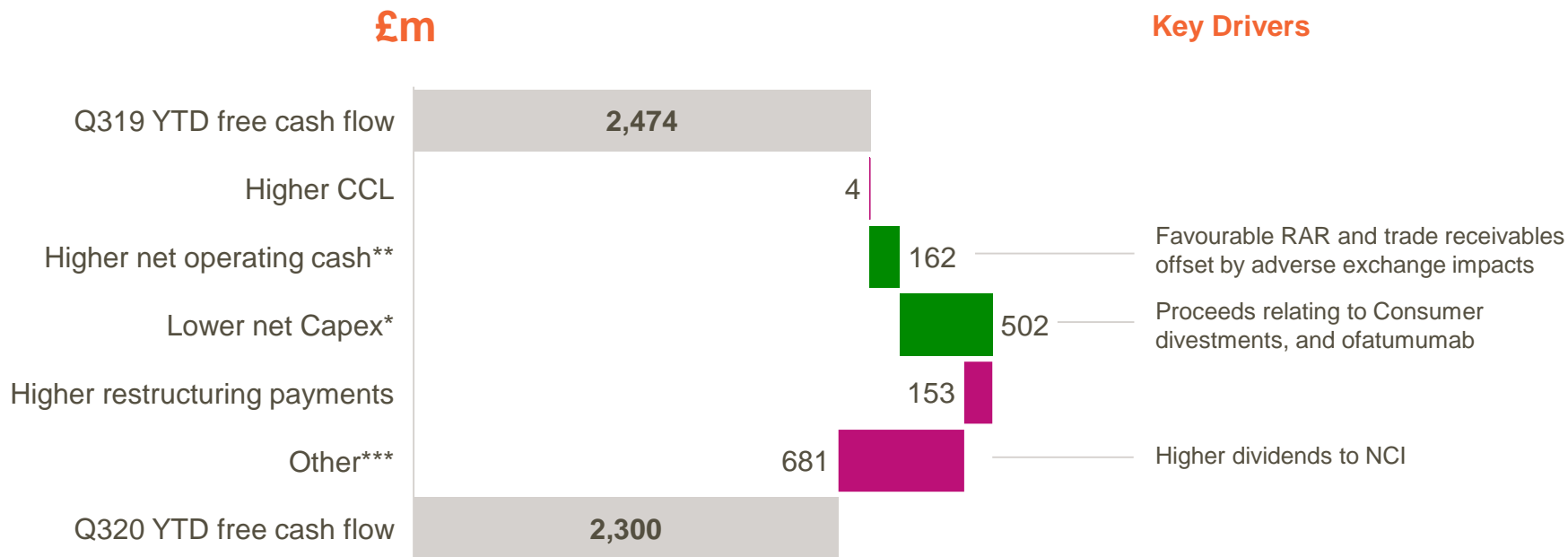
Adjusted operating profit to net income

Continued delivery of financial efficiency



	Q3 19	Q3 20
	£m	£m
Operating profit	2,786	2,665
Net finance expense	(206)	(197)
Share of associates	17	11
Tax	(411)	(417)
Tax rate	15.8%	16.8%
Minorities	(275)	(287)
Net income	1,911	1,775

Free cash flow of £2.3bn



CCL: contingent consideration liability

RAR: Returns and rebates

* Net Capex includes purchases less disposals of PP&E and intangibles

** Net operating cash is net cash inflow from operating activities including changes in working capital, excluding restructuring, operating CCL, and significant legal payments

*** Other includes significant legal payments, net interest paid, income from associates and JVs and distributions to minorities

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