

## **China and Emerging Markets**

Webcast and conference call for investors and analysts

13 December 2018

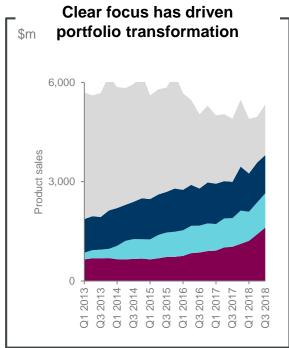


### Forward-looking statements

In order, among other things, to utilise the 'safe harbour' provisions of the US Private Securities Litigation Reform Act 1995, we are providing the following cautionary statement: this document contains certain forward-looking statements with respect to the operations, performance and financial condition of the Group, including, among other things, statements about expected revenues, margins, earnings per share or other financial or other measures. Although we believe our expectations are based on reasonable assumptions, any forward-looking statements, by their very nature, involve risks and uncertainties and may be influenced by factors that could cause actual outcomes and results to be materially different from those predicted. The forward-looking statements reflect knowledge and information available at the date of preparation of this document and AstraZeneca undertakes no obligation to update these forward-looking statements. We identify the forward-looking statements by using the words 'anticipates', 'believes', 'expects', 'intends' and similar expressions in such statements. Important factors that could cause actual results to differ materially from those contained in forward-looking statements, certain of which are beyond our control, include, among other things: the loss or expiration of, or limitations to, patents, marketing exclusivity or trademarks, or the risk of failure to obtain and enforce patent protection; effects of patent litigation in respect of IP rights; the impact of any delays in the manufacturing, distribution and sale of any of our products; the impact of any failure by third parties to supply materials or services; the risk of failure of outsourcing; the risks associated with manufacturing biologics; the risk that R&D will not yield new products that achieve commercial success; the risk of delay to new product launches; the risk that new products do not perform as we expect; the risk that strategic alliances and acquisitions, including licensing and collaborations, will be unsuccessful; the risks from pressures resulting from generic competition; the impact of competition, price controls and price reductions; the risks associated with developing our business in emerging markets; the risk of illegal trade in our products; the difficulties of obtaining and maintaining regulatory approvals for products; the risk that regulatory approval processes for biosimilars could have an adverse effect on future commercial prospects; the risk of failure to successfully implement planned cost reduction measures through productivity initiatives and restructuring programmes; the risk of failure of critical processes affecting business continuity; economic, regulatory and political pressures to limit or reduce the cost of our products; failure to achieve strategic priorities or to meet targets or expectations; the risk of substantial adverse litigation/government investigation claims and insufficient insurance coverage; the risk of substantial product liability claims; the risk of failure to adhere to applicable laws, rules and regulations; the risk of failure to adhere to applicable laws, rules and regulations relating to anti-competitive behaviour; the impact of increasing implementation and enforcement of more stringent anti-bribery and anti-corruption legislation; taxation risks; exchange rate fluctuations; the risk of an adverse impact of a sustained economic downturn; political and socio-economic conditions; the risk of environmental liabilities; the risk of occupational health and safety liabilities; the risk associated with pensions liabilities; the impact of failing to attract and retain key personnel and to successfully engage with our employees; the risk of misuse of social medial platforms and new technology; and the risk of failure of information technology and cybercrime. Nothing in this presentation / webcast should be construed as a profit forecast.



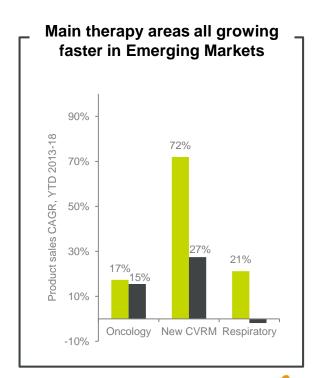
### **Emerging Markets: key to company transformation**





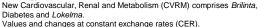
**Emerging Markets now more** than 1/3 of global sales 2,000 1.500 product Product sales 1,000 of total 500





Emerging Markets Non-Emerging Markets (US, EU, Est. RoW)

YTD is defined as the nine months to 30 September



Oncology New CVRM Respiratory Other





Leon Wang
Executive Vice President,
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Pelin Incesu Vice President, Commercial Strategy International



### Agenda



**Emerging Markets** 



**China** 



Oncology



CVRM



Respiratory



**Closing and Q&A** 





### Agenda



**Emerging Markets** 



China



Oncology



CVRM



Respiratory



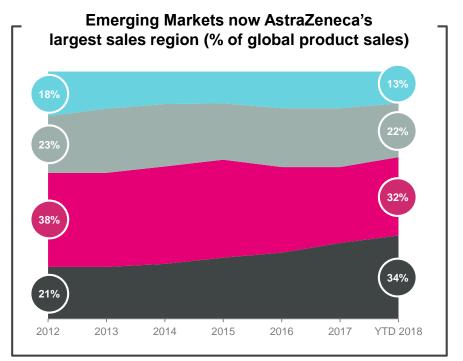
**Closing and Q&A** 

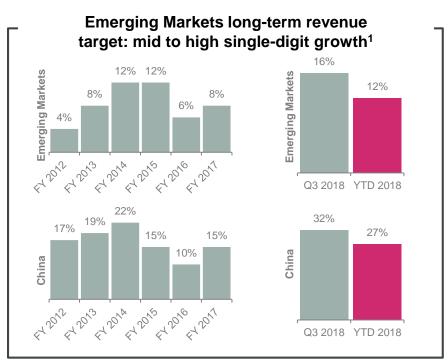




#### **Emerging Markets: growing importance**

Strong, sustained growth: meeting aspirations each year

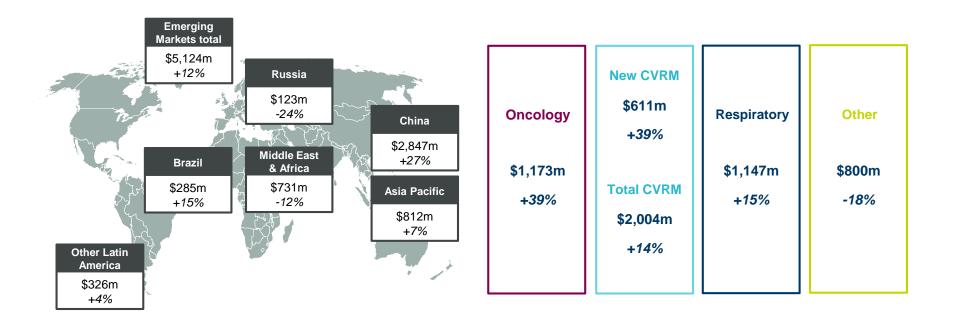




Emerging Markets US Europe Est. RoW

#### **Emerging Markets: portfolio of diverse markets**

Product sales performing strongly in 2018





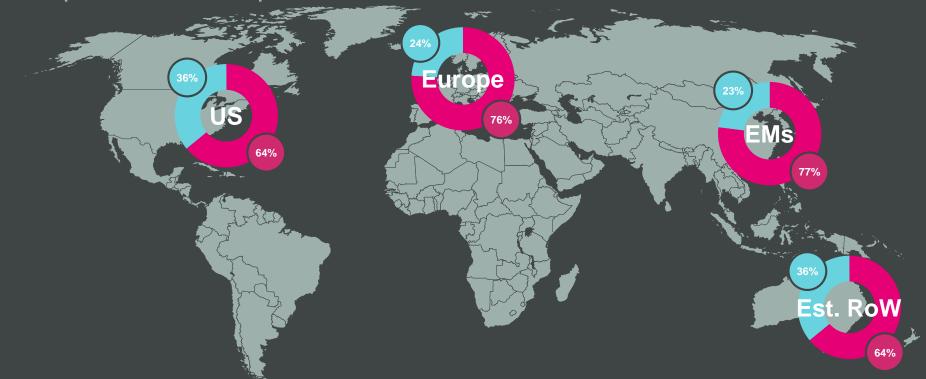
### Significant growth engines across the region

'Developed' 'Big emerging' 'Frontier markets' 'Rising stars' (by distributor) South Korea **Gulf states** Mexico per capita China Turkey Saudi Arabia Brazil Taiwan Sub-Saharan Africa Egypt Russia **Hong Kong** Sri Lanka Malaysia India **Singapore** Sudan Vietnam GDP **Pakistan** South Africa Uzbekistan **Thailand** Guatemala Stage of healthcare development Market access **Partnerships** Expansion, innovation, partnership



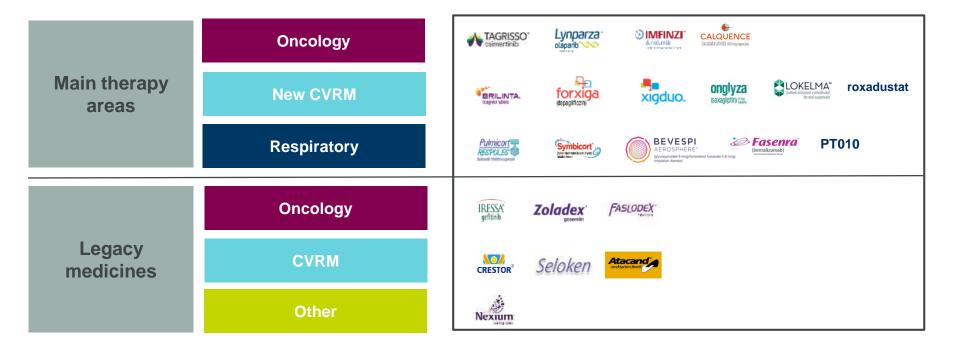
### **Specialty care: large opportunity**

Proportion of total product sales





### **Emerging Markets: leveraging legacy and new medicines**





### **Emerging Markets: top-10 medicines**

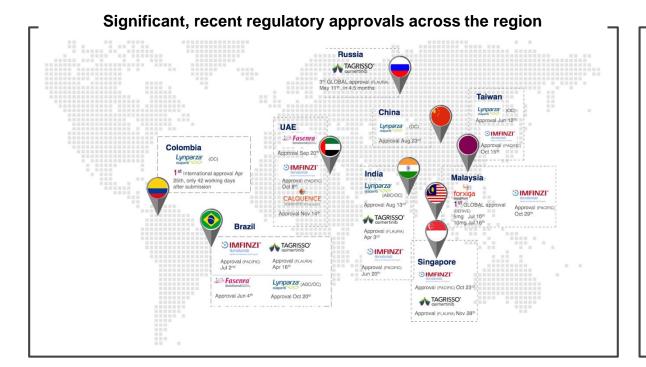
Fast-growing and well-diversified portfolio

New medicines	Product sales YTD 2018 (\$m)	% change	% of total
Tagrisso	266	206	5
Forxiga	242	57	5
Brilinta	232	31	5

Older medicines	Product sales YTD 2018 (\$m)	% change	% of total
Pulmicort	688	16	13
Crestor	631	7	12
Nexium	524	-	10
Seloken	493	12	10
Symbicort	364	12	7
Zoladex	313	20	6
Iressa	226	10	4
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### **Emerging Markets: pipeline delivering**



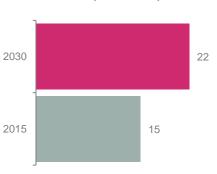
#### H2 2018 approval highlights

- Lynparza ovarian cancer: India, China, Brazil
- Tagrisso lung cancer (1st line): India, Singapore
- Imfinzi lung cancer (Stage III, unresectable): Brazil, United Arab Emirates (UAE), Taiwan, Singapore, Malaysia
- Calquence mantle cell lymphoma: UAE
- Fasenra severe asthma: UAE



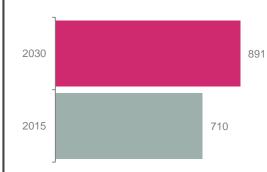
#### Unmet medical needs are increasing

### Oncology: all-cancer incidence (millions)



- c.25% of global growth from China
- Cancer incidence in India to increase by c.50% in 15 years

## CVRM: obesity prevalence (millions)



 85% of global growth from China, India and developing African countries including Nigeria and South Africa

#### Respiratory

#### **Asthma**

339m patients worldwide affected by asthma. Seven patients die every 10 minutes as a result of asthma

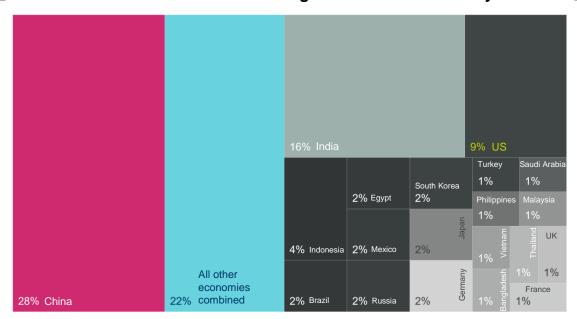
## Chronic obstructive pulmonary disease (COPD)

- 384m patients worldwide affected by COPD. Third-largest cause of death by 2020
- The overwhelming majority of COPD deaths occur in low and middle-income countries



### **Emerging Markets: to dominate world GDP growth**





### China becoming a dominant player

US share of growth contribution to decline:

- 12% in 2019
- 9% in 2023

Established Rest of World markets will make way for new growth engines, including:

- Turkey
- Malaysia
- Vietnam





#### **Emerging Markets: strategy**



- Portfolio selling
- Retail
- Customer base
- Market access



#### **Innovation**

- Patient-centric, fully-integrated ecosystems
- New-medicine localisation
- Medicine development and launch acceleration



#### Partnership

- Central and local government
- Business development
- Local healthcare providers
- Local capital markets



### Agenda



**Emerging Markets** 



China



Oncology



CVRM



Respiratory



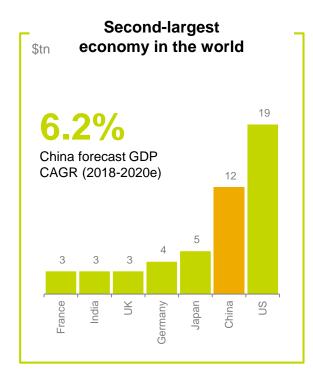
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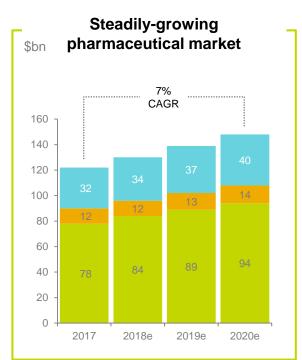


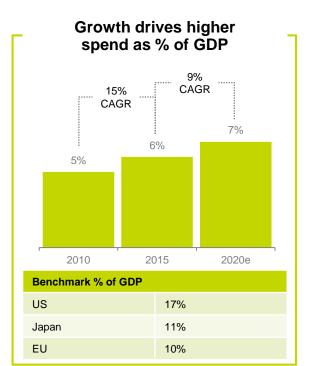


### China: strong growth outlook









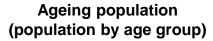
#### Hospital Others<sup>1</sup> Retail (urban)

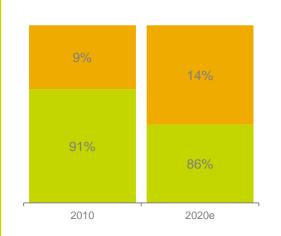


<sup>1.</sup> Includes smaller hospitals (<100 beds) such as community heath centres (CHCs) and township health centres and retail outlets in rural areas.

# Demographic trends driving demand for quality healthcare



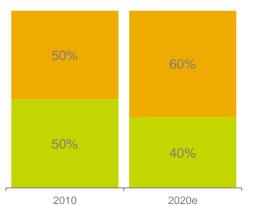




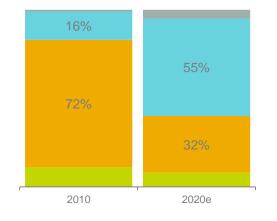
## Rapid urbanisation (rural vs. urban residents)

170

cities with more than one million inhabitants by 2030



# Growing middle class (population by household income)





Source: China National Bureau of Statistics (2010 annual data), Economist Intelligence Unit, China National Urbanization Development Plan.



#### Three basic health-insurance funds



#### **National and provincial reimbursement**

Urban employee basic medical insurance (UEBMI)

#### 290 million

people covered

- Employees and urban retirees
- Mandatory (paid once a month)
- National average utilisation rate is 83%
- Demand for innovative medicines and services

Urban resident basic medical insurance (URBMI)

#### 380 million

people covered

- Students, infants, adolescents, urban residents not covered by UEBMI
- Voluntary (paid once a year)
- National average utilisation rate is 82%

#### Other

New rural cooperative medical insurance list (NRCMI)

#### 670 million

people covered

- All rural residents (rural housing account)
- Voluntary (paid once a year)
- Limited reimbursement ratio
- National average utilisation rate is c.96%



# Healthcare reforms enhancing innovation and access



### Fast-track approvals for innovative medicines

- Accelerated regulatory review and approval timelines
- Local innovation encouraged

	Priority review	Approved
TAGRISSO* osimertinib	Sep 2016	Mar 2017
Lynparza <sup>™</sup> olaparib <sup>™</sup> www.	Jan 2018	Aug 2018

## More-frequent NRDL<sup>1</sup> review cycles and NEDL<sup>2</sup> adjustments

- Broader access, especially in grassroots institutions
- Six AstraZeneca medicines entered the NRDL in 2017-18 (including Tagrisso)
- 10 AstraZeneca medicines entered the NEDL in 2018

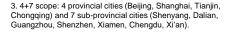


- 1. National Reimbursement Drug List.
- 2. National Essential Drug List.

Source: China Human Resources and Social Security Statistics.

## IP rights and the impact of generics

- Regulatory data protection
- Patent-term extension and patent linkage
- Generic Consistency Quality
   Evaluation: elevate the quality of
   generics while managing the
   government drug reimbursement
   budget
- '4+7'<sup>3</sup> tendering results disclosed on 6 December: *Iressa* (+) and *Crestor* (-) included







### AstraZeneca: a trusted healthcare partner in China



**>\$750**m

investment in the discovery and development of life-changing medicines >13,000 employees throughout China

阿斯利康中国25周年

ASTRAZENECA CHINA 25TH ANNIVERSARY

In China since 1993

Headquarters in

Shanghai



#2 pharmaceutical multinational company (MNC) in China

Rankings

AstraZeneca's second-largest national market

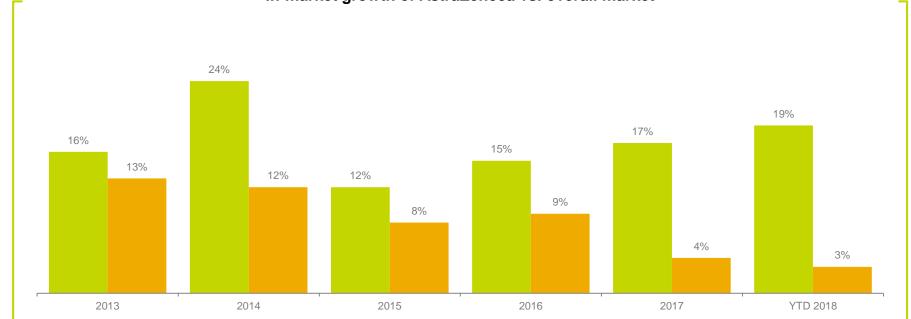
#1 growth rate among MNCs in China for the past several years



### **Consistently outperforming the China market...**







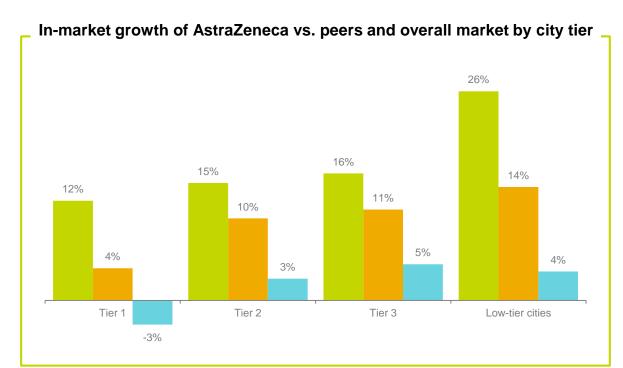
AstraZeneca Overall market

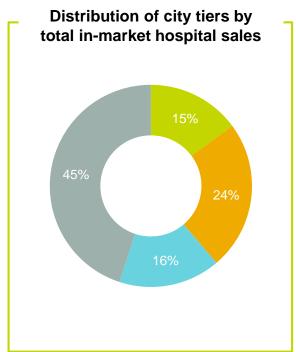
Source: IQVIA.



### ...across all city tiers







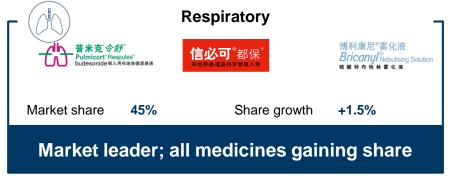
AstraZeneca MNCs Overall market

Source: IQVIA.

#### ...and in all therapy areas













### Underpinned by a quality supply chain





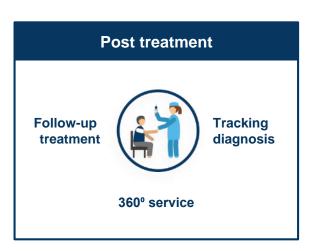


### Patient-centric, holistic disease management









 Internet of things
 Big data
 Artificial intelligence

 Prevention
 Screening
 Diagnosis
 Treatment
 Maintenance



# China Innovation Centre: multiple, fully-integrated ecosystem models for the main therapy areas





Chronic disease management centre

41 centres



China chestpain centre

669 centres



Metabolicmanagement centre

200 centres



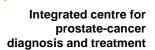
Gastrointestinal cancer centre

45 centres



Integrated centre for lung-cancer treatment

Pilot stage



77 centres



#### Paediatric nebulisation centre

15,000 paediatric nebulisation centres (including 2,100 smart centres)

> Pulmonary and critical-care medicine

> > 191 centres







#### At the forefront of local innovation





#### AstraZeneca - Chinese SDIC<sup>1</sup> Fund Joint Venture (Nov 2017)





#### AZD4205 (JAK1 inhibitor)

Non-small cell lung cancer and Crohn's disease

#### AZD2954 (undisclosed target)

Clinical candidate for the treatment of CKD<sup>2</sup>

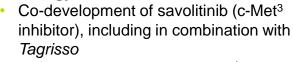
Pre-clinical respiratory programme

Additional pre-clinical programmes (oncology and autoimmunity)

#### Local category-1 partnerships

#### Oncology







 Out-licensed AZD3759 (EGFR<sup>4</sup> inhibitor) non-small cell lung cancer

#### CVRM

FIBROGEN •

 Roxadustat - chronic kidney disease (regulatory decision December 2018)

#### Other



MEDI5117 (anti-IL6 mAb) - rheumatoid arthritis



<sup>1.</sup> State Development & Investment Corporation.

Chronic kidney disease.

<sup>3.</sup> Tyrosine-protein kinase Met (or hepatocyte growth factor receptor).

<sup>4.</sup> Epidermal growth factor receptor.

#### **China: Oncology strategy**



### Lead in lung and prostate cancer

#### Lung cancer

- Continue Iressa expansion
- Tagrisso 2nd line following NRDL inclusion and 1st-line launch readiness
- Imfinzi Stage III and Stage IV (PEARL trial)

#### **Prostate cancer**

- Continue to shape the market and address unmet medical needs
- Lynparza (PROfound, PROpel trials)

#### Accelerate breast and ovarian cancer

- Faslodex uptake following NRDL
- Zoladex ovarian function suppression
- Lynparza 1st/2nd line (SOLO-1/2 trials)

### **Build haematology and gastro-intestinal cancer**

- Calquence mantle cell lymphoma, chronic lymphocytic leukaemia
- Imfinzi liver cancer (HIMALAYA trial)
- Shape the market and address unmet medical need
- Integrated centre for lung-cancer treatment
- Prostate cancer integrated diagnosis and treatment centres





#### **China: CVRM strategy**



#### **Strong CV base**

 Strong foundation with Seloken and Crestor to expand to county hospitals, CHCs and retail

- Fully-integrated ecosystem
- Continue to roll out and upgrade chest-pain centres and metabolicmanagement centres to reshape the patient journey

#### **New CVRM**

**Brilinta**: uptake and expansion following NRDL

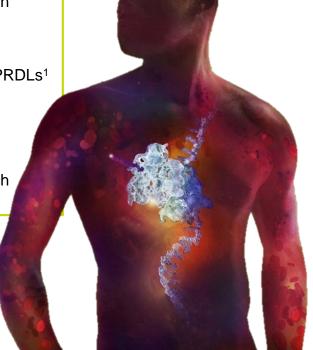
#### **Diabetes**

Forxiga entered into eight PRDLs<sup>1</sup>

Onglyza gaining share

Broad endocrinologist and cardiologist coverage

Roxadustat: first global launch





#### **China: Respiratory strategy**





#### Maximise nebulisation coverage across China

- **Expand outpatient** department nebulisation capacity
- Optimise patient nebulisation experience

#### Accelerate development of the respiratory maintenance market

Shape market environment to address low diagnosis, standard-of-care treatment and compliance

**Launch readiness:** Bevespi, PT010, Fasenra and tezepelumab



#### **China: strategy**





- Portfolio selling
- Retail
- Customer base
- Market access



#### **Innovation**

- Patient-centric, fully-integrated ecosystems
- New-medicine localisation
- Medicine development and launch acceleration



#### **Partnership**

- Central and local government
- Business development
- Local healthcare providers
- Local capital markets



### Agenda



**Emerging Markets** 



China



Oncology



CVRM



Respiratory



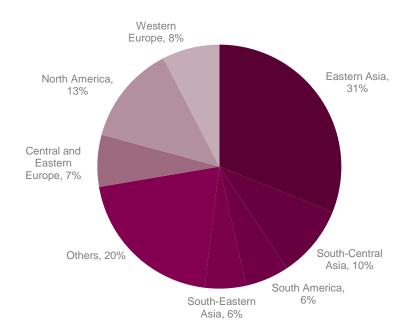
**Closing and Q&A** 





Oncology: annual cancer incidences

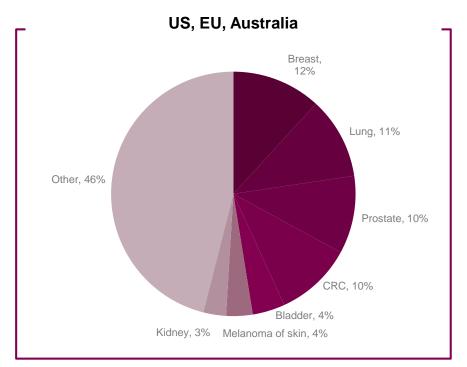
c.75% of new cancers in Emerging Markets

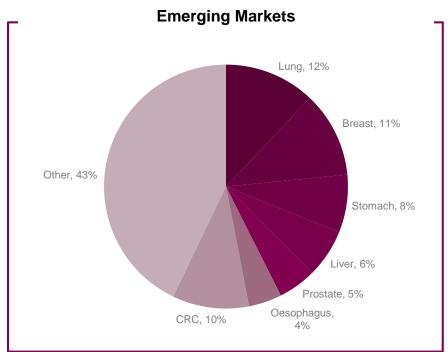




## Oncology: lung and breast cancer highest incidence

### EMs have high rates of stomach, liver and HNSCC¹ cancers





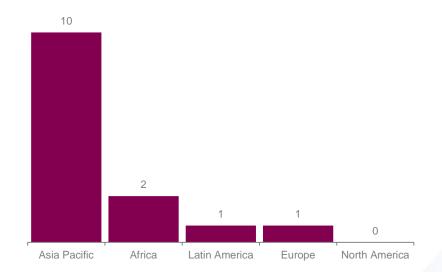


Head and neck squamous cell carcinoma.
 Source: GLOBOCAN 2018.

**Oncology: lack of healthcare infrastructure** 

Example: different availabilities of radiation therapy

Additional investment needed to provide \$bn full access to radiotherapy, by region





### **Examples: AstraZeneca improves access to care**

Partnering to improve treatments across Emerging Markets



#### **Healthcare education**

## Developing multidisciplinary teams to improve patient outcomes

- Brazil: expansion of multidisciplinary team
- Mexico: focus on faster diagnosis and ongoing medical education

#### **Diagnostic education**

 India: partnership with medical societies on improving re-biopsy capability

# Driving scientific exchange through congresses/summits:

· Latin America, Asia, Middle East/Africa



#### Infrastructure build

#### Diagnostic infrastructure and networks

- India: genetic counselling for ovarian cancer patients
- Russia: diagnostic capability to deliver precision medicine
- Mexico: EGFR and T790M¹ testing for lungcancer patients
- Latin America: lab quality-assurance schemes to improve quality of testing

#### **Evidence generation: regional/local**

- Regional KINDLE trial
- 62 active ESR<sup>2</sup> trials in region and registrational trials in 21 countries



#### **Improving access**

# Multiple compassionate and affordability programmes

- Mexico: access to *Iressa* and *Tagrisso* treatment through subsidised access programmes
- Malaysia: subsidised access to Imfinzi with beyond-the-treatment patient support programme e.g. nutrition
- Imfinzi early access program across 21 countries

#### Fast access to reimbursed markets

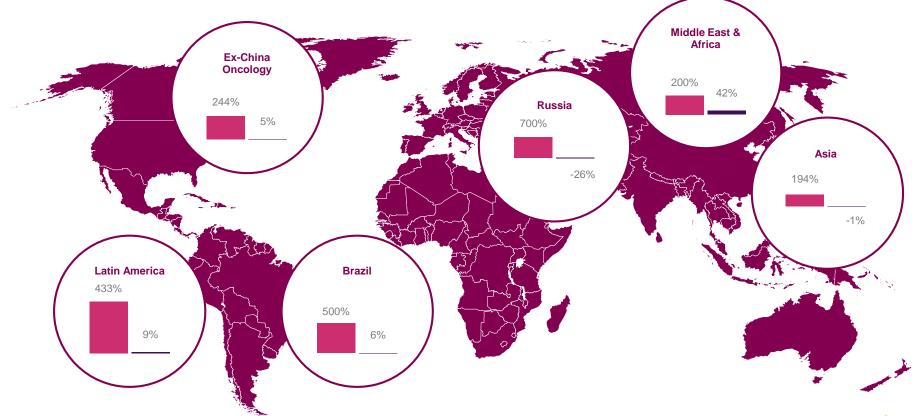
South Korea: Tagrisso fast approval (5.5 months from application), listing with fast reimbursement and highest revenue in market



<sup>1.</sup> Substitution of threonine (T) with methionine (M) at position 790 of exon 20 mutation.

<sup>2.</sup> Externally-sponsored scientific research.

Oncology: delivering strong growth across all regions

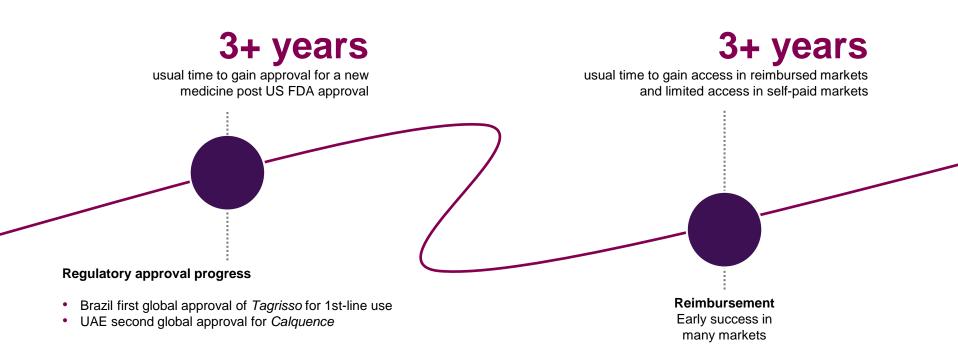




Oncology: accelerating access to meet unmet medical need



# Oncology: regulatory approvals and reimbursement accelerating





### Lung cancer

### Leader in EGFR lung cancer and emerging in Immuno-Oncology

#### Iressa

- Remain market leader across Asia
- Continue to expand access
- Establish sustainable and qualitytesting capabilities



#### **Tagrisso**

- First-in-world approval achieved in Brazil for 1st-line use
- Continue to expand access
- Establish sustainable and qualitytesting capabilities



#### *Imfinzi*

- Expanding access through patient-access programmes
- Support establishing systems of care to support Stage III lungcancer care
- Six regulatory approvals and expanding



Expanding to further indications across Emerging Markets including bladder, liver and other cancers



## Lynparza

### The first PARP inhibitor and the undisputed market leader

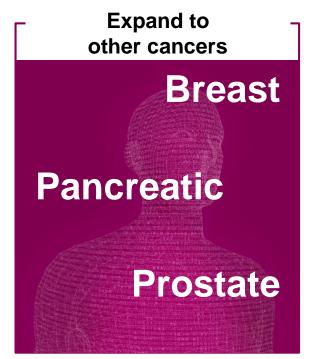
# 2nd-line ovarian cancer

- Established market leadership
- Expand access
- Quality and sustainable BRCA testing



# 1st-line ovarian cancer

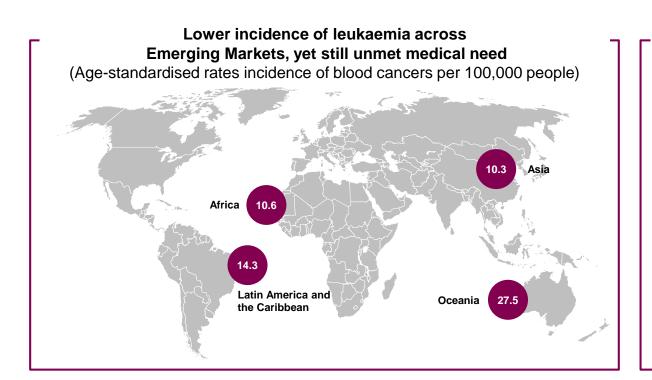
- Expand to 1st-line ovarian cancer
- Broaden ability to test for BRCA and expand access
- Ambition to make regulatory submissions across Emerging Markets and as quickly as possible





# Haematology

## Expand beyond US with first launch of Calquence



#### Regulatory status

## **Nov 2018**

regulatory approval received in UAE

# **First**

approval in Emerging Markets and second approval globally



# **Oncology: sources of innovation**

Innovation focus on improving patient access, outcomes and care

- Timely diagnosis and disease awareness
- Physician and allied health education and systems of care
- Extending care beyond urban setting to regional areas
- Improved access to innovative medicines



# Agenda



**Emerging Markets** 



China



Oncology



**CVRM** 



Respiratory

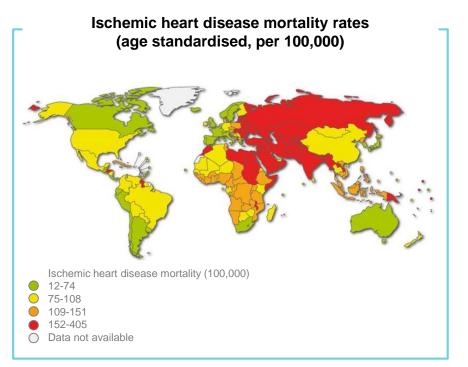


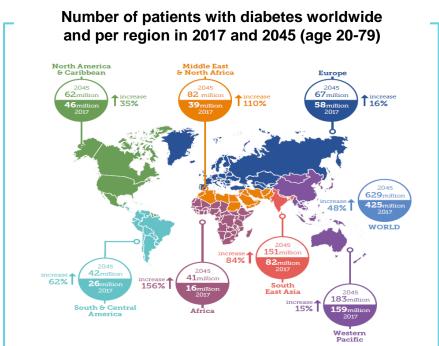
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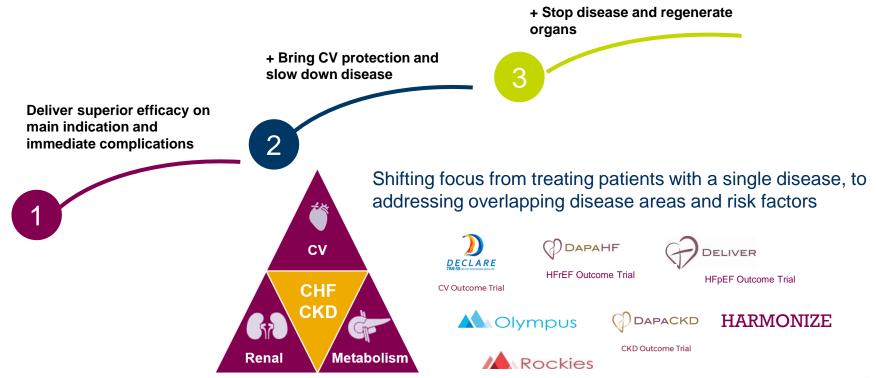
# CVRM: high unmet medical need in Emerging Markets CV diseases are the #1 cause of death globally





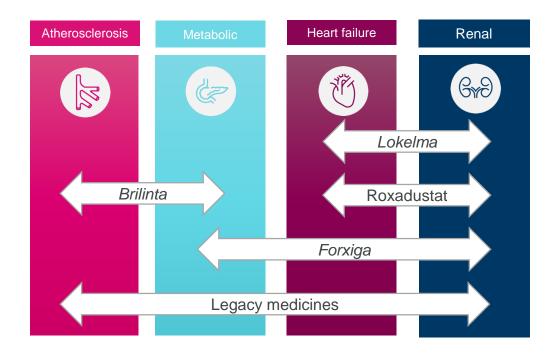


# CVRM: changing clinical practice today, pushing boundaries of science tomorrow





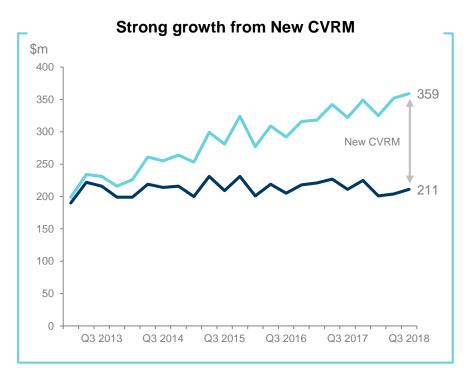
# CVRM in Emerging Markets: improve outcomes, address disease overlap with both legacy and new medicines

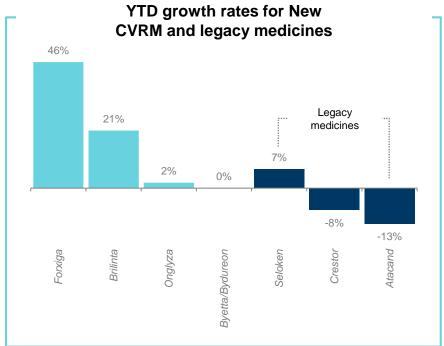




# **CVRM: legacy medicines and New CVRM**

### Legacy medicines provide stable base business



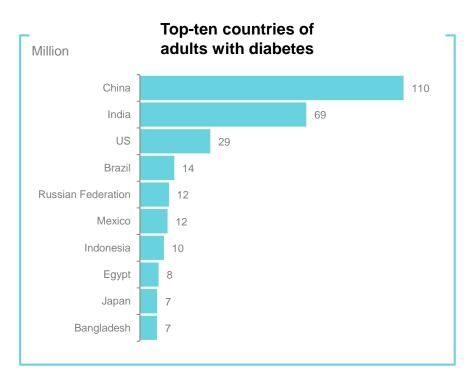


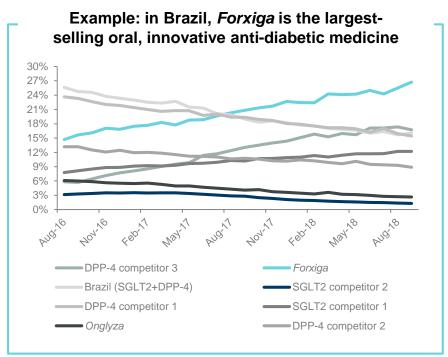


# Forxiga: potential in Emerging Markets

# Leveraging AstraZeneca's presence





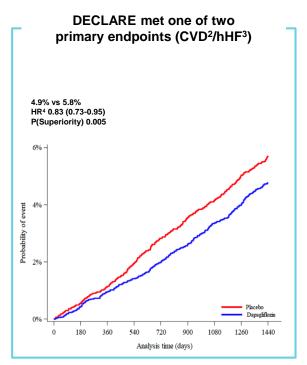


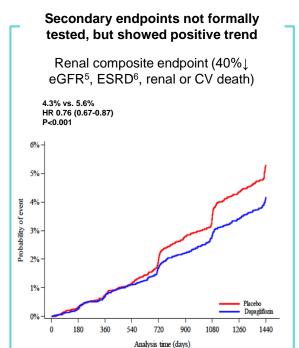


# Forxiga: potential in Emerging Markets

# forxiga. (dapagliflozin)

# DECLARE trial provides potential to change T2D¹ treatment





- Forxiga launched in >55 Emerging
   Markets outside of China
- Lifecycle opportunities: HF<sup>7</sup> and CKD data readout anticipated in 2020





DECLARE paving the way in cardio-renal for Emerging Markets

<sup>1.</sup> Type-2 diabetes 2. Cardiovascular death

<sup>3.</sup> Hospitalisation for heart failure 4. Hazard ratio. Source: AHA 2018.

<sup>5.</sup> Estimated glomerular filtration rate 6. End-stage renal disease. Source: AHA 2018.

# Brilinta: TREAT provides the opportunity to bring benefit to STEMI patients treated with fibrinolytic therapy in EMs

#### **Unmet medical need**

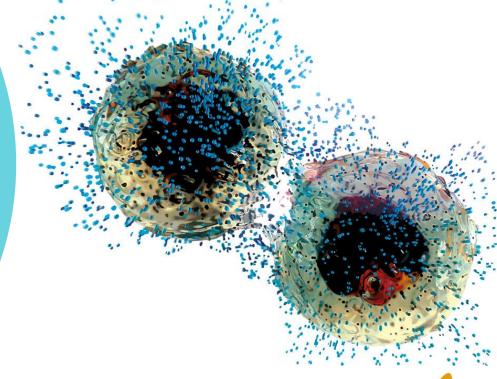
- Prior to TREAT, no large-scale trials evaluating safety and efficacy of Brilinta in STEMI¹ patients undergoing fibrinolysis
- Access to timely PCI<sup>2</sup> is often not available, particularly in low and middle-income countries

#### From ESR to Phase III trial

- Conducted in 10 countries and 3,799 patients
- Results presented at ACC 2018; published simultaneously in JAMA Cardiology

#### **Results impacting local practice**

- Russia: 90% of hospitals and ambulance algorithms updated
- Egypt: ACS<sup>3</sup> guidelines changed to endorse *Brilinta* usage in STEMI lysis
- Indonesia: 2018 Indonesian Heart Association ACS guideline updated
- Malaysia: included in State Protocol





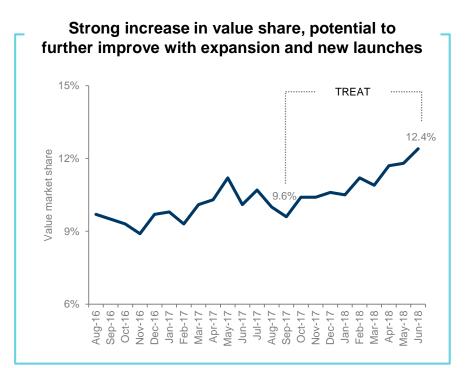
<sup>1.</sup> ST elevation myocardial infarction.

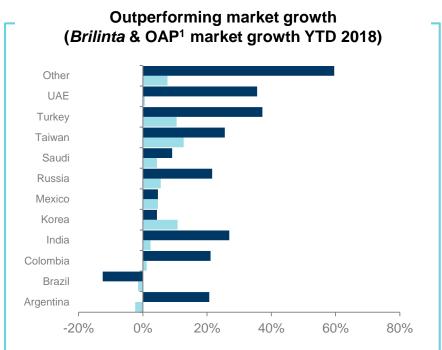
<sup>2.</sup> Percutaneous coronary intervention.

Acute coronary syndrome.

# Brilinta: market share continues to grow







Brilinta Oral anti-platelet¹ market Source: IQVIA.



### Lokelma

Asia has more than 20 million patients with a life-threatening complication, like hyperkalaemia in CKD



# **HARMONIZE** Global

regulatory submissions in Russia, Taiwan and South Korea

# HARMONIZE-Asia

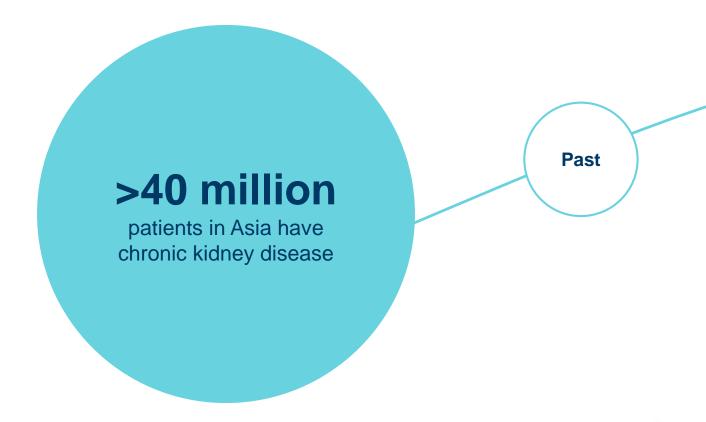
data readout in H2 2019

2020

China regulatory submission



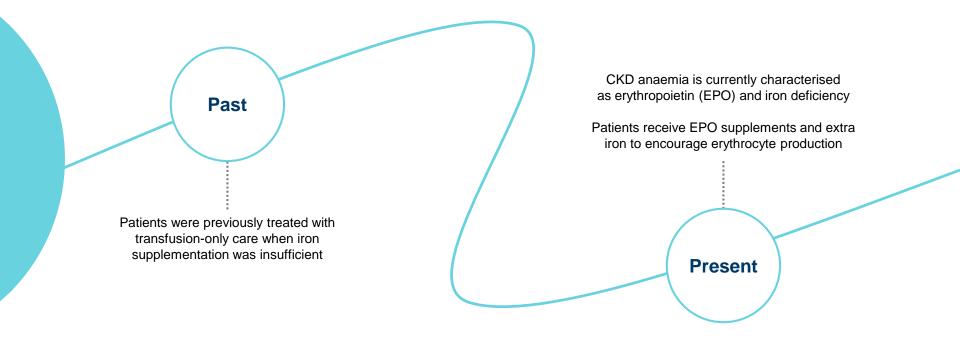
### We follow the science: CKD and roxadustat





### We follow the science: CKD and roxadustat

Roxadustat: potential to transform the treatment of anaemia in CKD





Treating CKD anaemia enables the body to stimulate complete erythropoiesis



# Hypoxia-inducible factor prolyl hydroxylase (HIF-PHI) inhibitor

- Overcomes defective oxygen sensing
- Stimulates EPO production
- Mobilises iron
- Body coordinates EPO and iron
- Stimulates endogenous production of erythrocytes

# Roxadustat

China regulatory decision anticipated Q4 2018



# Agenda



**Emerging Markets** 



China



Oncology



CVRM



Respiratory



**Closing and Q&A** 





# Respiratory

# Asthma and COPD prevalence growth highest in low-income areas

# 339 million, 384 million,

patients worldwide affected by asthma

Third.

patients worldwide

# Seven,

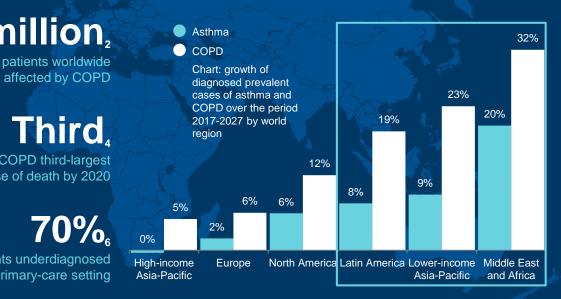
**COPD** third-largest cause of death by 2020

patients die every 10 minutes as a result of asthma

One.

asthma is the leading chronic COPD patients underdiagnosed disease in children in the primary-care setting

70%

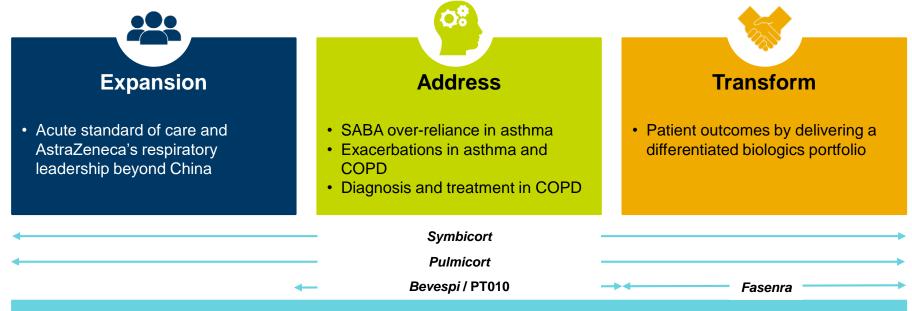


Source: 1. The Global Asthma Network. The Global Asthma Report 2018. [Online]. Available at: http://www.globalasthmanetwork.org/publications/Global\_Asthma\_Report\_2018.pdf. Last accessed: October 2018. Chanez P, Humbert M. European respiratory review: Asthma: still a promising future? European Respiratory Review. 2014, 23 (134) 405-407 2. Adeloye D, Chua S, Lee C, et al; Global Health Epidemiology Reference Group (GHERG). Global and regional estimates of COPD prevalence: Systematic review and meta-analysis. J Glob Health, 2015;5(2): 020415 3, AstraZeneca calculation based on https://www.who.int/news-room/fact-sheets/detail/asthma 4, GOLD, Global Strategy for the Diagnosis, Management and Prevention of COPD, Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2018, IOnline1, Available at: http://goldcopd.org, Last accessed: October 2018 5. https://www.who.int/respiratory/asthma/en/ and Int J Tuberc Lung Dis. 2014 Nov;18(11):1269-78. doi: 10.5588/ijtld.14.0170. 6. Am J Respir Crit Care Med. 2018 Nov 1;198(9):1130-1139



# **Respiratory: Emerging Markets strategy**

Building on a long-term commitment to respiratory disease



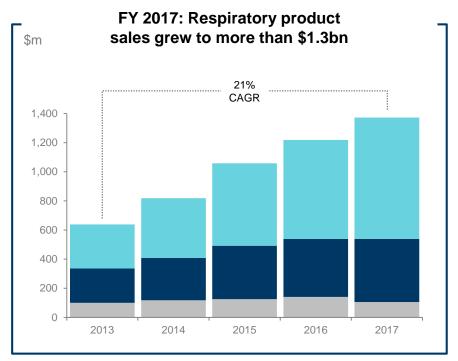
### **Healthy Lung programme**

Created to raise the profile of disease with policymakers and build health-system capacity to better serve patients



# **Respiratory: sales in Emerging Markets**

### Pulmicort sales underpin overall respiratory growth





Pulmicort Symbicort Other Respiratory medicines

China Emerging Markets ex-China



# Respiratory: expanding nebulisation centres

Transforming the standard of care for children in Emerging Markets





# Respiratory: following the science to drive early adoption

Symbicort: SYGMA data demonstrates use as a antiinflammatory reliever therapy

### three times

more likely to receive SABA<sup>1</sup> vs. ICS/LABA<sup>2</sup>

- Over-reliance on rescue inhalers (SABA); significantly impacts exacerbations and increases mortality
- Enables earlier use across the asthma GINA<sup>3</sup> steps

Chinese guidelines updated to incorporate SYGMA data

 Short-acting beta agonists
 inhaled corticosteroid and longacting beta2 agonist
 Global Initiative for Asthma.
 Source: IQVIA sales. Overall SABA vs ICS/LABA volume.

# Increase rates of diagnosis and treatment of COPD patients

**70%** 

of patients are underdiagnosed

 KRONOS trial demonstrated PT010 reduced the risk of exacerbation vs. LAMA/LABA<sup>1</sup>

PT010 regulatory submission (CN)

1. Long-acting muscarinic antagonist /long-acting beta2 agonist. Source: Am J Respir Crit Care Med. 2018 Nov 1;198(9):1130-1139.

Fasenra: the potential of biologics in severe asthma

80-85%<sup>1</sup>

of all asthma deaths occur in uncontrolled severe asthma

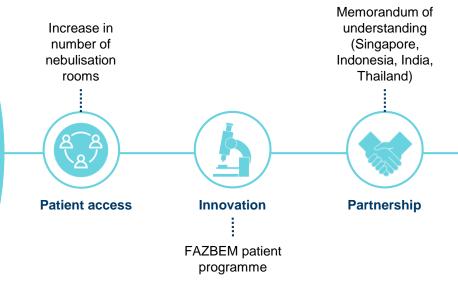
- Severe uncontrolled asthma patients 10x higher risk of hospital stays<sup>2</sup>
- Fasenra has a strong clinical profile to address needs

Three launches of *Fasenra* in 2018 in Emerging Markets

Source: 1. Stephen P. Peters et al. Respiratory Medicine (2006) 100, 1139–1151. 2. Fernandes AG et al, J Bras Pneumol. 2014; 40(4): 364-372.



Partnering with governments to build and strengthen health systems for improved care in respiratory disease







# Agenda



**Emerging Markets** 



China



Oncology



CVRM



Respiratory



**Closing and Q&A** 





# Significant opportunity to continue to drive growth

# Emerging Markets are key to AstraZeneca's transformation

#### China

- Significant favourable macroeconomic and demographic trends
- The importance of legacy and primary-care medicines
- A perfectly-relevant portfolio of medicines in market now and more to be launched
- · Leading in technology, expertise and scale

#### Emerging Markets

- A unique contribution to global sales
- Addressing large unmet medical needs
- Breadth and depth across all regions
- A focus on three therapy areas delivering significant returns
- Continue to support return to growth; deliver earnings; and cash flow
- Reiteration of China and Emerging Markets long-term revenue target





# **Appendix**





# **China National Essential Drug List**

#### 2018 inclusions

Therapy area	Medicine	International non-proprietary name
Oncology	Iressa	gefitinib
CVRM	Brilinta	ticagrelor
CVRM	Forxiga	dapagliflozin
CVRM	Crestor	rosuvastatin
CVRM	Imdur¹	isosorbide
CVRM	Plendil <sup>1</sup>	felodipine
CVRM	Zestril <sup>1</sup>	lisinopril
Respiratory	Pulmicort	budesonide
Respiratory	Symbicort	budesonide / formoterol
Other	Naropin¹	ropivacaine

#### 2012 inclusions

Therapy area	Medicine	International non-proprietary name
CVRM	Betaloc	metoprolol
Other	Diprivan <sup>1</sup>	propofol
Other	Losec	omeprazole
Other	Nexium	esomeprazole
Other	Seroquel <sup>1</sup>	quetiapine



# **China National Reimbursement Drug List**

Year	Therapy area	Medicine	International non-proprietary name
2018	Oncology	Tagrisso	osimertinib
2017	Oncology	Faslodex	fulvestrant
2017	Oncology	Iressa	gefitinib
2017	CVRM	Brilinta	ticagrelor
2017	CVRM	Onglyza	saxagliptin
2017	Other	Seroquel XR <sup>1</sup>	Quetiapine
2009	CVRM	Betaloc ZOK	metoprolol
2009	CVRM	Crestor	rosuvastatin
2009	Respiratory	Symbicort <sup>2</sup>	budesonide / formoterol
2009	Other	Nexium³	esomeprazole
2004	Oncology	Arimidex	anastrozole
2004	Oncology	Casodex	bicalutamide

Year	Therapy area	Medicine	International non-proprietary name
2004	Oncology	Zoladex	goserelin
2004	CVRM	Zestril <sup>1</sup>	lisinopril
2004	Respiratory	Accolate	zafirlukast
2004	Respiratory	Bambec	bambuterol
2004	Respiratory	Bricanyf	terbutaline
2004	Respiratory	Bricanyf <sup>4</sup>	terbutaline
2004	Respiratory	Bricasol	terbutaline
2004	Respiratory	Oxis <sup>4</sup>	formoterol
2004	Respiratory	Pulmicort <sup>4</sup>	budesonide
2004	Other	Losec MUPS	omeprazole
2004	Other	Naropin	ropivacaine



# **China National Reimbursement Drug List**

Year	Therapy area	Medicine	International non-proprietary name
2004	Other	Nexium²	esomeprazole
2004	Other	Seroquel IR¹	quetiapine
2000	CVRM	Betaloc <sup>3</sup>	metoprolol
2000	CVRM	Betaloc <sup>4</sup>	metoprolol
2000	CVRM	Imdur¹	isosorbide
2000	CVRM	Plendil <sup>1</sup>	felodipine
2000	Respiratory	Bricanyl Tab	terbutaline
2000	Respiratory	Pulmicort <sup>5</sup>	budesonide
2000	Respiratory	Pulmicort <sup>6</sup>	budesonide
2000	Other	Diprivan¹	peopofol
2000	Other	Losec <sup>3</sup>	omeprazole

Year	Therapy area	Medicine	International non-proprietary name
2000	Other	Losec <sup>7</sup>	omeprazole
2000	Other	Rhinocort Aqua¹	budesonide



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# **China and Emerging Markets**

Webcast and conference call for investors and analysts

13 December 2018

