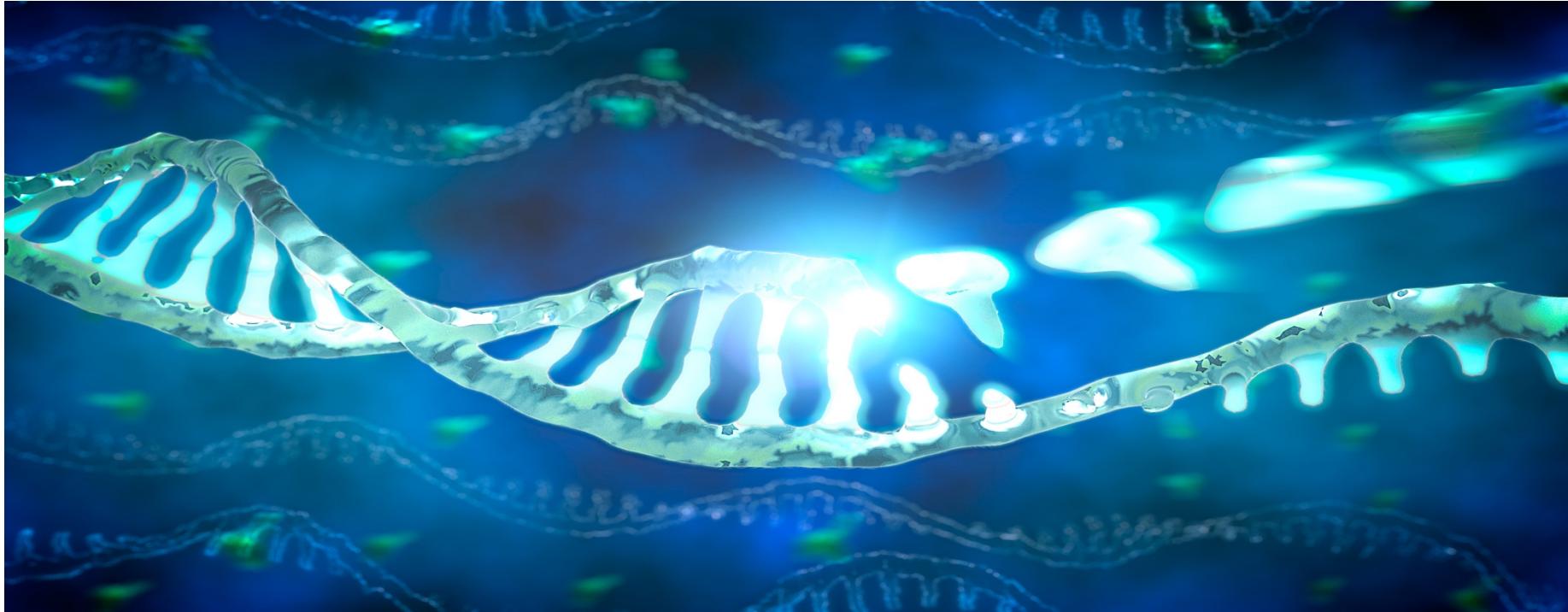


# Clinical trials appendix

## Q3 2018 results update



The following information about AstraZeneca clinical trials in Phases I-IV has been created with selected information from <https://clinicaltrials.gov> to facilitate understanding of key aspects of ongoing clinical programmes and is correct to the best of the Company's knowledge as of 30 September 2018, unless otherwise specified.

It includes estimated timelines with regards to trial completion and first external presentations of primary data. These estimates are subject to change, as programmes recruit faster or slower than anticipated and many times are event driven.

Project postings on [clinicaltrials.gov](https://clinicaltrials.gov) are updated on a continuous basis as projects progress. For the most up to date information on our clinical programmes please visit [clinicaltrials.gov](https://clinicaltrials.gov) (<https://clinicaltrials.gov>)



# List of abbreviations

<b>ADA</b>	Anti-Drug Antibody	<b>ICS</b>	Inhaled Corticosteroid	<b>pMDI</b>	Pressurised Metered Dose Inhaler
<b>ADC</b>	Antibody-Drug Conjugate	<b>IM</b>	Intra Muscular	<b>PoC</b>	Proof of Concept
<b>AE</b>	Adverse Event	<b>IR</b>	Immediate Release	<b>PR</b>	Partial Response
<b>AUC</b>	Area Under Curve	<b>IV</b>	Intravenous	<b>Q2W</b>	Quaque (every) Two Weeks
<b>BD/BID</b>	Bis In Die (two times a day)	<b>LABA</b>	Long Acting Beta Agonist	<b>Q3W</b>	Quaque (every) Three Weeks
<b>CE</b>	Clinically Evaluable	<b>LAMA</b>	Long Acting Muscarinic Agonist	<b>Q4W</b>	Quaque (every) Four Weeks
<b>CMAX</b>	Maximum Concentration Absorbed	<b>LCM</b>	Lifecycle Management	<b>Q8W</b>	Quaque (every) Eight Weeks
<b>CNS</b>	Central Nervous System	<b>LPCD</b>	Last Patient Commenced Dosing	<b>QD</b>	Quaque Die (one time a day)
<b>DCR</b>	Disease Control Rate	<b>MAD</b>	Multiple Ascending Dose	<b>QOD</b>	Quaque Altera Die (every other day)
<b>DDI</b>	Drug-Drug Interaction	<b>MDI</b>	Metered-Dose Inhaler	<b>QoL</b>	Quality of Life
<b>DFS</b>	Disease Free Survival	<b>MTD</b>	Maximum Tolerated Dose	<b>SAD</b>	Single Ascending Dose
<b>DLT</b>	Dose-Limiting Toxicity	<b>NME</b>	New Molecular Entity	<b>SC</b>	Subcutaneous
<b>DoR</b>	Duration of Response	<b>OCS</b>	Oral Corticosteroid	<b>SoC</b>	Standard of Care
<b>DPI</b>	Dry Powder Inhaler	<b>ORR</b>	Objective Response Rate	<b>TID</b>	Ter In Die (three times a day)
<b>FDC</b>	Fixed-Dose Combination	<b>OS</b>	Overall Survival	<b>VEGF</b>	Vascular Endothelial Growth Factor
<b>FEV</b>	Forced-Expiratory Volume	<b>PARP</b>	Poly ADP Ribose Polymerase	<b>XR</b>	Extended Release
<b>FPCD</b>	First Patient Commenced Dosing	<b>PD</b>	Pharmacodynamics		
<b>HRRm</b>	Homologous Recombination Repair mutation	<b>PFS</b>	Progression-Free Survival		
		<b>PK</b>	Pharmacokinetics		



# Table of contents slide

Movement since Q2 2018 results announcement

Q3 2018 NME pipeline

Q3 2018 LCM pipeline

## Approved medicines

Oncology

Cardiovascular, Renal & Metabolism (CVRM)

Respiratory

Other

## Late-stage pipeline

Oncology

CVRM

Respiratory

Other

## Early development - IMED (AstraZeneca research & early development)

Oncology

CVRM

Respiratory

Other

## Early development - MedImmune

Oncology

CVRM

Respiratory

Other



# Movement since Q2 2018 update

New to Phase I	New to Phase II	New to Pivotal Trial	New to Registration
<p><b>NMEs</b> AZD8233 hypercholesterolemia CV disease</p> <p><b>MEDI8154</b> Inhaled PI3Kgd asthma</p> <p><b>Additional indication</b> <i>oleclumab + Tagrisso</i> CD73 mAb + EGFR inhibitor EGFRm NSCLC</p> <p><b>Calquence + danavatirsen</b> BTK inhibitor + STAT3 inhibitor haematological malignancies</p>	<p><b>NME</b> AZD4635 <sup>5</sup> A2aR inhibitor solid tumours</p> <p><b>Additional indications</b> <i>Lynparza<sup>#</sup> + AZD6738</i> or <i>Lynparza<sup>#</sup> + adavosertib VIOLETTE</i> <sup>4</sup> PARP inhibitor + ATR inhibitor or PARP inhibitor+WEE1 inhibitor breast cancer</p> <p><b>Lynparza<sup>#</sup>+adavosertib<sup>#</sup></b> PARP inhibitor + WEE1 inhibitor solid tumours</p>	<p><b>Additional indications</b> <i>Imfinzi<sup>#</sup> + tremelimumab + SoC NILE</i> PD-L1 mAb + CTLA-4 mAb + SoC 1st-line urothelial cancer</p> <p><b>Imfinzi<sup>#</sup> + tremelimumab + CRT ADRIATIC</b> PD-L1 mAb + CTLA-4 mAb + CRT LD-SCLC</p> <p><b>Life-cycle Management</b> <i>Imfinzi<sup>#</sup> POTOMAC</i> PD-L1 mAb non muscle invasive bladder cancer</p> <p><b>Tagrisso LAURA</b> EGFR inhibitor stage 3 EGFRm NSCLC</p> <p><b>Farxiga DELIVER</b> SGLT2 inhibitor worsening HF or CV death in patients with chronic HF (HFpEF)</p>	<p><b>NME</b> PT010 [CN] <sup>1</sup> LABA/LAMA/ICS COPD</p> <p><b>Life-cycle management</b> <i>Lynparza<sup>#</sup> SOLO-1 [EU]</i> <sup>1</sup> PARP inhibitor 1st-line BRCAm ovarian cancer</p> <p><b>Symbicort SYGMA [EU]</b> <sup>1</sup> ICS/LABA as-needed use in mild asthma</p>
Removed from Phase I	Removed from Phase II	Removed from Phase III	Removed from Registration
<p><b>Additional indications</b> AZD7594 + abediterol Inhaled SGRM + LABA asthma/COPD</p> <p><b>Calquence + vistusertib</b> BTK inhibitor + mTOR inhibitor Haematological malignancies</p>	<p><b>NME</b> vistusertib mTOR inhibitor solid tumours</p>		<p><b>NME</b> <i>Lumoxiti<sup>#</sup> (moxetumomab pasudotox)<sup>#</sup> PLAIT [US]</i> <sup>2</sup> anti-CD22 recombinant immunotoxin 3rd-line hairy cell leukaemia</p> <p><b>Lifecycle management</b> <i>Bydureon EXSCEL [EU]</i> <sup>2</sup> GLP-1 receptor agonist type-2 diabetes outcomes trial</p>

<sup>¶</sup> Registrational Phase II/III trial

<sup>#</sup> Partnered and/or in collaboration

<sup>1</sup> Submission accepted <sup>2</sup> Submission approved <sup>3</sup> Completed <sup>4</sup> first patient dosed in Q2 2018 <sup>5</sup> first patient dosed in Q4 2017



# Q3 2018 New Molecular Entity<sup>1</sup> Pipeline

## Phase I

30 New Molecular Entities

### Small molecule Large molecule

AZD0156 ATM solid tumours	<i>Imfinzi</i> #+monalizumab# PD-L1+NKG2a solid tumours
AZD1390 glioblastoma	MEDI0562# hOX40 solid tumours
AZD4573 CDK9 haematological malignancies	MEDI1873 GITR solid tumours
AZD4785 KRAS solid tumours	MEDI2228 BCMA ADC multiple myeloma
AZD5153 BRD4 solid tumours	MEDI3726# PSMA ADC prostate
AZD5991 MCL1 haematological malignancies	MEDI5083 CD40 ligand fusion protein solid tumours
AZD9496 SERD ER+ breast	MEDI5752 PD-1/CTLA-4 solid tumours
MEDI9197# TLR 7/8 solid tumours	MEDIT247 ASC12 ADC haematological
AZD4831 MPO HFrEF	oleclumab# CD73 solid tumours
AZD8233 hypercholesterolemia cardiovascular	MEDIT219 anti-diabetic type-2 diabetes
AZD9977 MCR cardiovascular	MEDI3506 IL-33 COPD
AZD1402# inhaled IL-4Ra asthma	MEDI0700# BAFF/B7RP1 SLE
AZD5634 inhaled ENaC cystic fibrosis	MEDI1341 alpha synuclein parkinson's disease
AZD8154 Inhaled Pi3Kδ asthma	MEDI1814# amyloidβ alzheimer's disease
AZD0284 RORG psoriasis/respiratory	MEDI7352 NGF/TNF osteoarthritis pain

## Phase II

27 New Molecular Entities

### Small molecule Large molecule

adavosertib#+chemotherapy Wee1+chemo ovarian cancer	AZD8601# VEGF-A cardiovascular	<i>Imfinzi</i> #+MEDI0457# PD-L1+DNA HPV vaccine HNSCC
AZD2811# Aurora solid tumours	verinurad URAT-1 chronic kidney disease	<i>Imfinzi</i> #+MEDI0680 PD-L1+PD-1 solid tumours
AZD4547 FGFR solid tumours	abediterol# LABA asthma/COPD	MEDI0382 GLP-1/glucagon type-2 diabetes
AZD4635 A2aR inhibitor solid tumours	AZD1419# inhaled TLR9 asthma	MEDI5884# cholesterol modulation cardiovascular
AZD6738 ATR solid tumours	AZD7594 Inhaled SGRM asthma/COPD	MEDI6012 LCAT cardiovascular
AZD8186 PI3Kβ solid tumours	AZD7986# DPP1 COPD	MEDI3902 Psi/PcrV Pseudomonas pneumonia
capivasertib# AKT breast cancer	AZD8871# MABA COPD	MEDI852 influenza A treatment
<i>Imfinzi</i> #+AZD5069 or +danavatansen# PD-L1+CXCR2 or STAT3 HNSCC bladder NSCLC	AZD9567 SGRM RA/respiratory	MEDI8897# passive RSV prophylaxis
AZD5718 FLAP coronary artery disease		prezalumab# primary Sjögren's syndrome
		survatorxumab α-Toxin Staphylococcus pneumonia

## Phase III

6 New Molecular Entities

### Small molecule Large molecule

<i>Lynparza</i> #+cediranib CONCERTO PARP+VEGF recurrent Pt-R ovarian	<i>Imfinzi</i> #+tremelimumab MYSTIC PD-L1+CTLA-4 1L NSCLC
savolitinib# SAVOIR MET pRCC	tezepelumab# NAVIGATOR SOURCE TSLP severe uncontrolled asthma
selumetinib# SPRINT MEK paediatric neurofibromatosis	anifrolumab# TULIP Type I IFN receptor SLE

## Applications Under Review

2 New Molecular Entities

### Small molecule

roxadustat# HIFPH anaemia CKD/ESRD
PT010 LABA/LAMA/ICS COPD

<sup>1</sup> Includes significant fixed-dose combination projects, and parallel indications that are in a separate therapy area  
(See LCM chart for other parallel indications and oncology combination projects)

# Partnered and/or in collaboration; <sup>¶</sup> Registrational P2/3 trial



# Q3 2018 Lifecycle Management<sup>1</sup> Pipeline

Phase I 0 Projects	Phase II 7 Projects	Phase III 22 Projects	Applications Under Review 6 Projects	
Small molecule	Large molecule	Small molecule	Large molecule	Small molecule
<i>Calquence</i> BTK haematological malignancies	<i>Infinzi#</i> PD-L1 solid tumours	<i>Calquence#</i> BTK inhibitor 1st line MCL	<i>Brilinta/Brilique THALES</i> P2Y12 stroke	<i>Infinzi#</i> PEARL (China) PD-L1 1L NSCLC
<i>Brilinta/Brilique HESTIA</i> P2Y12 paediatric sickle cell	<i>tezepelumab#</i> TSLP atopic dermatitis	<i>Calquence#</i> BTK inhibitor 1st line CLL	<i>Brilinta/Brilique THEMIS</i> P2Y12 diabetes & CAD outcomes	<i>Infinzi#</i> POTOMAC PD-L1 non muscle invasive bladder cancer
<i>PT010</i> LABA/LAMA/ICS asthma	<i>anifrolumab#</i> Type I IFN receptor SLE SC	<i>Calquence#</i> BTK inhibitor r/r CLL, high risk	<i>Epanova STRENGTH</i> outcomes	<i>Fasenra#</i> IL-5R COPD
	<i>anifrolumab#</i> Type I IFN receptor lupus nephritis	<i>Calquence#</i> BTK inhibitor r/r CLL	<i>Farxiga/Fixigia</i> SGLT2 HFpEF	<i>Fasenra#</i> OSTRO IL-5R nasal polypsis
		<i>Lynparza# OlympiA</i> PARP gBRCA adjuvant breast	<i>Farxiga/Fixigia</i> SGLT2 CKD	
		<i>Lynparza# POLO</i> PARP pancreatic cancer	<i>Farxiga/Fixigia</i> DECLARE outcomes	
		<i>Lynparza# PROfound</i> PARP prostate cancer	<i>Farxiga/Fixigia</i> SGLT2 HFpEF	
		<i>Lynparza# SOLO-3</i> PARP BRCAm PSR ovarian	<i>roxadustat#</i> HIFPN anaemia MDS	
		<i>Tagrisso ADAURA</i> EGFR adj. EGFRm NSCLC		
		<i>Tagrisso LAURA</i> EGFR adj. EGFRm NSCLC		<i>Symbicort SYGMA</i> as needed in mild asthma
				<i>linaclootide#</i> (CN only) IBS-c
				<i>Nexium</i> (CN only) stress ulcer prophylaxis

<sup>1</sup> Includes significant LCM projects and parallel indications for assets in P3 or beyond. Excludes LCM projects already launched in a major market

# Partnered and/or in collaboration; <sup>†</sup> Registrational P2/3 trial



# Q3 2018 Lifecycle Management<sup>1</sup> Pipeline

## Oncology Combinations

Phase I 17 Projects	Phase II 8 Projects	Phase III 10 Projects	Applications Under Review 0 Projects
<i>Calquence</i> +AZD6738 BTK+ATR haematological tumours	<i>Imfinzi</i> #+oleclumab PD-L1+CD73 solid tumours	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 gastric cancer	<i>Imfinzi</i> #+tremelimumab DANUBE PD-L1+CTLA-4 1L bladder
<i>Calquence</i> +danavatirsen BTK+STAT3 haematological malignancies	<i>Imfinzi</i> #+RT (platform) CLOVER PD-L1+RT HNSCC NSCLC SCLC	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 biliary tract oesophageal	<i>Imfinzi</i> #+tremelimumab EAGLE PD-L1+CTLA-4 2L HNSCC
<i>Imfinzi</i> # or <i>Imfinzi</i> #+(treme or danavatirsen#) PD-L1 or PD-L1+(CTLA-4 or STAT3) DLBCL	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 solid tumours	<i>Imfinzi</i> #+ <i>Lynparza</i> # BAYOU PD-L1+PARP bladder	<i>Imfinzi</i> #+tremelimumab HIMALAYA PD-L1+CTLA-4 1L HCC
<i>Imfinzi</i> #+adavosertib# PD-L1+Wee1 solid tumours	<i>Imfinzi</i> #+tremelimumab+chemo PD-L1+CTLA-4 1L PDAC oesophageal SCLC	<i>Lynparza</i> #+adavosertib# PARP+Wee1 solid tumours	<i>Imfinzi</i> #+tremelimumab KESTREL PD-L1+CTLA-4 1L HNSCC
<i>Imfinzi</i> #+azacitidine# PD-L1+azacitidine MDS	<i>Imfinzi</i> +selumetinib# PL-L1+MEK solid tumours	<i>Lynparza</i> #+AZD6738 PARP+ATR gastric	<i>Imfinzi</i> #+tremelimumab NEPTUNE PD-L1+CTLA-4 1L NSCLC
<i>Imfinzi</i> #+dabrafenib+trametinib PD-L1+BRAF+MEK melanoma	oleclumab+AZD4635 CD73+A2aR EGFRm NSCLC	<i>Lynparza</i> #+AZD6738 or +adavosertib# VIOLETTE PARP+ATR or PARP+Wee1 breast	<i>Imfinzi</i> #+tremelimumab+CRT ADRIATIC PD-L1+CTLA-4+CRT LD-SCLC
<i>Imfinzi</i> #+Iressa PD-L1+EGFR NSCLC	oleclumab+Tagrisso CD73+EGFR EGFRm NSCLC	<i>Lynparza</i> #+ <i>Imfinzi</i> MEDIOLA PARP+PD-L1 ovarian breast gastric SCLC	<i>Imfinzi</i> #+tremelimumab+SoC CASPION PD-L1+CTLA-4+SoC 1L SCLC
<i>Imfinzi</i> #+MEDI0562# PD-L1+hOX40 solid tumours	tremelimumab+MEDI0562# CTLA-4+hOX40 solid tumours	Tagrisso combo# TATTON EGFR+PD-L1/MEK/MET NSCLC	<i>Imfinzi</i> #+tremelimumab+SoC NILE PD-L1+CTLA-4+SoC 1L urothelial cancer
<i>Imfinzi</i> #+MEDI9197# PD-L1+TLR 7/8 agonist			<i>Imfinzi</i> #+tremelimumab+SoC POSEIDON PD-L1+CTLA-4+SoC 1L NSCLC
		<i>Imfinzi</i> +CRT PACIFIC-2 PD-L1+CRT NSCLC	

<sup>1</sup> Includes significant LCM projects and parallel indications for assets in P3 or beyond. Excludes LCM projects already launched in a major market

# Partnered and/or in collaboration; \* Registrational P2/3 trial



# Estimated key regulatory submission acceptances timeline

NME  
LCM

	Lokelma JP		Fasenra severe asthma CN
	PT010 COPD (US & EU)		
	selumetinib		
roxadustat anaemia in CKD US	<i>Imfinzi</i> + tremelimumab (NEPTUNE)		
<i>Imfinzi</i> + tremelimumab (MYSTIC)	<i>Imfinzi</i> + tremelimumab (DANUBE)		
<i>Imfinzi</i> + tremelimumab (EAGLE)	<i>Imfinzi</i> +/- tremelimumab (CASPIAN)	savolitinib	<i>Imfinzi</i> + tremelimumab + SoC (NILE)
<i>Imfinzi</i> + tremelimumab (KESTREL)	<i>Imfinzi</i> +/- tremelimumab (POSEIDON)	<i>Lynparza</i> + cediranib (CONCERTO)	roxadustat anemia in MDS
H2 2018 / H1 2019	H2 2019	2020	2020+
<i>Lynparza</i> (SOLO-3)	<i>Brilinta</i> (THEMIS)	<i>Brilinta</i> (THALES)	<i>Brilinta</i> (HESTIA)
<i>Lynparza</i> (SOLO-1) US	<i>Calquence</i> CLL	<i>Epanova</i> (STRENGTH)	<i>Farxiga</i> (DAPA-CKD)
<i>Farxiga</i> T2D (DECLARE)	<i>Lynparza</i> (POLO)	<i>Farxiga</i> (DAPA-HF)	<i>Farxiga</i> HFpEF (DELIVER)
<i>Bydureon</i> (EXSCEL) CN	<i>Symbicort</i> (SYGMA) CN	<i>Imfinzi</i> (PEARL)	<i>Calquence</i> 1L MCL
<i>Farxiga</i> T2D (DEPICT) US		<i>Lynparza</i> (PROFOUND)	<i>Imfinzi</i> (POTOMAC)
<i>Lynparza</i> (OLYMPIAD) CN		<i>Lynparza</i> (PAOLA-1)	<i>Imfinzi</i> (BR.31 ADJUVANT)
		<i>Fasenra</i> (OSTRO)	<i>Imfinzi</i> + CRT (PACIFIC-2)
		<i>Duaklir Genuair</i> CN	<i>Lynparza</i> (OLYMPIA)
		<i>Xigduo</i> CN	<i>Tagrisso</i> (LAURA)
			<i>Tagrisso</i> (ADAURA)



# Designations

**4**

Accelerated approvals

Lynparza ovarian cancer (SOLO-2) (US)
Tagrisso EGFRm T790M NSCLC (US)
Imfinzi bladder cancer (US)
Calquence MCL (US)

**7**

Breakthrough Therapy Designations

Tagrisso EGFRm T790M NSCLC (US)
Lynparza prostate cancer (PROfound) (US)
Imfinzi bladder cancer 1L (US)
Calquence MCL (US)
Imfinzi stage III NSCLC 1L (PACIFIC) (US)
Tagrisso NSCLC 1L (FLAURA) (US)
tezepelumab asthma (US)

**8**

Fast Track

MEDI3902 Psl-PcrV pneumo Px (US)
savratoxumab (MEDI4893) Staph HAP (US)
Imfinzi NSCLC (US)
MEDI8897 RSV mAB (US)
Imfinzi HNSCC (HAWK) (US)
anifrolumab SLE (US)
Lynparza ovarian cancer (SOLO-2) (US)
Tagrisso EGFRm T790M NSCLC (CN)

**15**

Priority Review designations

Tagrisso EGFRm T790M NSCLC (JP)
Tagrisso EGFRm T790M NSCLC (US)
Imfinzi bladder cancer 2L (US)
Tagrisso NSCLC (AURA3) (US)
Calquence MCL (US)
Lynparza breast cancer (OLYMPIAD) (US)
roxadustat CKD (CN)
Tagrisso NSCLC (FLAURA) (US)
Imfinzi stage III NSCLC (PACIFIC) (EU)
Imfinzi stage III NSCLC (PACIFIC) (JP)
Lynparza tablet (US)
Lynparza tablet (CN)
Lynparza breast cancer (OLYMPIAD) (JP)
Tagrisso NSCLC 1L (FLAURA) (JP)
Lumoxiti HCL (US)

**20**

Orphan Drug Designations

Lynparza ovarian cancer (SOLO-2) (US)
Lumoxiti HCL (US)
Lumoxiti HCL (EU)
Crestor paediatric (US)
cediranib VEGFR tki (US)
Iressa EGFRm NSCLC (US)
Tagrisso EGFRm T790M NSCLC (US)
AZD3241 MPO (EU)
Calquence CLL 1L (US)
Calquence MCL (US)
Calquence WM (US)
Calquence WM (EU)
Calquence CLL 1L (EU)
Calquence MCL (EU)
selumetinib thyroid cancer (ASTRA) (US)
Lynparza breast cancer (OLYMPIAD) (JP)
Lynparza ovarian cancer (SOLO-2) (JP)
selumetinib NF1 type 1 (SPRINT) (US)
selumetinib NF1 type 1 (SPRINT) (EU)
Lynparza pancreatic cancer (POLO) (US)

Fat

Breakthrough therapy is a process designed to expedite the development and review of drugs which may demonstrate substantial improvement over available therapy.

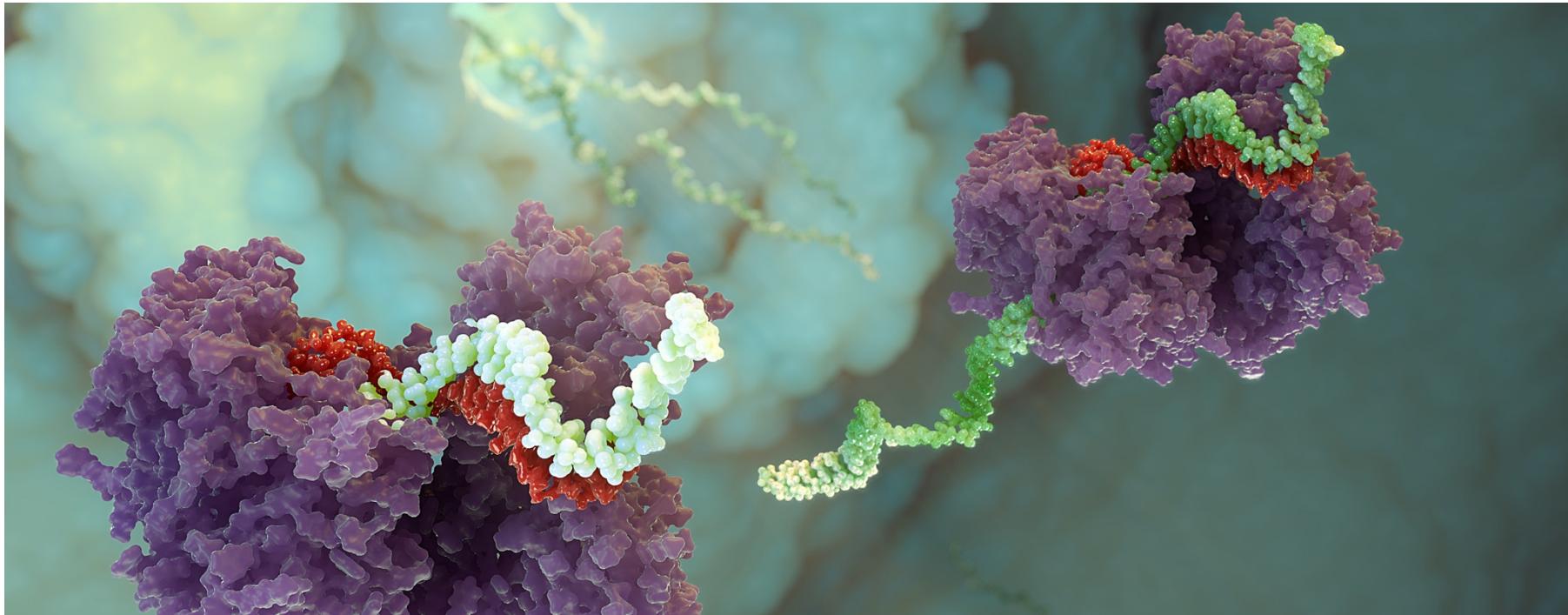
Accelerated approval, these regulations allowed drugs for serious conditions that filled an unmet medical need to be approved based on a surrogate endpoint.

Priority Review designation means FDA's goal is to take action on an application within 6 months

Orphan Drug Designation, intended for treatment, diagnosis or prevention of rare diseases/disorders that affect fewer than 200,000 people in the U.S., or that affect more than 200,000 persons but are not expected to recover the costs of developing and marketing a treatment drug.



## Approved medicines



# Lynparza (PARP inhibitor)

## Ovarian and other cancers

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III SOLO-1</b>  <a href="#">NCT01844986</a>	BRCAm maintenance ovarian cancer 1L	391	<ul style="list-style-type: none"> <li>Arm 1: Lynparza tablets 300mg BID maintenance therapy for two years or until disease progression</li> <li>Arm 2: placebo</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoint: OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2013</li> <li>LPCD: Q1 2015</li> <li>Data readout: Q2 2018</li> <li>Primary endpoint met</li> </ul>
<b>Phase III SOLO-3</b>  <a href="#">NCT02282020</a>	PSR gBRCAm ovarian cancer 3L+	411	<ul style="list-style-type: none"> <li>Arm 1: Lynparza 300mg BID to progression</li> <li>Arm 2: physician's choice (single-agent chemotherapy)</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoint: OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> </ul>
<b>Phase III OlympiA</b>  <a href="#">NCT02032823</a>  <a href="#">Partnered</a>	BRCAm adjuvant breast cancer	1,500	<ul style="list-style-type: none"> <li>Arm 1: Lynparza 300mg BiD 12 month duration</li> <li>Arm 2: placebo 12 month duration</li> </ul> Global trial partnership with BIG and NCI/NRG	<ul style="list-style-type: none"> <li>Primary endpoint: invasive disease-free survival (IDFS)</li> <li>Secondary endpoint: distant disease-free survival and OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> </ul>
<b>Phase III OlympiAD</b>  <a href="#">NCT02000622</a>	BRCAm metastatic breast cancer	302	<ul style="list-style-type: none"> <li>Arm 1: Lynparza 300mg BiD, continuous to progression</li> <li>Arm 2: physician's choice: capecitabine 2500mg/m2 x 14 q 21; vinorelbine 30mg/m2 d 1, 8 q 21; eribulin 1.4mg/m2 d 1, 8 q 21 to progression</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoint: OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> <li>LPCD: Q4 2015</li> <li>Data readout: Q1 2017</li> <li>Primary endpoint met</li> </ul>
<b>Phase III POLO</b>  <a href="#">NCT02184195</a>	gBRCAm pancreatic cancer	145	<ul style="list-style-type: none"> <li>Arm 1: Lynparza tablets 300mg twice daily as maintenance therapy until progression</li> <li>Arm 2: Placebo tablets BiD</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoint: OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>Data readout: H1 2019</li> </ul>
<b>Phase III PROfound</b>  <a href="#">NCT02987543</a>	Metastatic castration-resistant prostate cancer HRM, 2L+	340	<ul style="list-style-type: none"> <li>Arm 1: Lynparza 300mg BID</li> <li>Arm 2: Physician's choice: enzalutamide 160mg once daily; abiraterone acetate 1000mg once daily</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: radiologic PFS</li> <li>Secondary endpoints: ORR, Time to Pain Progression, OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>Data anticipated : H2 2019</li> </ul>



# Lynparza (PARP inhibitor)

## Combinations, cancers

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III PAOLA-1</b>  NCT02477644 Externally sponsored	Advanced ovarian cancer	806	<ul style="list-style-type: none"> <li>Arm 1: <i>Lynparza</i> maintenance therapy for two years or until disease progression</li> <li>Arm 2: Placebo for two years or until disease progression</li> </ul> <p>Global trial</p>	Primary endpoint: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>LPCD: Q2 2018</li> <li>Data anticipated: H2 2019</li> </ul>
<b>Phase III DuO-O</b>	Advanced ovarian cancer	1,056	<p>Non <i>tBRCA</i> (tumour <i>BRCA</i>) patients</p> <ul style="list-style-type: none"> <li>Arm 1: bevacizumab</li> <li>Arm 2: bevacizumab + <i>Imfinzi</i></li> <li>Arm 3: bevacizumab + <i>Imfinzi</i> + <i>Lynparza</i></li> </ul> <p><i>tBRCA</i> patients</p> <ul style="list-style-type: none"> <li>bevacizumab (optional) + <i>Imfinzi</i> + <i>Lynparza</i></li> </ul> <p>Global trial</p>	Primary endpoint: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase II DuO-L (ORION)</b>	Stage IV NSCLC whose disease has not progressed following SoC chemo + <i>Imfinzi</i> Maintenance therapy 1L	250	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + <i>Lynparza</i></li> <li>Arm 2: <i>Imfinzi</i> + placebo</li> </ul> <p>Global trial</p>	Primary endpoint: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>Data anticipated: 2020+</li> </ul>
<b>Phase III PROPEL</b>	Metastatic castration-resistant prostate cancer 1L	720	<ul style="list-style-type: none"> <li>Arm 1: <i>Lynparza</i> + abiraterone</li> <li>Arm 2: placebo + abiraterone</li> </ul> <p>Global trial</p>	Primary Endpoint: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>Data anticipated: 2020+</li> </ul>
<b>Phase II VIOLETTE</b>	Triple-negative breast cancer (TNBC)	450	<ul style="list-style-type: none"> <li>Arm 1: AZD6738 + <i>Lynparza</i></li> <li>Arm 2: AZD1775 + <i>Lynparza</i></li> <li>Arm 3: <i>Lynparza</i></li> </ul> <p>Trial conducted in 15 countries: North America, Europe and Asia</p>	<ul style="list-style-type: none"> <li>PFS</li> <li>ORR / OS</li> <li>Safety and Tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase II BAYOU</b>  NCT03459846	Platinum-Ineligible unresectable Stage IV urothelial cancer	150	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + <i>Lynparza</i></li> <li>Arm 2: <i>Imfinzi</i> + placebo</li> </ul> <p>Global trial</p>	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>Data anticipated : 2020</li> </ul>
<b>Phase I / II MEDIOLA</b>  NCT02734004	<i>gBRCA</i> ovarian cancer 2L+ <i>gBRCA</i> HER2-negative breast cancer 1-3L Small cell lung cancer (SCLC) 2L+ Gastric cancer 2L+	133	<ul style="list-style-type: none"> <li>Arm 1: <i>Lynparza</i> tablets starting on week 1 day 1 / <i>Imfinzi</i> IV 1.5g every 4 weeks starting on week 5 day 1</li> <li>Dose until progression</li> </ul> <p>Global trial</p>	Primary endpoints: <ul style="list-style-type: none"> <li>DCR at 12 weeks</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> </ul>



# Tagrisso (highly-selective, irreversible EGFRi)

## Non-small cell lung cancer (NSCLC)

Trial	Population	Patients	Design	Endpoints	Status
Phase III ADAURA <a href="#">NCT02511106</a>	Adjuvant EGFRm	700	<ul style="list-style-type: none"> <li>Arm 1: Tagrisso 80mg QD following complete tumour resection, with or without chemotherapy</li> <li>Arm 2: Placebo</li> </ul> Global trial - 25 countries	<ul style="list-style-type: none"> <li>Primary endpoint: Disease Free Survival (DFS)</li> <li>Secondary endpoints: DFS Rate, OS, OS Rate, QoL</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: 2020+</li> </ul>
Phase III LAURA <a href="#">NCT03521154</a>	Maintenance therapy in patients with locally advanced, unresectable EGFRm+ Stage III whose disease has not progressed following platinum-based chemoradiation therapy	200	<ul style="list-style-type: none"> <li>Arm 1: Tagrisso 80mg</li> <li>Arm 2: placebo</li> </ul> Global trial - 11 countries	<ul style="list-style-type: none"> <li>Primary endpoint: PFS (via blinded independent central review (BICR))</li> <li>Secondary endpoints: CNS PFS, OS, DoR, ORR, DCR</li> </ul>	<ul style="list-style-type: none"> <li>Data anticipated: 2020+</li> </ul>
Phase III FLAURA <a href="#">NCT02296125</a>	Advanced EGFRm 1L	556	<ul style="list-style-type: none"> <li>Arm 1: Tagrisso 80mg</li> <li>Arm 2: erlotinib 150mg or Iressa 250mg (physician's choice); 1:1 randomisation</li> </ul> Global trial – 30 countries	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoints: OS and QoL</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>LPCD: Q4 2016</li> <li>Data readout: Q3 2017</li> <li>Primary endpoint met</li> </ul>
Phase Ib TATTION <a href="#">NCT02143466</a>	Advanced EGFRm TKI failure	308	<ul style="list-style-type: none"> <li>Arm 1: Tagrisso + Imfinzi</li> <li>Arm 2: Tagrisso + savolitinib</li> <li>Arm 3: Tagrisso + selumetinib</li> </ul> Enrolment to Imfinzi combination arms will not restart Global trial	<ul style="list-style-type: none"> <li>Safety, tolerability, pharmacokinetics and Preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2014</li> </ul>
Phase III ASTRIS <a href="#">NCT02474355</a>	Real world setting in adult patients with advanced or metastatic, EGFR T790M+	3,515	Single-arm trial - Tagrisso 80mg  Global trial - 16 countries	<ul style="list-style-type: none"> <li>Primary endpoints: OS and safety</li> <li>Secondary endpoint: PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> </ul>
Phase II ELIOS <a href="#">NCT03239340</a>	EGFR TKI treatment-naïve patients with locally-advanced or metastatic EGFRm+	100	Single arm trial – Tagrisso 80 mg  Global trial - five countries	<ul style="list-style-type: none"> <li>Primary Endpoint: proportion of patients with a given tumour genetic and proteomic marker at the point of disease progression as defined by the investigator</li> <li>Secondary endpoint: PFS, ORR, DoR</li> </ul>	



# Imfinzi (PD-L1 mAb)

## Non-small cell lung cancer (NSCLC), early use

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III ADJUVANT BR.31</b>  NCT02273375  Partnered	Adjuvant NSCLC patients IB ( $\geq 4\text{cm}$ ) – IIIA resected NSCLC (incl. EGFR/ALK positive)	1,360	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> mg/kg IV Q4W x 12m</li> <li>Arm 2: placebo</li> </ul> <p>Global trial</p>	<p>Primary endpoint:</p> <ul style="list-style-type: none"> <li>DFS</li> </ul> <p>Secondary endpoint:</p> <ul style="list-style-type: none"> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>Data anticipated: 2020</li> </ul>
<b>Phase II/III Lung Master Protocol</b>  NCT02154490  Partnered	Stage IV squamous NSCLC patients  Biomarker-targeted 2L therapy	140	Umbrella trial with five arms based on biomarker expression: <ul style="list-style-type: none"> <li>Substudy A: <i>Imfinzi</i> (non-match for other biomarker driven substudies) IVQ2W single arm <i>Imfinzi</i> Phase II only</li> <li>Substudy B: PI3K inhibitor vs. docetaxel</li> <li>Substudy C: CDK4/6 inhibitor vs. docetaxel</li> <li>Substudy D: AZD4547 (FGFR inhibitor) vs. docetaxel</li> <li>Substudy E: C-MET/HGFR Inhibitor + erlotinib vs. erlotinib</li> </ul>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>ORR</li> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase III PACIFIC-2</b>  NCT03519971	<i>Imfinzi</i> + CRT in unresected, locally-advanced NSCLC	300	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> IV Q4W + chemo/RT (radiation therapy)</li> <li>Arm 2: placebo + chemo/RT</li> </ul> <p>ex US global trial</p>	<p>Primary endpoint:</p> <ul style="list-style-type: none"> <li>PFS</li> <li>ORR</li> </ul> <p>Secondary endpoint:</p> <ul style="list-style-type: none"> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>Data readout: 2020+</li> </ul>
<b>Phase III PACIFIC-5</b>	<i>Imfinzi</i> + CRT in unresected, locally-advanced NSCLC	360	Arm 1: <i>Imfinzi</i> IV Q4W + chemo/RT (radiation therapy) Arm 2: placebo + chemo/RT ex US global trial, China focus	<p>Primary endpoint:</p> <ul style="list-style-type: none"> <li>PFS</li> </ul> <p>Secondary endpoint:</p> <ul style="list-style-type: none"> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data readout: 2020+</li> </ul>



# *Imfinzi* (PD-L1 mAb)

## Other cancers

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> NCT02301130 <b>Partnered</b>	Solid tumours	108	<ul style="list-style-type: none"> <li>Dose escalation: N=36, three cohorts receiving Treatment A (mogamulizumab + <i>Imfinzi</i>) and three cohorts receiving Treatment B (mogamulizumab + tremelimumab), in parallel</li> <li>Dose expansion: N=72, Multiple solid tumour types (NSCLC HNSCC (head and neck squamous-cell carcinoma), Pancreatic), Treatment A or B (12 subjects per treatment per disease type, in parallel)</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>MTD</li> <li>ORR, DoR, DCR, PFS, OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>LPCD: Q3 2017</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase I</b> NCT01938612	Solid tumours (all-comers)	176	<ul style="list-style-type: none"> <li>Dose escalation: Three cohorts at Q2W and 1 cohort at Q3W</li> <li>Dose expansion: biliary tract cancer, oesophageal cancer and SCCNH, Q2, and Q4 schedule</li> <li>Dose expansion of combination: Biliary Tract Cancer and Oesophageal Cancer, <i>Imfinzi</i> Q4W 20mg/kg + tremelimumab Q4W 1mg/kg</li> </ul> <p>Trial conducted in Japan</p>	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2013</li> <li>LPCD: Q1 2017</li> <li>Data anticipated: Q4 2018</li> </ul>



# *Imfinzi* (PD-L1 mAb) + tremelimumab (CTLA-4 mAb)

## Lung cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase III MYSTIC NCT02453282	NSCLC 1L	1,118	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i></li> <li>Arm 2: <i>Imfinzi</i> + tremelimumab</li> <li>Arm 3: SoC</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q3 2016</li> <li>Data anticipated: Q4 2018 (OS)</li> <li>PFS primary endpoint not met</li> </ul>
Phase III NEPTUNE NCT02542293	NSCLC 1L	960	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab</li> <li>Arm 2: SoC</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: OS</li> <li>Secondary endpoint: PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q2 2017</li> <li>Data anticipated: H1 2019</li> </ul>
Phase III POSEIDON NCT03164616	NSCLC 1L	1,000	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + CTx</li> <li>Arm 2: <i>Imfinzi</i> + tremelimumab + chemotherapy</li> <li>Arm 3: SoC</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>LPCD: Q3 2018</li> <li>Data anticipated: H2 2019</li> </ul>
Phase III PEARL NCT03003962	NSCLC 1L	650	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> Q4W</li> <li>Arm 2: chemotherapy</li> </ul> <p>Asia trial</p>	Primary endpoints: <ul style="list-style-type: none"> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: 2020</li> </ul>
Phase III ADRIATIC NCT03703297	Limited disease- Small cell lung cancer (SCLC) 1L following platinum-based concurrent chemoradiation therapy	600	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab (4 doses)</li> <li>Arm 2: <i>Imfinzi</i></li> <li>Arm 3: placebo</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2018</li> <li>Data anticipated: 2020+</li> </ul>
Phase III CASPIAN NCT03043872	SCLC 1L	795	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab + EP (carboplatin or cisplatin + etoposide)</li> <li>Arm 2: <i>Imfinzi</i> + EP (carboplatin or cisplatin + etoposide)</li> <li>Arm 3: EP (carboplatin or cisplatin + etoposide)</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>LPCD: Q2 2018</li> <li>Data anticipated: H2 2019</li> </ul>
Phase II BALTIMORE NCT02937818	SCLC	80	<ul style="list-style-type: none"> <li>Arm A: <i>Imfinzi</i> + tremelimumab Q4W</li> <li>Arm B: AZD1775 and carboplatin BID</li> <li>Arm C: AZD6738 and Lynparza</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2016</li> <li>Data anticipated: 2020+</li> </ul>



# *Imfinzi* (PD-L1 mAb) + tremelimumab (CTLA-4 mAb)

## Other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase III <b>EAGLE</b> NCT02369874	Head and neck squamous-cell carcinoma (HNSCC) 2L	736	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab</li> <li>Arm 2: <i>Imfinzi</i></li> <li>Arm 3: Standard of care</li> </ul>	Primary endpoint: <ul style="list-style-type: none"> <li>OS</li> </ul> Secondary endpoint: <ul style="list-style-type: none"> <li>PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q3 2017</li> <li>Data anticipated: Q4 2018</li> </ul>
Phase III <b>KESTREL</b> NCT02551159	HNSCC 1L	823	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i></li> <li>Arm 2: <i>Imfinzi</i> + tremelimumab</li> <li>Arm 3: Standard of care</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD Q1 2017</li> <li>Data anticipated: H1 2019</li> </ul>
Phase III <b>HIMALAYA</b> NCT03298451	Unresectable Hepatocellular Carcinoma (HCC) 1L	1,200	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab (Regimen 1)</li> <li>Arm 2: <i>Imfinzi</i> + tremelimumab (Regimen 2)</li> <li>Arm 3: <i>Imfinzi</i></li> <li>Arm 4: sorafenib</li> </ul>	Primary endpoint: <ul style="list-style-type: none"> <li>OS</li> </ul> Secondary endpoint: <ul style="list-style-type: none"> <li>PFS, time to tumour progression (TPP), ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: 2020+</li> </ul>
Phase III <b>POTOMAC</b> NCT03528694	Non-muscle invasive bladder cancer	975	<ul style="list-style-type: none"> <li>Arm 1: BCG (Bacillus Calmette–Guérin) (Induction + Maintenance)</li> <li>Arm 2: <i>Imfinzi</i> + BCG (Induction only)</li> <li>Arm 3: <i>Imfinzi</i> + BCG (Induction + Maintenance)</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>DFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data anticipated: 2020+</li> </ul>
Phase III <b>NIAGARA</b>	Muscle-invasive bladder cancer	960	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> in combination with gemcitabine + cisplatin, <i>Imfinzi</i> maintenance</li> <li>Arm 2: gemcitabine + cisplatin</li> </ul>	CoPrimary endpoints: <ul style="list-style-type: none"> <li>pCR</li> <li>EFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data anticipated: 2020+</li> </ul>
Phase III <b>DANUBE</b> NCT02516241	Cis-eligible and ineligible bladder cancer 1L	1,005	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab</li> <li>Arm 2: <i>Imfinzi</i></li> <li>Arm 3: SoC</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q1 2017</li> <li>Data anticipated: H2 2019</li> </ul>
Phase III <b>NILE</b> NCT03682068	Bladder cancer 1L	885	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i> + tremelimumab + SoC</li> <li>Arm 2: <i>Imfinzi</i> + SoC</li> <li>Arm 3: SoC</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>PFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data anticipated: 2020+</li> </ul>
Phase II NCT02527434	Urothelial bladder cancer triple-negative breast cancer pancreatic ductal adenocarcinoma	76	<ul style="list-style-type: none"> <li>Arm 1 tremelimumab urothelial bladder cancer</li> <li>Arm 2 tremelimumab triple-negative breast cancer</li> <li>Arm 3 tremelimumab pancreatic ductal adenocarcinoma</li> </ul>	Primary endpoint: <ul style="list-style-type: none"> <li>ORR</li> </ul> Secondary endpoints: <ul style="list-style-type: none"> <li>Safety, DoR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: Q4 2018</li> </ul>

pCR = Pathologic Complete Response

EFS = event free survival



# *Imfinzi* (PD-L1 mAb) + tremelimumab (CTLA-4 mAb)

## Other cancers

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III STRONG</b>  NCT03084471	Advanced solid malignancies	1,200	<ul style="list-style-type: none"> <li>Arm 1: <i>Imfinzi</i></li> <li>Arm 2: <i>Imfinzi</i> + tremelimumab</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase I Combination in Advanced Solid Tumours</b>  NCT02658214	Solid tumours	80	<ul style="list-style-type: none"> <li>Arm 2 Small cell lung cancer (SCLC). <i>Imfinzi</i> + tremelimumab + carboplatin + etoposide</li> <li>Arm 3 TNBC (triple-negative breast cancer): <i>Imfinzi</i>+ tremelimumab + chemo</li> <li>Arm 4 TNBC: <i>Imfinzi</i> + tremelimumab + chemo</li> <li>Arm 5 Gastric/gastro-Oesophageal junction (GEJ): <i>Imfinzi</i> + tremelimumab + oxaliplatin + 5-fluorouracil (5FU) + leucovorin</li> <li>Arm 6 PDAC (pancreatic ductal adenocarcinoma): <i>Imfinzi</i>+ tremelimumab + chemo</li> <li>Arm 7 ESSC (esophageal squamous cell carcinoma): <i>Imfinzi</i>+ tremelimumab + chemo</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>LPCD: Q4 2016</li> <li>Data anticipated: H2 2019</li> </ul>
<b>Phase I Immunotherapy in Combination With Chemoradiation in Patients With Advanced Solid Tumours</b>  CLOVER  NCT03509012	Head and neck squamous-cell carcinoma (HNSCC), Non-small-cell lung cancer (NSCLC), Small-cell lung cancer (SCLC)	300	<ul style="list-style-type: none"> <li>HNSCC Arm 1 <i>Imfinzi</i> + cisplatin with radiation in patients with locally advanced HNSCC</li> <li>NSCLC Arm 1 <i>Imfinzi</i> + cisplatin and etoposide with radiation in patients with locally advanced, unresectable (Stage III) NSCLC</li> <li>NSCLC Arm 2 <i>Imfinzi</i> + carboplatin and paclitaxel with radiation in patients with locally-advanced, unresectable (Stage III) NSCLC</li> <li>NSCLC Arm 3 Investigator's choice of carboplatin and pemetrexed OR cisplatin and pemetrexed</li> <li>SCLC Arm 1 Patients should start with cisplatin, but if cisplatin is not tolerated, they have the option to switch to carboplatin</li> <li>SCLC Arm 2 Patients with limited-stage SCLC should start with cisplatin, but if cisplatin is not tolerated, they have the option to switch to carboplatin</li> <li>SCLC Arm 3 Patients should start with cisplatin, but if cisplatin is not tolerated, they have the option to switch to carboplatin. Note: Arm 3 will only be opened if the regimen in SCLC Arm 1 is safe and tolerable</li> <li>SCLC Arm 4 Patients should start with cisplatin, but if cisplatin is not tolerated, they have the option to switch to carboplatin. Note: Arm 4 will only be opened if the regimen in SCLC Arm 2 is safe and tolerable</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>Data anticipated: 2020+</li> </ul>



# Calquence (BTK inhibitor)

## Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase III ACE-CL-007 (ELEVATE-TN) <a href="#">NCT02475681</a>	Previously untreated chronic lymphocytic leukaemia (CLL)	535	<ul style="list-style-type: none"> <li>Arm A: chlorambucil + obinutuzumab</li> <li>Arm B: Calquence + obinutuzumab</li> <li>Arm C: Calquence</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: PFS (Arm A vs. Arm B)</li> <li>Secondary endpoints: IRC (independent review committee) assessed ORR, OS (Arm A vs. Arm B vs. Arm C)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data anticipated: H2 2019</li> </ul>
Phase III ACE-CL-309 <a href="#">NCT02970318</a>	Relapsed/refractory CLL	306	<ul style="list-style-type: none"> <li>Arm A: Calquence</li> <li>Arm B: rituximab + idelalisib or bendamustine (investigator's choice)</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: IRC assessed PFS (arm A vs. Arm B)</li> <li>Secondary endpoints: INV-assessed ORR, OS, DoR, patient reported outcomes (PROs)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD Q3 2016</li> <li>Data anticipated: H2 2019</li> </ul>
Phase III ACE-CL-006 (ELEVATE-RR) <a href="#">NCT02477696</a>	Relapsed/refractory high risk CLL	533	<ul style="list-style-type: none"> <li>Arm A: Calquence</li> <li>Arm B: ibrutinib</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoints: comparison of incidence of infections, RTs (Richter's Transformation) and atrial fibrillation, OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data anticipated: 2020+</li> </ul>
Phase III ACE-LY-308 <a href="#">NCT02972840</a>	Previously untreated mantle cell lymphoma (MCL)	546	<ul style="list-style-type: none"> <li>Arm A: Calquence + bendamustine + rituximab</li> <li>Arm B: bendamustine + rituximab</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: PFS by Lugano Classification for non-Hodgkin's Lymphoma (NHL)</li> <li>Secondary endpoints: Investigator-assessed (IA) PFS, ORR; IRC-assessed ORR, DoR, time to response; OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: 2020+</li> </ul>
Phase II ACE-CL-208 <a href="#">NCT02717611</a>	Relapsed/ refractory CLL, intolerant to ibrutinib	60	Calquence monotherapy	ORR at 36 cycles	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>Data anticipated: 2020</li> </ul>
Phase II 15-H-0016 <a href="#">NCT02337829</a>	Relapsed/refractory and treatment naïve/del17p CLL/small lymphocytic lymphoma (SLL)	48	<p>Calquence monotherapy</p> <ul style="list-style-type: none"> <li>Arm A: Lymph node biopsy</li> <li>Arm B: Bone marrow biopsy</li> </ul>	ORR	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>Data readout: Q4 2017</li> </ul>
Phase II ACE-LY-004 <a href="#">NCT02213926</a>	Relapsed/refractory MCL	124	Calquence monotherapy	ORR	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>Data readout: Q2 2017</li> </ul>
Phase I/II ACE-CL-001 <a href="#">NCT02029443</a>	CLL/SLL/Richter's transformation (RT)	286	<p>Calquence monotherapy</p> <p>Dose escalation and expansion</p>	Safety, PK, PD	<ul style="list-style-type: none"> <li>FPCD: Q1 2014</li> <li>Data anticipated: H1 2019</li> </ul>



# Calquence (BTK inhibitor)

## Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase I/II ACE-LY-001 <a href="#">NCT02328014</a>	B-cell Malignancies	126	Dose escalation and expansion trial of the combination of Calquence and ACP-319 (Pi3K inhibitor)	<ul style="list-style-type: none"> <li>Safety</li> <li>ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>Data readout: Q4 2017</li> </ul>
Phase I/II ACE-LY-005 <a href="#">NCT02362035</a>	Haematological Malignancies	159	Calquence + pembrolizumab	<ul style="list-style-type: none"> <li>Safety</li> <li>Secondary endpoints: ORR, DoR, PFS, OS, TTNT (time to next therapy)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>Data anticipated: 2020+</li> </ul>
Phase I/II ACE-WM-001 <a href="#">NCT02180724</a>	Waldenstrom Microglobulinaemia	106	Calquence monotherapy	<ul style="list-style-type: none"> <li>ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2014</li> <li>Data anticipated: 2020</li> </ul>
Phase Ib ACE-LY-002 <a href="#">NCT02112526</a>	Relapsed/refractory de novo activated B-cell diffuse large B-cell lymphoma (DLBCL)	21	Calquence monotherapy	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2014</li> <li>Data readout: Q2 2017</li> </ul>
Phase Ib ACE-LY-106 <a href="#">NCT02717624</a>	Mantle Cell Lymphoma (MCL)	48	Calquence in combination with bendamustine and rituximab <ul style="list-style-type: none"> <li>Arm A: Treatment naïve</li> <li>Arm B: Relapsed/refractory</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>Data anticipated: 2020+</li> </ul>
Phase Ib ACE-MY-001 <a href="#">NCT02211014</a>	Relapsed/refractory Multiple Myeloma	28	<ul style="list-style-type: none"> <li>Arm A: Calquence</li> <li>Arm B: Calquence + dexamethasone</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>Data readout: Q4 2018</li> </ul>
Phase I ACE-LY-003 <a href="#">NCT02180711</a>	Relapsed/refractory Follicular Lymphoma	80	<ul style="list-style-type: none"> <li>Arm A: Calquence</li> <li>Arm B: Calquence + rituximab</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2014</li> <li>Data anticipated: 2020+</li> </ul>
Phase I ACE-CL-002 <a href="#">NCT02157324</a>	Relapsed/refractory CLL/small lymphocytic lymphoma (SLL)	12	Calquence in combination with ACP-319 Dose escalation	<ul style="list-style-type: none"> <li>Safety, PK, PD</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2014</li> <li>Data anticipated: Q4 2018</li> </ul>
Phase I ACE-CL-003 <a href="#">NCT02296918</a>	CLL/SLL/Prolymphocytic Leukaemia (PLL)	72	<ul style="list-style-type: none"> <li>Calquence + obinutuzumab</li> <li>Arm A: Relapsed/refractory</li> <li>Arm B: Treatment naïve</li> <li>Calquence + venetoclax + rituximab</li> <li>Arm C: Relapsed/refractory</li> <li>Arm D: Treatment naïve</li> </ul>	<ul style="list-style-type: none"> <li>Safety, ORR</li> <li>Secondary endpoints: PD, PFS, TTNT, OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>Data anticipated: 2020+</li> </ul>

# Calquence (BTK inhibitor)

## Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
<b>Phase I</b>  NCT03198650	Japanese Adults with Advanced B-cell Malignancies	28	<ul style="list-style-type: none"> <li>• Calquence monotherapy</li> <li>• Dose confirmation and expansion</li> </ul>	<ul style="list-style-type: none"> <li>• Safety</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2017</li> <li>• Data anticipated: 2020+</li> </ul>
<b>Phase I/II</b> CL-110  NCT03328273	CLL (chronic lymphocytic leukaemia) R/R	62	<ul style="list-style-type: none"> <li>• Arm A: AZD6738 monotherapy</li> <li>• Arm B: Calquence + AZD6738</li> </ul>	<ul style="list-style-type: none"> <li>• Identify dose of AZD 6738 and safety of co-administration of Calquence + AZD6738</li> </ul>	FPCD: Q1 2018 Data anticipated: 2020



# Calquence (BTK inhibitor)

## Other cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase II ACE-ST-006 <a href="#">NCT02454179</a>	≥ 2L advanced or metastatic Head and neck squamous-cell carcinoma (HNSCC)	74	<ul style="list-style-type: none"> <li>Arm A: pembrolizumab</li> <li>Arm B: <i>Calquence</i> + pembrolizumab</li> </ul>	• ORR	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data readout: Q2 2018</li> </ul>
Phase II ACE-ST-007 <a href="#">NCT02448303</a>	≥ 2L advanced or metastatic Non-small-cell lung cancer (NSCLC)	74	<ul style="list-style-type: none"> <li>Arm A: pembrolizumab</li> <li>Arm B: <i>Calquence</i> + pembrolizumab</li> </ul>	• ORR	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data readout: Q2 2017</li> </ul>
Phase II ACE-ST-208 <a href="#">NCT02537444</a>	Recurrent ovarian cancer	76	<ul style="list-style-type: none"> <li>Arm A: <i>Calquence</i></li> <li>Arm B: <i>Calquence</i> + pembrolizumab</li> </ul>	• ORR	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data readout: Q4 2018</li> </ul>
Phase II ACE-ST-003 <a href="#">NCT02362048</a>	≥ 2L advanced or metastatic pancreatic cancer	73	<ul style="list-style-type: none"> <li>Arm A: <i>Calquence</i></li> <li>Arm B: <i>Calquence</i> + pembrolizumab</li> </ul>	• Safety	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data readout: Q3 2017</li> </ul>
Phase II ACE-ST-005 <a href="#">NCT02351739</a>	Platinum-resistant urothelial bladder cancer	75	<ul style="list-style-type: none"> <li>Arm A: pembrolizumab</li> <li>Arm B: <i>Calquence</i> + pembrolizumab</li> </ul>	• ORR	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data readout: Q1 2018</li> </ul>
Phase Ib/II ACE-ST-209 <a href="#">NCT02586857</a>	≥ 2L glioblastoma multiforme	72	<ul style="list-style-type: none"> <li>Arm A: <i>Calquence</i> 200 mg BID</li> <li>Arm B: <i>Calquence</i> 400 mg QD</li> </ul>	• Safety, ORR	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>Data readout: Q4 2018</li> </ul>



# Lumoxiti (moxetumomab pasudotox, CD22 mAb)

## Blood cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III PLAIT</b> <a href="#">NCT01829711</a>	Adults with relapsed or refractory hairy cell leukaemia (HCL)	77	<ul style="list-style-type: none"> <li>Multicentre, single-arm, open-label Phase III trial</li> <li><i>Lumoxiti</i> IV at the recommended dose</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Rate of durable CR (complete response): CR maintained for &gt; 180 days</li> <li>Efficacy: CR rate, ORR, Duration of CR and ORR, time to response (TTR), PFS</li> <li>Safety and tolerability</li> <li>PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2013</li> <li>Data readout: Q3 2017</li> <li>Primary endpoint met</li> </ul>
<b>Phase I</b> <a href="#">NCT00586924</a>	Adults with relapsed refractory HCL	49	<ul style="list-style-type: none"> <li>Open-label dose escalation Phase I trial</li> <li><i>Lumoxiti</i> IV</li> </ul>	<ul style="list-style-type: none"> <li>MTD and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2007</li> <li>LPCD: Q1 2014</li> <li>Data readout: Q2 2015</li> </ul>



# Brilinta (ADP receptor antagonist)

## Cardiovascular risk reduction

Trial	Population	Patients	Design	Endpoints (primary)	Status
<b>Phase III THEMIS</b> <b>NCT01991795</b>	Patients with type-2 diabetes and coronary artery disease without a previous history of myocardial infarction (MI) or stroke	19,000	<ul style="list-style-type: none"> <li>• Arm 1: Brilinta 60mg BiD</li> <li>• Arm 2: Placebo BiD on a background of acetylsalicylic acid if not contra-indicated or not tolerated</li> </ul> <p>Global trial – 42 countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Composite of cardiovascular (CV) death, non-fatal MI and non-fatal stroke</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>• Prevention of CV death</li> <li>• Prevention of MI</li> <li>• Prevention of ischaemic stroke</li> <li>• Prevention of all-cause death</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2014</li> <li>• LPCD: Q2 2016</li> <li>• Data anticipated: H1 2019</li> </ul>
<b>Phase III THALES</b> <b>NCT03354429</b>	Patients with acute ischaemic stroke or transient ischaemic attack	13,000	<ul style="list-style-type: none"> <li>• Arm 1: Brilinta 90mg BiD</li> <li>• Arm 2: placebo BiD on a background of acetylsalicylic acid if not contra-indicated or not tolerated</li> </ul> <p>Global trial – 28 countries</p>	<p>Primary endpoint:</p> <ul style="list-style-type: none"> <li>• Prevention of the composite of subsequent stroke and death at 30 days</li> </ul> <p>Secondary endpoints include:</p> <ul style="list-style-type: none"> <li>• Prevention of subsequent ischaemic stroke at 30 days</li> <li>• Reduction of overall disability at 30 days</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2018</li> <li>• Data anticipated: 2020</li> </ul>



# ***Farxiga (SGLT2 inhibitor)***

## Diabetes

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III/IV DECLARE</b> <b>NCT01730534</b>	Type-2 diabetes with high risk for CV event	17,190	<ul style="list-style-type: none"> <li>Arm 1: <i>Farxiga</i> 10mg QD + SoC therapy QD</li> <li>Arm 2: Placebo + SoC therapy for type-2 Diabetes</li> </ul> Global trial – 33 countries	<ul style="list-style-type: none"> <li>Primary endpoints: Superiority for major adverse cardiac events (MACE) (CV death, non-fatal MI (myocardial infarction) or non-fatal stroke). Superiority for the composite endpoint of CV death or hospitalisation for heart failure.</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2013</li> <li>LPCD: Q2 2015</li> <li>Data Readout: Q3 2018</li> <li>Met primary safety endpoint and one of two primary efficacy endpoints (hHF or CV death)</li> </ul>
<b>Phase III NCT02096705</b> <b>Partnered</b>	Asian patients with type-2 diabetes with inadequate glycaemic control on insulin	273	<ul style="list-style-type: none"> <li>Arm 1: <i>Farxiga</i> 10mg QD for 24 weeks + background insulin</li> <li>Arm 2: Placebo QD for 24 weeks + background insulin</li> </ul> Asia trial – three countries	<ul style="list-style-type: none"> <li>Primary endpoint: Change from baseline in haemoglobin A1C (HbA1c) at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2014</li> <li>LPCD: Q1 2016</li> <li>Data Readout: Q2 2016</li> <li>Primary endpoint met</li> </ul>
<b>Phase III DERIVE</b> <b>NCT02413398</b>	Patients with type-2 diabetes and moderate renal impairment	302	<ul style="list-style-type: none"> <li>Arm 1: <i>Farxiga</i> 10mg QD for 24 weeks</li> <li>Arm 2: Placebo 10mg QD for 24 weeks</li> </ul> Global trial – eight countries	<ul style="list-style-type: none"> <li>Primary endpoint: Change from baseline in HbA1c at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>LPCD: Q2 2017</li> <li>Data readout: Q1 2018</li> <li>Primary endpoint met</li> </ul>
<b>Phase III DEPICT 1</b> <b>NCT02268214</b> <b>Partnered</b>	Type-1 diabetes	833	<ul style="list-style-type: none"> <li>Arm 1: <i>Farxiga</i> 5mg QD 52 weeks + insulin</li> <li>Arm 2: <i>Farxiga</i> 10mg QD 52 weeks + insulin</li> <li>Arm 3: Placebo QD 52 weeks + insulin</li> </ul> Global trial – 17 countries	<ul style="list-style-type: none"> <li>Primary endpoint: Adjusted Mean Change From Baseline in HbA1c at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>LPCD Q2 2016</li> <li>Data readout: Q1 2017</li> <li>Primary endpoint met</li> </ul>
<b>Phase III DEPICT 2</b> <b>NCT02460978</b> <b>Partnered</b>	Type-1 diabetes	813	<ul style="list-style-type: none"> <li>Arm 1: <i>Farxiga</i> 5mg QD 52 weeks + insulin</li> <li>Arm 2: <i>Farxiga</i> 10mg QD 52 weeks + insulin</li> <li>Arm 3: Placebo QD 52 weeks + insulin</li> </ul> Global trial – 14 countries	<ul style="list-style-type: none"> <li>Primary endpoint: Adjusted Mean Change From Baseline in Haemoglobin A1C (HbA1c) at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q1 2017</li> <li>Data readout: Q4 2017</li> <li>Primary endpoint met</li> </ul>



# ***Farxiga (SGLT2 inhibitor)***

## Diabetes / cardiovascular risk reduction

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III Dapa-HF</b>  NCT03036124	Chronic Heart Failure (CHF) patients with reduced ejection fraction (HFrEF)	4,744	<ul style="list-style-type: none"> <li>• Arm 1: <i>Farxiga</i> 10mg or 5 mg QD + standard of care therapy</li> <li>• Arm 2: Placebo + standard of care therapy</li> <li>• Global trial - 20 countries</li> </ul>	<ul style="list-style-type: none"> <li>• Primary endpoint: Time to the first occurrence of any of the components of the composite: CV death or hospitalisation for heart failure (HF) or an urgent HF visit</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2017</li> <li>• LPCD Q3 2018</li> <li>• Data anticipated: 2020</li> </ul>
<b>Phase III Dapa-CKD</b>  NCT03036150	Patients With Chronic Kidney Disease (CKD)	4,000	<ul style="list-style-type: none"> <li>• Arm 1: <i>Farxiga</i> 10mg or 5 mg QD</li> <li>• Arm 2: Placebo</li> </ul> <p>Global trial - 20 countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Time to the first occurrence of any of the components of the composite: ≥50% sustained decline in estimated glomerular filtration rate (eGFR) or reaching end stage renal disease (ESRD) or CV death or renal death</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2017</li> <li>• Data anticipated: 2020</li> </ul>
<b>Phase III DELIVER</b>  NCT03619213	Chronic Heart Failure (CHF) patients with preserved ejection fraction (HFpEF)	4,700	<ul style="list-style-type: none"> <li>• Arm 1: <i>Farxiga</i> 10mg QD</li> <li>• Arm 2: Placebo</li> <li>• Global trial - 21 countries</li> </ul>	<ul style="list-style-type: none"> <li>• Primary endpoint: Time to the first occurrence of any of the components of the composite: CV death or hospitalisation for heart failure (HF) or an urgent HF visit</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2018</li> <li>• Data anticipated: 2020+</li> </ul>



# Lokelma (sodium zirconium cyclosilicate)

## Hyperkalaemia

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III</b> <a href="#">NCT02875834</a>	Hyperkalaemia	255	Open-label <i>Lokelma</i> 10g TID for 48 hours followed by: • Arm 1: <i>Lokelma</i> 5g QD for 28 days • Arm 2: <i>Lokelma</i> 10g QD for 28 days • Arm 3: Placebo QD for 28 days  Global trial – four countries	• Primary endpoint: Maintenance of normokalaemia	• FPCD: Q1 2017 • LPCD: Q1 2018
<b>Phase II/III</b> <a href="#">NCT03127644</a>	Hyperkalaemia	103	Arm 1: <i>Lokelma</i> 5g TID for 48 hours Arm 2: <i>Lokelma</i> 10g TID for 48 hours Arm 3: Placebo TID for 48 hours  Japan	• Primary endpoint: Exponential rate of change in serum potassium	• FPCD: Q2 2017 • LPCD: Q1 2018 • Data readout: Q3 2018 • Primary endpoint met
<b>Phase III</b> <a href="#">NCT03172702</a>	Hyperkalaemia	150	Arm 1: Open-label <i>Lokelma</i> 10g TID for up to 72 hrs followed by <i>Lokelma</i> 5g QD for 12 months. Option to uptitrate to 10 and 15g QD or downtitrade to 5g QOD (or 2.5g QD)  Japan	• Primary endpoint: Safety and tolerability as measured by adverse events reporting, vital signs, ECGs, physical examinations and safety laboratory measurements	• FPCD: Q3 2017
<b>Phase I</b> <a href="#">NCT03283267</a>	Healthy Subjects	22	Arm 1: Open-label <i>Lokelma</i> 5g QD for 4 days Arm 2: Open-label <i>Lokelma</i> 10g QD for 4 days  China	• Primary endpoint: Mean change from baseline to <i>Lokelma</i> treatment period in urine potassium excretion	• FPCD: Q4 2017 • LPCD: Q4 2017 • Data readout: Q1 2018
<b>Phase IIIb</b> <a href="#">NCT03303521</a>	Patients on haemodialysis with persistent pre-dialysis hyperkalaemia	180	Arm 1: <i>Lokelma</i> 5g QD for 8 weeks on non-dialysis days. Option to uptitrate to 10 and 15g QD. Arm 2: Placebo QD for 8 weeks on non-dialysis days  Global trial – four countries	• Primary endpoint: Proportion of patients who maintain a pre-dialysis serum K between 4.0-5.0 mmol/L on 3 out of 4 dialysis treatments following the long interdialytic interval	• FPCD: Q4 2017
<b>Phase II</b> <a href="#">NCT03337477</a>	Hyperkalaemia	132	Arm 1: <i>Lokelma</i> 10g TID for 24 hours on top off SoC (insulin and glucose) Arm 2: Placebo TID for 24 hours on top off SoC (insulin and glucose)  Global trial – four countries	• Primary endpoint: Mean absolute change in S-K from baseline until 4h after start of dosing	• FPCD: Q1 2018
<b>Phase II</b> <a href="#">NCT03532009</a>	Patients with chronic heart failure and hyperkalaemia or at high risk of developing hyperkalaemia	280	Arm 1: <i>Lokelma</i> 5g QD for 12 weeks. Option to uptitrate to 10 and 15g QD or downtitrade to 5g QOD Arm 2: Placebo QD for 12 weeks  Global trial – six countries	• Primary endpoint: Difference between <i>Lokelma</i> and placebo in RAAS (renin-angiotensin-aldosterone system) blockade treatment.	• FPCD: Q3 2018



# Epanova (omega-3 carboxylic acids)

## Hypertriglyceridaemia

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III STRENGTH (CVOT) NCT02104817</b>	Patients with hypertriglyceridaemia and high cardiovascular disease risk	13,000	<ul style="list-style-type: none"> <li>Arm 1: <i>Epanova</i> 4g QD + statin</li> <li>Arm 2: Placebo (corn oil) + statin</li> </ul> Global trial – 22 countries	<ul style="list-style-type: none"> <li>Primary endpoint: Composite of Major Adverse Cardiac Events (MACE)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>LPCD: Q2 2017</li> <li>Data anticipated: 2020</li> </ul>
<b>Phase III NCT02463071</b>	Japanese patients with hypertriglyceridaemia	375	<ul style="list-style-type: none"> <li><i>Epanova</i> 2g and 4g vs. Placebo (after meal) daily for 52 weeks</li> </ul> Global trial – one country	Primary endpoints: <ul style="list-style-type: none"> <li>Safety in Japanese patients</li> <li>percentage change in triglycerides</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>LPCD: Q1 2016</li> <li>Data readout: Q2 2017</li> </ul>
<b>Phase III EVOLVE II NCT02009865</b>	Severe hypertriglyceridaemia	162	<ul style="list-style-type: none"> <li>Arm 1: <i>Epanova</i> 2g QD</li> <li>Arm 2: Placebo (olive oil)</li> </ul> Global trial – seven countries	<ul style="list-style-type: none"> <li>Primary endpoint: Change in serum triglycerides over 12 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2013</li> <li>LPCD: Q4 2014</li> <li>Data readout: Q4 2015</li> <li>Primary endpoint met</li> </ul>
<b>Phase I China PK NCT03574142</b>	Healthy Chinese subjects	14	Open-label trial to evaluate the pharmacokinetics of single and multiple doses of <i>Epanova</i> 4 g/day in Chinese healthy subjects Local trial – China	<ul style="list-style-type: none"> <li>Primary endpoints: Plasma concentrations versus time profile of EPA and DHA to assess PK parameters</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>LPCD: Q2 2018</li> <li>Data readout: Q4 2018</li> </ul>



# Eklira/Tudorza (LAMA, DPI)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Number of patients	Design	Endpoints	Status
Phase I NCT03276052	Healthy Chinese subjects	18	<p>Open-label, 2-period ascending dose incomplete block, cross-over trial</p> <ul style="list-style-type: none"> <li>• Arm 1: Acidinium bromide 200 µg DPI</li> <li>• Arm 2: Acidinium bromide 400 µg DPI</li> <li>• Arm 3: Acidinium bromide 800 µg DPI</li> </ul> <p>Global trial – One Country</p>	<ul style="list-style-type: none"> <li>• To investigate the pharmacokinetics (PK) of acidinium bromide and its metabolites after single and multiple doses (twice-daily [BID]) of acidinium bromide 200 µg, 400 µg and 800 µg</li> <li>• To evaluate the safety, and tolerability of acidinium bromide 200 µg, 400 µg and 800 µg after single and multiple dose administration (twice-daily [BID])</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2018</li> <li>• Data anticipated: H1 2019</li> </ul>



# Duaklir Genuair (LAMA/LABA, DPI)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design	Endpoints	Status
Phase III AVANT <a href="#">NCT03022097</a>	Patients with stable COPD	1,060	<ul style="list-style-type: none"> <li>Arm 1: Duaklir Genuair 400/12 µg DPI</li> <li>Arm 2: aclidinium bromide 400 µg DPI</li> <li>Arm 3: formoterol fumarate 12 µg DPI</li> <li>Arm 4: tiotropium 18 µg DPI</li> </ul> <p>Global trial – five countries</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>Change from baseline in one hour morning post-dose dose FEV1 <i>Duaklir Genuair</i> 400/12 µg compared to Aclidinium bromide at Week 24</li> <li>Change from baseline in morning pre-dose (trough) FEV1 of <i>Duaklir Genuair</i> 400/12 µg compared to Formoterol fumarate at Week 24</li> <li>Change from baseline in trough FEV1 of Aclidinium bromide 400 µg compared to placebo at Week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: H2 2019</li> </ul>



# Bevespi Aerosphere (LAMA/LABA, pMDI)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III PINNACLE 1</b>  <b>NCT01854645</b>	Moderate to very severe COPD	2,103	<p>Treatment (24-week Treatment Period)</p> <ul style="list-style-type: none"> <li>• Arm 1: GFF (Glycopyrronium and Formoterol Fumarate) MDI (<i>Bevespi Aerosphere</i>) 14.4/9.6µg BID pMDI</li> <li>• Arm 2: GP (Glycopyrrolate) MDI (PT001) 14.4µg BID</li> <li>• Arm 3: FF MDI (PT005) 9.6µg BID</li> <li>• Arm 4: Open-label tiotropium bromide inhalation powder 18µg QD</li> <li>• Arm 5: Placebo MDI BID</li> </ul> <p>Multicentre, randomised, double-blind, parallel-group, chronic dosing, placebo- and active-controlled</p> <p>US, Australia, New Zealand</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Change from baseline in morning pre-dose trough FEV1</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2013</li> <li>• LPCD: Q3 2014</li> <li>• Data readout: Q1 2015</li> </ul>
<b>Phase III PINNACLE 2</b>  <b>NCT01854658</b>	Moderate to very severe COPD	1,615	<p>Treatment (24-week treatment period)</p> <ul style="list-style-type: none"> <li>• Arm 1: GFF MDI (<i>Bevespi Aerosphere</i>) 14.4/9.6µg BID pMDI</li> <li>• Arm 2: GP MDI (PT001) 14.4µg BID</li> <li>• Arm 3: FF MDI (PT005) 9.6µg BID</li> <li>• Arm 4: Placebo MDI BID</li> </ul> <p>Multicentre, randomised, double-blind, parallel group, chronic dosing and placebo-controlled</p> <p>US</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Change from baseline in morning pre-dose trough FEV1</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2013</li> <li>• LPCD: Q3 2014</li> <li>• Data readout: Q1 2015</li> </ul>
<b>Phase III PINNACLE 3</b>  <b>NCT01970878</b>	Moderate to very severe COPD	893	<p>Treatment (28-week Treatment Period)</p> <ul style="list-style-type: none"> <li>• Arm 1: GFF MDI (<i>Bevespi Aerosphere</i>) 14.4/9.6µg BID pMDI</li> <li>• Arm 2: GP MDI (PT001) 14.4µg BID</li> <li>• Arm 3: FF MDI (PT005) 9.6µg BID</li> <li>• Arm 4: Open-label tiotropium bromide inhalation powder 18µg QD</li> </ul> <p>Multi-centre, randomised, double-blind, parallel-group and active-controlled</p> <p>US, Australia, New Zealand</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Change from baseline in morning pre-dose trough FEV1</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2013</li> <li>• LPCD: Q2 2014</li> <li>• Data readout: Q1 2015</li> </ul>



# Bevespi Aerosphere (LAMA/LABA, pMDI)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design (G = glycopyrronium, F = formoterol fumarate)	Endpoints	Status
<b>Phase III PINNACLE 4</b> <b>NCT02343458</b>	Moderate to very severe COPD	1,614	<p>Treatments (24-week Treatment Period)</p> <ul style="list-style-type: none"> <li>GFF (Glycopyrronium and Formoterol Fumarate) MDI (<i>Bevespi Aerosphere</i>) 14.4/9.6µg BID (N=514) pMDI</li> <li>GP (Glycopyrrolate) MDI 14.4µg BID (N=440)</li> <li>FF MDI 9.6µg BID (N=440)</li> <li>Placebo MDI BID (N=220)</li> <li>US/China: Trough FEV1 at week 24 of treatment</li> <li>EU/Hybrid: Co-primary = Trough FEV1 over week 24 of treatment and TDI score over 24 weeks randomised, double-blind, chronic-dosing, placebo-controlled, parallel-group and multi-centre</li> </ul> <p>US, UK, Germany, Costa Rica, Hungary, Poland, Russia, South Korea, Taiwan, China, Japan</p>	<ul style="list-style-type: none"> <li>Primary endpoint: change from baseline in morning pre-dose trough FEV1 of treatment [Time Frame: At Week 24] Assessed at week 24 for US/China and over weeks 12-24 for Japan, and over 24 weeks for EU/South Korea/Taiwan</li> <li>Secondary endpoint: TDI score (co-primary endpoint for EU and Hybrid) [Time Frame: Over 24 weeks]</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>LPCD: Q1 2017</li> <li>Data readout: Q3 2017</li> <li>Primary endpoint met</li> </ul>
<b>Phase IIIb AERISTO</b> <b>NCT03162055</b>	Moderate to very severe COPD	1,000	<p>Treatments (24-week treatment period)</p> <ul style="list-style-type: none"> <li>GFF MDI (<i>Bevespi Aerosphere</i>) 14.4/9.6µg BID pMDI</li> <li>Umeclidinium/vilanterol DPI 62.5/25µg QD</li> </ul> <p>Randomised, double-blind, double-dummy, multi-centre, parallel group</p> <p>US, Canada, Bulgaria, France, Hungary, Russia, Ukraine</p>	<p>Co-primary endpoints:</p> <ul style="list-style-type: none"> <li>Change from baseline in morning pre-dose trough FEV1 over 24 weeks</li> <li>Peak change from baseline in FEV1 within two hours post-dosing over 24 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>LPCD: Q4 2017</li> <li>Data readout: Q3 2018</li> </ul>



# Daliresp/Daxas (PDE4 inhibitor, oral)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase IV RESPOND</b> <b>NCT01443845</b>	COPD	2,354	<ul style="list-style-type: none"> <li>52W, randomised, DB with <i>Daliresp</i> 500µg OD vs. placebo, in COPD on top of ICS/LABA</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Rate of moderate or severe COPD exacerbations per subject per year</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2011</li> <li>LPCD: Q1 2016</li> <li>Data readout: Q4 2016</li> </ul>
<b>Phase IV OPTIMIZE</b> <b>NCT02165826</b>	COPD	1,323	<ul style="list-style-type: none"> <li>12W, randomised, DB to evaluate tolerability and PK of <i>Daliresp</i> 500µg OD with an up-titration regimen during the first 4Ws, including an open label down-titration evaluating tolerability and PK of 250µg <i>Daliresp</i> OD in subjects not tolerating 500µg OD</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Percentage of participants prematurely discontinuing trial treatment for any reason during the main period</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> <li>LPCD: Q3 2015</li> <li>Data readout: Q4 2016</li> </ul>
<b>Phase IIIb ROBERT</b> <b>NCT01509677</b>	COPD	158	<ul style="list-style-type: none"> <li>16W, randomised, placebo-controlled, DB, parallel-group trial to assess the anti-inflammatory effects of <i>Daliresp</i> in COPD</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Number of inflammatory cells CD8+ in bronchial biopsy tissue specimen (sub-mucosa) measured at randomisation and at the end of the intervention period</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2012</li> <li>LPCD: Q1 2016</li> <li>Data readout: Q4 2016</li> </ul>
<b>Post Launch PASS</b> <b>NCT03381573</b>	COPD	124,080	<ul style="list-style-type: none"> <li>This is a retrospective cohort trial comparing COPD patients aged 40 years and older with new exposure to roflumilast with up to 5 unexposed (i.e., not roflumilast-exposed) COPD controls matched by propensity score (PS), age, sex, and year of cohort entry. The trial is using electronic healthcare databases in the US (Military Health System database), Germany (German Pharmacoepidemiological Research Database), and Sweden (national databases including healthcare, death, and demographics data).</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: All-cause mortality (up to five years)</li> </ul>	<ul style="list-style-type: none"> <li>Data anticipated: 2020+</li> </ul>



# Fasenra (IL-5R mAb)

## Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III MELTEMI</b> <a href="#">NCT02808819</a>	A multi-centre, open-label, safety extension trial with Fasenra for asthmatic adults on ICS plus LABA2 Agonist Age 18-75 years	770	<ul style="list-style-type: none"> <li>Arm 1: 30mg Q4W SC</li> <li>Arm 2: 30mg Q8W SC</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data anticipated: 2019</li> </ul>
<b>Phase IIIb PONENTE</b> <a href="#">NCT03557307</a>	Severe eosinophilic asthmatics receiving HD (high dose) ICS + LABA and chronic OCS with or without additional asthma controller(s). Age: 18 Years and older	600	<p>Arm 1: 30mg Q8W SC</p> <p>38-week trial Global trial – 16 countries</p>	<ul style="list-style-type: none"> <li>Primary endpoint: Reduction of oral corticosteroid dose</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> <li>Data anticipated: 2020</li> </ul>
<b>D3250C00036 China ICS/LABA Trial (MIRACLE)</b> <a href="#">NCT03186209</a>	Severe, uncontrolled asthma, despite background controller medication, medium dose (MD) & high dose (HD) ICS + LABA ± chronic OCS Age 12-75 years	666	<ul style="list-style-type: none"> <li>Arm 1: 30mg Q8W SC</li> <li>Arm 2: Placebo SC</li> </ul> <p>56-week trial Global trial – 4 countries (predominantly Chinese)</p>	<ul style="list-style-type: none"> <li>Primary endpoint: Annual asthma exacerbation rate</li> <li>Secondary endpoints: Assess pulmonary function, asthma symptoms, other asthma control metrics</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2017</li> <li>Data readout: 2020+</li> </ul>



# Fasenra (IL-5R mAb)

## Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III <b>BORA</b> NCT02258542	Severe asthma, inadequately controlled despite background controller medication, MD (medium dose) & HD (high dose) ICS + LABA ± chronic OCS Age 12-75 years	2,550	<ul style="list-style-type: none"> <li>• Arm 1: 30mg Q4W SC</li> <li>• Arm 2: 30mg Q8W SC*</li> <li>• Placebo administered at select interim visits to maintain blind between treatment arms</li> </ul> <p>56-week (adults) 108-week (adolescents) Global trial</p>	• Primary endpoint: Safety and tolerability	<ul style="list-style-type: none"> <li>• FPCD: Q4 2014</li> <li>• Data readout: Q3 2018</li> <li>• Primary endpoint met</li> </ul>
Phase III <b>GREGALE</b> NCT02417961	Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA ± chronic OCS Age 18-75 years	120	<ul style="list-style-type: none"> <li>• Arm 1: 30mg Q4W SC</li> </ul> <p>28-week (adults) Global trial – two countries</p>	• Primary endpoint: Functionality, reliability, and performance of a pre-filled syringe with <i>Fasenra</i> administered at home	<ul style="list-style-type: none"> <li>• FPCD: Q2 2015</li> <li>• Data readout: Q2 2016</li> <li>• Primary endpoint met</li> </ul>
Phase III <b>ARIA</b> NCT02821416	A double-blind, randomised, parallel group, placebo-controlled multi-centre trial to evaluate the effect of <i>Fasenra</i> on allergen-induced inflammation in Mild, atopic asthmatic Age 18-65 years	38	<ul style="list-style-type: none"> <li>• Arm 1 : 30mg Q4W SC</li> <li>• Arm 2: Placebo SC</li> </ul>	• Primary endpoint: Safety and tolerability	<ul style="list-style-type: none"> <li>• FPCD Q4 2016</li> <li>• Data anticipated: H2 2019</li> </ul>
Phase III <b>ALIZE</b> NCT02814643	A multi-centre, randomised, double-blind, parallel group, placebo-controlled, Phase IIIb trial to evaluate the potential effect of <i>Fasenra</i> on the humoral immune response to the seasonal influenza vaccination in adolescent and young adult patients with severe asthma Ages 12-21 years	100	<ul style="list-style-type: none"> <li>• Arm1 30mg Q4W SC with one dose of seasonal influenza virus vaccine Intramuscular (IM) at week eight</li> <li>• Arm1 Placebo Q4W SC with one dose of seasonal influenza virus vaccine IM at week</li> </ul>	Primary endpoints: <ul style="list-style-type: none"> <li>• Post-dose strain-specific haemagglutination-inhibition (HAI) antibody geometric mean fold rises (GMFRs)</li> <li>• Post-dose strain-specific serum HAI antibody geometric mean titers (GMTs)</li> <li>• Proportion of patients who experience a strain-specific post-dose antibody response with antibody response defined as a ≥4-fold rise in HAI antibody titer</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2016</li> <li>• Data readout: Q3 2017</li> <li>• Primary endpoint met</li> </ul>



# Fasenra (IL-5R mAb)

## Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III SOLANA</b>  NCT02869438	Severe asthma Age 18-75 years	230	<ul style="list-style-type: none"> <li>• Arm 1: 30mg Q4W SC</li> <li>• Arm 2: Placebo SC</li> </ul> <p>16-week trial Global trial – six countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Onset and maintenance of effect on lung function</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2016</li> <li>• Data anticipated: Q3 2018</li> <li>• Primary endpoint not met</li> </ul>
<b>Phase III GRECO</b>  NCT02918071	Severe asthma Age 18-75 years	120	<p>Open label 30mg Q4w</p> <p>28-week trial Global trial - two countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: percentage of patients/ caregivers who successfully self administer at home</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2016</li> <li>• Data readout: Q4 2017</li> <li>• Primary endpoint met</li> </ul>
<b>Phase IIb ANDHI</b>  NCT03170271	A multi-centre, randomised, double-blind, parallel group, placebo controlled, Phase IIb trial to evaluate the safety and efficacy of <i>Fasenra</i> 30 mg sc in patients with severe asthma uncontrolled on SoC treatment. Age 18-75	800	<ul style="list-style-type: none"> <li>• Arm 1: 30mg Q8W SC</li> <li>• Arm 2: placebo SC</li> </ul>	<ul style="list-style-type: none"> <li>• Primary endpoint: rate of asthma exacerbations</li> <li>• Secondary outcome measures: Saint George Respiratory Questionnaire (SGRQ)</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2017</li> <li>• Data anticipated: 2020</li> </ul>
<b>Phase I AMES</b>  NCT02968914	Healthy Volunteer Age 18-55 years	162	<p>Open label trial to compare 30 mg <i>Fasenra</i> PK administered by APFS or AI device</p> <p>8-week trial Global trial – two countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: PK comparability</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2017</li> <li>• Data readout: Q3 2017</li> </ul>



# Fasenra (IL-5R mAb)

## Nasal polyposis

Trial	Population	Patients	Design	Endpoints	Status
Phase III OSTRO <a href="#">NCT03401229</a>	Patients with severe bilateral nasal polyposis who are still symptomatic despite standard of care therapy	400	<ul style="list-style-type: none"> <li>• Arm 1: 30mg Q8W SC</li> <li>• Arm 2: Placebo SC</li> </ul> <p>56-week trial Global trial- 8 countries</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: Effect of Fasenra on nasal polyp burden and on patient reported nasal blockage</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2018</li> <li>• Data anticipated: 2020</li> </ul>



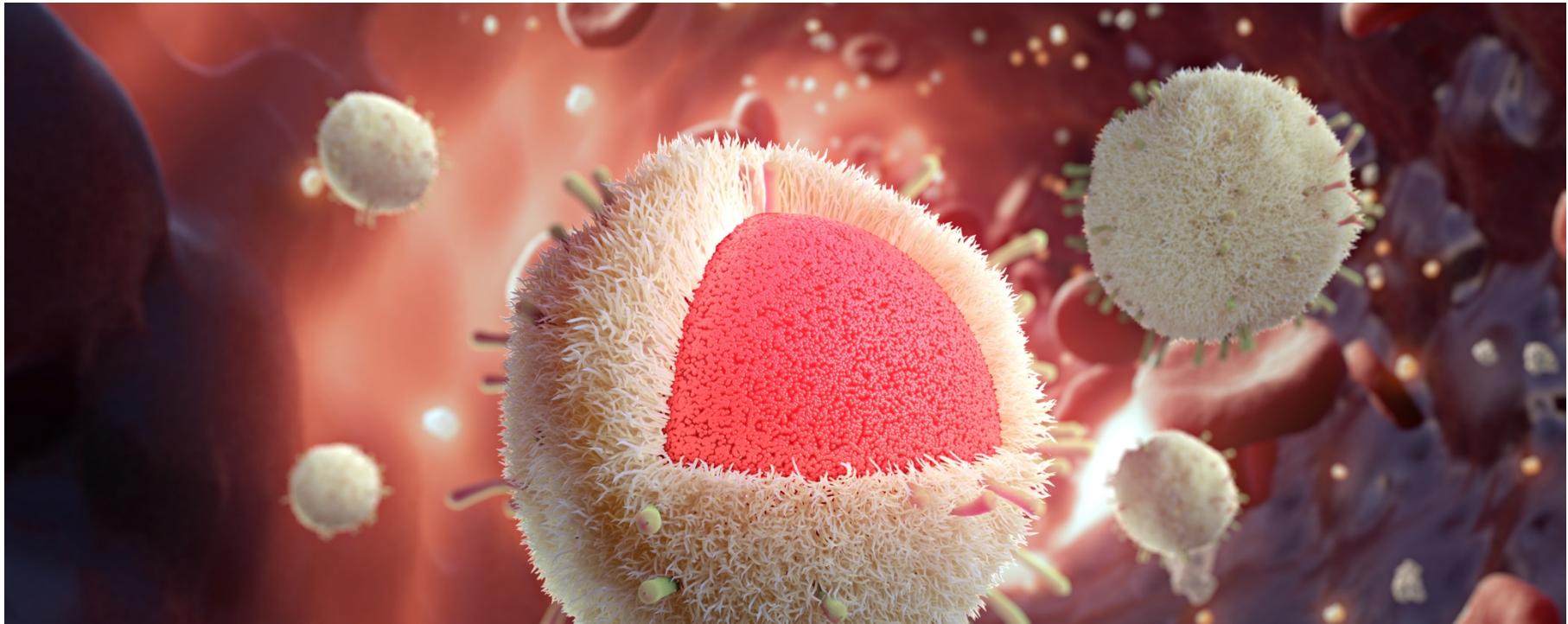
# Calquence (BTK inhibitor)

## Rheumatoid arthritis

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase II ACE-RA-001 <a href="#">NCT02387762</a>	Rheumatoid Arthritis	31	<ul style="list-style-type: none"> <li>Arm A: Calquence + methotrexate</li> <li>Arm B: methotrexate</li> </ul>	<ul style="list-style-type: none"> <li>Disease Activity Score 28-CRP at week 4</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>LPCD: Q2 2016</li> <li>Data readout: Q2 2016</li> </ul>



## Late-stage pipeline



# Cediranib (VEGF receptor inhibitor)

## Ovarian cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb <b>CONCERTO</b> NCT02889900	Platinum resistant recurrent (PRR) ovarian cancer - heavily pre-treated <i>BRCA</i> wt	100	<ul style="list-style-type: none"> <li>Cediranib 30 mg + Lynparza 200 mg bd</li> </ul>	<ul style="list-style-type: none"> <li>ORR DoR, DCR, QoL, OS; Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> </ul>



# Selumetinib (MEK inhibitor)

## Thyroid cancer and other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase II SPRINT <a href="#">NCT01362803</a> Partnered	Paediatric neurofibromatosis type 1 (NF1)	50 (stratum 1)	<ul style="list-style-type: none"> <li>Single arm: selumetinib 25mg/m<sup>2</sup> BID with 2 strata:           <ul style="list-style-type: none"> <li>Stratum 1: PN related morbidity present at enrolment</li> <li>Stratum 2: No PN related morbidity present at enrolment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Complete partial and complete response rate measured by volumetric MRI;</li> <li>Duration of response and functional outcomes/QoL</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q4 2016</li> </ul>



# Savolitinib (MET inhibitor)

## Papillary renal cell and other cancers

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III</b> <b>NCT03091192</b> Partnered	MET-Driven, Papillary renal cell cancer	180	<ul style="list-style-type: none"> <li>Arm 1: savolitinib 600mg QD</li> <li>Arm 2: sunitinib 50mg QD (4 weeks on / 2 weeks off)</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoints include ORR, DoR and OS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: 2020</li> </ul>
<b>Phase I</b> <b>NCT01985555</b> Partnered	Advanced cancer (all comers)	~70	<ul style="list-style-type: none"> <li>Dose escalation trial</li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2013</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase I</b> <b>NCT02374645</b>	NSCLC	64	<ul style="list-style-type: none"> <li>Dose escalation trial</li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase II</b> <b>NCT02897479</b> Partnered	Lung Pulmonary Sarcomatoid Carcinoma (PSC) and other NSCLC	92	<ul style="list-style-type: none"> <li>Single arm trial: savolitinib 600mg QD</li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: 2020+</li> </ul>



# Roxadustat (HIF-PHI inhibitor)

## Anaemia

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III ANDES</b> <a href="#">NCT01750190</a> Partnered	Anaemia in CKD (Chronic Kidney Disease) patients not receiving dialysis	922	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: placebo</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2012</li> <li>• Data anticipated: H2 2018</li> </ul> Sponsored by FibroGen
<b>Phase III ALPS</b> <a href="#">NCT01887600</a> Partnered		597	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: Placebo</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2013</li> <li>• Data readout: Q3 2018</li> <li>• Primary endpoint met</li> </ul> Sponsored by Astellas
<b>Phase III DOLOMITES</b> <a href="#">NCT02021318</a> Partnered		616	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: darbepoetin alfa</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2014</li> <li>• Data anticipated: H1 2019</li> </ul> Sponsored by Astellas
<b>Phase III OLYMPUS</b> <a href="#">NCT02174627</a>		2,781	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: Placebo</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary efficacy endpoint: Haemoglobin response</li> <li>• Primary safety objective: Contribute CV safety data to pooled safety analyses across the Phase III programme</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2014</li> <li>• Data anticipated: H2 2018</li> </ul> Sponsored by AstraZeneca
<b>Phase III ROCKIES</b> <a href="#">NCT02174731</a>	Anaemia in CKD in patients receiving dialysis	2,133	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: epoetin alfa</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary efficacy endpoint: Haemoglobin response</li> <li>• Primary safety objective: Contribute CV safety data to pooled safety analyses across the phase 3 program</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2014</li> <li>• Data anticipated: H2 2018</li> </ul> Sponsored by AstraZeneca
<b>Phase III SIERRAS</b> <a href="#">NCT02273726</a> Partnered		820	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: epoetin alfa</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2014</li> <li>• Data anticipated: H2 2018</li> </ul> Sponsored by FibroGen
<b>Phase III PYRENEES</b> <a href="#">NCT02278341</a> Partnered		838	<ul style="list-style-type: none"> <li>• Arm 1: roxadustat</li> <li>• Arm 2: erythropoiesis stimulating agent</li> <li>• Arm 3: darbepoetin alfa</li> </ul> Global trial	<ul style="list-style-type: none"> <li>• Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2014</li> <li>• Data anticipated: H2 2018</li> </ul> Sponsored by Astellas

HIF-PHI = Hypoxia-Inducible Factor Prolyl Hydroxylase Inhibitor



# Roxadustat (HIF-PHI inhibitor)

## Anaemia

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III HIMALAYAS</b> NCT02052310 Partnered	Anaemia in newly initiated dialysis patients	900	<ul style="list-style-type: none"> <li>Arm 1: roxadustat</li> <li>Arm 2: epoetin alfa</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2013</li> <li>Data anticipated: H2 2018</li> </ul> Sponsored by FibroGen
<b>Phase III</b> NCT02652819 Partnered	Anaemia in CKD (Chronic Kidney Disease) patients not receiving dialysis	154	<ul style="list-style-type: none"> <li>Arm 1: roxadustat</li> <li>Arm 2: placebo</li> </ul> China trial	<ul style="list-style-type: none"> <li>Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q4 2016</li> <li>Data readout: Q2 2017</li> <li>Primary endpoint met</li> </ul> Sponsored by FibroGen
<b>Phase III</b> NCT02652806 Partnered	Anaemia in CKD patients receiving dialysis	305	<ul style="list-style-type: none"> <li>Arm 1: roxadustat</li> <li>Arm 2: epoetin alfa</li> </ul> China trial	<ul style="list-style-type: none"> <li>Primary endpoint: Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q2 2016</li> <li>Data readout: Q2 2017</li> <li>Primary endpoint met</li> </ul> Sponsored by FibroGen
<b>Phase III</b> NCT03263091 Partnered	Anaemia in lower risk Myelodysplastic Syndrome (MDS) patients	184	Open label roxadustat lead-in Arm 1: roxadustat Arm 2: placebo  US/global trial	<ul style="list-style-type: none"> <li>Primary endpoint: Proportion of patients achieving transfusion independence</li> </ul>	FPCD: Q3 2017 Sponsored by FibroGen
<b>Phase II/III</b> NCT03303066 Partnered	Anaemia in lower risk MDS patients	175	Open label roxadustat lead-in Arm 1: roxadustat Arm 2: placebo  China	<ul style="list-style-type: none"> <li>Primary endpoint: Haemoglobin response</li> </ul>	Sponsored by FibroGen

HIF-PHI = Hypoxia-Inducible Factor Prolyl Hydroxylase Inhibitor



# PT010 (LAMA/LABA/ICS, pMDI)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design	Endpoints	Status
Phase III  NCT02536508	Moderate to very severe COPD	500	<p>Treatments (52-week Treatment Period)</p> <ul style="list-style-type: none"> <li>BGF (Budesonide, Glycopyrronium, and Formoterol Fumarate) MDI 320/14.4/9.6µg BID pMDI</li> <li>GFF (Glycopyrronium and Formoterol Fumarate) MDI 14.4/9.6µg BID pMDI</li> <li>BFF (Budesonide and Formoterol Fumarate) MDI 320/9.6µg BID pMDI</li> </ul> <p>Randomised, double-blind, chronic-dosing, multi-centre</p> <p>Country – US</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>Bone Mineral Density sub-study Endpoint. Change from baseline in BMD of the lumbar spine measured using DXA (dual energy X-ray absorptiometry) scans of L1-L4 at week 52</li> <li>Ocular Sub-study Safety Endpoint Change from baseline in LOCS III at week 52.</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q3 2016</li> <li>Data readout: Q1 2018</li> </ul>
Phase III  ETHOS  NCT02465567	Moderate to very severe COPD	8,000 (possible increase by 4,000 after blinded sample size re-assessment)	<p>Treatments (1-year Treatment Period)</p> <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6µg BID pMDI</li> <li>BGF MDI 160/14.4/9.6µg BID pMDI</li> <li>BFF MDI 320/9.6µg BID pMDI</li> <li>GFF MDI 14.4/9.6µg BID pMDI</li> </ul> <p>Randomised, double-blind, multi-centre and parallel-group</p> <p>Multi-country</p>	<ul style="list-style-type: none"> <li>Primary endpoint: Rate of moderate or severe COPD exacerbations</li> <li>Secondary endpoint: Time to first moderate or severe COPD exacerbation</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q3 2018</li> </ul>
Phase III  KRONOS  NCT02497001	Moderate to very severe COPD	1,800	<p>Treatments (24-week Treatment Period)</p> <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6µg BID pMDI</li> <li>GFF MDI 14.4/9.6µg BID pMDI</li> <li>BFF MDI 320/9.6µg BID pMDI</li> <li>Symbicort Turbuhaler 400/12µg BID DPI</li> </ul> <p>Randomised, double-blind, parallel-group, and chronic dosing and multi-centre</p> <p>Multi-country</p>	<p>Primary Endpoints:</p> <ul style="list-style-type: none"> <li>FEV<sub>1</sub> area under curve from 0 to 4 hours (AUC<sub>0-4</sub>) over 24 weeks (BGF MDI vs. BFF MDI and BGF MDI vs. Symbicort Turbuhaler)</li> <li>Change from baseline in morning pre-dose trough FEV<sub>1</sub> over 24 weeks (BGF MDI vs. GFF MDI)</li> <li>Transition dyspnoea index (TDI) focal score over 24 weeks (BGF MDI vs. BFF MDI and BGF MDI vs. GFF MDI)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q2 2017</li> <li>Data readout: Q1 2018</li> <li>8/9 Primary endpoints met</li> </ul>
Phase III  NCT03262012	Moderate to very severe COPD	324	<p>Treatments (28-week Treatment Period)</p> <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6µg BID pMDI</li> <li>GFF MDI 14.4/9.6µg BID pMDI</li> <li>BFF MDI 320/9.6µg BID pMDI</li> <li>Symbicort Turbuhaler 400/12µg BID DPI</li> </ul> <p>Randomised, double-blind, parallel-group, chronic dosing, multicenter</p> <p>Country: Japan</p>	<p>Primary outcome measures:</p> <ul style="list-style-type: none"> <li>Long-term safety and tolerability (52 weeks): adverse events, 12-lead ECG, laboratory tests, vital signs</li> </ul>	<ul style="list-style-type: none"> <li>FPCD Q3 2016</li> <li>LPCD Q4 2017</li> <li>Data readout: Q3 2018</li> </ul>



# Tezepelumab (TSLP mAb)

## Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III NAVIGATOR</b> <b>NCT03347279</b> <b>Partnered</b>	Severe asthma Age 12-80 years	1,060	<ul style="list-style-type: none"> <li>Arm 1: tezepelumab SC</li> <li>Arm 2: placebo SC</li> </ul> <p>52 week trial Global trial – 18 countries</p>	<ul style="list-style-type: none"> <li>Primary endpoint: Annual asthma exacerbation rate</li> <li>Secondary endpoints: Change from baseline in pre-BD FEV1, asthma related QoL (AQLQ(S)+12), asthma control (ACQ-6)</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>Data anticipated: 2020</li> </ul>
<b>Phase III SOURCE</b> <b>NCT03406078</b> <b>Partnered</b>	Severe asthma Age 12-80 years	140	<ul style="list-style-type: none"> <li>Arm 1: tezepelumab SC</li> <li>Arm 2: placebo SC</li> </ul> <p>48 week trial Global trial – seven countries</p>	<ul style="list-style-type: none"> <li>Primary endpoint: Reduction from baseline in daily OCS dose while not losing asthma control</li> <li>Secondary endpoint: Annual asthma exacerbation rate</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> </ul>



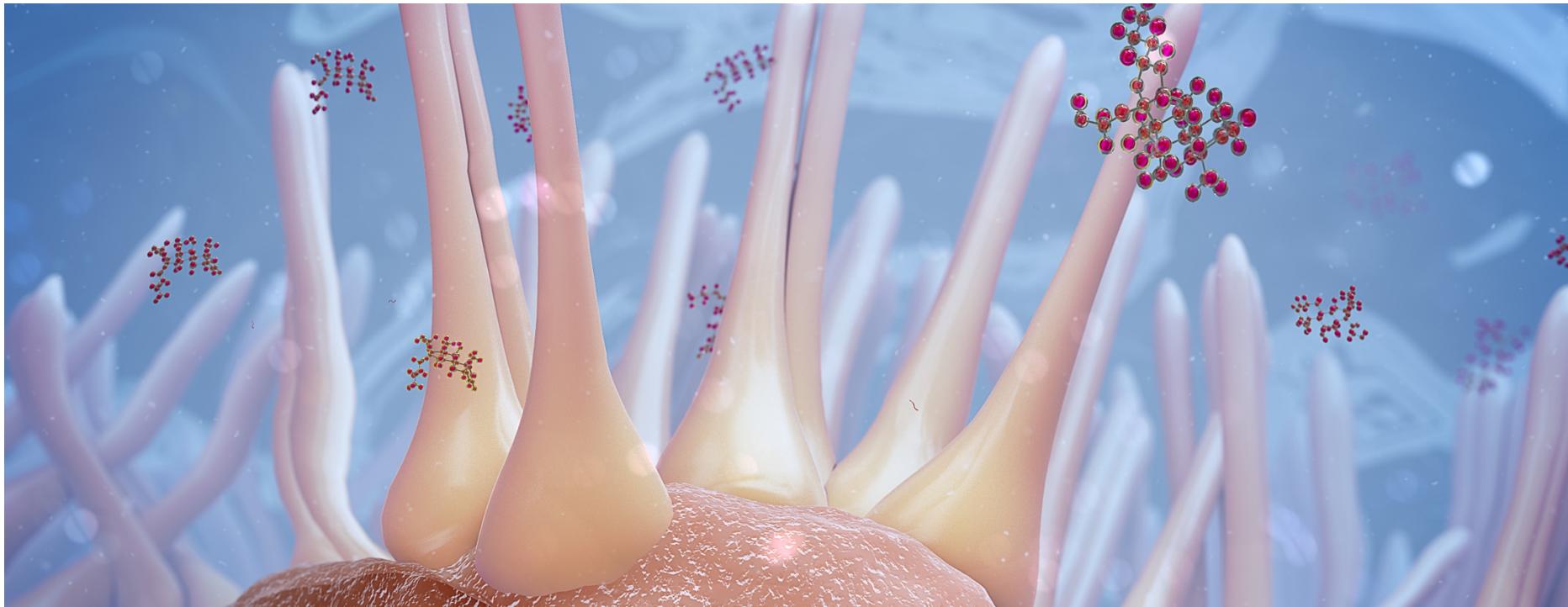
# Anifrolumab (type I IFN receptor mAb)

## Systemic lupus erythematosus (SLE) / Lupus nephritis (LN)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase III</b> NCT02446912	Moderate to severe SLE TULIP SLE 1	450	<ul style="list-style-type: none"> <li>Arm 1: 300mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 2: 150mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 3: placebo IV Q4W for 48 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Response in SLE responder index at week 52</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>Data readout: Q2 2018</li> <li>Primary endpoint not met</li> </ul>
<b>Phase III</b> NCT02446899	Moderate to severe SLE TULIP SLE 2	360	<ul style="list-style-type: none"> <li>Arm 1: 300mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 2: placebo IV Q4W for 48 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Response in SLE responder index at week 52</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> </ul>
<b>Phase III</b> NCT02794285	Moderate to severe SLE TULIP LTE	630	<ul style="list-style-type: none"> <li>Arm 1: 300mg IV anifrolumab Q4W for 152 weeks</li> <li>Arm 2: placebo IV Q4W for 152 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Extension to evaluate long-term safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data anticipated: 2019+</li> </ul>
<b>Phase II</b> NCT01438489	Moderate to severe SLE patients	307	<ul style="list-style-type: none"> <li>Arm 1: 300mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 2: 1000mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 3: placebo IV Q4W for 48 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Response in SLE responder index at 6 months</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2012</li> <li>LPCD: Q1 2015</li> <li>Data readout: Q3 2014</li> </ul>
<b>Phase II</b> NCT01753193	Moderate to severe SLE patients	218	<ul style="list-style-type: none"> <li>Arm 1: anifrolumab, IV Q4W for 104 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Open-label extension to evaluate long-term safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2013</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase II</b> NCT02962960	Moderate to severe SLE patients	32	<ul style="list-style-type: none"> <li>Arm 1: 150mg SC every other week</li> <li>Arm 2: 300mg SC every other week</li> <li>Arm 3: placebo SC every other week</li> </ul>	<ul style="list-style-type: none"> <li>PK/PD, Safety, tolerability, Primary analysis at week 12, Secondary analysis at week 52</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data readout: Q1 2018</li> </ul>
<b>Phase II</b> NCT02547922	Active Proliferative LN (TULIP-LN1)	150	<ul style="list-style-type: none"> <li>Arm 1: 900 mg IV Q4W for 12 weeks then 300mg IV anifrolumab Q4W for 36 weeks</li> <li>Arm 2: 300 mg IV anifrolumab Q4W for 48 weeks</li> <li>Arm 3: placebo IV Q4W for 48 weeks</li> </ul>	<ul style="list-style-type: none"> <li>Response in proteinuria at week 52</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: H2 2019</li> </ul>



## Early development - IMED (AstraZeneca Research and Early Development)



# Adavosertib (AZD1775, WEE-1 inhibitor)

Ovarian cancer, triple-negative breast cancer, small cell lung cancer (SCLC)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase II</b> <a href="#">NCT02272790</a>	Platinum-resistant (PR) ovarian cancer	97	<ul style="list-style-type: none"> <li>Arm B: paclitaxel + adavosertib</li> <li>Arm C: carboplatin + adavosertib</li> </ul> Global trial	<ul style="list-style-type: none"> <li>Primary endpoint: ORR</li> <li>Secondary endpoints: DoR, PFS, OS, Disease Control Rate, safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>LPCD: Q2 2018</li> </ul>
<b>Phase I/II</b> <a href="#">NCT02482311</a>	Advanced solid tumours	97	<ul style="list-style-type: none"> <li>Monotherapy Safety Run-in (part A, N=12); solid tumours Expansions into specific tumour types, inc. ovarian cancer (<i>BRCA</i>mi PARP failures and <i>BRCA</i>wt with three or more prior lines of treatment), triple negative breast cancer (TNBC) and SCLC</li> </ul> Conducted in US, Canada	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Secondary endpoints: Overall response rate, DCR, DoR, PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>LPCD: Q4 2016</li> </ul>
<b>Phase I</b> <a href="#">NCT02610075</a>	Advanced solid tumours	78	<ul style="list-style-type: none"> <li>Monotherapy adavosertib Dose escalation trial to determine MTD</li> </ul> Conducted in US	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>LPCD: Q3 2017</li> </ul>
<b>Phase I</b> <a href="#">NCT02511795</a>	Advanced solid tumours	102	<ul style="list-style-type: none"> <li>Dose escalation trial to determine MTD (adavosertib + Lynparza) followed by an expansions in SCLC</li> </ul> Conducted in US, Canada	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Secondary endpoints: Overall response rate, Disease Control Rate, Duration of Response, PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> </ul>
<b>Phase I</b> <a href="#">NCT02617277</a>	Advanced solid tumours	55	<ul style="list-style-type: none"> <li>Dose escalation trial to determine MTD (adavosertib + Imfinzi)</li> </ul> Conducted in US	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> </ul>
<b>Phase I</b> <a href="#">NCT02341456</a>	Advanced solid tumours	19	<ul style="list-style-type: none"> <li>Dose escalation trial to determine MTD (adavosertib + carboplatin + paclitaxel: adavosertib + carboplatin)</li> </ul> Conducted in Australia, Japan and Republic of Korea	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2015</li> <li>LPCD: Q2 2016</li> <li>Data readout: Q1 2018</li> </ul>



# Adavosertib (AZD1775, WEE-1 inhibitor)

Ovarian cancer, triple-negative breast cancer, small cell lung cancer (SCLC)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>D6014C00005</b> <b>NCT03315091</b>	Advanced solid tumours	24	Open-label, randomised, 2-period crossover design: • Fasted (Treatment A): Single dose 300 mg adavosertib • Fed (Treatment B): Single dose 300 mg adavosertib  Conducted in Europe	<ul style="list-style-type: none"> <li>Primary endpoints: Plasma AUC, AUC<sub>0-t</sub> and CMAX</li> <li>Secondary endpoints: Plasma t<sub>max</sub>, λ<sub>z</sub>, t<sub>1/2</sub>, CL/F and Vz/F</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>LPCD: Q2 2018</li> </ul>
<b>Phase I</b> <b>D6014C00006</b> <b>NCT03333824</b>	Advanced solid tumours	30	Part A: caffeine (200mg), omeprazole (20mg) and midazolam (1mL of 2mg/mL syrup) followed 7-14 days later by adavosertib 225mg bid for 2.5 days plus caffeine (200mg), omeprazole (20mg) and midazolam (1mL of 2mg/mL syrup) on day 3. Part B: 7-14 days after end of Part A, adavosertib 225mg BID for 2.5 days.  Conducted in US	<ul style="list-style-type: none"> <li>Primary endpoints:</li> <li>Part A: Plasma AUC, AUC<sub>0-t</sub> and CMAX for cocktail parent compounds (midazolam, omeprazole and caffeine)</li> <li>Part B: dECG (Differentiated ECG) intervals (QTcF) for absolute values and time-matched change from baseline</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> </ul>
<b>Phase I</b> <b>D6014C00007</b> <b>NCT03313557</b>	Advanced solid tumours	54	adavosertib monotherapy once daily.  Conducted in US and Europe	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> </ul>



# Capivasertib (AZD5363, AKT inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT01226316</b>	Breast and gynaecological cancers with PIK pathway mutation	12-24 per arm (Parts E & F)	<p>AZD5363 400mg BD 4 days on 3 days off combined with 500mg fulvestrant [initially 12 patients per arm with option to expand to 24 patients in one or more arms]</p> <ul style="list-style-type: none"> <li>Part E arm 1: ER+ Breast with AKT-1 mutation (prior <i>Faslodex</i> resistance)</li> <li>Part E arm 2: ER+ Breast with AKT-1 mutation (first exposure to <i>Faslodex</i>)</li> <li>Part F arm 1: ER+ Breast with PTEN mutation (prior <i>Faslodex</i> resistance)</li> <li>Part F arm 2: ER+ Breast with PTEN mutation (first exposure to <i>Faslodex</i>)</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>ORR</li> <li>Clinical Benefit Rate at 24 weeks (CBR24) [Parts E &amp; F only]</li> </ul>	<ul style="list-style-type: none"> <li>Data anticipated: H2 2019</li> </ul>



# AZD0156 (ATM inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02588105</b>	Solid tumours	130	<ul style="list-style-type: none"> <li>• Arm 1: AZD0156 + Lynparza</li> <li>• Arm 2: AZD0156 + irinotecan</li> </ul> <p>Trial conducted in North America, Europe and South Korea</p>	<ul style="list-style-type: none"> <li>• Safety, tolerability, PK and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2015</li> <li>• Data anticipated: H2 2019</li> </ul>



# AZD1390 (ATM inhibitor, blood brain barrier)

## Cancer

Trial	Population	Subjects	Design	Endpoints	Status
<b>Phase I</b> <a href="#">NCT03215381</a>	Healthy volunteers	8	<ul style="list-style-type: none"> <li>Positron-Emission Tomography (PET) trial</li> <li>[11C]AZD1390 microdose administered by IV bolus</li> </ul> <p>Trial conducted in a single centre in Sweden</p>	<ul style="list-style-type: none"> <li>Brain distribution of AZD1390 to assess if [11C]AZD1390 crosses the blood brain barrier in healthy volunteers</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase I</b> <a href="#">NCT03423628</a>	Recurrent Glioblastoma eligible for re-irradiation, brain metastases and leptomeningeal disease, newly-diagnosed glioblastoma patients	c. 132	<ul style="list-style-type: none"> <li>Designed to evaluate the safety, tolerability and PK of AZD1390 in combination with radiation therapy in patients with GBM and brain metastases from solid tumours</li> <li>Dose and schedule of AZD1390 administration will be adjusted during assessment of safety and tolerability during this Phase I trial</li> </ul> <p>Conducted across seven sites in USA and UK</p>	<ul style="list-style-type: none"> <li>Primary: Investigate the safety, tolerability, and MTD of AZD1390 administered in combination with radiation therapy in brain malignancies</li> </ul>	<ul style="list-style-type: none"> <li>FPCD Q2 2018</li> <li>Data anticipated: 2020+</li> </ul>



# AZD2811 (AURN)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02579226	Solid tumours	72	<ul style="list-style-type: none"> <li>Arm 1: AZD2811 dose escalation</li> <li>Arm 2: AZD2811 dose expansion</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Pharmacokinetics and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: H2 2019</li> </ul>
Phase I NCT03217838	Acute Myeloid Leukaemia/High-Risk Myelodysplastic Syndrome	36	<ul style="list-style-type: none"> <li>Part A: AZD2811 single agent dose escalation cohorts</li> <li>Part B: AZD2811 dose expansion to further explore the tolerability, PK and clinical activity.</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Pharmacokinetics and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2017</li> <li>Data anticipated: 2020+</li> </ul>



# AZD4547 (FGFR inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase II GLOW</b> <a href="#">NCT01202591</a>	Female ER+ breast cancer patients whose disease has progressed following treatment with one prior endocrine therapy	40	<ul style="list-style-type: none"> <li>Part A: AZD4547 in ascending multiple doses in combination with 25mg exemestane</li> <li>Part B: <ul style="list-style-type: none"> <li>Arm 1: AZD4547 (dose from part A) + <i>Faslodex</i></li> <li>Arm 2: placebo + <i>Faslodex</i></li> </ul> </li> </ul> <p>Patients with FGFR1 polysomy (30 patients) or FGFR1 amplification (60 patients)</p> <p>Conducted in eight countries in Europe</p>	<ul style="list-style-type: none"> <li>Part A: MTD of AZD4547 in combination with 25mg exemestane in three schedules of AZD4547</li> <li>Part B Interim analysis: Tumour size analysis on 30 FGFR amplified patients</li> <li>Part B Final analysis: PFS</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2010</li> <li>LPCD: Q1 2014</li> <li>Data readout: Q3 2014</li> </ul>
<b>Phase II SHINE</b> <a href="#">NCT01457846</a>	Advanced gastro-oesophageal cancer	71	<ul style="list-style-type: none"> <li>Arm 1 (FGFR2 polysomy): AZD4547 vs. paclitaxel randomised 1:1 (30 to 80 patients)</li> <li>Arm 2 (FGFR 2 low gene amplification: AZD4547 vs. paclitaxel randomised 3:2 (25 to 80 patients)</li> <li>Arm 3 (FGFR2 high gene amplification: AZD4547 vs. paclitaxel randomised 3:2 (25 to 80 patients)</li> </ul> <p>Conducted in 16 countries across Europe and Asia</p>	<ul style="list-style-type: none"> <li>Primary endpoint: PFS</li> <li>Secondary endpoint: OS/Tumour size</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2011</li> <li>LPCD: Q2 2013</li> <li>Data readout: Q1 2015</li> </ul>
<b>Phase I</b> <a href="#">NCT01213160</a>	Advanced cancer who have failed standard therapy or for whom no standard therapy exists	33	<ul style="list-style-type: none"> <li>Part A: AZD4547 in ascending multiple doses given bd and QD (c. 30 patients)</li> <li>Part B: AZD4547 in patients whose tumours have FGFR amplification (c. eight patients)</li> </ul> <p>Conducted in Japan</p>	<ul style="list-style-type: none"> <li>Part A: MTD and recommended dose for Parts B and C</li> <li>Part B: Safety and tolerability and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2010</li> <li>LPCD: Q4 2012</li> <li>Data readout: Q2 2013</li> </ul>
<b>Phase I</b> <a href="#">NCT00979134</a>	Advanced cancer who have failed standard therapy or for whom no standard therapy exists	94	<ul style="list-style-type: none"> <li>Part A: Ascending oral doses of AZD4547 to define MTD and /or continuous, tolerable recommended dose (RD)</li> <li>Part B: Dose expansion phase at RD defined in Part A</li> <li>Part C: Expansion phase in patients with FGFR1 and FGFR2 amplified tumours at the RD defined from Part A</li> </ul> <p>Conducted in seven countries across North America and Europe</p>	<ul style="list-style-type: none"> <li>Part A: MTD and recommended dose for Parts B and C</li> <li>Part B and C: Safety and tolerability, PK and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2009</li> <li>LPCD: Q4 2013</li> <li>Data readout: Q1 2015</li> </ul>
<b>Phase I BISCAV</b> <a href="#">NCT02546661</a>	2L muscle-invasive metastatic bladder cancer in patients who have failed prior therapy	110	<ul style="list-style-type: none"> <li>Multi-drug biomarker-directed trial</li> <li>Arm 1: AZD4547</li> <li>Arm 2: AZD4547 + <i>Imfinzi</i></li> <li>Arm 3: <i>Lynparza</i> + <i>Imfinzi</i></li> <li>Arm 4: AZD1775 + <i>Imfinzi</i></li> <li>Arm 5: <i>Imfinzi</i></li> <li>Arm 6: vistusertib + <i>Imfinzi</i></li> <li>Arm 7: AZD9150 + <i>Imfinzi</i></li> <li>Arm 8: selumetinib + <i>Imfinzi</i></li> </ul> <p>Planned in North America and Europe</p>	<ul style="list-style-type: none"> <li>Safety and tolerability of the combinations</li> <li>PK and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2016</li> <li>Data anticipated: H1 2019</li> </ul>



# AZD4573 (CDK9 inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03263637	Relapsed/refractory haematologic malignancies	42	Dose escalation in relapsed/refractory haematological malignancies AZD4573 will be administered 2 parallel arms of (1-6 cohorts of dose escalations) based on the haematological malignancy	Primary: <ul style="list-style-type: none"><li>safety/PK;</li></ul> Secondary: <ul style="list-style-type: none"><li>efficacy</li></ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: H2 2019</li> </ul>



# AZD4635 (A<sub>2A</sub>R inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <a href="#">NCT02740985</a>	<p>Phase Ia: patients with advanced solid tumours</p> <p>Phase Ib: Post-immunotherapy NSCLC Other post-immunotherapy solid tumours Immune checkpoint-naïve metastatic castrate-resistant prostate carcinoma (mCRPC) Immune checkpoint-naïve colorectal carcinoma (CRC) Other immune checkpoint-naïve solid tumours</p>	<p>38</p> <p>170</p>	<ul style="list-style-type: none"> <li>Phase Ia: dose escalation to determine the MTD of AZD4635 given as monotherapy and in combination with <i>Imfinzi</i>. When the combination MTD is determined, additional patients with advanced solid malignancies will be enrolled to a dose expansion cohort to explore further the safety, tolerability, PK, and biological activity</li> <li>Phase 1b will consist of additional expansions in NSCLC, mCRPC, CRC and other post-immunotherapy and immune checkpoint-naïve solid tumours at the combination and/or monotherapy MTD or maximum feasible dose</li> </ul> <p>Both parts conducted at sites in the US</p>	<p>Primary outcome measure:</p> <ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul> <p>Secondary outcome measures:</p> <ul style="list-style-type: none"> <li>PK of AZD4635 as monotherapy and combination with <i>Imfinzi</i></li> <li>Preliminary assessment of anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data anticipated: H1 2019</li> </ul>



# AZD4785 (KRAS antisense oligonucleotide)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <a href="#">NCT03101839</a>	<p>Phase Ia: patients with advanced solid tumours which harbour mutations of KRAS</p> <p>Phase Ib: patients with advanced NSCLC with tumours harbouring mutations of KRAS</p>	<p>30 (estimated)</p> <p>20</p>	<ul style="list-style-type: none"> <li>Phase Ia: dose escalation to determine the MTD of AZD4785 given as monotherapy. When the MTD is determined, additional patients with advanced solid malignancies may be enrolled to explore further the safety, tolerability, pharmacokinetics (PK), and biological activity</li> <li>Phase Ib will consist of an expansion phase in patients with KRASm NSCLC at the MTD or maximum feasible dose.</li> </ul> <p>To be conducted at sites in the US and UK</p>	<p>Primary outcome measure: safety and tolerability</p> <p>Secondary outcome measures:</p> <ul style="list-style-type: none"> <li>Pharmacokinetics of AZD4785</li> <li>Change in KRAS mRNA from baseline</li> <li>Objective clinical response</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>Data anticipated: H2 2019</li> </ul>



# AZD5069 (CXCR2 antagonist)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase Ib/II</b> <b>NCT02499328</b>	Head and neck squamous-cell carcinoma (HNSCC)	465	<p>Dose escalation advanced solid and blood cancers</p> <ul style="list-style-type: none"> <li>• Arm A1: AZD9150/<i>Imfinzi</i></li> <li>• Arm A2: AZD5069/<i>Imfinzi</i></li> <li>• Arm A4: AZD9150/<i>Imfinzi/tremie</i></li> <li>• Arm A5: AZD5069/<i>Imfinzi/tremie</i></li> </ul> <p>Dose Expansion 2L HNSCC:</p> <ul style="list-style-type: none"> <li>• Arm B1: AZD9150</li> <li>• Arm B2: AZD5069</li> <li>• Arm B3: AZD9150/<i>Imfinzi</i></li> <li>• Arm B4: AZD5069/<i>Imfinzi</i></li> <li>• Arm B5: AZD9150 mono</li> <li>• Arm B6: AZD5069 mono</li> <li>• Arm B7: AZD9150/<i>Imfinzi</i> (1L HNSCC)</li> </ul>	<ul style="list-style-type: none"> <li>• Safety/efficacy trial</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2015</li> <li>• Data anticipated: H2 2019</li> </ul>
<b>Phase Ib/II</b> <b>NCT02583477</b>	Metastatic pancreatic ductal carcinoma	16	<p>Dose escalation and expansion arms:</p> <p><i>Imfinzi</i> in combination with nab-paclitaxel and gemcitabine  <i>Imfinzi</i> in combination with AZD5069</p>	<ul style="list-style-type: none"> <li>• Safety/efficacy trial</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2016</li> <li>• Data anticipated: Q4 2018</li> </ul>



# AZD5153 (BRD4 inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I/Ib</b> <b>NCT03205176</b>	Relapsed/refractory solid tumours, lymphomas	54	Dose Escalation advanced solid and lymphomas Six dose escalation cohorts of AZD5153  Dose and schedule from dose escalation will be applied in dose expansion Phase in platinum-resistant or platinum-refractory high grade serous (HGS) ovarian cancer	<ul style="list-style-type: none"> <li>• Primary: safety</li> <li>• Secondary: efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2017</li> <li>• Data anticipated: H2 2019</li> </ul>



# AZD5991 (MCL1 inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b>  NCT03218683	Relapsed/refractory haematologic malignancies	48	Dose escalation in relapsed/refractory haematological malignancies Five dose escalation cohorts of AZD5991	<ul style="list-style-type: none"> <li>• Primary-safety</li> <li>• Secondary-efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2017</li> <li>• Data anticipated: H2 2019</li> </ul>



# AZD6738 (ATR inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> NCT02264678	Solid tumours	160	<ul style="list-style-type: none"> <li>Arm 1: AZD6738 + carboplatin</li> <li>Arm 2: AZD6738 dose escalation, AZD6738 + <i>Lynparza</i></li> <li>Arm 3: AZD6738 + <i>Imfinzi</i></li> </ul> <p>Trial conducted in North America, Europe and South Korea</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>PK and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase I</b> NCT02264678	SCCHN	40	<p>Window of opportunity</p> <ul style="list-style-type: none"> <li>Arm 1: AZD6738</li> <li>Arm 2: <i>Lynparza</i></li> </ul> <p>Trial conducted in US, France and the UK</p>	<ul style="list-style-type: none"> <li>Biomarker change</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: H2 2019</li> </ul>
<b>Phase I (Partnered)</b> NCT03328273	CLL (chronic lymphocytic leukaemia)	70	<p>Dose escalation cohorts</p> <ul style="list-style-type: none"> <li>Arm 1: AZD6738</li> <li>Arm 2: AZD6738 + <i>Calquence</i></li> </ul> <p>Trial conducted in the UK and Poland</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Preliminary efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>Data anticipated 2020</li> </ul>



# AZD8186 (PI3K $\beta$ /d inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b>  NCT01884285	Advanced castrate resistant prostate Cancer /sqNSCLC /TNBC (triple-negative breast cancer) and patients with known PTEN-deficient/ mutated or PIK3CM mutated/ amplified advanced solid malignancies	153	<ul style="list-style-type: none"> <li>Part A: AZD8186 monotherapy in ascending intermittent doses in 3 schedules</li> <li>Part B: AZD8186 monotherapy at recommended dose and schedule(s) from Part A in PTEN deficient patients with advanced cancer</li> <li>Part C: combination AZD8186 added to abiraterone acetate (with prednisone) in PTEN deficient metastatic castrate resistant prostate cancer (mCRPC) patients. Initial dose/ schedule confirmation phase using AZD8186 monotherapy recommended dose/ schedule from Part A and the labelled dose of abiraterone followed by an expansion cohort to explore clinical activity</li> <li>Part D: combination AZD8186 and AZD2014 (a novel dual mTORC ½ inhibitor). Initial dose/ schedule determination phase in same patient population as Part A followed by an expansion cohort in PTEN deficient TNBC patients to explore clinical activity</li> </ul> <p>Trial conducted in Canada, US, Spain &amp; the UK</p>	<ul style="list-style-type: none"> <li>Part A: PK, MTD and recommended dose and schedule(s) for Part B</li> <li>Part B: Safety, tolerability and preliminary assessment of anti-tumour activity (PoM)</li> <li>Part C: PK, safety, tolerability and recommended dose/ schedule of AZD8186 in combination with abiraterone. Preliminary assessment of anti-tumour activity of AZD8186 in combination with abiraterone</li> <li>Part D: PK, safety, tolerability and recommended dose and schedule of AZD8186 in combination with AZD2014. Preliminary assessment of anti-tumour activity of AZD8186 in combination with AZD2014</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2013</li> <li>Data anticipated: H2 2019</li> </ul>



# AZD9150 (STAT3 inhibitor)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase Ib/II</b> <b>NCT02499328</b>	Head and neck squamous-cell carcinoma (HNSCC)	405	<p>Dose escalation advanced solid and blood cancers</p> <ul style="list-style-type: none"> <li>• Arm A1: AZD9150/<i>Imfinzi</i></li> <li>• Arm A2 : AZD5069/<i>Imfinzi</i></li> <li>• Arm A4: AZD9150/<i>Imfinzi/treme</i></li> <li>• Arm A5: AZD5069/<i>Imfinzi/treme</i></li> </ul> <p>Dose expansion 2L HNSCC:</p> <ul style="list-style-type: none"> <li>• Arm B1: AZD9150</li> <li>• Arm B2: AZD5069</li> <li>• Arm B3: AZD9150/<i>Imfinzi</i></li> <li>• Arm B4: AZD5069/<i>Imfinzi</i></li> <li>• Arm B5: AZD9150 mono</li> <li>• Arm B6: AZD5069 mono</li> <li>• Arm B7: AZD9150/<i>Imfinzi</i> (1L HNSCC)</li> </ul>	<ul style="list-style-type: none"> <li>• Safety/efficacy trial</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2015</li> <li>• Data anticipated: H2 2019</li> </ul>
<b>Phase Ib/II</b> <b>NCT02549651</b>	Diffuse Large B-cell Lymphoma	190	<p>Dose escalation and expansion Arms:</p> <ul style="list-style-type: none"> <li>• Experimental Arm: <i>Imfinzi</i> monotherapy</li> <li>• Experimental Arm: <i>Imfinzi</i> and tremelimumab</li> <li>• Experimental Arm: <i>Imfinzi</i> and AZD9150</li> </ul>	<ul style="list-style-type: none"> <li>• Safety/efficacy trial</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2016</li> <li>• Data anticipated: 2020+</li> </ul>
<b>Phase Ib/II</b> <b>NCT03421353</b>	NSCLC	213	<p>Dose escalation advanced solid and blood cancers</p> <ul style="list-style-type: none"> <li>• Arm A1: AZD9150 alternate week/<i>Imfinzi</i></li> <li>• Arm A2-A5 : AZD9150/<i>Imfinzi</i> + SoC chemotherapy</li> </ul> <p>Dose Expansion 1L HNSCC:</p> <ul style="list-style-type: none"> <li>• Arm B1: AZD9150 alternate week/<i>Imfinzi</i></li> <li>• Arm B2: AZD9150 weekly/<i>Imfinzi</i></li> <li>• Arm C1: AZD9150/<i>Imfinzi</i>+SoC chemo</li> </ul>	<ul style="list-style-type: none"> <li>• Safety/efficacy trial</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2018</li> <li>• Data anticipated: 2020+</li> </ul>



# AZD9496 (selective estrogen receptor degrader)

## Breast cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03236974</b>	ER+ Breast Cancer	c. 50	<ul style="list-style-type: none"> <li>This is an open label randomised multicentre pre-surgical pharmacodynamics trial to compare and assess the biological effects of AZD9496 and <i>Faslodex</i> in postmenopausal women with oestrogen receptor positive (ER+), human epidermal growth factor receptor 2 negative (HER2-) primary breast cancer. Patients will receive AZD9496 or <i>Faslodex</i> and will have a pre-dose and an on-treatment core biopsy after 5-14 days of commencing treatment.</li> </ul>	<ul style="list-style-type: none"> <li>Primary Outcome Measures: Pharmacodynamics changes to estrogen receptor (ER) expression following treatment with AZD9496 or <i>Faslodex</i></li> <li>Secondary Outcome Measures: Pharmacodynamics changes to Ki67 and progesterone receptor (PgR) expression following treatment with AZD9496 or <i>Faslodex</i></li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: H2 2019</li> </ul>
<b>Phase I</b> <b>NCT02248090</b>	ER+ Breast Cancer	c. 50	<ul style="list-style-type: none"> <li>This is a Phase I open label multicentre trial of AZD9496 administered orally in patients with advanced ER+ HER2 negative breast cancer. The trial design allows an escalation of dose with intensive safety monitoring to ensure the safety of patients. The trial will determine the maximum tolerated dose. In addition, expansion cohort(s) at potential therapeutic dose(s) in patients with or without ESR1 mutations will be enrolled to further determine the safety, tolerability, pharmacokinetics and biological activity of AZD9496</li> </ul>	<ul style="list-style-type: none"> <li>Primary Outcome Measures: Safety and tolerability</li> <li>Secondary Outcome Measures: Single and multiple dose pharmacokinetics of AZD9496 4β-hydroxycholesterol concentration in blood</li> <li>Anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>LPCD: Q2 2016</li> <li>Data readout: Q2 2017</li> </ul>
<b>Phase I</b> <b>NCT02780713</b>	Healthy subjects	14	<ul style="list-style-type: none"> <li>This is a Phase I open label single centre trial to assess the pharmacokinetics and safety of different forms and formulations of AZD9496 in healthy subjects</li> </ul>	<ul style="list-style-type: none"> <li>Primary Outcome Measures: Pharmacokinetics for AZD9496 and its metabolites</li> <li>Secondary Outcome Measures: Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>LPCD: Q3 2016</li> <li>Data readout: Q2 2017</li> </ul>



# AZD9833 (selective estrogen receptor degrader)

## Breast cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b>  NCT03616587	ER+ breast cancer	240	<ul style="list-style-type: none"> <li>This is a Phase I open label multicentre trial of AZD9833 administered orally in patients with advanced ER+ HER2 negative breast cancer. The trial design allows an escalation of dose with intensive safety monitoring to ensure the safety of patients. The trial will determine the maximum tolerated dose of AZD9833 as monotherapy and in combination with palbociclib. In addition, randomised expansion cohort(s) at potential therapeutic dose(s) in patients will be enrolled to further determine the safety, tolerability, pharmacokinetics and biological activity of AZD9833 alone and in combination with palbociclib.</li> </ul>	<ul style="list-style-type: none"> <li>Primary outcome measures: safety and tolerability</li> <li>Secondary outcome measures: multiple dose pharmacokinetics of AZD9833 alone and in combination with palbociclib. Antitumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2018</li> </ul>



# Verinurad (RDEA3170, URAT1 inhibitor)

## Chronic kidney disease

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase II</b> <a href="#">NCT03118739</a>	CKD (Chronic Kidney Disease) patients with hyperuricaemia, albuminuria, and Type 2 diabetes	60	<ul style="list-style-type: none"> <li>• Arm A: verinurad 9 mg and febuxostat 80 mg</li> <li>• Arm B: Placebo</li> </ul> <p>The trial is a multi-centre trial conducted in the US</p>	To assess the effects of intensive uric acid lowering therapy with RDEA3170 and febuxostat on UACR (urine albumin creatinine ratio)	<ul style="list-style-type: none"> <li>• FPCD: Q2 2017</li> <li>• LPCD: Q3 2018</li> <li>• Data readout: Q4 2018</li> </ul>
<b>Phase II</b> <a href="#">NCT03316131</a>	Asymptomatic hyperuricemic subjects (sUA (serum uric acid levels) > 6.0 mg/dL)	36	<ul style="list-style-type: none"> <li>• Arm A: 9 mg verinurad + 80 mg febuxostat + 10 mg dapagliflozin</li> <li>• Arm B: 9 mg verinurad + 80 mg febuxostat + placebo</li> </ul> <p>The trial is a two-centre trial conducted in the US</p>	<p>Primary: Peak uric acid excretion during the first 8 hours) on Day 7 of treatment            Secondary: serum uric acid levels after 7 days of treatment.</p>	<ul style="list-style-type: none"> <li>• FPCD: Q4 2017</li> <li>• LPCD: Q3 2018</li> <li>• Data readout: Q4 2018</li> </ul>



# AZD4831 (MPO inhibitor) & AZD5718 (FLAP inhibitor)

## Cardiovascular disease

Trial	Population	Patients	Design	Endpoints	Status
<b>AZD4831 (MPO)</b> <b>Phase I</b> <b>NCT02712372</b>	Healthy subjects	c. 96	SAD trial (one trial site in Germany) • Planned to investigate 6 different dose levels vs. placebo but up to 10 cohort may be used	• Safety and tolerability • PK parameters	• FPCD: Q3 2016 • LPCD: Q4 2016 • Data readout Q2 2017
<b>AZD4831 (MPO)</b> <b>Phase I</b> <b>NCT03136991</b>	Healthy subjects	c. 40	MAD (one trial site in USA) • The planned number of cohorts is four but up to five cohorts may be included	• Safety and tolerability • PK parameters	• FPCD: Q2 2017 • LPCD: Q4 2017 • Data readout: Q1 2018
<b>AZD5718 (FLAP)</b> <b>Phase I</b> <b>NCT02632526</b>	Healthy subjects	96	SMAD trial (one trial site in UK) SAD • Oral administration MAD	• Safety and tolerability • PK parameters, bioavailability	• FPCD: Q1 2016 • LPCD: Q3 2016 • Data readout: Q4 2016
<b>AZD5718 (FLAP)</b> <b>Phase I</b> <b>NCT02963116</b>	Healthy subjects	12	DDI/BA trial (one trial site in UK)  A randomised, 5-period, 5-treatment, single-dose, crossover trial to estimate the effect of AZD5718 on the PK of rosuvastatin, and to assess the relative BA of different formulations of AZD5718 as well as the food effect of AZD5718	• PK and bioavailability • To further assess the safety of single doses of AZD5718 in healthy subjects	• FPCD: Q2 2016 • LPCD: Q1 2017 • Data readout Q2 2017
<b>AZD5718 (FLAP)</b> <b>Phase IIa</b> <b>NCT03317002</b>	Coronary Artery Disease (CAD)	138	Phase IIA trial • Arm 1: AZD5718 Dose A • Arm 2: AZD 5718 Dose B • Arm 3: Placebo  Global trial – three countries in Europe	• Primary endpoint: PD effect of AZD5718 by assessment of u-LTE4	• FPCD: Q4 2017
<b>AZD5718 (FLAP)</b> <b>Phase I</b> <b>NCT03400488</b>	Healthy subjects	48	Combined SAD and MAD trial in Japanese subjects (one trial site in USA)	• Safety and tolerability • PK and PD parameters	• FPCD: Q1 2018 • LPCD: Q2 2018 • Data readout: Q4 2018
<b>AZD5718 (FLAP)</b> <b>Phase I</b> <b>NCT03420092</b>	Healthy subjects	14	BA trial (one trial site in UK) A randomised, 6-period, 6-treatment, single-dose, open-label, crossover trial to assess the relative bioavailability of different formulations of AZD5718 and the food effect	• PK and bioavailability • Safety and tolerability	• FPCD: Q1 2018 • LPCD: Q2 2018 • Data readout: Q3 2018

# AZD8233 (anti-hypercholesterolemia)

## Hypercholesterolemia

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03593785</b>	Healthy subjects	40	SAD  Dose escalation in 5 cohorts with 6 subjects receiving AZD8233 and 2 subjects receiving placebo in each cohort  Trial conducted in the US.	Primary: • Safety and tolerability  Secondary: • PK and PD parameters	• FPCD: Q3 2018



# AZD8601 (VEGF-A modified RNA)

## Cardiovascular disease

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02935712</b>	Type 2 diabetic patients	c. 60	SAD trial (one trial site in Germany) <ul style="list-style-type: none"> <li>Planned to investigate 3 different dose levels vs. placebo but up to 5 cohort may be used</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>LPCD: Q3 2017</li> <li>Data readout: Q1 2018</li> </ul>
<b>Phase IIa</b> <b>NCTT03370887</b>	Heart Failure	Up to 33	Phase IIa trial ( Two trial sites in Finland) <ul style="list-style-type: none"> <li>Arm 1: AZD8601 Dose A</li> <li>Arm 2: AZD 8601 Dose B</li> <li>Arm 3: Placebo</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> </ul>



# AZD9977

## Heart failure with preserved ejection fraction



Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03435276</b>	Healthy subjects	27	MAD  Dose escalation in 3 cohorts with 6 subjects receiving AZD9977 and 3 subjects receiving placebo in each cohort  Trial conducted in the UK.	Primary: <ul style="list-style-type: none"><li>Safety and tolerability</li></ul> Secondary: <ul style="list-style-type: none"><li>PK parameters</li></ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>LPCD: Q2 2018</li> </ul>
<b>Phase I</b> <b>NCT03450759</b>	Healthy subjects	12	Bioavailability trial  Investigation of four different oral formulations of AZD9977 and influence of food.  Trial conducted in the UK.	Primary: <ul style="list-style-type: none"><li>relative bioavailability vs. oral suspension (reference)</li><li>PK parameters</li></ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>LPCD: Q2 2018</li> </ul>
<b>Phase I</b> <b>NCT03682497</b>	HFpEF	60	Proof of differentiation  To compare the effect of AZD9977 with spironolactone on serum potassium	Primary: <ul style="list-style-type: none"><li>serum potassium</li></ul>	<ul style="list-style-type: none"> <li>FPCD Q4 2018</li> <li>LPCD Q1 2019</li> </ul>



# AZD1402 (IL4 receptor antagonist)

## Asthma

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03384290</b> <b>Partnered</b>	Healthy subjects	Inhaled: 56 IV: 16	SAD. A dose escalating single blind trial to assess the safety, tolerability and pharmacokinetics of single dose of PRS-060 administered by oral Inhalation or IV Infusion in healthy subjects <ul style="list-style-type: none"><li>• ARM 1-7 (Inhaled (nebulizer) PRS-060 and matched placebo</li><li>• ARM8-9 (IV) PRS-060 and matched placebo</li></ul> Australia	Primary endpoint: <ul style="list-style-type: none"><li>• Safety and tolerability</li></ul> Secondary endpoint: <ul style="list-style-type: none"><li>• PK parameters</li></ul>	<ul style="list-style-type: none"><li>• FPCD: Q4 2017</li><li>• LPCD: Q3 2018</li><li>• Data readout: Q4 2018</li></ul>
<b>Phase Ib</b> <b>NCT03574805</b> <b>Partnered</b>	Patients with mild asthma	70	PoM. A dose-escalating, single blind trial to assess the safety, tolerability, and pharmacokinetics of multiple doses of PRS-060 administered by oral Inhalation In subjects with mild asthma <ul style="list-style-type: none"><li>• ARM 1-4 (ARM 5 optional) (inhaled nebulizer) and matched placebo</li></ul> Australia	Primary endpoint: <ul style="list-style-type: none"><li>• Safety and tolerability</li></ul> Secondary endpoint: <ul style="list-style-type: none"><li>• PK parameters</li><li>• Potential immunogenicity</li><li>• Change in fractional nitric oxide concentration in exhaled breath (FeNO)</li></ul>	<ul style="list-style-type: none"><li>• FPCD: Q3 2018</li><li>• LPCD Q2 2019</li><li>• Data anticipated: H2 2019</li></ul>



# AZD1419 (TLR9 agonist)

## Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase IIa <b>INCONTRO</b> NCT02898662	Adults with eosinophilic, moderate to severe asthma on ICS + LABA background treatment	81	<ul style="list-style-type: none"> <li>Arm 1: AZD1419, once-weekly adaptive dosing (4mg, 1mg, 8mg)</li> <li>Arm 2: placebo</li> </ul> <p>Inhaled (nebulised) administration Trial conducted in EU</p>	<ul style="list-style-type: none"> <li>Time to loss of asthma control</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2016</li> <li>LPCD: Q4 2017</li> <li>Data anticipated: Q4 2018</li> </ul>



# AZD8154 (PI3K $\gamma\delta$ inhibitor)

## Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03436316	Healthy subjects	54	SAD A Phase 1 trial to assess the safety, tolerability and pharmacokinetics of AZD8154 following single dose administration in healthy subjects	Primary endpoint: • Safety and tolerability  Secondary endpoint: • PK parameters	• FPCD: Q3 2018



# AZD9567 (SGRM, oral)

## Respiratory

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02760316</b>	Healthy subjects	71	MAD trial with a total of 6 dose levels of AZD9567: 10 mg, 20mg, 40mg, 80mg and 125 mg as well as with 3 dose levels of prednisolone: 5 mg, 20 mg and 40 mg	<p>Primary endpoint:</p> <ul style="list-style-type: none"> <li>To assess the safety and tolerability of AZD9567 following multiple oral ascending doses in subjects with BMI between 28 and 38 kg/m<sup>2</sup> and with a positive glucose tolerance test (7,8 to 11,0 mmol/L)</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>To characterise the pharmacokinetics of AZD9567 following multiple oral administration of ascending doses</li> <li>To characterise the pharmacodynamics of AZD9567 assessed as effect on glucose homeostasis through OGTT (oral glucose tolerance test) in comparison with prednisolone</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data readout: Q2 2018</li> </ul>
<b>Phase IIa</b> <b>NCT03368235</b>	Patients with active Rheumatoid Arthritis (RA)	40	A Phase II, randomised, double-blind, parallel trial to assess the efficacy, safety and tolerability of AZD9567 compared to prednisolone 20 mg in patients with active rheumatoid arthritis	<p>Primary endpoint:</p> <p>To assess the efficacy of AZD9567, 40 mg, compared to prednisolone 20 mg in patients with active RA in spite of stable treatment with conventional and/or sc/i.v. biological DMARDs (Disease-modifying antirheumatic drugs)</p> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>To further assess the efficacy of AZD9567, 40 mg, compared to prednisolone 20 mg in patients with active rheumatoid arthritis in spite of stable treatment with conventional and/or sc/i.v. biological DMARDs (e.g SJC 66/TJC68, ACR response criteria)</li> <li>To evaluate the pharmacokinetic profile of AZD9567</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> </ul>



# AZD0284 (ROR $\gamma$ inverse agonist)

## Plaque psoriasis vulgaris

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02976831</b>	Healthy subjects	80	Part 1 (SAD) <ul style="list-style-type: none"> <li>Seven different dose levels investigated vs. placebo</li> <li>Oral administration</li> </ul> Part 2 (MAD) <ul style="list-style-type: none"> <li>Three different dose levels investigated vs. placebo in healthy subjects</li> <li>Oral administration</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability and PK following oral administration with single ascending dose</li> <li>Preliminary assessment of the effect of food on the single dose PK parameters of AZD0284</li> </ul> <ul style="list-style-type: none"> <li>Safety and tolerability &amp; PK in healthy subjects following administration of multiple ascending oral doses</li> <li>Proof of Mechanism (PoM) confirmed by demonstrating that oral dosing of AZD0284 reduces IL-17 secretion by ex vivo stimulated whole blood T cells</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2016</li> <li>LPCD: Q2 2017</li> </ul> <ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>LPCD: Q1 2017</li> </ul>
<b>Phase I</b> <b>NCT03029741</b>	Healthy subjects	6	A Phase I, single centre, open-label, non-randomised, single dose trial performed in 6 healthy male subjects aged 18 to 65 years, inclusive. The trial will assess the absolute bioavailability of a single oral dose of AZD0284 and the pharmacokinetics (PK) of a single intravenous (IV) microdose of [ <sup>14</sup> C]AZD0284 in healthy male and female subjects. Oral AZD0284 and [ <sup>14</sup> C] AZD0284 intravenous solution are referred to as the investigational products in this trial	<ul style="list-style-type: none"> <li>Determination of absolute bioavailability of AZD0284</li> <li>Safety and tolerability of AZD0284</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>LPCD: Q1 2017</li> <li>The trial is temporarily suspended due to preclinical findings that are currently under evaluation</li> </ul>



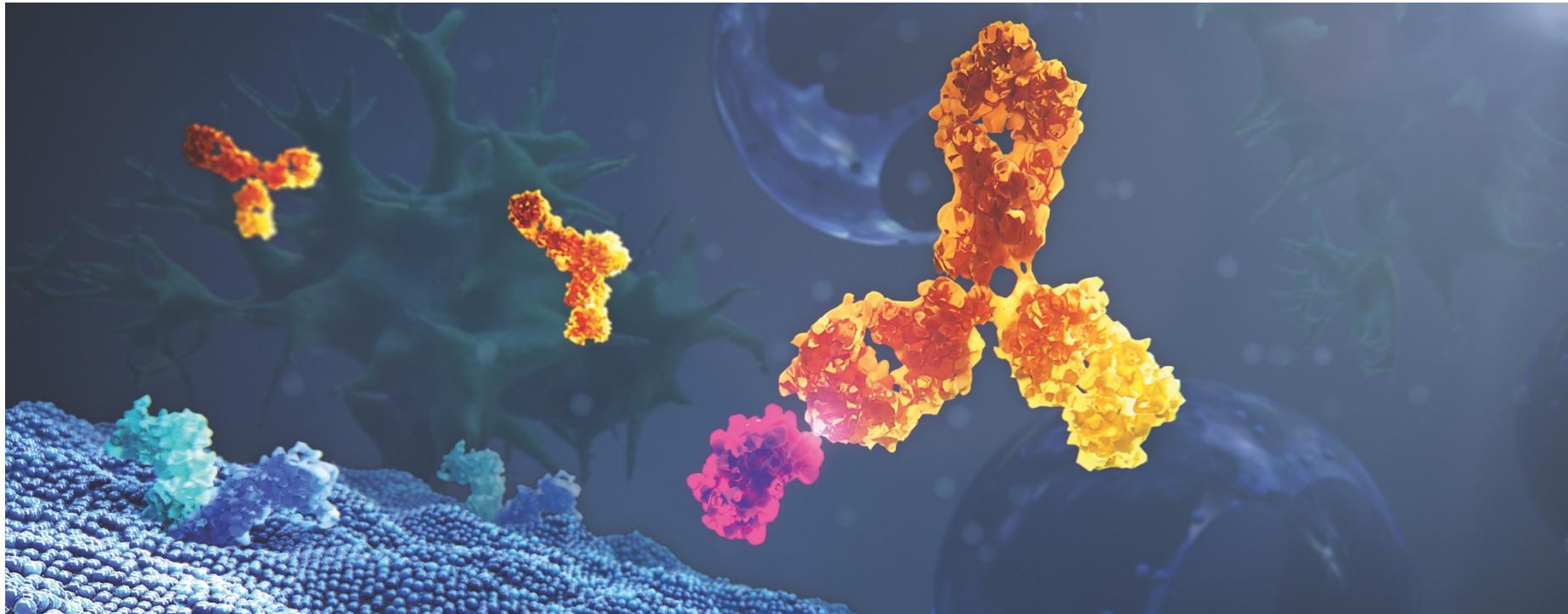
# AZD5634 (epithelial NaC inhibitor)

## Cystic fibrosis

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02679729</b>	Healthy subjects	Part A: 57 Part B: 6	SAD A Phase I, randomised, single-blind, placebo-controlled trial to assess the safety, tolerability and pharmacokinetics of AZD5634 following single-ascending inhaled doses (Part A) and after single inhaled and intravenous doses (Part B) in healthy subjects	Primary endpoint: <ul style="list-style-type: none"><li>• Safety and tolerability</li></ul> Secondary endpoint: <ul style="list-style-type: none"><li>• PK parameters</li></ul>	<ul style="list-style-type: none"><li>• FPCD: Q1 2016</li><li>• LPCD: Q3 2016</li><li>• Data readout: Q2 2017</li></ul>
<b>Phase Ib</b> <b>NCT02950805</b>	Patients with cystic fibrosis	10	PoM A Phase Ib, randomised, blinded, placebo-controlled cross-over trial to assess the effect of AZD5634 on mucociliary clearance as well as safety, tolerability and pharmacokinetic parameters following single inhaled dose administration to patients with cystic fibrosis	Primary endpoint: <ul style="list-style-type: none"><li>• Mucociliary clearance (MCC)</li></ul> Secondary endpoint: <ul style="list-style-type: none"><li>• PK parameters</li><li>• Safety and tolerability</li></ul>	<ul style="list-style-type: none"><li>• FPCD: Q2 2017</li><li>• LPCD Q1 2018</li><li>• Data readout: Q2 2018</li></ul>



## Early development - MedImmune Research & Early Development



# *Imfinzi (PD-L1 mAb)*

## + *Iressa (gefitinib)*

### Non-small cell lung cancer (NSCLC)

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02088112	NSCLC (Escalation phase)  EGFR M+ NSCLC naïve to EGFR-TKI therapy (Expansion phase)	56	Escalation phase Standard 3+3 design with 28 days DLT period • <i>Iressa</i> (QD) + <i>Imfinzi</i> IV  Expansion phase • <i>Iressa</i> (QD) + <i>Imfinzi</i> IV recommended dose  Global trial - three countries	Primary endpoints: • Safety • Optimal biologic dose for the combination • Secondary endpoints: tumour response (CR, PR, SD, PD), objective response rate, disease control rate, progression-free survival, immunogenicity, pharmacokinetics, pharmacodynamics	• FPCD: Q2 2014 • LPCD: Q2 2015 • Data readout: Q3 2018



# *Imfinzi (PD-L1 mAb) + dabrafenib (BRAF inhibitor) / trametinib (MEK inhibitor)*

## Melanoma

Trial	Population	Patients	Design	Endpoints	Status
Phase I/II NCT02027961	<p>Metastatic or unresectable melanoma</p> <p>BRAF mutation+ (Cohort A)</p> <p>BRAF wild type (Cohorts B&amp;C)</p>	68	<p>Dose Escalation:</p> <ul style="list-style-type: none"> <li>Cohort A: dabrafenib 150mg BiD/ trametinib 2mg QD/ <i>Imfinzi</i> IV</li> <li>Cohort B: trametinib 2mg QD/ <i>Imfinzi</i> IV</li> <li>Cohort C: trametinib 2mg QD/ <i>Imfinzi</i> IV</li> </ul> <p>Dose Expansion:</p> <ul style="list-style-type: none"> <li>Each cohort will be expanded at the MTD to enrol a total of 20 subjects per cohort</li> </ul> <p>Global trial - four countries</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> </ul> <p>Secondary endpoints include objective response and disease control, duration of response, progression-free survival and OS, pharmacokinetics and immunogenicity</p>	<ul style="list-style-type: none"> <li>FPCD: Q1 2014</li> <li>LPCD: Q2 2015</li> <li>Data anticipated: Q4 2018</li> </ul>



# *Imfinzi* (PD-L1 mAb)

## Cancer

Trial	Compound	Population	Patients	Design	Endpoints	Status
<b>Phase I/II STUDY 1108</b> <b>NCT01693562</b>	<i>Imfinzi</i>	Solid tumours	1,022	<ul style="list-style-type: none"> <li>Dose escalation: 5 cohorts at Q2W and 1 cohort at Q3W</li> <li>Dose expansion: 16 tumour type cohorts at the Q2W MTD defined during dose escalation</li> <li>Dose exploration: cohort at 20mg Q4W</li> </ul> Global trial - nine countries	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose</li> <li>Secondary endpoints include PK, immunogenicity and antitumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2012</li> <li>LPCD: Q4 2016</li> <li>Data anticipated: H2 2019</li> </ul>
<b>Phase I</b> <b>NCT02117219</b>	<i>Imfinzi</i> , azacitidine (Vidaza)	Myelodysplastic syndrome	73	Dose escalation and dose expansion trial <ul style="list-style-type: none"> <li>Part 1: <i>Imfinzi</i></li> <li>Part 2 Arm 1: <i>Imfinzi</i> and tremelimumab</li> <li>Part 2 Arm 2: <i>Imfinzi</i>, tremelimumab and azacitidine</li> </ul> Global trial - four countries	<ul style="list-style-type: none"> <li>Safety and tolerability of monotherapy and combination</li> <li>Secondary endpoints include duration of response, PFS and OS, PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> <li>Data anticipated: H1 2019</li> </ul>
<b>Phase I</b> <b>NCT02900157</b>	<i>Imfinzi</i>	Solid tumours	42	Multi-centre, open-label, single-arm trial for adult subjects US and Japan trial centers	<ul style="list-style-type: none"> <li>Safety, PK, number of subjects reporting infusion related reaction</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2016</li> <li>Data anticipated: H1 2019</li> </ul>
<b>Phase II</b> <b>HUDSON</b> <b>NCT03334617</b>	<i>Imfinzi</i> <i>Lynparza</i> Vistusertib AZD6738 Danvatirsen Oleclumab	Non-small-cell lung cancer (NSCLC)	260	5 modules encompassing 13 cohorts Module 1; <i>Imfinzi</i> and <i>Lynparza</i> Module 2; <i>Imfinzi</i> and danvatirsen Module 3; <i>Imfinzi</i> and AZD6738 Module 4; <i>Imfinzi</i> and vistusertib Module 5; <i>Imfinzi</i> and oleclumab  Open-label, biomarker-directed, multi-centre Phase II umbrella trial in patients with NSCLC, who progressed on an anti-PD-1/PD-L1 containing therapy	<ul style="list-style-type: none"> <li>Primary outcome; ORR</li> <li>Secondary outcomes; efficacy including OS, PFS, DCR, and safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>Data anticipated: 2020+</li> </ul>



# *Imfinzi* (PD-L1 mAb) + tremelimumab (CTLA-4 mAb)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/II STUDY 21 <a href="#">NCT02340975</a>	Gastric/gastro-Oesophageal junction (GEJ) adenocarcinoma	135	<ul style="list-style-type: none"> <li>Arm A: <i>Imfinzi</i> + tremelimumab 2L</li> <li>Arm B: <i>Imfinzi</i> 2L</li> <li>Arm C: tremelimumab 2L</li> <li>Arm D: <i>Imfinzi</i> + tremelimumab 3L</li> <li>Arm E: <i>Imfinzi</i> + tremelimumab 2L &amp; 3L</li> </ul> US and ROW trial centres	<ul style="list-style-type: none"> <li>Primary endpoints: Safety &amp; tolerability, ORR, PFS</li> <li>Secondary endpoints: DCR, OS, DoR, PD-L1 Expression</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2015</li> <li>Data anticipated: H1 2019</li> </ul>
Phase Ib/II STUDY 22 <a href="#">NCT02519348</a>	Hepatocellular Carcinoma	440	<ul style="list-style-type: none"> <li>Arm A: <i>Imfinzi</i> + tremelimumab</li> <li>Arm B: <i>Imfinzi</i> 2L</li> <li>Arm C: tremelimumab 2L</li> <li>Arm D: <i>Imfinzi</i> + tremelimumab</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoints: Safety &amp; tolerability, ORR, PFS</li> <li>Secondary endpoints: DCR, OS, DoR, PD-L1 Expression</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: H2 2019</li> </ul>
Phase Ib STUDY 006 <a href="#">NCT02000947</a>	Non-small-cell lung cancer (NSCLC) (Immunotx naïve and Immunotx pretreated patient cohorts)	459	<ul style="list-style-type: none"> <li>Dose Escalation: minimum 5 cohorts exploring various tremelimumab Q4W and <i>Imfinzi</i> IV Q4W dose combinations, higher dose levels and alternate Q2 schedule added with amendment</li> <li>Dose Expansion: MTD for the combination in escalation to be explored in expansion</li> </ul> North American, EU and ROW trial centres	Primary endpoints: <ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> <li>OR</li> </ul> Secondary endpoints include antitumour activity, PK and immunogenicity	<ul style="list-style-type: none"> <li>FPCD: Q4 2013</li> <li>LPCD: Q4 2016</li> <li>Data anticipated: H2 2019</li> </ul>
Phase I STUDY 10 <a href="#">NCT02261220</a>	Solid tumours (Basket trial)	380	<ul style="list-style-type: none"> <li>Dose Expansion: MTD for the combination in escalation to be explored in expansion cohorts specific for each of 7 tumour types</li> <li>Dose Exploration: 2 cohorts exploring various Q4W tremelimumab and <i>Imfinzi</i> dose combinations and 2 cohorts exploring various Q2W tremelimumab and <i>Imfinzi</i> dose combinations</li> </ul> North American, EU and ROW trial centres	Primary endpoints: <ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> <li>Secondary endpoints include anti-tumour activity, PK/PD and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>LPCD: Q2 2017</li> <li>Data anticipated: H2 2019</li> </ul>
Phase Ib STUDY 23 <a href="#">NCT02549651</a>	Diffuse Large B cell Lymphoma	207	<ul style="list-style-type: none"> <li>Arm A: <i>Imfinzi</i></li> <li>Arm B: <i>Imfinzi</i> + tremelimumab</li> <li>Arm C: <i>Imfinzi</i> + AZD9150</li> </ul> US and European trial centres	<ul style="list-style-type: none"> <li>Primary endpoint: Safety &amp; tolerability</li> <li>Secondary endpoints: OR, DC, DoR, PFS, OS, PK/PD, immunogenicity and biomarkers</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2016</li> <li>Data anticipated: 2020+</li> </ul>



# *Imfinzi* (PD-L1 mAb) + monalizumab (NKG2a mAb)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02671435</b>	Advanced solid tumours	262	Escalation phase <ul style="list-style-type: none"> <li>• monalizumab + <i>Imfinzi</i> IV</li> </ul> Expansion phase <ul style="list-style-type: none"> <li>• monalizumab + <i>Imfinzi</i> IV recommended dose</li> </ul> Exploration phase <ul style="list-style-type: none"> <li>• monalizumab + <i>Imfinzi</i> IV recommended dose + SoC systemic therapy with or without biologic agent in adult subjects with CRC (Colorectal cancer)</li> </ul> Global trial	Primary endpoints: <ul style="list-style-type: none"> <li>• Safety</li> <li>• Optimal biologic dose for the combination</li>   <li>• Secondary endpoints include tumour response (CR, PR, SD, PD), Objective response rate, disease control rate, progression-free survival, immunogenicity, pharmacokinetics, pharmacodynamics</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2016</li> <li>• Data anticipated: 2020+</li> </ul>



# *Imfinzi* (PD-L1 mAb) + MEDI0457 (DNA HPV Vaccine)

## Squamous cell carcinoma of the Head and Neck (SCCHN)

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/Ila <a href="#">NCT03162224</a>	Human papillomavirus (HPV) Associated Recurrent/Metastatic Head and Neck Cancer	50	Multi-centre, open label trial to evaluate the safety and efficacy of combination treatment with MEDI0457 and <i>Imfinzi</i>	Primary endpoints: Safety & Tolerability, ORR  Secondary endpoints: PK, ADA, DCR, OS, PFS	<ul style="list-style-type: none"> <li>• FPCD: 3Q 2017</li> <li>• Data anticipated: 2020</li> </ul>



# ***Imfinzi (PD-L1 mAb)*** **+ MEDI0680 (PD-1 mAb)**

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02118337</b>	Advanced malignancies (escalation phase)  Renal cell carcinoma (RCC) (expansion phase)	97	Dose escalation phase • <i>Imfinzi</i> IV + MEDI0680 IV  Dose expansion phase at selected dose from dose-escalation phase • <i>Imfinzi</i> IV + MEDI0680 IV recommended dose	Primary endpoints: • Safety • Determination of MTD  • Secondary endpoints include tumour response such as objective response rate, disease control rate, progression-free survival, duration of response, OS, immunogenicity, pharmacokinetics, pharmacodynamics	• FPCD: Q2 2014 • Data anticipated: 2020+



# Oleclumab (MEDI9447, CD73 mAb)

Approved medicines
Late-stage development
Early development - IMED
Early development - MedImmune

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <a href="#">NCT02503774</a>	Advanced malignancies	188	<p>Dose escalation phase</p> <ul style="list-style-type: none"> <li>• oleclumab IV</li> <li>• oleclumab IV + <i>Imfinzi</i> IV</li> </ul> <p>Dose expansion phase</p> <ul style="list-style-type: none"> <li>• oleclumab IV recommended dose + <i>Imfinzi</i> IV</li> </ul> <p>US, South Korean and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>• Safety</li> <li>• Determination of MTD</li> </ul> <p>Secondary endpoints include preliminary anti-tumour activity, pharmacokinetics, pharmacodynamics, and immunogenicity</p>	<ul style="list-style-type: none"> <li>• FPCD: Q3 2015</li> <li>• Data anticipated: 2020</li> </ul>
<b>Phase I/II</b> <a href="#">NCT03611556</a>	Pancreatic 1L and 2L with prior gemcitabine-based chemotherapy	204	<ul style="list-style-type: none"> <li>• Arm A1: Gemcitabine and nab Paclitaxel IV</li> <li>• Arm A2: Gemcitabine and nab Paclitaxel IV + oleclumab IV</li> <li>• Arm A3: Gemcitabine and nab Paclitaxel IV + oleclumab IV + durva IV</li> <li>• Arm B1: mFOLFOX (oxaliplatin, leucovorin, 5-FU) IV</li> <li>• Arm B2: mFOLFOX (oxaliplatin, leucovorin, 5-FU) IV + oleclumab IV</li> <li>• Arm B3: mFOLFOX (oxaliplatin, leucovorin, 5-FU) IV + oleclumab IV + <i>Imfinzi</i> IV</li> </ul> <p>US, Norway, Spain and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>• Safety and anti-tumour activity</li> </ul> <p>Secondary endpoints include pharmacokinetics, pharmacodynamics, immunogenicity, and safety</p>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2018</li> <li>• Data anticipated: 2020+</li> </ul>
<b>Phase I/II</b> <a href="#">NCT03381274</a>	Non-small-cell lung cancer (NSCLC)	98	<ul style="list-style-type: none"> <li>• Arm A: oleclumab IV + <i>Tagrisso</i></li> <li>• Arm B: oleclumab IV + A2AR</li> <li>• PoC for future registrational studies</li> </ul> <p>US, South Korean trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>• Safety (AEs &amp; serious adverse events (SAEs))</li> <li>• ORR</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>• DoR, DCR, PFS, OS, PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q2 2018</li> <li>• Data anticipated: 2020+</li> </ul>



# MEDI0562 (OX40 mAb)

## MEDI0562 (OX40 mAb) + *Imfinzi* (PD-L1 mAb) or tremelimumab (CTLA-4 mAb)

### Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> NCT02705482	Advanced malignancies	70	<ul style="list-style-type: none"> <li>Arm A: MEDI0562 IV + <i>Imfinzi</i> IV</li> <li>Arm B: MEDI0562 IV + tremelimumab IV</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: Safety</li> <li>Secondary endpoint: preliminary anti-tumour activity, pharmacokinetics, and immunogenicity and pharmacodynamics</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data anticipated: 2020</li> </ul>



# MEDI1873 (GITR agonist)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02583165</b>	Adult subjects with select advanced solid tumours	40	Dose-escalation phase • MEDI1873 IV  US trial centres	Primary endpoints: • Safety • Determination of MTD  • Secondary endpoints: preliminary anti-tumour activity, pharmacokinetics, pharmacodynamics, and immunogenicity	• FPCD: Q4 2015 • Data anticipated: 2020+



# MEDI2228 (BCMA antibody drug conjugate)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b>  NCT03489525	Relapsed/Refractory Multiple Myeloma	129	First-time-in-human Phase I, multi-centre, open-label, single-arm, dose-escalation, and dose-expansion trial for adult subjects	Primary endpoints: • Safety • Determination of MTD  • Secondary endpoints: pharmacokinetics, immunogenicity, ORR, DoR, PFS, OS	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>Data anticipated: 2020+</li> </ul>



# MEDI3726 (PSMA antibody drug conjugate)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I/Ib</b> <a href="#">NCT02991911</a>	Subjects with metastatic castration resistant prostate cancer	224	Open-label, Dose-escalation and Dose-expansion <ul style="list-style-type: none"> <li>Three arm trial               <ul style="list-style-type: none"> <li>Post-chemo</li> <li>Pre-chemo</li> <li>MEDI3726+Enzalutamide</li> </ul> </li> </ul>	Primary endpoint: <ul style="list-style-type: none"> <li>Safety</li> </ul> Secondary endpoints <ul style="list-style-type: none"> <li>RECIST response</li> <li>PSA50 response</li> <li>CTC response</li> <li>Pharmacokinetics, and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: 2020+</li> </ul>



# MEDI4276 (HER2 ADC)

## Cancer

Approved medicines  
Late-stage development  
Early development - IMED  
**Early development - MedImmune**

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <a href="#">NCT02576548</a>	Advanced HER2+ metastatic breast and gastric cancer	47	<ul style="list-style-type: none"> <li>First-time-in-human Phase I, multi-centre, open-label, single-arm, dose-escalation, and dose-expansion trial for adult subjects</li> </ul>	<ul style="list-style-type: none"> <li>Primary endpoint: safety</li> <li>Secondary endpoints: anti-tumour activity, overall response, disease control, PFS, OS and change from baseline tumour size</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2015</li> <li>Data anticipated: H2 2019</li> </ul>



# MEDI5083 (CD40 Ligand fusion protein ) + *Imfinzi* (PD-L1 mAb)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I  NCT03089645	Advanced solid tumours	204	<p>Dose-escalation phase</p> <ul style="list-style-type: none"> <li>Part 1: MEDI5083</li> <li>Part 2: MEDI5083 + <i>Imfinzi</i> IV</li> </ul> <p>Dose expansion phase</p> <ul style="list-style-type: none"> <li>Part 3: MEDI5083 recommended dose + <i>Imfinzi</i> IV</li> </ul> <p>US and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> <li>Safety</li> <li>Determination of MTD</li> </ul> <p>Secondary endpoints: preliminary anti-tumour activity, pharmacokinetics, pharmacodynamics, and immunogenicity</p>	<ul style="list-style-type: none"> <li>FPCD: Q1 2017</li> <li>Data anticipated: 2020+</li> </ul>



# MEDI5752 (PD-1/CTLA-4 bispecific mAb)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b>  NCT03530397	Advanced solid tumour	263	Open-label, Dose-escalation and Dose-expansion  Dose-escalation: MEDI5752 IV  Dose-expansion : 2 cohorts with 2 arms each	Primary endpoints: <ul style="list-style-type: none"><li>Dose-escalation: Safety &amp; determination of MTD</li><li>Dose-expansion: Assessment of antitumour activity based on OR</li></ul> Secondary endpoints: <ul style="list-style-type: none"><li>PK, ADA, tumoural baseline PD-L1, Assessment of antitumour activity based on OR, DoR, DC, PFS, OS,</li></ul>	<ul style="list-style-type: none"><li>FPCD: Q2 2018</li><li>Data anticipated: 2020+</li></ul>



# MEDI7247 (PBD ADC mAb)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> NCT03106428	Relapsed/Refractory Haematological Malignancies	228	First-time-in-human Phase I, multi-centre, open-label, single-arm, dose-escalation, and dose-expansion trial for adult subjects	<ul style="list-style-type: none"> <li>Primary endpoint: safety</li> <li>Secondary endpoints: Pharmacokinetics, immunogenicity and antitumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>Data anticipated: 2020+</li> </ul>



# MEDI9197 (TLR7/8 agonist)

## Cancer

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02556463</b>	Advanced solid tumour malignancies readily accessible for injection	135	Dose-escalation phase • MEDI9197 IT • MEDI9197 IT + <i>Imfinzi</i> • MEDI9197 IT + <i>Imfinzi</i> + palliative radiation  Global trial – three countries	Primary endpoints: • Safety • Determination of MTD  • Secondary endpoints include: – Objective response, disease control and duration of response – Intratumoural and systemic PK and PD profiles/relationships	• FPCD: Q4 2015 • Data anticipated: 2020



# MEDI0382 (GLP-1-glucagon agonist)

## Diabetes/obesity

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase II</b> <b>NCT02548585</b> <b>Completed</b>	Adults with type-2 diabetes	113	<ul style="list-style-type: none"> <li>MAD SC administration</li> <li>Germany</li> </ul>	<ul style="list-style-type: none"> <li>Safety profile in terms of adverse events (AE), vital signs, ECG, telemetry, lab variables, nausea, immunogenicity and physical examination</li> <li>Efficacy: MMT glucose AUC, HbA1c, fructosamine and body weight loss</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>LPCD: Q1 2017</li> <li>Data readout: Q1 2017</li> </ul>
<b>Phase II</b> <b>NCT03244800</b>	Adults with type-2 diabetes	65	<ul style="list-style-type: none"> <li>Arm1: MEDI0382 SC or placebo</li> <li>Arm2: MEDI0382 SC or placebo</li> <li>Germany</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy: MMT glucose AUC, body weight loss, HbA1c, fasting plasma glucose</li> <li>Safety profile in terms of adverse events (AE), heart rate, blood pressure, vital signs, ECG, lab variables</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2017</li> <li>LPCD: Q4 2017</li> <li>Data readout: Q1 2018</li> </ul>
<b>Phase II</b> <b>NCT03235050</b>	Overweight and Obese subjects with type-2 diabetes	834	<ul style="list-style-type: none"> <li>Arm1: MEDI0382 low dose SC + metformin</li> <li>Arm2: MEDI0382 mid dose SC + metformin</li> <li>Arm3: MEDI0382 high dose SC + metformin</li> <li>Arm4: placebo SC + metformin</li> <li>Arm5: liraglutide SC + metformin</li> </ul> <p>US, Canada, Bulgaria, Czech Rep, Germany, Mexico, Russia, Slovakia</p>	<ul style="list-style-type: none"> <li>Efficacy: HbA1c, body weight loss</li> <li>Percentage of subjects achieving weight loss of <math>\geq 5\%</math> and <math>\geq 10\%</math></li> <li>Proportion of subjects rescued or discontinued for lack of glycaemic control</li> <li>PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2017</li> <li>LPCD: Q1 2018</li> </ul>
<b>Phase I</b> <b>NCT03235375</b>	Adults with renal impairment	37	<ul style="list-style-type: none"> <li>ARM1: Subjects with CrCl &lt;20ml/min MEDI0382 SC</li> <li>ARM2: Subjects with CrCl 20-30ml/min MEDI0382 SC</li> <li>ARM3: Subjects with CrCl &gt;90ml/min MEDI0382 SC</li> </ul>	<ul style="list-style-type: none"> <li>PK, safety, tolerability and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2017</li> <li>LPCD: Q1 2018</li> </ul>



# MEDI0382 (GLP-1-glucagon agonist)

## Diabetes/obesity

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03347968	Healthy adult subjects	22	<ul style="list-style-type: none"> <li>Open label, one sequence, cross-over MEDI0382 with warfarin and esmolol US</li> </ul>	<ul style="list-style-type: none"> <li>Effect of MEDI0382 on PK &amp; PD of warfarin &amp; esmolol</li> <li>Safety profile</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>LPCD: Q1 2018</li> </ul>
Phase I NCT03341013	Healthy adult subjects	24	<ul style="list-style-type: none"> <li>Open label, cross-over, two period</li> <li>Single dose MEDI0382 formulation 2 SC</li> <li>Single dose MEDI0382 formulation 3 SC US</li> </ul>	<ul style="list-style-type: none"> <li>PK</li> <li>Safety profile</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>LPCD: Q4 2017</li> <li>Data readout: Q2 2018</li> </ul>
Phase I NCT03385369	Overweight/obese subjects of Japanese or Chinese descent	32	<ul style="list-style-type: none"> <li>Arm1: Single low dose of MEDI0382 or placebo (Japanese)</li> <li>Arm2: Single intermediate-low dose of MEDI0382 or placebo (Japanese)</li> <li>Arm3: Single intermediate-high dose of MEDI0382 or placebo (Japanese)</li> <li>Arm4: Single high dose of MEDI0382 or placebo (Japanese)</li> <li>Arm5: Single intermediate-low dose of MEDI0382 or placebo US</li> </ul>	<ul style="list-style-type: none"> <li>Safety profile</li> <li>Tolerability</li> <li>PK</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2018</li> <li>LPCD: Q2 2018</li> </ul>
Phase II NCT03444584	Overweight/obese subjects with type-2 diabetes	46	<ul style="list-style-type: none"> <li>Arm1: MEDI0382 + dapagliflozin</li> <li>Arm2: placebo + Dapagliflozin</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy: MMT glucose AUC</li> <li>Safety</li> <li>PK</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2018</li> </ul>
Phase II NCT03550378	Adults with type-2 diabetes and renal impairment	40	<ul style="list-style-type: none"> <li>MEDI0382 or placebo SC</li> </ul> <p>Germany, UK</p>	<ul style="list-style-type: none"> <li>Efficacy: MMT glucose AUC</li> <li>Safety</li> <li>Tolerability</li> <li>PK</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD Q2 2018</li> <li>LPCD: Q4 2018</li> <li>Data anticipated: H1 2019</li> </ul>
Phase II NCT03555994	Adults with type-2 diabetes	40	<ul style="list-style-type: none"> <li>Part A: MEDI0382 or placebo SC</li> <li>Part B: MEDI0382 SC or placebo SC or liraglutide SC</li> </ul>	<ul style="list-style-type: none"> <li>Change in hepatic glycogen concentration postprandially, adjusted by liver volume</li> <li>Safety</li> <li>Tolerability</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2018</li> <li>Part A LPCD: Q4 2018</li> </ul>



# MEDI7219 (anti-diabetic)

## Diabetes

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03362593</b>	Healthy Volunteers	104	<ul style="list-style-type: none"> <li>• 4 part trial</li> <li>• Part A : SAD</li> <li>• Part B &amp; C : open label, single dose studies</li> <li>• Part D : MAD</li> </ul>	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Pharmacokinetics</li> </ul>	<ul style="list-style-type: none"> <li>• FPCD: Q1 2018</li> <li>• Data anticipated: H1 2019</li> </ul>



# Biologics

## Cardiovascular & metabolic diseases

Approved medicines
Late-stage development
Early development - IMED
Early development - MedImmune

Oncology

CVRM

Respiratory

Other

Trial	Compound	Population	Patients	Design	Endpoints	Status
<b>Phase IIb</b> <b>EudraCT 2017-004521-32</b>	MEDI6012 rhLCAT	Subjects 30-80 years of age inclusive, presenting with acute STEMI	414	<ul style="list-style-type: none"> <li>Cohort A: 2-Dose Regimen 300 mg of MEDI6012 or placebo on Day 1 (loading dose) prior to pPCI followed by a second inpatient dose of 150 mg or placebo on Day 3 by i IV push.</li> <li>Cohort B: 6-Dose Regimen 300 mg of MEDI6012 or placebo on Day 1 prior to pPCI followed by a second inpatient dose of 150 mg or placebo on Day 3 and outpatient maintenance doses of 100 mg or placebo on Days 10, 17, 24, and 31 by IV push.</li> </ul>	<p>Primary endpoints: Infarct size as a percentage of left ventricle (LV) mass at 10-12 weeks post-MI (myocardial infarction) compared to placebo.</p> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>Ejection Fraction at 10-12 weeks post-MI compared to placebo.</li> <li>Change in NCPV in the coronary arteries from at10-12 weeks post-MI compared with placebo.</li> <li>Myocardial mass and LV volumes at end-systole and end-diastole.</li> <li>Incidence of treatment-emergent adverse events (TEAEs) and treatment-emergent serious adverse events (SAEs).</li> <li>Lecithin-cholesterol acyltransferase (LCAT) mass and ADAs.</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 18</li> <li>Data anticipated: 2020+</li> </ul>
<b>Phase Iia</b> <b>NCT03351738</b>	MEDI5884 Cholesterol modulation	Adults With Stable Coronary Heart Disease (CHD)	133	<ul style="list-style-type: none"> <li>MEDI5884 (5 dose cohorts) vs. placebo in stable CHD patients</li> </ul>	<ul style="list-style-type: none"> <li>Safety profile in terms of adverse events (AE), vital signs, ECG, lab variables</li> <li>Changes in HDL-C over time</li> <li>PK, immunogenicity, and Apolipoprotein B</li> </ul>	<ul style="list-style-type: none"> <li>FPCD Q4 2017</li> <li>Data anticipated: Q4 2018</li> </ul>



# MEDI3506 (IL-33 mAb)

## Chronic obstructive pulmonary disease (COPD)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I (Combined SAD / MAD)</b>  <b>NCT03096795</b>	SAD: Healthy subjects with mild atopy  MAD: COPD	SAD: 56  MAD: 24	SAD: <ul style="list-style-type: none"> <li>7 sequential placebo-controlled single dose cohorts (active N=6 / placebo N = 2 within each cohort)</li> <li>Dose levels: 1mg SC, 3 mg SC, 10 mg SC, 30 mg SC, 100 mg SC, 300 mg SC and 300 mg IV</li> </ul> MAD: <ul style="list-style-type: none"> <li>3 sequential placebo-controlled multiple dosing cohorts (active N=6 / placebo N = 2 within each cohort)</li> <li>Dose levels: 30 mg SC, 100 mg SC and 300 mg SC</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2017</li> <li>LPCD: Q2 2019</li> <li>Data anticipated: H2 2019</li> </ul>



# MEDI0700 - AMG 570 (Anti-B7RP-1 mAb/BAFF)

## Systemic lupus erythematosus (SLE)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase Ia</b> <b>NCT02618967</b> <b>Partnered</b>	Healthy volunteers	48	Single Ascending Dose • Arm 1: MEDI0700 administered as single SC dose • Arm 2: Dose levels of Placebo administered as single SC dose	• Safety and tolerability • PK/PD	• FPCD: Q1 2016 • Data anticipated: Q4 2018



# MEDI1341 (alpha-synuclein mAb)

## Parkinson's Disease

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT03272165</b>	Healthy volunteers	40	<ul style="list-style-type: none"> <li>SAD</li> <li>Up to 5 IV cohorts are planned vs placebo</li> </ul> US only	<ul style="list-style-type: none"> <li>Safety, tolerability, PK, PD</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2017</li> <li>Data anticipated: H1 2019</li> </ul>



# MEDI1814 (amyloid beta mAb)

## Alzheimer's disease

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02036645</b>	Alzheimer's disease & healthy elderly	121	<ul style="list-style-type: none"> <li>SAD &amp; MAD</li> <li>Up to 10 IV cohorts are planned vs. placebo</li> <li>2 SC cohorts are planned vs. placebo</li> </ul> US only	<ul style="list-style-type: none"> <li>Safety, tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2014</li> <li>LPCD: Q2 2016</li> <li>Data readout: Q4 2016</li> </ul>



# Prezalumab (MEDI5872, B7RP-1 mAb)

## Systemic lupus erythematosus (SLE)

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase IIa</b> <b>NCT02334306</b> <b>Partnered</b>	Primary Sjögren's syndrome	42	<ul style="list-style-type: none"> <li>Arm 1: MEDI5872 210mg SC QW for 3 weeks and then Q2W for 9 weeks</li> <li>Arm 2: placebo SC QW for 3 weeks and then Q2W for 9 weeks</li> </ul> Global trial – five countries	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Change in the ESSDAI (EULAR Sjögren's syndrome (SS) disease activity index) score from baseline to Day 99</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q3 2015</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase I</b> <b>NCT01683695</b> <b>Partnered Completed</b>	SLE and lupus related inflammatory arthritis	20	Dose escalation trial: <ul style="list-style-type: none"> <li>Arm 1: MEDI5872 SC</li> <li>Arm 2: placebo SC</li> </ul> Global trial – eight countries	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Lupus Arthritis Response Rate</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2012</li> <li>LPCD: Q4 2015</li> <li>Data readout: Q2 2016</li> </ul>



# MEDI7352 (NGF TNF bispecific mAb)

## Osteoarthritis pain

Trial	Population	Patients	Design	Endpoints	Status
<b>Phase I</b> <b>NCT02508155</b>	Painful osteoarthritis of the knee	160	<ul style="list-style-type: none"> <li>SAD &amp; MAD</li> <li>Up to 10 IV cohorts are planned vs. placebo</li> <li>2 SC cohorts are planned vs. placebo</li> </ul> <p>Europe only</p>	<ul style="list-style-type: none"> <li>Safety, tolerability, PK, PD</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q1 2016</li> <li>Data anticipated: H1 2019</li> </ul>



# Other biologics

## Infections

Trial	Compound	Population	Patients	Design	Endpoints	Status
<b>Phase II</b> <b>EudraCT 2014-001097-34</b>	Anti-Staph AT (suvatoxumab, MEDI4893)	Intubated Intensive Care Unit (ICU)	213	<ul style="list-style-type: none"> <li>Placebo-controlled, single-dose, dose-ranging</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy and safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2014</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase IIb</b> <b>NCT02878330</b>	Anti-Respiratory Syncytial Virus mAb-YTE (MEDI8897)	29-35 WK GA (Gestational age) infants	1,453	<ul style="list-style-type: none"> <li>Randomised, double-blind, placebo-controlled trial</li> <li>Route of administration: IM</li> </ul>	<ul style="list-style-type: none"> <li>Safety and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q4 2016</li> <li>Data anticipated: Q4 2018</li> </ul>
<b>Phase II</b> <b>NCT02696902</b>	Anti-Pseudomonas A mAb (MEDI3902)	Intubated ICU	286	<ul style="list-style-type: none"> <li>Placebo-controlled, single-dose, dose-ranging</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy and safety</li> </ul>	<ul style="list-style-type: none"> <li>FPCD: Q2 2016</li> <li>Data anticipated: 2020+</li> </ul>



# Clinical Trials Appendix

## Q3 2018 results update

