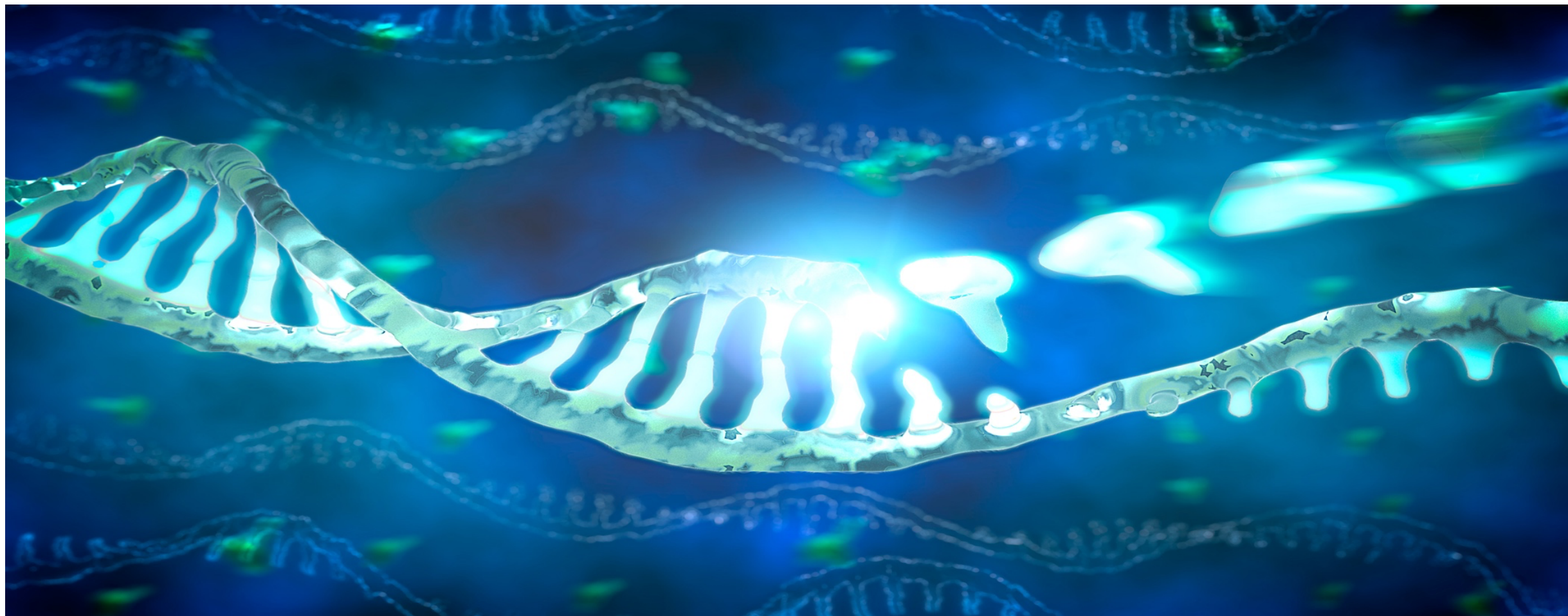


Clinical trials appendix

FY 2019 results update



Movement since Q3 2019 update

New to Phase I	New to Phase II	New to Pivotal Study	New to Registration
<p>NME AZD0466 BCL2/xL haematological and solid tumours</p> <p>AZD2693 NASH resolution nonalcoholic steatohepatitis</p> <p>AZD4041# orexin 1 receptor antagonist opioid use disorder</p> <p>MEDI0618 PAR2 antagonist mAb osteoarthritis pain</p> <p>MEDI5395 rNDV GMCSF solid tumours</p>	<p>NME AZD9833 selective oestrogen receptor degrader oestrogen receptor +ve breast cancer</p> <p>cotadutide GLP-1 / glucagon dual agonist nonalcoholic steatohepatitis</p> <p>MEDI3506 IL33 mAb diabetic kidney disease</p> <p>MEDI5752 PD-1/CTLA-4 bispecific mAb solid tumours</p> <p>Additional indication MEDI3506 IL33 mAb atopic dermatitis</p>	<p>Lifecycle Management Fasenra MANDARA IL5R mAb eosinophilic granulomatosis with polyangiitis</p>	<p>NME selumetinib#1 SPRINT 1 MEK inhibitor paediatric neurofibromatosis type-1</p> <p>Additional indication Imfinzi# +/- tremelimumab + SoC CASPIAN 1 PD-L1 mAb +/- CTLA-4 mAb + SoC 1st-line ES-SCLC</p> <p>Lifecycle Management Farxiga³ DAPA-HF 1 SGLT2 inhibitor worsening HF or CV death in patients with chronic HF (HFrEF)</p> <p>Lynparza# PROFOUND 1 PARP inhibitor prostate cancer</p> <p>Symbicort SYGMA 1 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>NME MEDI7247 ASCT2 antibody drug conjugate haematological malignancies and solid tumours</p> <p>oleclumab+AZD4635# CD73 mAb + A2aR inhibitor EGFRm NSCLC</p>		<p>NME Epanova STRENGTH omega 3 carboxylic acids CV outcomes trial in statin treated patients at high CV risk, with persistent hypertriglyceridaemia plus low HDL cholesterol</p>	<p>NME Enhertu (trastuzumab deruxtecan)#1 DESTINY-Breast01 2 HER2 targeting antibody drug conjugate HER2-Positive, Unresectable and/or Metastatic Breast Cancer Subjects Previously Treated With T-DM1</p> <p>Lifecycle Management Calquence# ASCEND 2 BTK inhibitor relapsed/refractory chronic lymphocytic leukaemia</p> <p>Calquence# ELEVATE-TN 2 BTK inhibitor 1st-line chronic lymphocytic leukaemia</p> <p>Lynparza# POLO 2 PARP inhibitor pancreatic cancer</p>




Q4 2019 New Molecular Entity (NME)¹ pipeline

Phase I 18 New Molecular Entities		Phase II 27 New Molecular Entities		Phase III 12 New Molecular Entities		Under Review 2 New Molecular Entities	
AZD0466 BCL2/xL haematological and solid tumours	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 solid tumours	adavosertib# Wee1 ovarian cancer, solid tumours	<i>Imfinzi</i> #+monalizumab# PD-L1+NKG2a solid tumours	capivasertib+chemotherapy CAPItello-290 AKT+chemotherapy mTNBC 1L	<i>Imfinzi</i> #+/-tremelimumab+SoC CASPIAN PD-L1+/-CTLA-4+SoC 1L ES-SCLC		
AZD1390 glioblastoma	<i>Imfinzi</i> #+tremelimumab+chemo PD-L1+CTLA-4 1L PDAC oesophageal SCLC	AZD2811 Aurora solid tumours, haematological malignancies	<i>Imfinzi</i> #+oleclumab PD-L1+CD73 solid tumours	<i>Enhertu</i> # DESTINY-Breast 02 ADC breast	selumetinib#¶ SPRINT MEK paediatric neurofibromatosis type-1		
AZD4573 CDK9 haematological malignancies	<i>Imfinzi</i> +selumetinib# PD-L1+MEK solid tumours	AZD4635 A2aR inhibitor prostate cancer	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 gastric cancer	<i>Enhertu</i> # DESTINY-Breast 03 ADC breast			
AZD5153 BRD4 solid tumours, haematological malignancies	MEDI1191 IL-12 mRNA solid tumours	AZD9833 SERD ER+ breast	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 biliary tract oesophageal	<i>Enhertu</i> # DESTINY-Breast 04 ADC breast			
AZD5991 MCL1 haematological malignancies	MEDI2228 BCMA ADC multiple myeloma	capivasertib# AKT breast	<i>Imfinzi</i> +Lynparza# BAYOU PD-L1+PARP bladder	<i>Enhertu</i> # DESTINY-Gastric01 ADC gastric			
AZD9496 SERD ER+ breast	MEDI5083 CD40 ligand fusion protein solid tumours	capivasertib# AKT prostate	Lynparza#+adavosertib# PARP+Wee1 solid tumours	<i>Imfinzi</i> #+/-tremelimumab+chemo POSEIDON PD-L1+/-CTLA-4+SoC 1L NSCLC			
<i>Calquence</i> +ceralasertib (AZD6738) BTK+ATR haematological tumours	MEDI5395 rNDV GMCSF solid tumours	<i>Enhertu</i> # ADC colorectal cancer	Lynparza#+AZD6738 VIOLETTE PARP+ATR breast	<i>Imfinzi</i> #+/-tremelimumab+CRT ADRIATIC PD-L1+/-CTLA-4+CRT LS-SCLC			
<i>Calquence</i> +danvatirsen BTK+STAT3 haematological malignancies	oleclumab+Tagrisso CD73+EGFR EGFRm NSCLC	<i>Enhertu</i> # ADC NSCLC	Lynparza#+ <i>Imfinzi</i> MEDIOLA PARP+PD-L1 ovarian breast gastric SCLC	<i>Imfinzi</i> #+tremelimumab DANUBE PD-L1+CTLA-4 1L bladder			
<i>Imfinzi</i> #+adavosertib# PD-L1+Wee1 solid tumours		<i>Imfinzi</i> # (platform) COAST PD-L1+multiple novel onc therapies NSCLC	MEDI5752 PD-1/CTLA-4 solid tumours	<i>Imfinzi</i> #+tremelimumab HIMALAYA PD-L1+CTLA-4 1L HCC			
<i>Imfinzi</i> #+RT (platform) CLOVER PD-L1+RT HNSCC NSCLC SCLC		<i>Imfinzi</i> # (platform) NeoCOAST PD-L1+multiple novel onc therapies NSCLC	oleclumab+AZD4635 CD73+A2aR prostate cancer	<i>Imfinzi</i> #+tremelimumab KESTREL PD-L1+CTLA-4 1L HNSCC			
		<i>Imfinzi</i> #+AZD4635 PD-L1+A2aR prostate cancer	oleclumab+chemo or <i>Imfinzi</i> #+ oleclumab+chemo CD73+chemo or PD-L1+CD73+chemo pancreatic	<i>Imfinzi</i> #+tremelimumab+SoC NILE PD-L1+CTLA-4+SoC 1L urothelial cancer			
		<i>Imfinzi</i> #+AZD5069 or <i>Imfinzi</i> # + danvatirsen# PD-L1+(CXCR2 or STAT3) HNSCC bladder NSCLC	Tagrisso combo# TATTON EGFR+PD-L1/MEK/MET NSCLC	Lynparza#+ <i>Imfinzi</i> #+bevacizumab DUO-O PARP+PD-L1+VEGF 1L ovarian			
		<i>Imfinzi</i> #+Lynparza# ORION PD-L1+PARP 1L mNSCLC	Tagrisso+savolitinib# SAVANNAH EGFR+MET advanced EGFRm NSCLC				
		<i>Imfinzi</i> #+MEDI0457# PD-L1+DNA HPV vaccine HNSCC					

¹ includes novel combinations and additional indications for assets where the lead is not yet launched

Partnered and/or in collaboration; ¶ Registrational Phase II/III study

 Oncology

 Precision medicine approach under investigation



Q4 2019 New Molecular Entity (NME)¹ pipeline

Phase I

16 New Molecular Entities

AZD0284 RORg psoriasis / respiratory	AZD8233 hypercholesterolemia cardiovascular
AZD4041# orexin 1 receptor antagonist opioid use disorder	AZD9977 MCR cardiovascular
AZD0449 Inhaled JAK inhibitor asthma	MEDI0618 PAR2 antagonist mAb osteoarthritis pain
AZD1402# inhaled IL4Ra asthma	MEDI1341# alpha synuclein parkinson's disease
AZD2693 nonalcoholic steatohepatitis	MEDI1814# amyloid β alzheimer's disease
AZD5634 inhaled ENaC cystic fibrosis	MEDI5117# China IL6 YTE rheumatoid arthritis
AZD6615 hypercholesterolemia CV disease	MEDI6570 LOX-1 CV disease
AZD8154 Inhaled PI3Kgd asthma	MEDI7219 anti-diabetic type-2 diabetes

Phase II

22 New Molecular Entities

abediterol# LABA asthma / COPD	MEDI3506 Diabetic kidney disease
anifrolumab# Type I IFN receptor SLE SC	MEDI3506 IL33 AD / COPD
anifrolumab# Type I IFN receptor lupus nephritis	MEDI3902 Psl/PcrV Pseudomonas pneumonia
AZD4831 MPO HFpEF	MEDI5884# cholesterol modulation cardiovascular
AZD5718 FLAP coronary artery disease	MEDI6012 LCAT cardiovascular
AZD7594 Inhaled SGRM asthma / COPD	MEDI7352 NGF/TNF OA pain / painful diabetic neuropathy
AZD7986# DPP1 COPD	roxadustat# HIF-PH inhibitor chemo induced anaemia
AZD8601# VEGF-A cardiovascular	suvratoxumab α -Toxin Staphylococcus pneumonia
AZD8871# MABA COPD	tezepelumab# TSLP atopic dermatitis
AZD9567 SGRM RA / respiratory	tezepelumab# TSLP COPD
cotadutide GLP-1/glucagon type-2 diabetes / obesity / NASH	verinurad URAT-1 chronic kidney disease

Phase III

5 New Molecular Entities

anifrolumab# TULIP Type I IFN receptor SLE
nirsevimab (MEDI8897)# RSV mAb-YTE passive RSV immunisation
PT027 ICS/SABA asthma
roxadustat# HIFPH anaemia MDS
tezepelumab# NAVIGATOR SOURCE TSLP severe uncontrolled asthma

Under Review

0 New Molecular Entities



Q4 2019 Lifecycle Management (LCM)¹ pipeline

Phase I 1 Project	Phase II 6 Projects	Phase III 20 Projects	Under Review 1 Project
<i>Imfinzi</i> #+azacitidine# PD-L1+azacitidine MDS	<i>Imfinzi</i> # PD-L1 solid tumours	<i>Calquence</i> # BTK inhibitor 1st line MCL	<i>Imfinzi</i> #+CTx NIAGARA PD-L1+CTx muscle invasive bladder cancer
	<i>Imfinzi</i> # (platform) BEGONIA PD-L1 1L mTNBC	<i>Calquence</i> # BTK inhibitor r/r CLL, high risk	<i>Imfinzi</i> #+CTx TOPAZ-1 PD-L1+CTx 1L biliary tract cancer
	<i>Imfinzi</i> # (platform) MAGELLAN PD-L1 1L mNSCLC	<i>Calquence</i> # + venetoclax + obinutuzumab BTK+BCL-2+anti-CD20 1st line CLL	<i>Imfinzi</i> #+VEGF EMERALD-2 PD-L1+VEGF adjuvant HCC
	<i>Imfinzi</i> +FOLFOX+bevacizumab (platform) COLUMBIA1 PD-L1+chemo+VEGF+multiple novel ONC therapies 1L MSS-CRC	<i>Imfinzi</i> # CALLA PD-L1 adj. locally advanced cervical cancer	<i>Imfinzi</i> #+VEGF+TACE EMERALD-1 PD-L1+VEGF+TACE locoregional HCC
	<i>Lynparza</i> # (basket) MK-7339-002 / LYNK002 PARP HRRm cancer	<i>Imfinzi</i> # PEARL PD-L1 1L metastatic NSCLC	<i>Lynparza</i> # OlympiA PARP gBRCA adjuvant breast
	<i>Lynparza</i> #+cediranib CONCERTO PARP+VEGF recurrent Pt-R ovarian	<i>Imfinzi</i> # post-SBRT PACIFIC-4 PD-L1 post-SBRT stage III NSCLC	<i>Lynparza</i> # SOLO-3 PARP BRCAm PSR ovarian
		<i>Imfinzi</i> # POTOMAC PD-L1 non muscle invasive bladder cancer	<i>Lynparza</i> +abiraterone# PROpel PARP+NHA prostate cancer
		<i>Imfinzi</i> #+CRT PACIFIC-2 PD-L1+CRT NSCLC	<i>Tagrisso</i> ADAURA EGFR adj. EGFRm NSCLC
		<i>Imfinzi</i> #+CRT PACIFIC-5 (China) PD-L1+CRT locally-advanced stage III NSCLC	<i>Tagrisso</i> LAURA EGFRm locally advanced unresectable NSCLC
		<i>Imfinzi</i> #+CTx neoadjuvant AEGEAN PD-L1+CTx locally-advanced stage I-III NSCLC	<i>Tagrisso</i> +chemo FLAURA2 EGFR+chemo 1L adv EGFRm NSCLC
			<i>Lynparza</i> # PROfound PARP prostate cancer



Q4 2019 Lifecycle Management (LCM)¹ pipeline

Phase I 0 Projects	Phase II 1 Project	Phase III 9 Projects	Under Review 4 Projects
	<i>Breztri</i> LABA/LAMA/ICS asthma	<i>Brilinta/Brilique</i> HESTIA P2Y12 paedS w/ sickle cell	<i>Brilinta/Brilique</i> THEMIS P2Y12 diabetes & CAD outcomes
		<i>Brilinta/Brilique</i> THALES P2Y12 stroke	<i>Farxiga/Forxiga</i> DAPA-HF SGLT2 HFpEF
		<i>Farxiga/Forxiga</i> Dapa-CKD SGLT2 CKD	<i>Nexium</i> (CN only) stress ulcer prophylaxis
		<i>Farxiga/Forxiga</i> DELIVER SGLT2 HFpEF	<i>Symbicort</i> SYGMA as needed in mild asthma
		<i>Farxiga/Forxiga</i> DETERMINE- Preserved	
		<i>Farxiga/Forxiga</i> DETERMINE- Reduced	
		<i>Fasenra</i> MANDARA IL5R EGPA	
		<i>Fasenra</i> # OSTRO, ORCHID IL5R nasal polyposis	
		<i>Fasenra</i> # RESOLUTE IL5R COPD	



Estimated key regulatory submission acceptances

NME

LCM

	<i>Enhertu</i> gastric cancer (Japan)		PT027 asthma		
	<i>Imfinzi</i> + tremelimumab bladder DANUBE		tezepelumab asthma NAVIGATOR		
	<i>Imfinzi</i> + tremelimumab HNSCC KESTREL	anifrolumab SLE TULIP	<i>Enhertu</i> DESTINY-Breast02	<i>Fasenra</i> severe asthma (China)	
	selumetinib NF1 SPRINT (EU)	<i>Enhertu</i> DESTINY-Breast01 (EU)	<i>Imfinzi</i> + tremelimumab HCC HIMALAYA	capivasertib + CTx 1L mTNBC CAPItello-290	<i>Imfinzi</i> + tremelimumab + CRT LDS-SCLC ADRIATIC
	H1 2020	<i>Imfinzi</i> +/- tremelimumab SCLC CASPIAN (China)	<i>Imfinzi</i> +/- tremelimumab NSCLC POSEIDON	<i>Enhertu</i> DESTINY-Breast03	<i>Imfinzi</i> + tremelimumab+ SoC urothelial NILE
	<i>Brilinta</i> stroke THALES	H2 2020	<i>Lynparza</i> + cediranib ovarian GY004	<i>Enhertu</i> DESTINY-Breast04	<i>Lynparza</i> + <i>Imfinzi</i> + bevacizumab ovarian DUO-O
	<i>Symbicort</i> mild astha (EU) SYGMA	<i>Lynparza</i> ovarian SOLO-3	2021	2021+	
			<i>Brilinta</i> paed w/ sickle cell HESTIA	<i>Calquence</i> 1L MCL ECHO	<i>Tagrisso</i> EGFRm NSCLC ADAURA
			<i>Fasenra</i> nasal polyposis OSTRO	<i>Calquence</i> r/r CLL, high risk ELEVATE-RR	<i>Tagrisso</i> locally adv. unresectable NSCLC LAURA
			<i>Farxiga</i> CKD DAPA-CKD	<i>Calquence</i> +venetoclax+obinutuzumab 1L CLL	<i>Tagrisso</i> + CTx EGFRm NSCLC FLAURA2
			<i>Farxiga</i> HFref / HFpEF DETERMINE	<i>Imfinzi</i> cervical CALLA	<i>Bydureon Bcise</i> type-2 diabetes (China)
			<i>Imfinzi</i> adjuvant NSCLC BR.31	<i>Imfinzi</i> + CTx biliary tract TOPAZ-1	<i>Duaklir</i> Genuair COPD (China)
			<i>Imfinzi</i> neoadjuvant NSCLC AEGEAN	<i>Imfinzi</i> non muscle invasive bladder POTOMAC	<i>Farxiga</i> HFpEF DELIVER
			<i>Imfinzi</i> NSCLC PEARL	<i>Imfinzi</i> + chemo muscle invasive bladder NIAGARA	<i>Fasenra</i> COPD RESOLUTE
			<i>Imfinzi</i> + CRT NSCLC PACIFIC-2	<i>Imfinzi</i> post-SBRT NSCLC PACIFIC-4	nirsevimab passive RSV immunisation
			<i>Imfinzi</i> + VEGF + TACE locoregional HCC EMERALD-1	<i>Imfinzi</i> + CRT NSCLC PACIFIC-5 (China)	roxadustat anemia in MDS
			<i>Lynparza</i> breast OLYMPIA	<i>Imfinzi</i> + VEGF adjuvant HCC EMERALD-2	<i>Fasenra</i> nasal polyposis ORCHID (China / Japan)
			<i>Lynparza</i> + abiraterone prostate PROPEL		<i>Fasenra</i> EGPA MANDARA



Designations

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Accelerated approvals

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

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Breakthrough / PRIME¹ / Sakigake²

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)
nirsevimb (MED18897) RSV mAB (US)
nirsevimb (MED18897) RSV mAB (EU) ¹
selumetinib NFI type 1 SPRINT (US)
Enhertu DESINTY-BREAST01 (US)
Calquence CLL (US)
Enhertu gastric cancer (JP) ²

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Fast Track

MEDI3902 PsI-PcrV pneumo Px (US)
savratomab Staph HAP (US)
Imfinzi NSCLC (US)
nirsevimb (MED18897) RSV mAB (US)
Imfinzi HNSCC HAWK (US)
anifrolumab SLE (US)
Lynparza ovarian cancer SOLO-2 (US)
Tagrisso EGFRm T790M NSCLC (CN)
Farxiga HFrEF (US)
Farxiga chronic kidney disease (US)
cotadutide non-alcoholic steatohepatitis (US)

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Priority Review / RTOR³

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 PLAIT (US)
Lynparza ovarian SOLO-1 (US)
Lynparza ovarian SOLO-1 (CN)
Breztri Aerosphere (PT010) COPD (CN)
Tagrisso NSCLC 1L FLAURA (CN)
Breztri Aerosphere (PT010) (CN)
Lokelma hyperkalaemia (CN)
Lynparza pancreatic 1L (US)
Enhertu DESINTY-BREAST01 (US)
Farxiga HF (DAPA-HF) (US)
Imfinzi +/-treme+SOC SCLC 1L (CASPIAN) (US)
Lynparza prostate (PROfound) (US)
Lynparza +Avastin ovarian 1L (PAOLA-1) (US)
selumetinib NFI type 1 SPRINT (US)
Calquence CLL (ELEVANTE-TN, ASCEND) ³

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Orphan Drug

Lynparza ovarian cancer SOLO-2 (US)
Lumoxiti HCL PLAIT (US)
Lumoxiti HCL PLAIT (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 NFI type 1 SPRINT (US)
selumetinib NFI type 1 SPRINT (EU)
Lynparza pancreatic cancer POLO (US)
Fasenra EGPA (US)
Fasenra HES (US)
saracatinib IPF (US)
Imfinzi +/-treme+SOC SCLC 1L CASPIAN (US)
Fasenra EoE (US)
Imfinzi +treme HCC 1L (HIMALAYA)

FAST TRACK is a process designed to facilitate the development, and expedite the review of medicines to treat serious conditions and fill an unmet medical need. ³REAL-TIME ONCOLOGY REVIEW (RTOR) and Project Orbis is an initiative of the FDA Oncology Centre of Excellence (OCE) providing a framework for concurrent submission and review of oncology products among international partners.

BREAKTHROUGH DESIGNATION is a process designed to expedite the development and review of medicines which may demonstrate substantial improvement over available therapy. ¹PRIME is a scheme launched by the EMA to enhance support for the development of medicines that target an unmet medical need. ²SAKIGAKE is aimed at early introduction of innovative medicines, medical devices, etc. that are initially developed in Japan

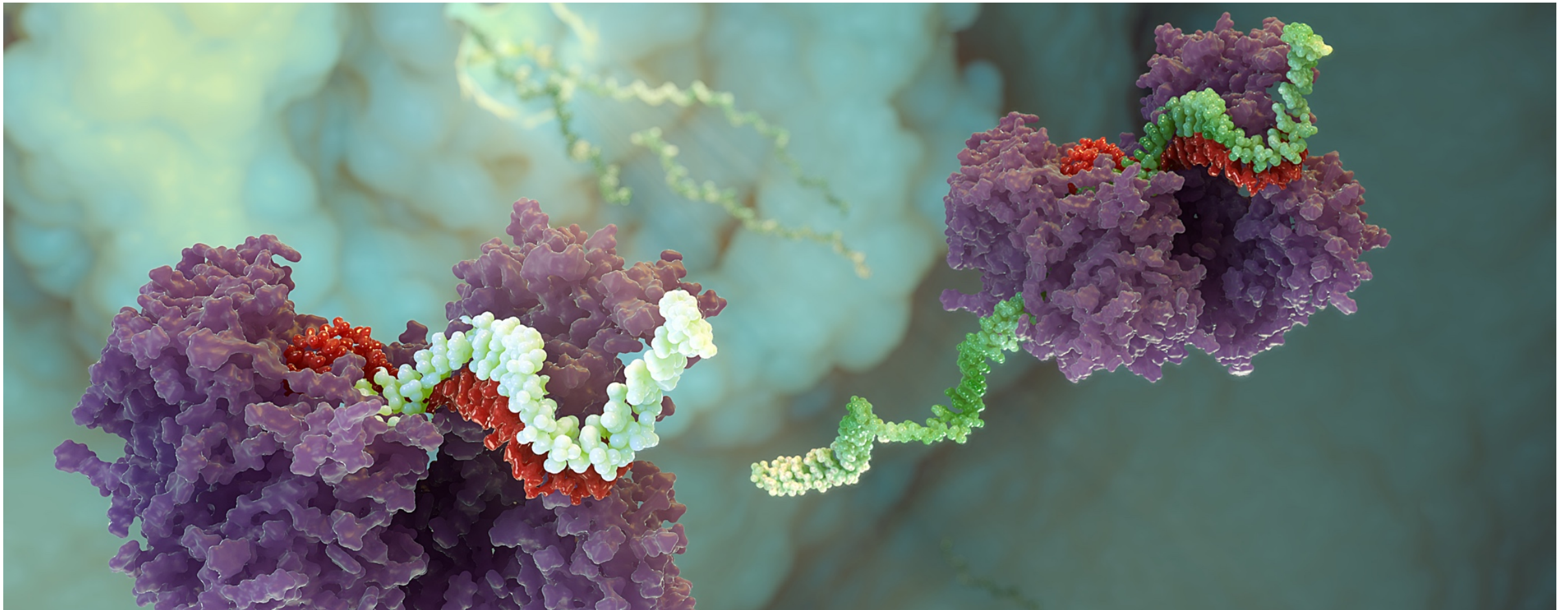
ACCELERATED APPROVAL, these regulations allowed medicines for serious conditions that addressed an unmet medical need to be approved based on a surrogate endpoint.

PRIORITY REVIEW DESIGNATION is the US FDA's goal 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 patients in the US, or that affect more than 200,000 patients but are not expected to recover the costs of developing and marketing a treatment drug.



Oncology - approved medicines and late-stage pipeline



Tagrisso (highly-selective, irreversible EGFRi)

NSCLC

Trial	Population	Patients	Design	Endpoints	Status
Phase III ADAURA NCT02511106	Adjuvant EGFRm NSCLC	682	<ul style="list-style-type: none"> Arm 1: <i>Tagrisso</i> QD following complete tumour resection, with or without chemo Arm 2: placebo Global trial - 25 countries	<ul style="list-style-type: none"> Primary endpoint: DFS Secondary endpoints: DFS Rate, OS, OS Rate, QoL 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q1 2019 Data anticipated: 2022
Phase III LAURA NCT03521154	Maintenance therapy in patients with locally advanced, unresectable EGFRm Stage III NSCLC whose disease has not progressed following platinum-based chemoradiation therapy	200	<ul style="list-style-type: none"> Arm 1: <i>Tagrisso</i> Arm 2: placebo Global trial - 11 countries	<ul style="list-style-type: none"> Primary endpoint: PFS (BICR) Secondary endpoints: CNS PFS, OS, DoR, ORR, DCR 	<ul style="list-style-type: none"> FPCD: Q3 2018 Data anticipated: 2021+
Phase III ASTRIS NCT02474355	Real world setting in adult patients with advanced or metastatic, EGFRm T790M+ NSCLC	3,020	Single-arm trial - <i>Tagrisso</i> Global trial - 16 countries	<ul style="list-style-type: none"> Primary endpoints: OS and safety Secondary endpoint: PFS 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q4 2017
Phase II ELIOS NCT03239340	EGFR TKI treatment-naïve patients with locally-advanced or metastatic EGFRm NSCLC	150	Single arm trial – <i>Tagrisso</i> Global trial - five countries	<ul style="list-style-type: none"> Primary Endpoint: proportion of patients with a given tumour genetic and proteomic marker at the point of disease progression as defined by the investigator Secondary endpoint: PFS, ORR, DoR 	<ul style="list-style-type: none"> FPCD: Q2 2018
Phase I ODIN-BM NCT03463525	Patients with EGFRm NSCLC with brain metastases	8	Single-arm trial – <i>Tagrisso</i>	<ul style="list-style-type: none"> Primary Endpoints: assessments of brain standard uptake value (SUV) and pharmacokinetics (PK) Secondary endpoints: PK 	<ul style="list-style-type: none"> FPCD: Q4 2018



Tagrisso (highly-selective, irreversible EGFRi)

NSCLC, combinations

Trial	Population	Patients	Design	Endpoints	Status
Phase III FLAURA2 NCT04035486	1st-line EGFRm NSCLC	586	Arm 1: <i>Tagrisso</i> plus Pemetrexed/Carboplatin or Pemetrexed/Cisplatin Arm 2: <i>Tagrisso</i> Global trial – 5+ countries	<ul style="list-style-type: none"> Primary endpoint: PFS Secondary endpoints: OS, LOS, ORR, DoR, Depth of response, PFS2, QoL, PK 	<ul style="list-style-type: none"> FPCD: Q4 2019 Data anticipated: 2021+
Phase II ORCHARD NCT03944772	Advanced EGFRm NSCLC patients who have progressed on first line <i>Tagrisso</i> treatment	150	Modular design platform study: <ul style="list-style-type: none"> Module 1: <i>Tagrisso</i> + savolitinib Module 2: <i>Tagrisso</i> + gefitinib Module 3: <i>Tagrisso</i> + necitumumab Module 4: carboplatin + pemetrexed + <i>Imfinzi</i> No intervention: observational cohort – no study drug Global trial - 8 countries	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoints: PFS, DoR, OS, safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q3 2019 Data anticipated: 2021+
Phase II SAVANNAH NCT03778229	EGFRm / MET+, locally advanced or metastatic NSCLC who have progressed following treatment with <i>Tagrisso</i>	172	<ul style="list-style-type: none"> Single arm trial: <i>Tagrisso</i> + savolitinib Global trial	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoints include PFS, DoR and OS 	<ul style="list-style-type: none"> FPCD Q1 2019 Data anticipated: 2021+
Phase Ib TATTON NCT02143466	Advanced EGFRm NSCLC TKI failure	344	<ul style="list-style-type: none"> Arm 1: <i>Tagrisso</i> + <i>Imfinzi</i> Arm 2: <i>Tagrisso</i> + savolitinib Arm 3: <i>Tagrisso</i> + selumetinib Enrolment to <i>Imfinzi</i> combination arms will not restart Global trial	<ul style="list-style-type: none"> Safety, tolerability, pharmacokinetics and preliminary anti-tumour activity 	<ul style="list-style-type: none"> FPCD: Q3 2014 Data anticipated: 2020



Imfinzi (PD-L1 mAb)

NSCLC, early disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III AEGEAN NCT03800134	Neoadjuvant NSCLC patients Stage II and III resected NSCLC (incl. EGFR/ALK positive)	300	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + platinum-based chemo Arm 2: placebo + platinum-based chemo 	Primary endpoint: <ul style="list-style-type: none"> mPR Secondary endpoint: <ul style="list-style-type: none"> pCR 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: H2 2020
Phase III ADJUVANT BR.31 NCT02273375 Partnered	Adjuvant NSCLC patients Ib (≥4cm) – stage IIIa resected NSCLC (incl. EGFR/ALK positive)	1,360	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> mg/kg i.v. Q4W x 12m Arm 2: placebo Global trial	Primary endpoint: <ul style="list-style-type: none"> DFS Secondary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q1 2015 Data anticipated: 2021
Phase III PACIFIC-2 NCT03519971	Unresected, locally-advanced NSCLC	300	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> i.v. Q4W + chemo/RT Arm 2: placebo + chemo/RT ex US global trial	Primary endpoint: <ul style="list-style-type: none"> PFS ORR Secondary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q2 2018 LPCD: Q3 2019 Data anticipated: H2 2020
Phase III PACIFIC-4 NCT03833154	<i>Imfinzi</i> following SBRT in unresected, Stage I/II NSCLC	630	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> i.v. Q4W following definitive SBRT Arm 2: placebo following definitive SBRT 	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: 2021+
Phase III PACIFIC-5 NCT03706690	Unresected, locally-advanced NSCLC	360	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> i.v. Q4W following chemo/RT Arm 2: placebo following chemo/RT ex US global trial, China focus	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021+
Phase II/III Lung Master Protocol 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"> Substudy A: <i>Imfinzi</i> (non-match for other biomarker driven substudies) i.v. Q2W single arm <i>Imfinzi</i> Phase II only Substudy B: PI3K inhibitor vs. docetaxel Substudy C: CDK4/6 inhibitor vs. docetaxel Substudy D: AZD4547 (FGFR inhibitor) vs. docetaxel Substudy E: C-MET/HGFR Inhibitor + erlotinib vs. erlotinib 	Primary endpoints: <ul style="list-style-type: none"> ORR PFS OS 	<ul style="list-style-type: none"> FPCD: Q2 2014 Data anticipated: 2021+



Imfinzi (PD-L1 mAb) +/- treme (CTLA-4 mAb)

Lung cancer, advanced disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III PEARL NCT03003962	NSCLC 1L	650	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> Q4W Arm 2: chemotherapy <p>Asia trial</p>	Primary endpoint: • OS	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2019 Data anticipated: 2021
Phase III POSEIDON NCT03164616	NSCLC 1L	1,000	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + chemo Arm 2: <i>Imfinzi</i> + tremelimumab + chemo Arm 3: SoC 	Primary endpoint: • OS • PFS	<ul style="list-style-type: none"> FPCD: Q2 2017 LPCD: Q4 2018 Data readout: Q4 2019 PFS primary endpoint met OS Data anticipated: 2021
Phase II MAGELLAN NCT03819465	NSCLC 1L	200	<ul style="list-style-type: none"> Arm A1: <i>Imfinzi</i> Arm A2: <i>Imfinzi</i> + danvatirsen Arm A3: <i>Imfinzi</i> + oleclumab Arm B1: <i>Imfinzi</i> + Investigator's choice of chemo Arm B2: <i>Imfinzi</i> + danvatirsen + Investigator's choice of chemo Arm B3: <i>Imfinzi</i> + oleclumab + Investigator's choice of chemo 	Primary endpoint: • Safety & tolerability Secondary endpoint: • ORR, DoR, PFS, OS, PK, ADA	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: H2 2020
Phase III ADRIATIC NCT03703297	Limited disease- SCLC 1L following platinum-based concurrent chemoradiation therapy	600	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab (4 doses) Arm 2: <i>Imfinzi</i> Arm 3: placebo 	Primary endpoints: • PFS • OS	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021
Phase III CASPIAN NCT03043872	SCLC 1L	795	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab + EP (carboplatin or cisplatin + etoposide) Arm 2: <i>Imfinzi</i> + EP (carboplatin or cisplatin + etoposide) Arm 3: EP (carboplatin or cisplatin + etoposide) 	Primary endpoint: • OS	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q2 2018 Data readout: Q2 2019 OS Primary endpoint met for <i>Imfinzi</i> monotherapy arm
Phase II BALTIC NCT02937818	SCLC	80	<ul style="list-style-type: none"> Arm A: <i>Imfinzi</i> + tremelimumab Q4W Arm B: adavosertib and carboplatin BID Arm C: AZD6738 and <i>Lynparza</i> 	• Primary endpoint: ORR	<ul style="list-style-type: none"> FPCD: Q4 2016 Data anticipated: 2021



Imfinzi (PD-L1 mAb)

Other cancers, early disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III POTOMAC NCT03528694	Non-muscle invasive bladder cancer	975	<ul style="list-style-type: none"> Arm 1: BCG (Induction + maintenance) Arm 2: <i>Imfinzi</i> + BCG (Induction only) Arm 3: <i>Imfinzi</i> + BCG (Induction + maintenance) 	Primary endpoints: <ul style="list-style-type: none"> DFS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021+
Phase III NIAGARA NCT03732677	Muscle-invasive bladder cancer	960	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> in combination with gemcitabine + cisplatin, <i>Imfinzi</i> maintenance Arm 2: gemcitabine + cisplatin 	Coprimary endpoints: <ul style="list-style-type: none"> pCR EFS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021+
Phase III EMERALD-1 NCT03778957	Locoregional HCC	600	<ul style="list-style-type: none"> Arm A: TACE in combination with <i>Imfinzi</i> Arm B: TACE in combination with <i>Imfinzi</i> + bevacizumab Arm C: TACE in combination with placebo 	Primary endpoint PFS for Arm A vs Arm C Secondary endpoint PFS for Arm B vs Arm C , OS	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021
Phase III EMERALD-2 NCT03847428	Adjuvant therapy in HCC	888	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + bevacizumab Arm 2: <i>Imfinzi</i> + placebo Arm 3: placebo + placebo 	Primary endpoint: <ul style="list-style-type: none"> RFS for Arm 2 vs Arm 3 Secondary endpoint: <ul style="list-style-type: none"> RFS Arm 1 vs Arm 3, OS, RFS at 24 mos 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: 2021+

pCR = Pathologic Complete Response
EFS = event free survival



Imfinzi (PD-L1 mAb) +/- treme (CTLA-4 mAb)

Other cancers, advanced disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III DANUBE NCT02516241	Cis-eligible and ineligible bladder cancer 1L	1,005	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab Arm 2: <i>Imfinzi</i> Arm 3: SoC 	Primary endpoints: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q1 2017 Data anticipated: H1 2020
Phase III NILE NCT03682068	Bladder cancer 1L	885	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab + SoC Arm 2: <i>Imfinzi</i> + SoC Arm 3: SoC 	Primary endpoints: <ul style="list-style-type: none"> PFS OS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021+
Phase III KESTREL NCT02551159	HNSCC 1L	823	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> Arm 2: <i>Imfinzi</i> + tremelimumab Arm 3: SoC 	Primary endpoints: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD Q1 2017 Data anticipated: H1 2020
Phase III HIMALAYA NCT03298451	HCC 1L	1,310	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab Arm 2: <i>Imfinzi</i> Arm 3: sorafenib 	Primary endpoint: <ul style="list-style-type: none"> OS Secondary endpoint: <ul style="list-style-type: none"> PFS, TTP, ORR 	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q4 2019 Data anticipated: H2 2020
Phase II NCT02527434	Urothelial bladder cancer triple-negative breast cancer pancreatic ductal-adenocarcinoma	76	<ul style="list-style-type: none"> Arm 1 tremelimumab (urothelial bladder cancer) Arm 2 tremelimumab (triple-negative breast cancer) Arm 3 tremelimumab (pancreatic ductal-adenocarcinoma) 	Primary endpoint: <ul style="list-style-type: none"> ORR Secondary endpoints: <ul style="list-style-type: none"> Safety, DoR 	<ul style="list-style-type: none"> FPCD: Q4 2015 Data readout: Q4 2018
Phase III TOPAZ-1 NCT03875235	BTC 1L	474	<ul style="list-style-type: none"> Treatment Arm 1 <i>Imfinzi</i> + gemcitabine + cisplatin Treatment Arm 2 placebo + gemcitabine + cisplatin <p>Global trial</p>	Primary endpoint: <ul style="list-style-type: none"> OS Secondary endpoint: <ul style="list-style-type: none"> PFS, ORR, DoR 	<ul style="list-style-type: none"> FPCD Q2 2019 Data anticipated: 2021+
Phase III CALLA NCT03830866	Locally advanced cervical cancer	714	<ul style="list-style-type: none"> Arm 1 <i>Imfinzi</i> + EBRT + brachytherapy with platinum Arm 2 placebo + EBRT + brachytherapy with platinum <p>Global trial</p>	Primary <ul style="list-style-type: none"> PFS Secondary <ul style="list-style-type: none"> OS, CR rate, DoR, ORR, safety/tolerability 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021+



Imfinzi (PD-L1 mAb) +/- treme (CTLA-4 mAb)

Other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase III STRONG NCT03084471	Advanced solid malignancies	1,200	<ul style="list-style-type: none"> • Arm 1: <i>Imfinzi</i> • Arm 2: <i>Imfinzi</i> + tremelimumab 	<ul style="list-style-type: none"> • Primary endpoint: Safety 	<ul style="list-style-type: none"> • FPCD: Q2 2017 • Data anticipated: 2021+
Phase I Combination in Advanced Solid Tumours NCT02658214	Solid tumours	80	<ul style="list-style-type: none"> • Arm 2 SCLC: <i>Imfinzi</i> + tremelimumab + carboplatin + etoposide • Arm 3 TNBC: <i>Imfinzi</i> + tremelimumab + chemo • Arm 4 TNBC: <i>Imfinzi</i> + tremelimumab + chemo • Arm 5 GEJ: <i>Imfinzi</i> + tremelimumab + oxaliplatin + 5-FU + leucovorin • Arm 6 PDAC: <i>Imfinzi</i> + tremelimumab + chemo • Arm 7 ESSC: <i>Imfinzi</i> + tremelimumab + chemo 	<ul style="list-style-type: none"> • Safety 	<ul style="list-style-type: none"> • FPCD: Q1 2016 • LPCD: Q1 2019 • Data anticipated: 2021+
Phase I Immunotherapy in Combination With Chemoradiation in Patients With Advanced Solid Tumours CLOVER NCT03509012	HNSCC, NSCLC, SCLC	300	<ul style="list-style-type: none"> • HNSCC Arm 1 • NSCLC Arm 1 • NSCLC Arm 2 • NSCLC Arm 3 • SCLC Arm 2 • SCLC Arm 3 • SCLC Arm 4 	<ul style="list-style-type: none"> • Safety 	<ul style="list-style-type: none"> • FPCD: Q2 2018 • Data anticipated: 2021+
Phase II BEGONIA NCT03742102	mTNBC 1L	110	<ul style="list-style-type: none"> • Arm 1 <i>Imfinzi</i> + paclitaxel • Arm 2 <i>Imfinzi</i> + paclitaxel + capivasertib • Arm 4 <i>Imfinzi</i> + paclitaxel + danvatirsen • Arm 5 <i>Imfinzi</i> + paclitaxel + oleclumab <p>Global trial</p>	<p>Primary endpoint:</p> <ul style="list-style-type: none"> • Safety and tolerability <p>Secondary endpoint:</p> <ul style="list-style-type: none"> • ORR, PFS, DoR, OS, PK, ADA 	<ul style="list-style-type: none"> • FPCD: Q1 2019 • Data anticipated: H2 2020



Lynparza (PARP inhibitor)

Ovarian and other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase III OlympiA NCT02032823 Partnered	BRCAM adjuvant breast cancer	1,836	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> BiD 12 month duration Arm 2: placebo 12-month duration Global trial partnership with BIG and NCI/NRG	<ul style="list-style-type: none"> Primary endpoint: invasive disease-free survival (IDFS) Secondary endpoint: distant disease-free survival and OS 	<ul style="list-style-type: none"> FPCD: Q2 2014 LPCD: Q2 2019 Data anticipated: 2021
Phase III POLO NCT02184195	gBRCAM pancreatic cancer	154	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> tablets 300mg twice daily as maintenance therapy until progression Arm 2: placebo tablets BID Global trial	<ul style="list-style-type: none"> Primary endpoint: PFS Secondary endpoint: OS 	<ul style="list-style-type: none"> FPCD: Q1 2015 LPCD: Q1 2019 Data readout: Q1 2019 Primary endpoint met
Phase III PROfound NCT02987543	Metastatic castration-resistant prostate cancer HRRm, 2L+	387	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> BID Arm 2: physician's choice: enzalutamide 160mg once daily or abiraterone acetate 1,000mg once daily Global trial	<ul style="list-style-type: none"> Primary endpoint: radiologic PFS Secondary endpoints: ORR, Time to Pain Progression, OS 	<ul style="list-style-type: none"> FPCD: Q2 2017 LPCD: Q4 2018 Data readout : Q3 2019 Primary endpoint met



Lynparza (PARP inhibitor)

Imfinzi combinations

Trial	Population	Patients	Design	Endpoints	Status
Phase III DuO-O NCT03737643	Advanced ovarian cancer 1L	1,056	Non tBRCAm (tumour BRCA) patients <ul style="list-style-type: none"> Arm 1: bevacizumab Arm 2: bevacizumab + <i>Imfinzi</i> Arm 3: bevacizumab + <i>Imfinzi</i> + <i>Lynparza</i> tBRCAm patients <ul style="list-style-type: none"> bevacizumab (optional) + <i>Imfinzi</i> + <i>Lynparza</i> Global trial	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoints: <ul style="list-style-type: none"> OS, PFS2 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021+
Phase II ORION NCT03775486	Stage IV NSCLC whose disease has not progressed following SoC chemo + <i>Imfinzi</i> Maintenance therapy 1L	250	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + <i>Lynparza</i> Arm 2: <i>Imfinzi</i> + placebo Global trial	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoints: <ul style="list-style-type: none"> OS, ORR, DoR, PFS in HRRm, PK, ADA 	<ul style="list-style-type: none"> FPCD Q1 2019 Data anticipated: 2021+
Phase II BAYOU NCT03459846	Platinum-Ineligible unresectable Stage IV urothelial cancer	154	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + <i>Lynparza</i> Arm 2: <i>Imfinzi</i> + placebo Global trial	<ul style="list-style-type: none"> Primary endpoint: PFS Secondary endpoints: OS, DoR, ORR, PFS in HRRm, PFS6, PK, ADA, PRO 	<ul style="list-style-type: none"> FPCD: Q1 2018 Data anticipated : H1 2020
Phase I / II MEDIOLA NCT02734004	gBRCAm ovarian cancer 2L+ gBRCAm HER2-negative breast cancer 1-3L SCLC 2L+ Gastric cancer 2L+	148	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> + <i>Imfinzi</i> Dose until progression Global trial	Primary endpoints: <ul style="list-style-type: none"> DCR at 12 weeks Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q2 2016 LPCD: Q2 2017
Phase I / II MEDIOLA (Ovarian expansion) NCT02734004	gBRCAm ovarian cancer 2L+ Non-gBRCAm ovarian cancer 2L+ Non-gBRCAm ovarian cancer 2L+	140	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> + <i>Imfinzi</i> Arm 2: <i>Lynparza</i> + <i>Imfinzi</i> Arm 3: <i>Lynparza</i> + <i>Imfinzi</i> + bevacizumab Dose until progression Global trial	Primary endpoints: <ul style="list-style-type: none"> DCR at 12 weeks ORR Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q2 2018



Lynparza (PARP inhibitor)

Other combinations

Trial	Population	Patients	Design	Endpoints	Status
Phase III PAOLA-1 NCT02477644 Externally sponsored	Advanced ovarian cancer 1L maintenance	806	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> maintenance therapy for two years or until disease progression Arm 2: placebo for two years or until disease progression Global trial	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoints: <ul style="list-style-type: none"> OS, PFS2 	<ul style="list-style-type: none"> FPCD: Q2 2015 LPCD: Q2 2018 Data readout: Q3 2019 Primary endpoint met
Phase III PROpel NCT03732820	Metastatic castration-resistant prostate cancer 1L	720	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> + abiraterone Arm 2: placebo + abiraterone Global trial	Primary Endpoint: <ul style="list-style-type: none"> rPFS Secondary endpoints: <ul style="list-style-type: none"> TFST, TTPP, OS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021
Phase II VIOLETTE NCT03330847	TNBC	450	<ul style="list-style-type: none"> Arm 1: AZD6738 + <i>Lynparza</i> Arm 2: <i>Lynparza</i> Trial conducted in 15 countries: North America, Europe and Asia	<ul style="list-style-type: none"> PFS ORR / OS Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: 2021
Phase III GY004 NCT02446600 Externally sponsored	Recurrent platinum sensitive ovarian cancer	549	<ul style="list-style-type: none"> Arm 1: chemo Arm 2: <i>Lynparza</i> Arm 3: cediranib + <i>Lynparza</i> US/Canada/Japan sites	Primary endpoint: <ul style="list-style-type: none"> PFS Secondary endpoints: <ul style="list-style-type: none"> OS, QoL, safety 	<ul style="list-style-type: none"> FPCD: Q1 2016 Data anticipated: H1 2020
Phase II/III GY005 NCT02502266 Externally sponsored	Recurrent platinum resistant/refractory ovarian cancer	680	<ul style="list-style-type: none"> Arm 1: chemo Arm 2: cediranib + <i>Lynparza</i> Arm 3: cediranib Arm 4: <i>Lynparza</i> <ul style="list-style-type: none"> US/Canada sites 	Primary endpoints: <ul style="list-style-type: none"> PFS, OS Secondary endpoints: <ul style="list-style-type: none"> ORR, QoL, safety 	<ul style="list-style-type: none"> FPCD: Q2 2016 Data anticipated: 2021+
Phase II LYNK-002 NCT03742895 Partnered	HRRm or HRD-positive advanced cancer	370	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> Trial conducted in 15 countries worldwide	Primary endpoints: <ul style="list-style-type: none"> ORR Secondary endpoints: <ul style="list-style-type: none"> DOR, OS, PFS, AE, Prog by CA-125 	<ul style="list-style-type: none"> FPCD: Q1 2019



Calquence (BTK inhibitor)

Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase III ACE-CL-007 (ELEVATE-TN) NCT02475681	Previously untreated CLL	535	<ul style="list-style-type: none"> Arm A: chlorambucil + obinutuzumab Arm B: <i>Calquence</i> + obinutuzumab Arm C: <i>Calquence</i> 	<ul style="list-style-type: none"> Primary endpoint: PFS (Arm A vs. Arm B) Secondary endpoints: IRC (independent review committee) assessed ORR, OS (Arm A vs. Arm B vs. Arm C) 	<ul style="list-style-type: none"> FPCD: Q2 2015 Data readout: Q2 2019 Primary endpoint met
Phase III ACE-CL-311 NCT03836261	Previously untreated CLL fit	780	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> + venetoclax Arm B: <i>Calquence</i> + venetoclax + obinutuzumab Arm C: FCR or BR 	<ul style="list-style-type: none"> Primary – IRC assessed PFS (arm A vs arm C) Secondary - IRC assessed PFS (arm B vs arm C); INV assessed PFS (arm A vs arm C; arm B vs arm C) 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021+
Phase III ACE-CL-309 (ASCEND) NCT02970318	Relapsed/refractory CLL	306	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> Arm B: rituximab + idelalisib or bendamustine (investigator's choice) 	<ul style="list-style-type: none"> Primary endpoint: IRC assessed PFS (arm A vs. Arm B) Secondary endpoints: INV-assessed ORR, OS, DoR, PROs 	<ul style="list-style-type: none"> FPCD Q3 2016 Data readout: Q2 2019 Primary endpoint met
Phase III ACE-CL-006 (ELEVATE-RR) NCT02477696	Relapsed/refractory high risk CLL	533	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> Arm B: ibrutinib 	<ul style="list-style-type: none"> Primary endpoint: PFS Secondary endpoints: comparison of incidence of infections, RTs (Richter's Transformation) and atrial fibrillation, OS 	<ul style="list-style-type: none"> FPCD: Q2 2015 Data anticipated: 2021+
Phase III ACE-LY-308 NCT02972840	Previously untreated MCL	546	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> + bendamustine + rituximab Arm B: bendamustine + rituximab 	<ul style="list-style-type: none"> Primary endpoint: PFS by Lugano Classification for NHL Secondary endpoints: IA, PFS, ORR; IRC-assessed ORR, DoR, time to response, OS 	<ul style="list-style-type: none"> FPCD: Q1 2017 Data anticipated: 2021+
Phase II ACE-CL-208 NCT02717611	Relapsed/ refractory CLL, intolerant to ibrutinib	60	<i>Calquence</i> monotherapy	<ul style="list-style-type: none"> ORR at 36 cycles 	<ul style="list-style-type: none"> FPCD: Q1 2016 Data anticipated: H1 2020
Phase II 15-H-0016 NCT02337829	Relapsed/refractory and treatment naïve/del17p CLL/SLL	48	<ul style="list-style-type: none"> <i>Calquence</i> monotherapy Arm A: lymph node biopsy Arm B: bone marrow biopsy 	<ul style="list-style-type: none"> ORR 	<ul style="list-style-type: none"> FPCD: Q4 2014 Data anticipated: 2021+
Phase I/II ACE-CL-001 NCT02029443	CLL/SLL/Richter's transformation	306	<ul style="list-style-type: none"> <i>Calquence</i> monotherapy Dose escalation and expansion 	<ul style="list-style-type: none"> Safety, PK, PD 	<ul style="list-style-type: none"> FPCD: Q1 2014 Data anticipated: 2021

Calquence (BTK inhibitor)

Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase I/II ACE-LY-001 NCT02328014	B-cell malignancies	40	Dose escalation and expansion trial of the combination of <i>Calquence</i> and ACP-319 (Pi3K inhibitor)	<ul style="list-style-type: none"> Safety ORR 	<ul style="list-style-type: none"> FPCD: Q1 2015 Data anticipated: H1 2020
Phase I/II ACE-LY-005 NCT02362035	Haematological malignancies	161	<i>Calquence</i> + pembrolizumab	<ul style="list-style-type: none"> Safety Secondary endpoints: ORR, DoR, PFS, OS, TTNT (time to next therapy) 	<ul style="list-style-type: none"> FPCD: Q1 2015 Data anticipated: 2021
Phase I/II ACE-WM-001 NCT02180724	Waldenstrom microglobulinaemia	106	<i>Calquence</i> monotherapy	<ul style="list-style-type: none"> ORR 	<ul style="list-style-type: none"> FPCD: Q3 2014 Data readout: Q4 2019
Phase Ib ACE-LY-002 NCT02112526	Relapsed/refractory de novo activated B-cell DLBCL	21	<i>Calquence</i> monotherapy	<ul style="list-style-type: none"> Safety 	<ul style="list-style-type: none"> FPCD: Q3 2014 Data anticipated: H2 2019
Phase Ib ACE-LY-106 NCT02717624	MCL	70	<i>Calquence</i> in combination with bendamustine and rituxumab <ul style="list-style-type: none"> Arm A: treatment naïve Arm B: relapsed/refractory Arm C: treatment naïve: <i>Calquence</i> + venetoclax + rituxumab 	<ul style="list-style-type: none"> Safety 	<ul style="list-style-type: none"> FPCD: Q1 2016 Data anticipated: 2021+
Phase Ib ACE-MY-001 NCT02211014	Relapsed/refractory MM	28	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> Arm B: <i>Calquence</i> + dexamethasone 	<ul style="list-style-type: none"> Safety 	<ul style="list-style-type: none"> FPCD: Q1 2015 Data readout: Q2 2019
Phase I ACE-LY-003 NCT02180711	Relapsed/refractory follicular lymphoma	80	<ul style="list-style-type: none"> Arm A: <i>Calquence</i> Arm B: <i>Calquence</i> + rituximab Arm C: <i>Calquence</i> + rituximab + lenolidomide 	<ul style="list-style-type: none"> Safety 	<ul style="list-style-type: none"> FPCD: Q1 2015 Data anticipated: 2021+
Phase I ACE-CL-002 NCT02157324	Relapsed/refractory CLL/ SLL	12	<i>Calquence</i> in combination with ACP-319 dose escalation	<ul style="list-style-type: none"> Safety, PK, PD 	<ul style="list-style-type: none"> FPCD: Q3 2014 Data anticipated: H2 2020
Phase I ACE-CL-003 NCT02296918	CLL/SLL/PLL	69	<i>Calquence</i> + obinutuzumab <ul style="list-style-type: none"> Arm A: relapsed/refractory Arm B: treatment naïve Arm C: relapsed/refractory <i>Calquence</i> + venetoclax + rituxumab Arm D: treatment naïve 	<ul style="list-style-type: none"> Safety, ORR Secondary endpoints: PD, PFS, TTNT, OS 	<ul style="list-style-type: none"> FPCD: Q4 2014 Data anticipated: 2021+

Calquence (BTK inhibitor)

Blood cancers

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase I NCT03198650	Japanese adults with advanced B-cell malignancies	34	<ul style="list-style-type: none"> • <i>Calquence</i> monotherapy • Dose confirmation and expansion • <i>Calquence</i> + obinutuzumab 	<ul style="list-style-type: none"> • Safety • PK 	<ul style="list-style-type: none"> • FPCD: Q2 2017 • Data anticipated: 2021+
Phase I/II CL-110 NCT03328273	CLL r/r	62	<ul style="list-style-type: none"> • Arm A: ceralasertib (AZD6738) monotherapy • Arm B: <i>Calquence</i> + ceralasertib (AZD6738) 	<ul style="list-style-type: none"> • Identify dose of ceralasertib and safety of co-administration of <i>Calquence</i> + ceralasertib 	FPCD: Q1 2018 Data anticipated: H1 2020
Phase I/II LY-110 NCT03205046	B-cell malignancies r/r	25	<ul style="list-style-type: none"> • Part 1: <i>Calquence</i> daily + vistusertib daily • Part 2: <i>Calquence</i> daily + vistusertib 5 days on/2 days off 	<ul style="list-style-type: none"> • MTD and optimal dosing schedule • Safety 	FPCD: Q3 2017 Data anticipated: H2 2020
Phase III CL-312 NCT04008706	CLL TN and r/r	600	<ul style="list-style-type: none"> • Arm A: treatment naïve • Arm B: relapsed/refractory • Arm C: prior BTKi therapy • Arm D: concomitant vitamin K antagonists 	<ul style="list-style-type: none"> • Safety 	Data anticipated: 2021+
Phase Ib/II PRISM NCT03527147	Relapsed/refractory aggressive NHL	88	<ul style="list-style-type: none"> • Arm 1: <i>Calquence</i> + danvatirsen • Arm 2: <i>Calquence</i> + AZD6738 • Arm 3: <i>Calquence</i> + Hu5F9G4 + Rituxan • Arm 4: <i>Calquence</i> + AZD5153 <p>An open-label platform study with trial centres in US and UK</p>	<ul style="list-style-type: none"> • Primary outcome; safety & tolerability • Secondary outcomes; ORR, DOR, PFS, OS 	FPCD: Q2 2018 Data anticipated: 2021



Calquence (BTK inhibitor)

Other cancers

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoint(s)	Status
Phase Ib/II ACE-ST-209 NCT02586857	≥ 2L glioblastoma multiforme	52	<ul style="list-style-type: none">• Arm A: <i>Calquence</i> 200mg BID• Arm B: <i>Calquence</i> 400mg QD	<ul style="list-style-type: none">• Safety, ORR	<ul style="list-style-type: none">• FPCD: Q1 2016• Data anticipated: H2 2019

Oncology

CVRM

Respiratory

Other



Enhertu (trastuzumab deruxtecan, HER2 ADC)

Breast and gastric cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase II DESTINY-Breast01 NCT03248492 Partnered	HER2-positive, unresectable and/or metastatic breast cancer patients previously treated with trastuzumab emtansine	230	Randomised, open label, sequential assignment • <i>Enhertu</i>	Primary endpoint ORR Secondary end points DoR, CBR, CBR, PFS, OS	<ul style="list-style-type: none"> • FPCD: Q4 2017 • LPCD: Q4 2018 • Data readout: Q2 2019
Phase III DESTINY-Breast02 NCT03523585 Partnered	HER2-positive, unresectable and/or metastatic breast cancer pretreated with prior standard of care HER2 therapies, including trastuzumab emtansine	600	Randomised open label parallel assignment • <i>Enhertu</i> Physicians choice of • Lapatinib + capecitabine • Trastuzumab + capecitabine	Primacy endpoint PFS Secondary endpoints OS, ORR, DoR, CBR	<ul style="list-style-type: none"> • FPCD: Q4 2018 • Data anticipated 2021
Phase III DESTINY-Breast03 NCT03529110 Partnered	HER2-positive, unresectable and/or metastatic breast cancer patients previously treated with trastuzumab and taxane	500	Randomised open label parallel assignment • <i>Enhertu</i> • Ado-trastuzumab emtansine	Primary endpoint PFS Secondary endpoints OS, ORR, DoR, CBR	<ul style="list-style-type: none"> • FPCD: Q4 2018 • Data anticipated 2021
Phase III DESTINY-Breast04 NCT03734029 Partnered	HER2-low, unresectable and/or metastatic breast cancer patients	540	Randomised open label parallel assignment • <i>Enhertu</i> • Physicians choice of SoC chemo (choice of capecitabine, eribulin, gemcitabine, paclitaxel or nab-paclitaxel)	Primary end point PFS Secondary end points OS, DoR, ORR	<ul style="list-style-type: none"> • FPCD: Q4 2018 • Data anticipated 2021
Phase II DESTINY-Gastric01 NCT03329690 Partnered	HER2-overexpressing advanced gastric or gastroesophageal junction adenocarcinoma patients who have progressed on two prior treatment regimens	220	Randomised open label parallel assignment • <i>Enhertu</i> • SoC chemo	Primary end point ORR Secondary end points PFS, OS, DoR, DCR, TTF, range of PK endpoints	<ul style="list-style-type: none"> • FPCD: Q4 2017 • LPCD: Q2 2019 • Data readout Q1 2020
Phase II DESTINY-Gastric02 NCT04014075 Partnered	HER2-positive gastric cancer that cannot be surgically removed or has spread	72	Open label single group assignment • <i>Enhertu</i>	Primary endpoint ORR Secondary endpoints PFS, ORR, OS, DoR	<ul style="list-style-type: none"> • FPCD: Q3 2019 • Data anticipated: H2 2020



Enhertu (trastuzumab deruxtecan, HER2 ADC)

Other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT03384940 Partnered	HER2-expressing advanced colorectal cancer	90	Non randomised single group assignment • <i>Enhertu</i>	Primary end point ORR Secondary end points PFS, OS, DoR, range of PK endpoints	<ul style="list-style-type: none"> FPCD Q1 2018 Data anticipated H2 2020
Phase II NCT03505710 Partnered	HER2-over-expressing or mutated, unresectable and/or metastatic NSCLC	130	Non randomised parallel group assignment • <i>Enhertu</i>	Primary end point ORR Secondary end points DoR, PFS, OS	<ul style="list-style-type: none"> FPCD Q2 2018 Data anticipated H2 2020
Phase I NCT02564900 Partnered	Advanced solid malignant tumours	278	Non randomised single group assignment • <i>Enhertu</i>	Primary end points number of subjects with AEs, tumour response Secondary end points PK	<ul style="list-style-type: none"> FPCD Q3 2015 Data read out Q3 2018



Lumoxiti (moxetumomab pasudotox, CD22 mAb)

Blood cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase III PLAIT NCT01829711 Partnered	Adults with relapsed or refractory HCL	80	<ul style="list-style-type: none"> Multicentre, single-arm, open-label Phase III study <i>Lumoxiti</i> i.v. at the recommended dose 	<ul style="list-style-type: none"> Primary endpoint: rate of durable CR (complete response): CR maintained for > 180 days Secondary endpoints <ul style="list-style-type: none"> Efficacy: CR rate, ORR, Duration of CR and ORR, TTR, PFS Safety and tolerability PK and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2013 Data readout: Q3 2017 Primary endpoint met



Selumetinib (MEK inhibitor)

Paediatric neurofibromatosis type 1, solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase II SPRINT NCT01362803 Partnered	Paediatric NF1	50 (stratum 1) 25 (Stratum 2)	<ul style="list-style-type: none"> Single arm: selumetinib 25mg/m² BID with 2 strata: <ul style="list-style-type: none"> Stratum 1: PN related morbidity present at enrolment Stratum 2: no PN related morbidity present at enrolment 	<ul style="list-style-type: none"> Complete partial and complete response rate measured by volumetric MRI; Duration of response and functional outcomes/QoL 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q4 2016 Data readout: Q1 2019 Primary endpoint met
Phase Ib Selumetinib + MK-8353 (ERK inhibitor) NCT03745989 Partnered (Merck Lead study)	Advanced solid tumours	80 (dose escalation trial)	Phase Ib open-label trial of MK-8353 in combination with selumetinib in participants with advanced solid tumours	<ul style="list-style-type: none"> DLTs AEs Study drug discontinuations due to an AE 	<ul style="list-style-type: none"> FPCD: Q1 2019



Savolitinib (MET inhibitor)

NSCLC and other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT01985555 Partnered	Advanced NSCLC (all comers)	85	<ul style="list-style-type: none"> Dose escalation trial Conducted in China	<ul style="list-style-type: none"> Primary endpoint: safety and tolerability Secondary endpoint: PK profile 	<ul style="list-style-type: none"> FPCD: Q2 2013 Data anticipated: H2 2020
Phase II NCT02897479 Partnered	Lung PSC and other NSCLC	65	<ul style="list-style-type: none"> Single arm trial: savolitinib QD Conducted in China	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoint: PFS, safety parameters 	<ul style="list-style-type: none"> FPCD: Q1 2017 Data anticipated: H1 2020



Cediranib (VEGF receptor inhibitor)

Ovarian cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb CONCERTO NCT02889900	PRR ovarian cancer - heavily pre-treated BRCAwt	62	<ul style="list-style-type: none">Cediranib 30mg + <i>Lynparza</i> 200mg BID	Primary endpoint: <ul style="list-style-type: none">ORR Secondary endpoints: <ul style="list-style-type: none">PFS, DoR, DCR, QoL, OS	<ul style="list-style-type: none">FPCD: Q1 2017LPCD: Q1 2019Data readout: Q4 2019



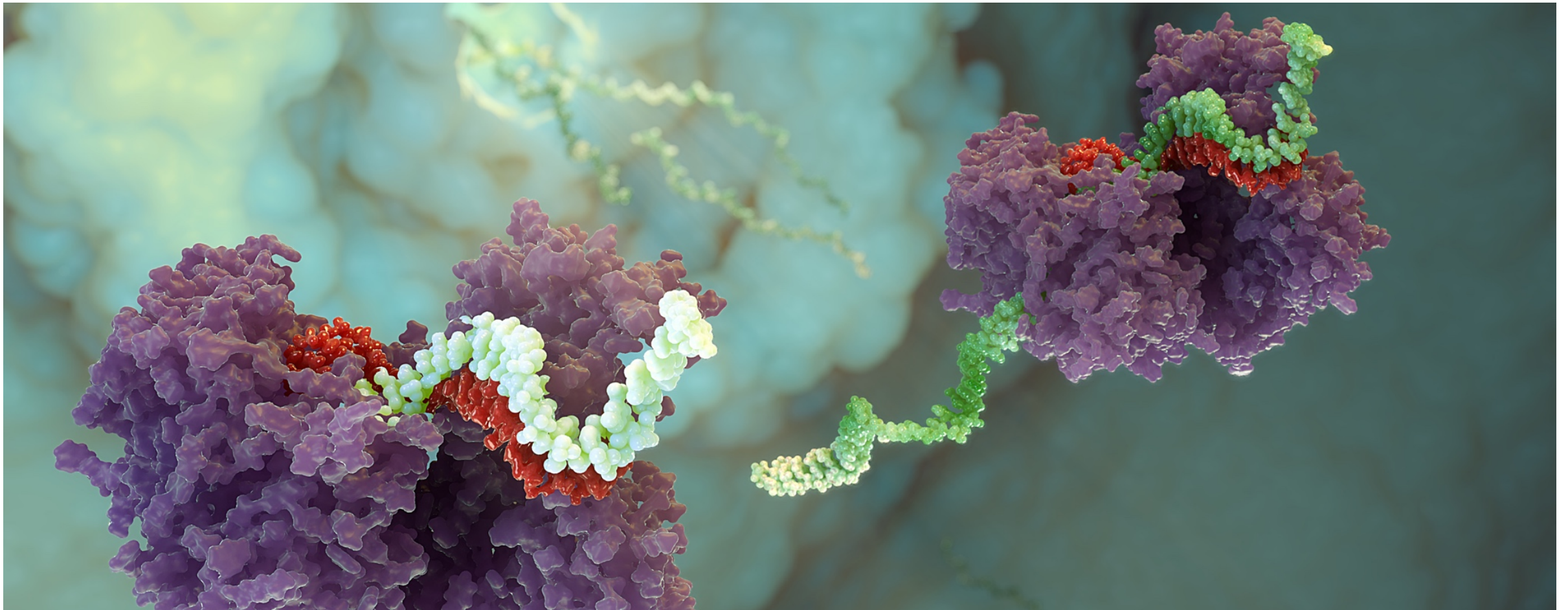
Capivasertib (AKT inhibitor)

Breast cancer, prostate cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase III NCT03997123 CAPItello-290	Locally advanced or metastatic TNBC	800	Double-blind randomised comparative study • Arm 1: capivasertib + paclitaxel • Arm 2: placebo + paclitaxel	• PFS • OS	• FPCD Q3 2019 • Data anticipated: 2021+
Phase II (ESR) NCT02121639 PROCAID	Metastatic castration resistant prostate cancer eligible for treatment with docetaxel chemotherapy	150	Randomised comparative • Arm 1: docetaxel + prednisolone + capivasertib • Arm 2: docetaxel + prednisolone + placebo	• PFS	• FPCD Q1 2014 • Data anticipated: H1 2020



Oncology - early-stage development



Imfinzi (PD-L1 mAb)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Compound	Population	Patients	Design	Endpoints	Status
Phase I/II STUDY 1108 NCT01693562	<i>Imfinzi</i>	Solid tumours	1,022	<ul style="list-style-type: none"> Dose escalation: 5 cohorts at Q2W and 1 cohort at Q3W Dose expansion: 16 tumour type cohorts at the Q2W MTD defined during dose escalation Dose exploration: cohort at 20mg Q4W <p>Global trial - nine countries</p>	<ul style="list-style-type: none"> Safety Optimal biologic dose Secondary endpoints include PK, immunogenicity and antitumour activity 	<ul style="list-style-type: none"> FPCD: Q3 2012 LPCD: Q4 2016 Data anticipated: H1 2020
Phase I NCT02117219	<i>Imfinzi</i> , azacitidine	Myelodysplastic syndrome	79	<p>Dose escalation and dose expansion trial</p> <ul style="list-style-type: none"> Part 1: <i>Imfinzi</i> Part 2 Arm 1: <i>Imfinzi</i> and tremelimumab Part 2 Arm 2: <i>Imfinzi</i>, tremelimumab and azacitidine <p>Global trial - four countries</p>	<ul style="list-style-type: none"> Safety and tolerability of monotherapy and combination Secondary endpoints include duration of response, PFS and OS, PK and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2014 Data anticipated: H2 2020
Phase I NCT02900157	MEDI9090	Solid tumours	42	<p>Multi-centre, open-label, single-arm trial for adult subjects</p> <p>US and Japan trial centers</p>	<ul style="list-style-type: none"> Safety, PK, number of subjects reporting infusion related reaction 	<ul style="list-style-type: none"> FPCD: Q3 2016 Data anticipated: H1 2020
Phase II HUDSON NCT03334617	<i>Imfinzi</i> <i>Lynparza</i> vistusertib cerlasertib (AZD6738) danvatirsen oleclumab <i>Enhertu</i> cediranib	NSCLC	320	<p>5 modules encompassing 13 cohorts</p> <ul style="list-style-type: none"> Module 1; <i>Imfinzi</i> and <i>Lynparza</i> Module 2; <i>Imfinzi</i> and danvatirsen Module 3; <i>Imfinzi</i> and ceralasertib (AZD6738) Module 4; <i>Imfinzi</i> and vistusertib Module 5; <i>Imfinzi</i> and oleclumab Module 6; <i>Imfinzi</i> and <i>Enhertu</i> Module 7; <i>Imfinzi</i> and cediranib <p>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</p>	<ul style="list-style-type: none"> Primary outcome; ORR Secondary outcomes; efficacy including OS, PFS, DCR, and safety and tolerability, DoR 	<ul style="list-style-type: none"> FPCD: Q1 2018 Data anticipated: 2021+
Phase II COAST NCT03822351	<i>Imfinzi</i>	Stage III NSCLC unresectable	300	<ul style="list-style-type: none"> Arm A: <i>Imfinzi</i> Arm B: <i>Imfinzi</i> + oleclumab Arm C: <i>Imfinzi</i> + monalizumab 	<p>Primary</p> <ul style="list-style-type: none"> OR per RECIST v1.1 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: H2 2020
Phase II NeoCOAST NCT03794544	<i>Imfinzi</i>	Resectable, early stage NSCLC	160	<ul style="list-style-type: none"> Arm A: <i>Imfinzi</i> Arm B: <i>Imfinzi</i> + oleclumab Arm C: <i>Imfinzi</i> + monalizumab Arm D: <i>Imfinzi</i> + danvatirsen 	<p>Primary</p> <ul style="list-style-type: none"> Major pathological response rate 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: H2 2020



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

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/II STUDY 22 NCT02519348	Hepatocellular carcinoma	545	<ul style="list-style-type: none"> Arm A: <i>Imfinzi</i> + tremelimumab Arm B: <i>Imfinzi</i> 2L Arm C: tremelimumab 2L Arm D: <i>Imfinzi</i> + tremelimumab Arm E: <i>Imfinzi</i> in combination with bevacizumab 	<ul style="list-style-type: none"> Primary endpoints: Safety & tolerability, DLTs Secondary endpoints: ORR, DoR, OS 	<ul style="list-style-type: none"> FPCD: Q4 2015 Data anticipated: H2 2020
Phase Ib STUDY 006 NCT02000947	NSCLC (Immunotx naïve and Immunotx pretreated patient cohorts)	459	<ul style="list-style-type: none"> Dose escalation: minimum 5 cohorts exploring various treme Q4W and <i>Imfinzi</i> i.v. Q4W dose combinations, higher dose levels and alternate Q2 schedule added with amendment Dose expansion: MTD for the combination in escalation to be explored in expansion <p>North American, EU and ROW trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety Optimal biologic dose for the combination OR Secondary endpoints include antitumour activity, PK and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q4 2013 LPCD: Q4 2016 Data anticipated: H1 2020
Phase I STUDY 10 NCT02261220	Solid tumours (basket trial)	380	<ul style="list-style-type: none"> Dose expansion: MTD for the combination in escalation to be explored in expansion cohorts specific for each of 7 tumour types Dose exploration: 2 cohorts exploring various Q4W treme and <i>Imfinzi</i> dose combinations and 2 cohorts exploring various Q2W treme and <i>Imfinzi</i> dose combinations <p>North American, EU and ROW trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety Optimal biologic dose for the combination Secondary endpoints include anti-tumour activity, PK/PD and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q4 2014 LPCD: Q2 2017 Data anticipated: H1 2020



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

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I/II NCT02671435	Advanced solid tumours	501	<p>Escalation phase</p> <ul style="list-style-type: none"> monalizumab + <i>Imfinzi</i> i.v. <p>Expansion phase</p> <ul style="list-style-type: none"> monalizumab + <i>Imfinzi</i> i.v. recommended dose <p>Exploration phase</p> <ul style="list-style-type: none"> monalizumab + <i>Imfinzi</i> i.v. recommended dose + SoC systemic therapy with or without biologic agent and monalizumab in combination with a biologic agent in adult subjects with CRC <p>Global trial</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety Exploration Phase: Objective Response per RECIST <p>• Secondary endpoints include tumour response (OR, DC, DoR, PFS and OS), immunogenicity, pharmacokinetics, pharmacodynamics</p>	<ul style="list-style-type: none"> FPCD: Q2 2016 Data anticipated: 2021+



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

Head and neck squamous cell carcinoma (HNSCC)

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/IIa NCT03162224	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"> FPCD: Q3 2017 Data anticipated: H2 2020



AZD0466 (Bcl2/xL inhibitor)

Approved medicines

Late-stage development

Early development

Oncology

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04214093	Advanced hematologic malignancies or solid tumors	102	Monotherapy dose escalation, consisting of two arms: <ul style="list-style-type: none">• Arm A: Patients with low risk for tumour lysis syndrome (solid tumours, lymphomas, myelomas)• Arm B: Patients with high risk for tumour lysis syndrome (relapsed/refractory haem malignancies)	<ul style="list-style-type: none">• Primary: safety• Secondary: PK, anti-tumour activity	<ul style="list-style-type: none">• FPCD: Q4 2019• Data anticipated: 2021+

CVRM

Respiratory

Other



MEDI1191 (IL12 modRNA)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03946800	Advanced solid tumours	87	First-time-in-human Phase I, open-label, dose-escalation and expansion study of MEDI1191 administered intratumourally as monotherapy and in combination with <i>Imfinzi</i>	<ul style="list-style-type: none">• Primary endpoint: safety and tolerability• Secondary endpoints: PK, immunogenicity and efficacy	<ul style="list-style-type: none">• FPCD: Q2 2019• Data anticipated: 2021+



AZD1390 (ATM inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Subjects	Design	Endpoints	Status
Phase I NCT03423628	Recurrent glioblastoma eligible for re-irradiation, brain metastases and leptomeningeal disease, newly-diagnosed glioblastoma patients	132	<ul style="list-style-type: none">Designed to evaluate the safety, tolerability and PK of AZD1390 in combination with radiation therapy in patients with GBM and brain metastases from solid tumoursDose and schedule of AZD1390 administration will be adjusted during assessment of safety and tolerability during this Phase I trial Conducted across seven sites in USA and UK	<ul style="list-style-type: none">Primary: investigate the safety, tolerability, and MTD of AZD1390 administered in combination with radiation therapy in brain malignancies	<ul style="list-style-type: none">FPCD Q2 2018Data anticipated: 2021



Adavosertib (AZD1775, WEE-1 inhibitor)

Ovarian cancer, solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase II D6010C00004 NCT02272790	Platinum-resistant (PR) ovarian cancer	96	<ul style="list-style-type: none"> Arm B: paclitaxel + adavosertib Arm C: carboplatin + adavosertib Global trial	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoints: DoR, PFS, OS, DCR, safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q1 2015 LPCD: Q2 2018 Data readout: Q3 2019
Phase I D6010C00005 NCT02511795	Advanced solid tumours	130	<ul style="list-style-type: none"> Dose escalation trial to determine MTD (adavosertib + <i>Lynparza</i>) followed by an expansions in SCLC Conducted in US, Canada	<ul style="list-style-type: none"> Safety and tolerability Secondary endpoints: ORR, DCR, DoR, PFS 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q4 2018 Data readout Q4 2019
Phase I D6015C00002 NCT02617277	Advanced solid tumours	56	<ul style="list-style-type: none"> Dose escalation trial to determine MTD (adavosertib + <i>Imfinzi</i>) Conducted in US	<ul style="list-style-type: none"> Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q4 2018 Data readout Q4 2019
Phase I D6014C00006 NCT03333824	Advanced solid tumours	33	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"> Primary endpoints: Part A: Plasma AUC, AUC0-t and CMAX for cocktail parent compounds (midazolam, omeprazole and caffeine) Part B: dECG (differentiated ECG) intervals (QTcF) for absolute values and time-matched change from baseline 	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q4 2018 Data readout Q4 2019
Phase I D6014C00007 NCT03313557	Advanced solid tumours	48	adavosertib monotherapy once daily. Conducted in US and Europe	<ul style="list-style-type: none"> Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q1 2019 Data readout Q4 2019



MEDI2228 (BCMA antibody drug conjugate)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I 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: <ul style="list-style-type: none">• Safety• Determination of MTD Secondary endpoints: pPK, immunogenicity, ORR, DCR, DoR, PFS, OS	<ul style="list-style-type: none">• FPCD: Q2 2018• Data anticipated: 2021+



AZD2811 (AURN)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02579226	Solid tumours	72	<ul style="list-style-type: none">• Arm 1: AZD2811 dose escalation• Arm 2: AZD2811 dose expansion SCLC	<ul style="list-style-type: none">• Safety and tolerability• PK and efficacy	<ul style="list-style-type: none">• FPCD: Q4 2015• Data anticipated: H2 2020
Phase I NCT03217838	AML/high-risk MDS	130	<ul style="list-style-type: none">• Part A: AZD2811 monotherapy / azacitidine combination / venetoclax combination dose escalation cohorts• Part B: AZD2811 monotherapy / azacitidine combination / venetoclax combination dose expansions to further explore the tolerability, PK and clinical activity	<ul style="list-style-type: none">• Safety and tolerability• PK and efficacy	<ul style="list-style-type: none">• FPCD: Q3 2017• Data anticipated: 2021+



AZD4573 (CDK9 inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03263637	Relapsed/refractory haematologic malignancies	45	Dose escalation in relapsed/refractory haematological malignancies AZD4573 will be administered in 2 parallel arms (1-6 cohorts of dose escalations) based on the haematological malignancy	Primary: • safety/PK; Secondary: • efficacy	<ul style="list-style-type: none">• FPCD: Q4 2017• Data anticipated: H2 2020



AZD4635 (A_{2A}R inhibitor)

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02740985	Phase Ia: patients with advanced solid tumours Phase Ib: Post-immunotherapy NSCLC Other post-immunotherapy solid tumours Immune checkpoint-naïve mCRPC Immune checkpoint-naïve CRC Other immune checkpoint-naïve solid tumours	306	Phase Ia – solid tumours or mCRPC: • AZD4635 monotherapy • AZD4635 + <i>Imfinzi</i> • AZD4635 + abiraterone • AZD4635 + enzalutamide • AZD4635 + <i>Imfinzi</i> + oleclumab • AZD4635 + docetaxel. Phase Ib: AZD4635 monotherapy or AZD4635 + <i>Imfinzi</i> dose expansions in NSCLC, mCRPC, CRC and other post-immunotherapy and immune checkpoint-naïve solid tumours Conducted at sites in the US	Primary outcome measure: • Safety and tolerability Secondary outcome measures: • Preliminary assessment of anti-tumour activity	• FPCD: Q2 2016
Phase I NCT03710434	Healthy male volunteers	21	• Part A 2-period randomised crossover study of single doses of AZD4635, nanosuspension or solid oral formulation in fasted state • Part B, 4-period, open-label, randomised, crossover study of single doses of AZD4635 in the same subjects from Part A to assess food effect, pH effect and formulation variants Both parts conducted at a site in the UK	Primary outcome measures: • Cmax and exposure (AUC) of AZD4635 solid oral formulation and nano-suspension	• FPCD: Q4 2018 • LPCD: Q2 2019
Phase II NCT04089553	Prostate cancer	60	ARM 1: AZD4635 + <i>Imfinzi</i> ARM 2: AZD4635 + oleclumab Conducted at sites in the US	• Primary outcome measure: Efficacy; (ORR and PSA response) • Secondary outcome measure: Efficacy, PK, safety and tolerability	• FPCD: Q3 2019
Phase I NCT03980821	Japanese patients with advanced solid malignancies	12	AZD4635 dose escalation Conducted at sites in Japan	Primary outcome measure: • Safety and tolerability Secondary outcome measure: • PK and preliminary anti-tumour activity	• FPCD: Q3 2019



AZD5069 (CXCR2 antagonist)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/II NCT02583477	Metastatic pancreatic ductal carcinoma	16	Dose escalation and expansion arms: <i>Imfinzi</i> in combination with nab-paclitaxel and gemcitabine <i>Imfinzi</i> in combination with AZD5069	<ul style="list-style-type: none">Safety/efficacy trial	<ul style="list-style-type: none">FPCD: Q1 2016LPCD: Q3 2018Data anticipated: H2 2020



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"> Part 1: MEDI5083 Part 2: MEDI5083 + <i>Imfinzi</i> i.v. <p>Dose expansion phase</p> <ul style="list-style-type: none"> Part 3: MEDI5083 recommended dose + <i>Imfinzi</i> i.v. <p>US and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety Determination of MTD <p>Secondary endpoints: preliminary anti-tumour activity, pharmacokinetics, pharmacodynamics, and immunogenicity</p>	<ul style="list-style-type: none"> FPCD: Q1 2017 Data anticipated: H1 2020



AZD5153 (BRD4 inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I/Ib NCT03205176	Relapsed/refractory solid tumours, lymphomas	60	Monotherapy dose escalation in advanced solid tumours and lymphomas Dose escalation of AZD5153 in combination with <i>Lynparza</i> in platinum resistant/refractory HGS patients.	<ul style="list-style-type: none">• Primary: safety• Secondary: efficacy, PK	<ul style="list-style-type: none">• FPCD: Q2 2017• Data anticipated: H2 2020



MEDI5395 (rNDV GMCSF)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03889275	Select advanced solid tumours	164	First-time-in-human Phase I, open-label, dose-escalation and expansion study of MEDI5395 in combination with <i>Imfinzi</i>	<ul style="list-style-type: none">• Primary endpoint: safety and tolerability• Secondary endpoints: PK, PD, immunogenicity and efficacy	<ul style="list-style-type: none">• FPCD: Q4 2019• Data anticipated: 2021+



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

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03530397	Advanced solid tumours	272	Open-label, dose-escalation and dose-expansion Dose-escalation: MEDI5752 i.v. Dose-expansion : 2 cohort	Primary endpoints: <ul style="list-style-type: none">dose-escalation: safety & determination of MTDdose-expansion: assessment of antitumour activity based on OR Secondary endpoints: <ul style="list-style-type: none">PK, ADA, tumoural baseline PD-L1, assessment of antitumour activity based on OR, DoR, DC, PFS, OS	<ul style="list-style-type: none">FPCD: Q2 2018Data anticipated: 2021+



AZD5991 (MCL1 inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03218683	Relapsed/refractory haematologic malignancies	177	<ul style="list-style-type: none">• Arm1: monotherapy dose escalation expansions in relapsed/refractory haematological malignancies• Arm2: combination dose escalation (AZD5991+venetoclax) in relapsed/refractory AML;. Four dose escalation cohorts.• i.v. route of administration• US only	<ul style="list-style-type: none">• Primary: safety• Secondary: efficacy, PK	<ul style="list-style-type: none">• FPCD: Q3 2017• Data anticipated: H2 2020



Ceralasertib (AZD6738, ATR inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02264678	Solid tumours	250	<ul style="list-style-type: none"> • Arm 1: ceralasertib + carboplatin • Arm 2: ceralasertib dose escalation, ceralasertib + <i>Lynparza</i> • Arm 3: ceralasertib + <i>Imfinzi</i> <p>Trial conducted in North America, Europe and South Korea</p>	<ul style="list-style-type: none"> • Safety and tolerability • PK and efficacy 	<ul style="list-style-type: none"> • FPCD: Q4 2014 • Data anticipated: 2021+
Phase I NCT03022409	HNSCC	44	<p>Window of opportunity</p> <ul style="list-style-type: none"> • Arm 1: ceralasertib • Arm 2: <i>Lynparza</i> <p>Trial conducted in US, France, Taiwan and the UK</p>	<ul style="list-style-type: none"> • Biomarker change 	<ul style="list-style-type: none"> • FPCD: Q4 2017 • Data anticipated: H2 2020



Danvatirsen (AZD9150, STAT3 inhibitor)

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib/II NCT02499328	HNSCC	405	Dose escalation advanced solid and blood cancers <ul style="list-style-type: none"> • Arm A1: AZD9150/<i>Imfinzi</i> • Arm A2 : AZD5069/<i>Imfinzi</i> • Arm A4: AZD9150/<i>Imfinzi</i>/treme • Arm A5: AZD5069/<i>Imfinzi</i>/treme Dose expansion 2L HNSCC: <ul style="list-style-type: none"> • Arm B1: AZD9150 • Arm B2: AZD5069 • Arm B3: AZD9150/<i>Imfinzi</i> • Arm B4: AZD5069/<i>Imfinzi</i> • Arm B5: AZD9150 mono • Arm B6: AZD5069 mono • Arm B7: AZD9150/<i>Imfinzi</i> (1L HNSCC) • Arm B8: AZD9150 Q2W/<i>Imfinzi</i> (1L HNSCC) 	<ul style="list-style-type: none"> • Safety/efficacy trial 	<ul style="list-style-type: none"> • FPCD: Q3 2015 • LPCD: Q2 2019 • Data anticipated: 2021
Phase Ib/II NCT03421353	NSCLC, advanced solid tumours	213	Dose escalation advanced solid and blood cancers <ul style="list-style-type: none"> • Arm A1: AZD9150 alternate week/<i>Imfinzi</i> • Arm A2-A5 : AZD9150/<i>Imfinzi</i> + SoC chemo Dose expansion 1L HNSCC: <ul style="list-style-type: none"> • Arm D1/D2/D3: AZD9150 i.v. vs s.c. formulations/<i>Imfinzi</i> (advanced solid tumours) 	<ul style="list-style-type: none"> • Safety/efficacy trial 	<ul style="list-style-type: none"> • FPCD: Q1 2018 • Data anticipated: 2021



Oleclumab (MEDI9447, CD73 mAb)

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02503774	Advanced malignancies	310	<p>Dose escalation phase</p> <ul style="list-style-type: none"> oleclumab i.v. oleclumab i.v. + <i>Imfinzi</i> i.v. <p>Dose expansion phase</p> <ul style="list-style-type: none"> oleclumab i.v. recommended dose + <i>Imfinzi</i> i.v. <p>US, South Korean and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety Determination of MTD <p>Secondary endpoints include preliminary anti-tumour activity, PK, PD, immunogenicity and biomarker activity</p>	<ul style="list-style-type: none"> FPCD: Q3 2015 Data anticipated: 2021
Phase Ib/II NCT03611556	Pancreatic 1L and 2L with prior gemcitabine-based chemotherapy	309	<ul style="list-style-type: none"> Arm A1: gemcitabine and nab paclitaxel i.v. Arm A2: gemcitabine and nab paclitaxel i.v. + oleclumab i.v. Arm A3: gemcitabine and nab paclitaxel i.v. + oleclumab i.v. + <i>Imfinzi</i> i.v. Arm B1: mFOLFOX (oxaliplatin, leucovorin, 5-FU) i.v. Arm B2: mFOLFOX (oxaliplatin, leucovorin, 5-FU) i.v. + oleclumab i.v. Arm B3: mFOLFOX (oxaliplatin, leucovorin, 5-FU) i.v. + oleclumab i.v. + <i>Imfinzi</i> i.v. <p>US, Norway, Spain and Australian trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety and anti-tumour activity <p>Secondary endpoints include PFS, PK, immunogenicity, safety and anti-tumour activity</p>	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: 2021
Phase Ib/II NCT03381274	NSCLC	98	<ul style="list-style-type: none"> Arm A: oleclumab i.v. + <i>Tagrisso</i> <p>US, South Korean and Taiwan trial centres</p>	<p>Primary endpoints:</p> <ul style="list-style-type: none"> Safety ORR <p>Secondary endpoints:</p> <ul style="list-style-type: none"> DoR, DCR, PFS, OS, PK and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: 2021+



AZD9496 (SERD, oral)

Breast cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03236974	ER+ breast cancer	c. 50	<ul style="list-style-type: none">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 ER+, 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.	<ul style="list-style-type: none">Primary outcome measures: PD changes to ER expression following treatment with AZD9496 or <i>Faslodex</i>Secondary outcome measures: pharmacodynamics changes to Ki67 and PgR expression following treatment with AZD9496 or <i>Faslodex</i>Safety, tolerability + pharmacokinetics	<ul style="list-style-type: none">FPCD: Q4 2017Data readout: Q4 2019



AZD9833 (SERD, oral)

Breast cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

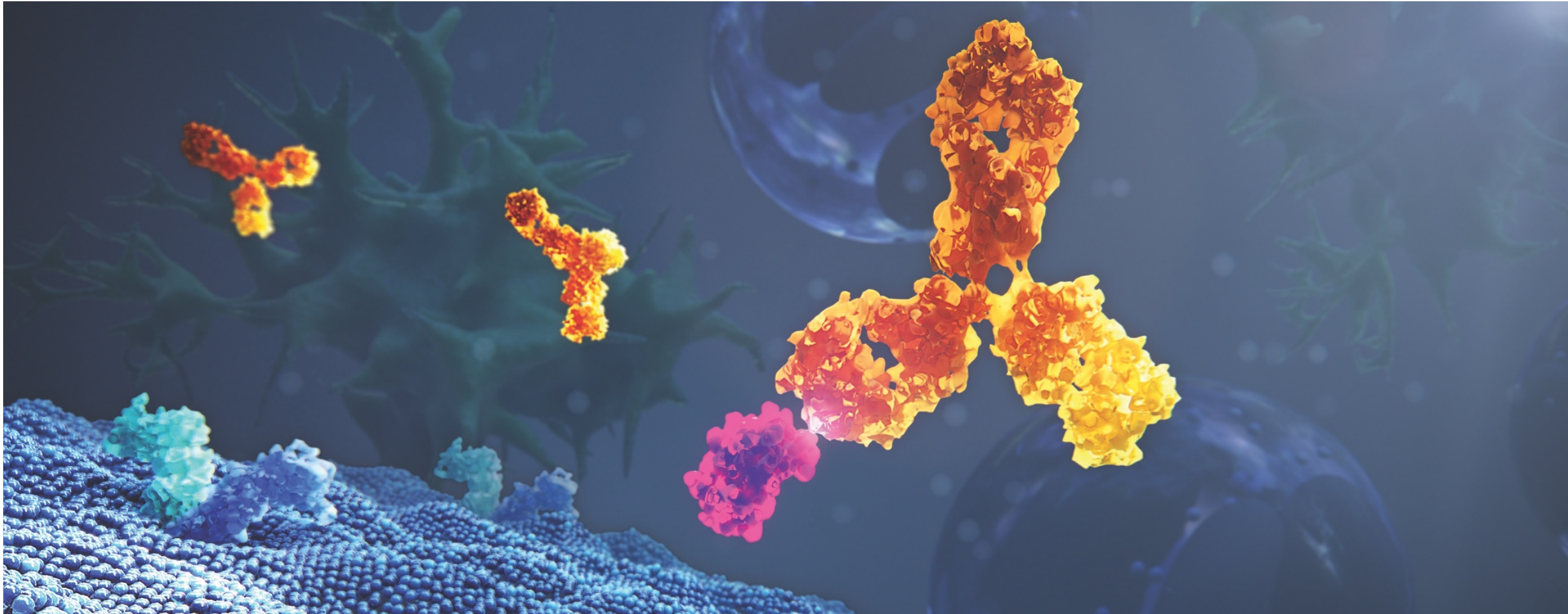
Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03616587	ER+ breast cancer	240	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Primary outcome measures: safety and tolerabilitySecondary outcome measures: multiple dose PK of AZD9833 alone and in combination with palbociclib antitumour activity	<ul style="list-style-type: none">FPCD: Q4 2018



BioPharmaceuticals - approved medicines and late-stage pipeline



Farxiga (SGLT2 inhibitor)

Heart failure and chronic kidney disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III Dapa-HF NCT03036124	CHF patients with HFrEF	4,744	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg or 5 mg QD + SoC therapy Arm 2: placebo + SoC therapy Global trial - 20 countries 	<ul style="list-style-type: none"> Primary endpoint: time to the first occurrence of any of the components of the composite: CV death or hospitalisation for HF or an urgent HF visit 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD Q4 2018 Data readout: Q3 2019 Primary endpoint met
Phase III Dapa-CKD NCT03036150	Patients With CKD	4,000	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg or 5 mg QD Arm 2: placebo Global trial - 21 countries 	<ul style="list-style-type: none"> Primary endpoint: time to the first occurrence of any of the components of the composite: ≥50% sustained decline in eGFR or reaching ESRD or CV death or renal death 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2019 Data anticipated: 2021
Phase III DELIVER NCT03619213	CHF patients with HFpEF	6,100	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg QD Arm 2: placebo Global trial - 21 countries 	<ul style="list-style-type: none"> Primary endpoint: time to the first occurrence of any of the components of the composite: CV death or hospitalisation for HF or an urgent HF visit 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021+
Phase III DETERMINE-preserved NCT03877224	CHF patients with HFpEF	500	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg QD Arm 2: placebo Global trial - 12 countries 	<ul style="list-style-type: none"> Dual primary endpoint: 1) change from baseline in 6 min walking distance at Week 16 2) change from baseline in KCCQ-TSS at Week16 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: H1 2020
Phase III DETERMINE-reduced NCT03877237	CHF patients with HFrEF	300	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg QD Arm 2: placebo Global trial - 9 countries 	<ul style="list-style-type: none"> Primary endpoint: change from baseline in 6 min walking distance at Week 16 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: H1 2020



Brilinta (P2Y12 receptor antagonist)

Cardiovascular risk reduction

Trial	Population	Patients	Design	Endpoints (primary)	Status
Phase III THEMIS NCT01991795	Patients with type-2 diabetes and coronary artery disease without a previous history of MI or stroke	19,000	<ul style="list-style-type: none"> Arm 1: <i>Brilinta</i> 60mg BiD Arm 2: placebo BiD on a background of acetylsalicylic acid if not contra-indicated or not tolerated Global trial – 42 countries	<ul style="list-style-type: none"> Primary endpoint: composite of CV death, non-fatal MI and non-fatal stroke Secondary endpoints: <ul style="list-style-type: none"> Prevention of CV death Prevention of MI Prevention of ischaemic stroke Prevention of all-cause death 	<ul style="list-style-type: none"> FPCD: Q1 2014 LPCD: Q2 2016 Data readout: Q1 2019 Primary endpoint met
Phase III THALES NCT03354429	Patients with acute ischaemic stroke or transient ischaemic attack	11,000	<ul style="list-style-type: none"> Arm 1: <i>Brilinta</i> 90mg BiD Arm 2: placebo BiD on a background of acetylsalicylic acid if not contra-indicated or not tolerated Global trial – 28 countries	<ul style="list-style-type: none"> Primary endpoint: <ul style="list-style-type: none"> Prevention of the composite of subsequent stroke and death at 30 days Secondary endpoints include: <ul style="list-style-type: none"> Prevention of subsequent ischaemic stroke at 30 days Reduction of overall disability at 30 days 	<ul style="list-style-type: none"> FPCD: Q1 2018 LPCD: Q4 2019 Data readout: Q1 2020 Primary endpoint met
Phase III HESTIA3 NCT03615924	Pediatric patients (2-18 years old) with sickle cell disease	182	<ul style="list-style-type: none"> Arm 1: <i>Brilinta</i> 15, 30 or 45mg (dose based on subject weight) Arm 2: placebo Global trial – 18 countries	<ul style="list-style-type: none"> Primary endpoint: the number of vaso-occlusive crisis which is the composite of painful crisis and/or acute chest pain 	<ul style="list-style-type: none"> FPCD: Q3 2018 Data anticipated: 2021



Lokelma (sodium zirconium cyclosilicate)

Hyperkalaemia

Trial	Population	Patients	Design	Endpoints	Status
Phase II/III Dose-response Study in Japan NCT03127644	Hyperkalaemia	103	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Primary endpoint: exponential rate of change in serum potassium 	<ul style="list-style-type: none"> • FPCD: Q2 2017 • LPCD: Q1 2018 • Data readout: Q3 2018 • Primary endpoint met
Phase III NCT03172702 J-LTS	Hyperkalaemia	150	<ul style="list-style-type: none"> • 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 downtitrate to 5g QOD (or 2.5g QD) Japan	<ul style="list-style-type: none"> • Primary endpoint: safety and tolerability as measured by adverse events reporting, vital signs, ECGs, physical examinations and safety laboratory measurements 	<ul style="list-style-type: none"> • FPCD: Q3 2017 • LPCD: Q3 2019 • Data readout: Q3 2019 • Primary endpoint met
Phase IIIb DIALIZE NCT03303521	Patients on haemodialysis with persistent pre-dialysis hyperkalaemia	180	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • FPCD: Q4 2017 • LPCD: Q4 2018 • Data readout: Q1 2019 • Primary endpoint met
Phase II PRIORITIZE HF NCT03532009	Patients with chronic heart failure and hyperkalaemia or at high risk of developing hyperkalaemia	280	<ul style="list-style-type: none"> • Arm 1: <i>Lokelma</i> 5g QD for 12 weeks. Option to uptitrate to 10 and 15g QD or downtitrate to 5g QOD • Arm 2: placebo QD for 12 weeks Global trial – nine countries	<ul style="list-style-type: none"> • Primary endpoint: difference between <i>Lokelma</i> and placebo in RAAS (renin-angiotensin-aldosterone system) blockade treatment. 	<ul style="list-style-type: none"> • FPCD: Q3 2018 • Data readout: H2 2020



Roxadustat (HIF-PH inhibitor)

Anaemia

Trial	Population	Patients	Design	Endpoints	Status
Phase III ANDES NCT01750190 Partnered	Anaemia in CKD in patients not receiving dialysis	922	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: placebo Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> FPCD: Q4 2012 LPCD: Q3 2018 Data readout: Q4 2018 Primary endpoint met Sponsored by FibroGen
Phase III ALPS NCT01887600 Partnered		597	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: placebo Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> FPCD: Q2 2013 LPCD: Q4 2017 Data readout: Q3 2018 Primary endpoint met Sponsored by Astellas
Phase III DOLOMITES NCT02021318 Partnered		616	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: darbepoetin alfa Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> FPCD: Q1 2014 Data anticipated: H1 2020 Sponsored by Astellas
Phase III OLYMPUS NCT02174627		2,781	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: placebo Global trial	<ul style="list-style-type: none"> Primary efficacy endpoint: Haemoglobin response Primary safety objective: Contribute CV safety data to pooled safety analyses across the Phase III program 	<ul style="list-style-type: none"> FPCD: Q3 2014 LPCD: Q4 2018 Data readout: Q4 2018 Primary endpoint met Sponsored by AstraZeneca
Phase III ROCKIES NCT02174731		2,133	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: epoetin alfa Global trial	<ul style="list-style-type: none"> Primary efficacy endpoint: Haemoglobin response Primary safety objective: Contribute CV safety data to pooled safety analyses across the Phase III program 	<ul style="list-style-type: none"> FPCD: Q3 2014 LPCD: Q3 2018 Data readout: Q4 2018 Primary endpoint met Sponsored by AstraZeneca
Phase III SIERRAS NCT02273726 Partnered		741	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: epoetin alfa Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> FPCD: Q4 2014 LPCD: Q3 2018 Data readout: Q4 2018 Primary endpoint met Sponsored by FibroGen
Phase III PYRENEES NCT02278341 Partnered		838	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: epoetin alfa or darbepoetin alfa Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> FPCD: Q4 2014 LPCD: Q3 2018 Data readout: Q3 2018 Primary endpoint met Sponsored by Astellas
Phase III ANDES NCT01750190 Partnered		Anaemia in CKD in patients receiving dialysis	922	<ul style="list-style-type: none"> Arm 1: roxadustat Arm 2: placebo Global trial	<ul style="list-style-type: none"> Primary endpoint: Haemoglobin response



Roxadustat (HIF-PH inhibitor)

Anaemia

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoints	Status
Phase III HIMALAYAS NCT02052310 Partnered	Anaemia in newly initiated dialysis patients	1,043	<ul style="list-style-type: none"> • Arm 1: roxadustat • Arm 2: epoetin alfa Global trial	<ul style="list-style-type: none"> • Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> • FPCD: Q4 2013 • LPCD: Q3 2018 • Data readout: Q4 2018 • Primary endpoint met Sponsored by FibroGen
Phase III NCT03263091 Partnered	Anaemia in lower risk MDS patients	184	Open label roxadustat lead-in Arm 1: roxadustat Arm 2: placebo US/global trial	<ul style="list-style-type: none"> • Primary endpoint: Proportion of patients achieving transfusion independence 	<ul style="list-style-type: none"> • FPCD: Q3 2017 • Data anticipated: 2021 Sponsored by FibroGen
Phase II/III 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"> • Primary endpoint: Haemoglobin response 	<ul style="list-style-type: none"> • FPCD: Q2 2018 • Data anticipated: 2021 Sponsored by FibroGen
Phase II NCT04076943 Partnered	Anemia in patients receiving chemotherapy treatment for non-myeloid malignancies	100	US	<ul style="list-style-type: none"> • Primary endpoint: Maximum change in hemoglobin within 16 weeks from baseline without RBC transfusion 	<ul style="list-style-type: none"> • FPCD: Q3 2019 • Data anticipated: H2 2020 Sponsored by FibroGen

Oncology

CVRM

Respiratory

Other



Eklira/ Tudorza (LAMA, DPI)

COPD

Approved medicines

Late-stage development

Early development

Trial	Population	Number of patients	Design	Endpoints	Status
Phase I NCT03276052	Healthy Chinese subjects	18	Open-label, 2-period ascending dose incomplete block, cross-over trial <ul style="list-style-type: none">• Arm 1: aclidinium bromide 200 µg DPI• Arm 2: aclidinium bromide 400 µg DPI• Arm 3: aclidinium bromide 800 µg DPI Global trial – one Country	<ul style="list-style-type: none">• To investigate the PK of aclidinium bromide and its metabolites after single and multiple doses (BID) of aclidinium bromide 200 µg, 400 µg and 800 µg• To evaluate the safety, and tolerability of aclidinium bromide 200 µg, 400 µg and 800 µg after single and multiple dose administration (BID)	<ul style="list-style-type: none">• FPCD: Q2 2018• Data anticipated: 2021

Oncology

CVRM

Respiratory

Other



Duaklir Genuair (LAMA/LABA, DPI)

COPD

Trial	Population	Patients	Design	Endpoints	Status
Phase III AVANT NCT03022097	Patients with stable COPD	1,060	<ul style="list-style-type: none"> • Arm 1: <i>Duaklir Genuair</i> 400/12 µg DPI • Arm 2: aclidinium bromide 400 µg DPI • Arm 3: formoterol fumarate 12 µg DPI • Arm 4: tiotropium 18 µg DPI <p>Global trial – five countries</p>	Primary endpoints: <ul style="list-style-type: none"> • Change from baseline in one hour morning post-dose dose FEV1 <i>Duaklir Genuair</i> 400/12 µg compared to Acclidinium bromide at Week 24 • Change from baseline in morning pre-dose (trough) FEV1 of <i>Duaklir Genuair</i> 400/12 µg compared to Formoterol fumarate at Week 24 • Change from baseline in trough FEV1 of Acclidinium bromide 400 µg compared to placebo at Week 24 	<ul style="list-style-type: none"> • FPCD: Q1 2017 • Data anticipated: 2021



Breztri (PT010, LAMA/LABA/ICS, pMDI)

COPD

Trial	Population	Patients	Design	Endpoints	Status
Phase III NCT02536508	Moderate to very severe COPD	500	Treatments (52-week treatment period) <ul style="list-style-type: none"> BGF (budesonide, glycopyrronium, and formoterol fumarate) MDI 320/14.4/9.6µg BID pMDI GFF (glycopyrronium and formoterol fumarate) MDI 14.4/9.6µg BID pMDI BFF (budesonide and formoterol fumarate) MDI 320/9.6µg BID pMDI Randomised, double-blind, chronic-dosing, multi-centre Country – US	Primary endpoints: <ul style="list-style-type: none"> 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 Ocular sub-study safety endpoint change from baseline in LOCS III at week 52 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q3 2016 Data readout: Q1 2018 Primary endpoints met
Phase III ETHOS NCT02465567	Moderate to very severe COPD	8,588	Treatments (1-year treatment period) <ul style="list-style-type: none"> BGF MDI 320/14.4/9.6µg BID pMDI BGF MDI 160/14.4/9.6µg BID pMDI BFF MDI 320/9.6µg BID pMDI GFF MDI 14.4/9.6µg BID pMDI Randomised, double-blind, multi-centre and parallel-group Multi-country	<ul style="list-style-type: none"> Primary endpoint: rate of moderate or severe COPD exacerbations Secondary endpoint: time to first moderate or severe COPD exacerbation 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q3 2018 Data readout: Q3 2019 Primary endpoint met
Phase III KRONOS NCT02497001	Moderate to very severe COPD	1,800	Treatments (24-week treatment period) <ul style="list-style-type: none"> BGF MDI 320/14.4/9.6µg BID pMDI GFF MDI 14.4/9.6µg BID pMDI BFF MDI 320/9.6µg BID pMDI <i>Symbicort Turbuhaler</i> 400/12µg BID DPI Randomised, double-blind, parallel-group, and chronic dosing and multi-centre Multi-country	Primary Endpoints: <ul style="list-style-type: none"> FEV₁ area under curve from 0 to 4 hours (AUC₀₋₄) over 24 weeks (BGF MDI vs. BFF MDI and BGF MDI vs. <i>Symbicort Turbuhaler</i>) Change from baseline in morning pre-dose trough FEV₁ over 24 weeks (BGF MDI vs. GFF MDI) TDI focal score over 24 weeks (BGF MDI vs. BFF MDI and BGF MDI vs. GFF MDI) 	<ul style="list-style-type: none"> FPCD: Q3 2015 LPCD: Q2 2017 Data readout: Q1 2018 8/9 Primary endpoints met
Phase III NCT03262012	Moderate to very severe COPD	324	Treatments (28-week treatment period) <ul style="list-style-type: none"> BGF MDI 320/14.4/9.6µg BID pMDI GFF MDI 14.4/9.6µg BID pMDI BFF MDI 320/9.6µg BID pMDI <i>Symbicort Turbuhaler</i> 400/12µg BID DPI Randomised, double-blind, parallel-group, chronic dosing, multicenter Country: Japan	Primary outcome measures: <ul style="list-style-type: none"> Long-term safety and tolerability (52 weeks): adverse events, 12-lead ECG, laboratory tests, vital signs 	<ul style="list-style-type: none"> FPCD Q3 2016 LPCD Q4 2017 Data readout: Q3 2018 Primary safety endpoint met



Daliresp/ Daxas (PDE4 inhibitor, oral)

COPD

Trial	Population	Patients	Design	Endpoints	Status
Post Launch PASS NCT03381573	COPD	124,080	<ul style="list-style-type: none">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).	<ul style="list-style-type: none">Primary endpoint: all-cause mortality (up to five years)	<ul style="list-style-type: none">Data anticipated: 2021+



Fasenra (IL5R mAb)

Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III MELTEMI NCT02808819	A multi-centre, open-label, safety extension trial with <i>Fasenra</i> for asthmatic adults on ICS plus LABA2 Agonist Age 18-75 years	770	<ul style="list-style-type: none"> • Arm 1: <i>Fasenra</i> 30mg Q4W s.c. • Arm 2: <i>Fasenra</i> 30mg Q8W s.c. Global trial - 15 countries	<ul style="list-style-type: none"> • Primary endpoint: safety and tolerability 	<ul style="list-style-type: none"> • FPCD: Q2 2016 • LPCD: Q3 2019 • Data anticipated: H2 2020
Phase IIIb PONENTE NCT03557307	Severe eosinophilic asthmatics receiving HD ICS + LABA and chronic OCS with or without additional asthma controller(s). Age 18 Years and older	600	Arm 1: <i>Fasenra</i> 30mg Q8W s.c. 38-week trial Global trial – 16 countries	<ul style="list-style-type: none"> • Primary endpoint: reduction of oral corticosteroid dose 	<ul style="list-style-type: none"> • FPCD: Q3 2018 • LPCD: Q3 2019 • Data anticipated: H2 2020
D3250C00036 China ICS/LABA Trial (MIRACLE) NCT03186209	Severe, uncontrolled asthma, despite background controller medication, MD & HD ICS + LABA ± chronic OCS Age 12-75 years	666	<ul style="list-style-type: none"> • Arm 1: <i>Fasenra</i> 30mg Q8W s.c. • Arm 2: placebo s.c. 56-week trial Global trial – 4 countries	<ul style="list-style-type: none"> • Primary endpoint: annual asthma exacerbation rate • Secondary endpoints: assess pulmonary function, asthma symptoms, other asthma control metrics 	<ul style="list-style-type: none"> • FPCD: Q4 2017 • Data readout: 2021+



Fasenra (IL5R mAb)

Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III BORA NCT02258542	Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA ± chronic OCS Age 12-75 years	2,550	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. Arm 2: <i>Fasenra</i> 30mg Q8W s.c.* <ul style="list-style-type: none"> placebo administered at select interim visits to maintain blind between treatment arms 56-week (adults) 108-week (adolescents) Global trial – 24 countries	<ul style="list-style-type: none"> Primary endpoint: safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q4 2014 Data readout: Q3 2018 Primary endpoint met
Phase III GREGALE 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"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. 28-week (adults) Global trial – two countries	<ul style="list-style-type: none"> Primary endpoint: functionality, reliability, and performance of a pre-filled syringe with <i>Fasenra</i> administered at home 	<ul style="list-style-type: none"> FPCD: Q2 2015 Data readout: Q2 2016 Primary endpoint met
Phase III ARIA 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"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. Arm 2: placebo s.c. 37-week trial	<ul style="list-style-type: none"> Primary endpoint: safety and tolerability Primary endpoint: the effect of <i>Fasenra</i> on allergen induced eosinophil changes in sputum and allergen-induced late asthmatic response 	<ul style="list-style-type: none"> FPCD Q4 2016 Data anticipated: H1 2020
Phase III ALIZE 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"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. with one dose of seasonal influenza virus vaccine IM at week eight Arm 2: placebo Q4W s.c. with one dose of seasonal influenza virus vaccine intra muscular at week 12-week trial	Primary endpoints: <ul style="list-style-type: none"> Post-dose strain-specific HAI) antibody GMFRs Post-dose strain-specific serum HAI antibody GMTs 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 	<ul style="list-style-type: none"> FPCD: Q3 2016 Data readout: Q3 2017 Primary endpoint met



Fasenra (IL5R mAb)

Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III GRECO NCT02918071	Severe asthma on ICS-LABA Age 18-75 years	120	Open label <i>Fasenra</i> 30mg Q4w 28-week trial Global trial - two countries	<ul style="list-style-type: none"> Primary endpoint: percentage of patients/caregivers who successfully self administer at home 	<ul style="list-style-type: none"> FPCD: Q4 2016 Data readout: Q4 2017 Primary endpoint met
Phase IIIb ANDHI NCT03170271	A multi-centre, randomised, double-blind, parallel group, placebo controlled, Phase IIIb trial to evaluate the safety and efficacy of <i>Fasenra</i> 30 mg s.c. in patients with severe asthma uncontrolled on SoC treatment. Age 18-75	800	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q8W s.c. Arm 2: placebo s.c. 24-week trial Global trial – 15 countries	<ul style="list-style-type: none"> Primary endpoint: rate of asthma exacerbations Secondary outcome measures: Saint George Respiratory Questionnaire (SGRQ) 	<ul style="list-style-type: none"> FPCD: Q3 2017 LPD: Q1 2019 Data readout: Q4 2019 Primary endpoint met
Phase I AMES NCT02968914	Healthy volunteers age 18-55 years	162	Open label trial to compare 30 mg <i>Fasenra</i> PK administered by APFS or AI device 8-week trial Global trial – two countries	<ul style="list-style-type: none"> Primary endpoint: PK comparability 	<ul style="list-style-type: none"> FPCD: Q1 2017 Data readout: Q3 2017



Fasenra (IL5R mAb)

Nasal polyposis, other

Trial	Population	Patients	Design	Endpoints	Status
Phase III OSTRO NCT03401229	Patients with severe bilateral nasal polyposis who are still symptomatic despite standard of care therapy Age 18-75 years	400	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q8W s.c. Arm 2: placebo s.c. 56-week trial Global trial- 8 countries	<ul style="list-style-type: none"> Primary endpoint: effect of <i>Fasenra</i> on nasal polyp burden and on patient reported nasal blockage 	<ul style="list-style-type: none"> FPCD: Q1 2018 LPCD: Q2 2019 Data anticipated: H2 2020
Phase III ORCHID NCT04157335	Patients with eosinophilic chronic rhinosinusitis with severe nasal polyposis Age 18-75 years	148	Arm 1: <i>Fasenra</i> 30mg Q8W s.c. Arm 2: placebo Q8W s.c. 56-week trial Asian countries (4 countries)	<ul style="list-style-type: none"> Primary endpoint: Change in endoscopic total nasal polyp score and Change in mean nasal blockage score 	<ul style="list-style-type: none"> FPCD: Q4 2019 Data anticipated: 2021+
Phase III MANDARA NCT04157348	Patients with relapsing or refractory EGPA on corticosteroid therapy with or without stable immunosuppressive therapy Age 18 years and older	140	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. Arm 2: mepolizumab 300mg Q4W s.c. 52-week trial with a minimum 1 year open label extension Global trial- 9 countries	<ul style="list-style-type: none"> Primary endpoint: Proportion of patients achieving remission (BVAS=0 and OCS dose \leq 4mg/day) at both weeks 36 and 48. 	<ul style="list-style-type: none"> FPCD: Q4 2019 Data anticipated: 2021+
Phase III NATRON NCT04191304	Patients with HES (history of persistent eosinophilia >1500 cells/ μ L with evidence of end organ manifestations attributable to eosinophilia) and signs or symptoms of HES worsening/flare at Visit 1 Age 12 years and older	120	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. Arm 2: placebo Q4W s.c. 24-week trial with a minimum 1 year open label extension Global trial- 9-12 countries	<ul style="list-style-type: none"> Primary endpoint: Time to first HES worsening/flare. 	<ul style="list-style-type: none"> FPCD: Q4 2019 Data anticipated: 2021+
Phase III MESSINA	Documented diagnosis of EoE Age 12 to 65 years	170	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. Arm 2: placebo Q4W s.c. 24-week double blind treatment period and open label period(s)	<ul style="list-style-type: none"> Primary endpoints: Histologic response at week 24 Change from baseline in DSQ score at week 24 	<ul style="list-style-type: none"> Initiating Data anticipated: 2021+



Fasenra (IL5R mAb)

COPD

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoints	Status
Phase III RESOLUTE NCT04053634	Patients with moderate to very severe COPD with a history of frequent exacerbations on a background triple therapy (ICS/LABA/LAMA) Age 40-85 years	1216	<ul style="list-style-type: none">• Double-blind, placebo controlled, single dose (100mg q8w)• 56-week treatment• Global trial	<ul style="list-style-type: none">• Primary endpoint: annualized rate of moderate or severe exacerbations over 56 weeks	<ul style="list-style-type: none">• FPCD Q4 2019• Data anticipated: 2021+

Oncology

CVRM

Respiratory

Other



PT027 (SABA/ICS, pMDI)

Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III MANDALA NCT03769090 Managed by Avillion	Moderate to severe asthma	3,100	Treatments (minimum 24-week treatment period) <ul style="list-style-type: none"> • BDA (budesonide albuterol) MDI 80/180 µg prn • BDA MDI 160/180 µg prn • AS (albuterol sulphate) MDI 180 µg prn Randomised, double-blind, multi-centre, parallel group Multi-country	Primary endpoint: <ul style="list-style-type: none"> • Time to first severe asthma exacerbation Secondary endpoints: <ul style="list-style-type: none"> • Severe exacerbation rate (annualised) • Total corticosteroid exposure over the treatment period • Asthma Control Questionnaire -5 change from baseline and responder analysis at Week 24 • Asthma quality of life questionnaire for 12 years and older/pediatric asthma quality of life questionnaire change from baseline and responder analysis at week 24 	<ul style="list-style-type: none"> • FPCD: Q4 2018 • Data anticipated: 2021
Phase III DENALI Managed by Avillion	Mild to moderate asthma	600	Treatments (12 week treatment period) <ul style="list-style-type: none"> • BDA MDI 80/180 µg QID • BDA MDI 160/180 µg QID • BD MDI 160 µg QID • AS MDI 180 µg QID • placebo MDI QID Randomised, double-blind, multi-centre and parallel-group Multi-country	Dual primary endpoints: <ul style="list-style-type: none"> • Change from baseline in FEV1 AUC0-6 hours over 12 weeks • Change from baseline in trough FEV1 at week 12 	<ul style="list-style-type: none"> • FPCD: Q2 2019 • Data anticipated: H2 2020
Phase III TYREE Managed by Avillion	Asthma with exercise induced bronchoconstriction	60	Treatments (single dose) <ul style="list-style-type: none"> • BDA MDI 160/180 µg • placebo MDI QID Randomised, double-blind, multi-centre crossover Country: US	Primary endpoint: <ul style="list-style-type: none"> • The maximum percentage fall from post-dose, pre-exercise baseline in forced expiratory volume in 1 second (FEV1) observed up to 60 minutes post-exercise challenge 	<ul style="list-style-type: none"> • FPCD Q1 2019 • Data anticipated: H2 2020



Tezepelumab (TSLP mAb)

Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III NAVIGATOR NCT03347279 Partnered	Severe asthma Age 12-80 years	1,061	<ul style="list-style-type: none"> Arm 1: tezepelumab s.c. Arm 2: placebo s.c. 52 week trial Global trial – 18 countries	<ul style="list-style-type: none"> Primary endpoint: Annual asthma exacerbation rate Secondary endpoints: Change from baseline in pre-BD FEV1, asthma related QoL (AQLQ(S)+12), asthma control (ACQ-6) 	<ul style="list-style-type: none"> FPCD: Q1 2018 LPCD: Q3 2019 Data anticipated: H2 2020
Phase III SOURCE NCT03406078 Partnered	Severe asthma Age 18-80 years	150	<ul style="list-style-type: none"> Arm 1: tezepelumab s.c. Arm 2: placebo s.c. 48 week trial Global trial – seven countries	<ul style="list-style-type: none"> Primary endpoint: Reduction from baseline in daily OCS dose while not losing asthma control Secondary endpoint: Annual asthma exacerbation rate 	<ul style="list-style-type: none"> FPCD: Q2 2018 LPCD: Q4 2019 Data anticipated: H2 2020
Phase III DESTINATION NCT03706079 Partnered	Severe asthma Age 12-80 years	~975	<ul style="list-style-type: none"> Arm 1: tezepelumab s.c. Arm 2: placebo s.c. Extension Study to NAVIGATOR and SOURCE. 52 week trial (subjects from NAVIGATOR); 56 week trial (subjects from SOURCE) Global trial – ~ 20 countries	<ul style="list-style-type: none"> Primary endpoint: Exposure adjusted rates of AEs/SAEs Secondary endpoints: Annual asthma exacerbation rate 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2021+
Phase III PATH-HOME NCT03968978 Partnered	Severe asthma Age 12-80 years	216	<ul style="list-style-type: none"> Arm 1: tezepelumab s.c. via autoinjector (AI) Arm 2: tezepelumab s.c. via accessorized pre-filled syringe (APFS) 24 week trial Global trial – 4 countries	Primary endpoint: Proportion of health care professionals and subjects /caregivers who successfully administrated tezepelumab in clinic and at home with an APFS or an AI, respectively	<ul style="list-style-type: none"> FPCD: Q2 2019 LPCD: Q3 2019 Data anticipated: H2 2020



Tezepelumab (TSLP mAb)

Severe, uncontrolled asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase II CASCADE NCT03688074 Partnered	Severe asthma Age 18-75 years	116	<ul style="list-style-type: none"> • Arm 1: tezepelumab s.c. • Arm 2: placebo s.c. 28 week trial Global trial – five countries	<ul style="list-style-type: none"> • Primary endpoint: number of airway submucosal inflammatory cells/mm² of bronchoscopic biopsies 	<ul style="list-style-type: none"> • FPCD: Q4 2018 • LPCD: Q4 2019
Phase III DIRECTION NCT03927157 Partnered	Severe asthma Age 18-80 years	396	<ul style="list-style-type: none"> • Arm 1: tezepelumab s.c. • Arm 2: placebo s.c. 52 week trial Regional Asia study – three countries	<ul style="list-style-type: none"> • Primary endpoint: Annual asthma exacerbation rate • Secondary endpoints: Change from baseline in pre-BD FEV₁, asthma related QoL (AQLQ(S)+12), asthma control (ACQ-6) 	<ul style="list-style-type: none"> • FPCD: Q3 2019
Phase III NOZOMI NCT04048343 Partnered	Severe asthma 12-80 years	66	Arm 1: tezepelumab s.c. 52 week trial Local study - Japan	<ul style="list-style-type: none"> • Primary endpoint: Number of subjects with adverse events 	<ul style="list-style-type: none"> • FPCD: Q2 2019



Tezepelumab (TSLP mAb)

Atopic dermatitis, COPD

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb NCT03809663 Partnered	Patients with chronic atopic dermatitis	300	A dose-ranging, double-blind, placebo-controlled study to evaluate the safety and efficacy of tezepelumab alone or combined with topical corticosteroids in moderate-to-severe atopic dermatitis <ul style="list-style-type: none"> • Arm 1: tezepelumab HD, s.c. Q2W • Arm 2: tezepelumab MD, s.c. Q4W • Arm 3: tezepelumab LD, s.c. Q2W • Arm 4: placebo, s.c. Q2W or Q4W 	The effect of tezepelumab compared with placebo, assessed using the IGA and EASI	<ul style="list-style-type: none"> • FPCD: Q1 2019 • Data anticipated: 2021
Phase IIa COURSE NCT04039113 Partnered	Moderate to very severe COPD Age 40-80	282	<ul style="list-style-type: none"> • Arm 1: tezepelumab s.c. • Arm 2: placebo s.c. 52 week trial Global trial – 10 countries	<ul style="list-style-type: none"> • Primary endpoint: Rate of moderate or severe COPD exacerbations 	<ul style="list-style-type: none"> • FPCD Q3 2019 • Data anticipated: 2021+



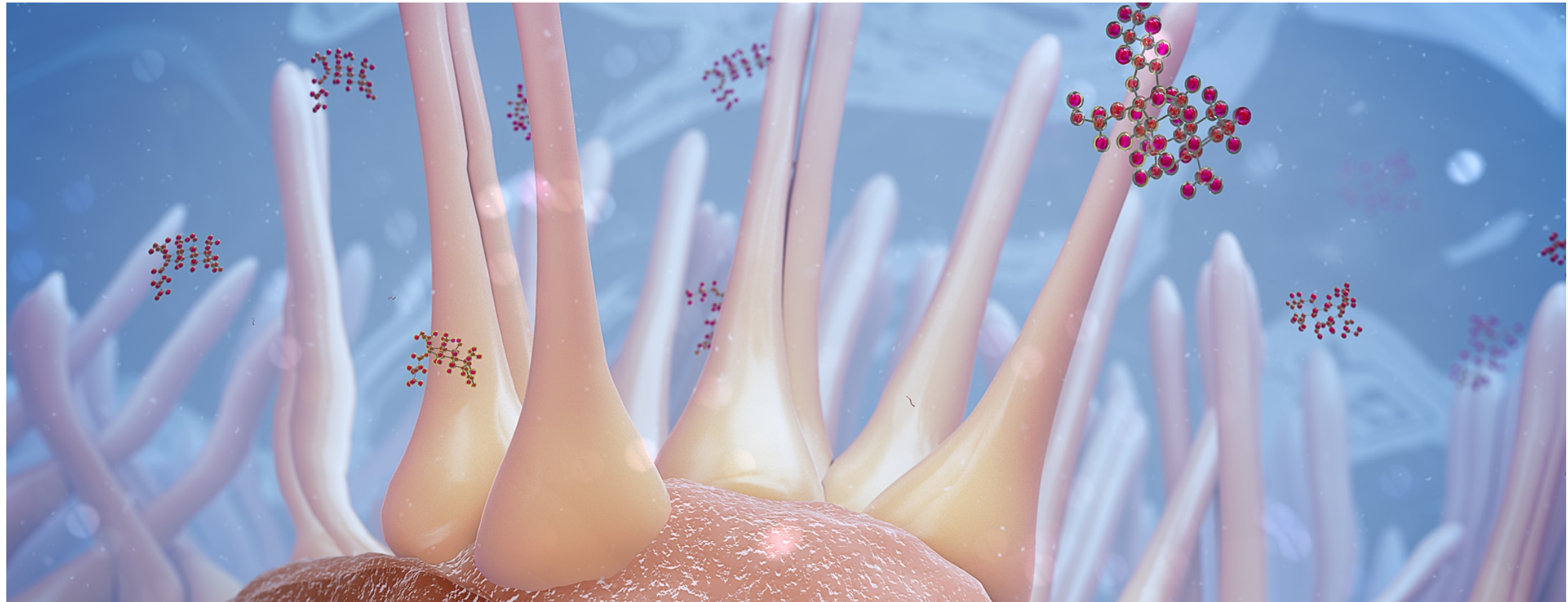
Anifrolumab (type I interferon receptor mAb)

Lupus (SLE / LN)

Trial	Population	Patients	Design	Endpoints	Status
Phase III TULIP SLE 1 NCT02446912	Moderate to severe SLE	450	<ul style="list-style-type: none"> Arm 1: 300mg i.v. anifrolumab Q4W for 48 weeks Arm 2: 150mg i.v. anifrolumab Q4W for 48 weeks Arm 3: placebo i.v. Q4W for 48 weeks 	<ul style="list-style-type: none"> Primary endpoint: response in SLE responder index at week 52 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q4 2017 Data readout: Q3 2018 Primary endpoint not met
Phase III TULIP SLE 2 NCT02446899	Moderate to severe SLE	360	<ul style="list-style-type: none"> Arm 1: 300mg i.v. anifrolumab Q4W for 48 weeks Arm 2: placebo i.v. Q4W for 48 weeks 	<ul style="list-style-type: none"> Primary endpoint: response in SLE responder index at week 52 BICLA at week 52 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q4 2017 Data readout: Q3 2019 Primary endpoint met
Phase III TULIP LTE NCT02794285	Moderate to severe SLE	630	<ul style="list-style-type: none"> Arm 1: 300mg i.v. anifrolumab Q4W for 152 weeks Arm 2: placebo i.v. Q4W for 152 weeks 	<ul style="list-style-type: none"> Primary endpoint: extension to evaluate long-term safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q2 2016 LPCD: Q4 2018 Data anticipated: 2021+
Phase II NCT01438489	Moderate to severe SLE patients	307	<ul style="list-style-type: none"> Arm 1: 300mg i.v. anifrolumab Q4W for 48 weeks Arm 2: 1000mg i.v. anifrolumab Q4W for 48 weeks Arm 3: placebo i.v. Q4W for 48 weeks 	<ul style="list-style-type: none"> Primary endpoint: response in SLE responder index at 6 months 	<ul style="list-style-type: none"> FPCD: Q1 2012 LPCD: Q1 2015 Data readout: Q3 2014
Phase II NCT01753193	Moderate to severe SLE patients	218	<ul style="list-style-type: none"> Arm 1: anifrolumab, i.v. Q4W for 104 weeks 	<ul style="list-style-type: none"> Primary endpoint: open-label extension to evaluate long-term safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q1 2013 Data readout: Q4 2018
Phase II NCT02962960	Moderate to severe SLE patients	32	<ul style="list-style-type: none"> Arm 1: 150mg s.c. every other week Arm 2: 300mg s.c. every other week Arm 3: placebo s.c. every other week 	<ul style="list-style-type: none"> PK/PD, safety, tolerability, primary analysis at week 12, secondary analysis at week 52 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q4 2017 Data readout: Q1 2018
Phase II TULIP-LN1 NCT02547922	Active Proliferative LN	150	<ul style="list-style-type: none"> Arm 1: 900 mg i.v. Q4W for 12 weeks then 300mg i.v. anifrolumab Q4W for 36 weeks Arm 2: 300 mg i.v. anifrolumab Q4W for 48 weeks Arm 3: placebo i.v. Q4W for 48 weeks 	<ul style="list-style-type: none"> Response in proteinuria at week 52 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q4 2018 Data anticipated: 2021



BioPharmaceuticals - early-stage development



Cotadutide (MEDI0382, GLP-1-glucagon agonist)

Diabetes/obesity

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT03244800	Adults with type-2 diabetes	65	<ul style="list-style-type: none"> • Arm1: cotadutide s.c. or placebo • Arm2: cotadutide s.c. or placebo • Germany 	<ul style="list-style-type: none"> • Primary: efficacy MMT glucose AUC, body weight loss • Secondary: efficacy HbA1c, fasting plasma glucose • Secondary: safety profile in terms of adverse events, heart rate, blood pressure, vital signs, ECG, lab variables 	<ul style="list-style-type: none"> • FPCD: Q3 2017 • LPCD: Q4 2017 • Data readout: Q1 2018
Phase II NCT03235050	Overweight and Obese subjects with type-2 diabetes	834	<ul style="list-style-type: none"> • Arm1: cotadutide low dose s.c. + metformin • Arm2: cotadutide mid dose s.c. + metformin • Arm3: cotadutide high dose s.c. + metformin • Arm4: placebo s.c. + metformin • Arm5: liraglutide s.c. + metformin <p>US, Canada, Bulgaria, Czech Rep, Germany, Mexico, Russia, Slovakia</p>	<ul style="list-style-type: none"> • Primary: efficacy HbA1c, body weight loss • Secondary: percentage of subjects achieving weight loss of $\geq 5\%$ and $\geq 10\%$ • Secondary: proportion of subjects rescued or discontinued for lack of glycaemic control • Secondary: PK and immunogenicity 	<ul style="list-style-type: none"> • FPCD: Q3 2017 • LPCD: Q1 2018 • Data readout Q3 2019
Phase II NCT03444584	Overweight/obese subjects with type-2 diabetes	49	<ul style="list-style-type: none"> • Arm1: cotadutide + dapagliflozin • Arm2: placebo + dapagliflozin • Germany, Hungary 	<ul style="list-style-type: none"> • Primary: efficacy MMT glucose AUC • Secondary: safety • Secondary: PK • Secondary: immunogenicity 	<ul style="list-style-type: none"> • FPCD: Q3 2018 • LPCD: Q4 2018 • Data readout: Q1 2019
Phase II NCT03550378	Adults with type-2 diabetes and renal impairment	41	<ul style="list-style-type: none"> • Cotadutide or placebo s.c. • Germany, UK 	<ul style="list-style-type: none"> • Primary: efficacy MMT glucose AUC • Secondary: safety • Secondary: tolerability • Secondary: PK • Secondary: immunogenicity 	<ul style="list-style-type: none"> • FPCD Q2 2018 • LPCD: Q4 2018 • Data readout: Q1 2019
Phase II NCT03555994	Adults with type-2 diabetes	44	<ul style="list-style-type: none"> • Part A: cotadutide or placebo s.c. • Part B: cotadutide s.c. or placebo s.c. or liraglutide s.c. • Sweden 	<ul style="list-style-type: none"> • Primary: change in hepatic glycogen concentration postprandially, adjusted by liver volume • Secondary: safety • Secondary: tolerability • Secondary: immunogenicity 	<ul style="list-style-type: none"> • FPCD: Q2 2018 • Part A LPCD: Q4 2018 • Data readout: Q1 2019



Cotadutide (MEDI0382, GLP-1-glucagon agonist)

Diabetes/obesity, NASH

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT03596177	Overweight and obese subjects with type-2 diabetes	27	<ul style="list-style-type: none"> Cotadutide or placebo s.c. UK 	<ul style="list-style-type: none"> Primary: efficacy body weight loss Secondary: change in total energy intake Secondary: change in total energy expenditure, active energy expenditure, resting energy expenditure Secondary: safety 	<ul style="list-style-type: none"> FPCD: Q4 2018 LPCD: Q4 2019
Phase I NCT03625778	Non-diabetic obese subjects	51	<ul style="list-style-type: none"> Cotadutide or placebo s.c. with 7 week, 10 week or 16 week titration period US 	<ul style="list-style-type: none"> Primary: safety, tolerability Secondary: PK Secondary: immunogenicity 	<ul style="list-style-type: none"> FPCD: Q3 2018 LPCD: Q2 2019
Phase II NCT03745937	Overweight and obese subjects with type-2 diabetes	20	<ul style="list-style-type: none"> Cotadutide or placebo s.c. Germany 	<ul style="list-style-type: none"> Primary: safety, tolerability Secondary: PK Secondary: immunogenicity Secondary: glucose control 	<ul style="list-style-type: none"> FPCD: Q1 2019 LPCD: Q2 2019 Data readout: Q3 2019
Phase II NCT03645421	Japanese preobese or obese subjects with type-2 diabetes	61	<ul style="list-style-type: none"> MAD s.c. administration Japan 	<ul style="list-style-type: none"> Primary: safety, glucose AUC, body weight Secondary: HbA1c, FPG, fructosamine Secondary: glucose control Secondary: PK, immunogenicity 	<ul style="list-style-type: none"> FPCD: Q3 2018 LPCD: Q3 2018 Data readout: Q2 2019
Phase II NCT04019561	Obese subjects with non-alcoholic fatty liver disease (NAFLD)/non-alcoholic steatohepatitis (NASH)	72	<ul style="list-style-type: none"> Arm1: cotadutide high dose s.c. Arm2: placebo high dose s.c. Arm3: cotadutide low dose s.c. Arm4: placebo low dose s.c. US 	<ul style="list-style-type: none"> Primary: safety and tolerability Secondary: change in hepatic fat fraction, Secondary: change in liver fat volume Secondary: change in visceral adipose tissue 	<ul style="list-style-type: none"> FPCD: Q4 2019
Phase I NCT04091373	Healthy adult subjects	36		<ul style="list-style-type: none"> Primary: to evaluate exposure following a single s.c of cotadutide at each of 3 different sites of injection Secondary: immunogenicity Secondary: safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q4 2019



Verinurad (RDEA3170, URAT1 inhibitor)

CKD

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT03118739	CKD patients with hyperuricaemia, albuminuria, and Type 2 diabetes	60	<ul style="list-style-type: none"> Arm A: verinurad 9 mg and febuxostat 80 mg Arm B: placebo The trial is a multi-centre trial conducted in the US	To assess the effects of intensive uric acid lowering therapy with RDEA3170 and febuxostat on UACR	<ul style="list-style-type: none"> FPCD: Q2 2017 LPCD: Q3 2018 Data readout: Q4 2018
Phase II NCT03316131	Asymptomatic hyperuricaemic subjects (sUA (serum uric acid levels) > 6.0 mg/dL)	36	<ul style="list-style-type: none"> Arm A: 9 mg verinurad + 80 mg febuxostat + 10 mg dapagliflozin Arm B: 9 mg verinurad + 80 mg febuxostat + placebo The trial is a two-centre trial conducted in the US	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.	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q3 2018 Data readout: Q4 2019
Phase II	Healthy volunteers of Asian descent	23	<ul style="list-style-type: none"> Arm A: verinurad 24 mg + allopurinol 300 mg Arm B: verinurad 12 mg + allopurinol 300 mg Arm C: placebo This trial is a single centre study conducted in the US	Safety analyses (AEs, ECG abnormalities, vital sign abnormalities, laboratory abnormalities) PK outcomes (AUC, C _{max} , t _{max})	<ul style="list-style-type: none"> FPCD: Q1 2019 LPCD: Q2 2019 Data readout: Q3 2019



AZD2693 (resolution of NASH)

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

NASH

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04142424	Healthy subjects	48	SAD 6 cohorts with 6 subjects receiving AZD2693 and 2 subjects receiving placebo in each cohort Route of administration: subcutaneous injections Trial conducted in the US.	Primary: • Safety and tolerability Secondary; • PK	<ul style="list-style-type: none">• FPCD: Q4 2019• Data anticipated: H2 2020



MEDI3506 (IL33 ligand mAb)

Diabetic Kidney Disease (DKD)

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT04170543	Adult subjects with diabetic kidney disease	168	Randomized, double-blind, placebo-controlled, multicenter study to evaluate the efficacy, safety, PK, and immunogenicity of MEDI3506 in adult subjects with diabetic kidney disease	<ul style="list-style-type: none">Efficacy and safety	<ul style="list-style-type: none">FPCD: Q4 2019



AZD4831 (MPO inhibitor)

Cardiovascular disease

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02712372	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	<ul style="list-style-type: none"> Safety and tolerability PK parameters 	<ul style="list-style-type: none"> FPCD: Q3 2016 LPCD: Q4 2016 Data readout Q2 2017
Phase I NCT03136991	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	<ul style="list-style-type: none"> Safety and tolerability PK parameters 	<ul style="list-style-type: none"> FPCD: Q2 2017 LPCD: Q4 2017 Data readout: Q1 2018
Phase IIa NCT03756285	HFpEF	96	Arm 1: AZD4831 Arm 2: placebo Global trial – five countries	<ul style="list-style-type: none"> Primary endpoint: The change from baseline in MPO activity in % after AZD4831 treatment 	<ul style="list-style-type: none"> FPCD: Q4 2018



AZD5718 (FLAP inhibitor)

Cardiovascular disease

Trial	Population	Patients	Design	Endpoints	Status
Phase IIa NCT03317002	CAD	138	<ul style="list-style-type: none"> • Arm 1: AZD5718 Dose A • Arm 2: AZD5718 Dose B • Arm 3: placebo <p>Global trial – three countries in Europe</p>	<ul style="list-style-type: none"> • Primary endpoint: PD effect of AZD5718 by assessment of u-LTE4 	<ul style="list-style-type: none"> • FPCD: Q4 2017
Phase I NCT03948451	Healthy subjects	6	<p>hADME trial (one trial site in UK)</p> <ul style="list-style-type: none"> • Oral administration <p>Open-label study to characterize the absorption, distribution, metabolism and excretion following a single oral dose of [14C]AZD5718 in healthy male volunteers</p>	<ul style="list-style-type: none"> • Mass balance, with routes and rates of elimination of [14C]AZD5718. • Metabolite profiling and structural identification • PK and total radioactivity 	<ul style="list-style-type: none"> • FPCD: Q2 2019 • LPCD: Q2 2019
Phase I NCT04087187	Healthy subjects	14	<p>BA trial (one trial site in UK)</p> <p>An open-label, randomized, 3-period, 3-treatment, crossover study to assess the drug absorption into the blood after administration of 3 doses of AZD5718</p>	<ul style="list-style-type: none"> • To evaluate the pharmacokinetics and exposure of 3 different doses of AZD5718 • Safety and tolerability 	<ul style="list-style-type: none"> • FPCD: Q4 2019 • LPCD: Q4 2019



AZD6615 (anti-hypercholesterolemia)

Hypercholesterolemia

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04055168	Healthy subjects	40	SAD 3 cohorts of non-Asian subjects (Part 1) and 2 cohorts of Japanese subjects (Part 2). 6 subjects receiving AZD6615 and 2 subjects receiving placebo in each cohort. Trial conducted in the US.	Primary: • Safety and tolerability Secondary; • PK and PD parameters	• FPCD: Q3 2019



MEDI7219 (anti-diabetic)

Diabetes

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03362593	Healthy Volunteers	130	<ul style="list-style-type: none">• 5 part trial• Part A : SAD• Part B, C & E : open label, single dose studies• Part D : MAD	<ul style="list-style-type: none">• Safety and tolerability• Pharmacokinetics	<ul style="list-style-type: none">• FPCD: Q1 2018• Data anticipated: H1 2020



AZD8233 (anti-hypercholesterolemia)

Hypercholesterolemia

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03593785	Healthy subjects	56	SAD 7 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	<ul style="list-style-type: none">• FPCD: Q3 2018• LPCD: Q3 2019



AZD8601 (VEGF-A modified RNA)

Cardiovascular disease

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



Heart failure with preserved ejection fraction

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03435276	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: • Safety and tolerability Secondary; • PK parameters	<ul style="list-style-type: none"> • FPCD: Q1 2018 • LPCD: Q2 2018 • Data readout: Q3 2018
Phase I NCT03450759	Healthy subjects	12	Bioavailability trial Investigation of four different oral formulations of AZD9977 and influence of food. Trial conducted in the UK.	Primary: • relative bioavailability vs. oral suspension (reference) • PK parameters	<ul style="list-style-type: none"> • FPCD: Q2 2018 • LPCD: Q2 2018 • Data readout: Q3 2018
Phase I NCT03682497	HFpEF	60	Proof of differentiation To compare the effect of AZD9977 with spironolactone on serum potassium	Primary: • serum potassium	<ul style="list-style-type: none"> • FPCD Q4 2018 • LPCD Q1 2019
Phase I NCT03843060	Healthy subjects	14	DDI To assess the effect of itraconazole on the pharmacokinetics of AZD9977 Trial conducted in the US	Primary: • PK parameters Secondary; • Safety and tolerability	<ul style="list-style-type: none"> • FPCD: Q1 2019 • LPCD: Q1 2019 • Data readout: Q3 2019
Phase I NCT03801967	Healthy subjects	45	JSMAD Single and multiple-ascending dose administration in Japanese healthy volunteers. Trial conducted in the UK	Primary: • Safety and tolerability Secondary; • PK parameters	<ul style="list-style-type: none"> • FPCD: Q1 2019 • LPCD: Q2 2019 • Data readout: Q3 2019
Phase I NCT03804645	Healthy subjects	12	Bioavailability trial Investigation of four different oral formulations of AZD9977 and influence of food. Trial conducted in the UK	Primary: • relative bioavailability vs. capsule formulation (reference) • PK parameters	<ul style="list-style-type: none"> • FPCD: Q1 2019 • LPCD: Q2 2019 • Data readout: Q3 2019



Biologics

Cardiovascular & metabolic diseases

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Compound	Population	Patients	Design	Endpoints	Status
Phase IIb EudraCT 2017-004521-32	MEDI6012 rhLCAT	Subjects 30-80 years of age inclusive, presenting with acute STEMI	414	<ul style="list-style-type: none"> 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.v. push. 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 i.v. push. 	Primary endpoints: Infarct size as a percentage of left ventricle (LV) mass at 10-12 weeks post-MI (myocardial infarction) compared to placebo Secondary endpoints: <ul style="list-style-type: none"> Ejection Fraction at 10-12 weeks post-MI compared to placebo. Change in NCPV in the coronary arteries from at 10-12 weeks post-MI compared with placebo Myocardial mass and LV volumes at end-systole and end-diastole Incidence of TEAEs and treatment-emergent SAEs. LCAT mass and ADAs 	<ul style="list-style-type: none"> FPCD: Q2 18 Data anticipated: 2021+
Phase IIa NCT03351738	MEDI5884 cholesterol modulation	Adults with stable CHD	133	<ul style="list-style-type: none"> MEDI5884 (5 dose cohorts) vs. placebo in stable CHD patients 	<ul style="list-style-type: none"> Safety profile in terms of AEs, vital signs, ECG, lab variables Changes in HDL-C over time PK, immunogenicity, and Apolipoprotein B 	<ul style="list-style-type: none"> FPCD Q4 2017 Data readout: Q4 2018
Phase I NCT03654313	MEDI6570	Atherosclerotic cardiovascular disease	88	<ul style="list-style-type: none"> SAD followed by multi ascending dose with 3 monthly doses in T2DM subjects 	<ul style="list-style-type: none"> Primary endpoints: Safety and tolerability 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2021



AZD0449 (inhaled JAK-1 inhibitor)

Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03766399	Healthy subjects and patients with mild asthma	156	SAD/MAD/Bridge trial (UK) Part 1 SAD <ul style="list-style-type: none"> Dose escalation in 6 cohorts with 6 subjects receiving AZD0449 and 2 subjects receiving placebo in each cohort i.v. cohort with 8 subjects Part 2 MAD: <ul style="list-style-type: none"> 3 cohorts of (6, 6, 18) subjects receiving three different doses of AZD0449 and (3,3, 12) subjects receiving placebo in each cohort Part 3 bridge <ul style="list-style-type: none"> 18 subjects will receive AZD0449 and 6 subjects receiving placebo Trial conducted in the UK	Primary endpoint: <ul style="list-style-type: none"> Safety and tolerability Secondary endpoint: <ul style="list-style-type: none"> PK parameters FENO 	<ul style="list-style-type: none"> FPCD: Q4 2018



AZD1402 (IL4 receptor antagonist)

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib NCT03574805 Partnered	Patients with mild asthma	75	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 Australia	Primary endpoint: <ul style="list-style-type: none">• Safety and tolerability Secondary endpoint: <ul style="list-style-type: none">• PK parameters• Potential immunogenicity• Change in FENO	<ul style="list-style-type: none">• FPCD: Q3 2018



MEDI3506 (IL33 ligand mAb)

COPD, atopic dermatitis

Trial	Population	Patients	Design	Endpoints	Status
Phase I (Combined SAD / MAD) NCT03096795	SAD: healthy subjects with mild atopy J-SD: healthy Japanese subjects MAD: GOLD I-II COPD	SAD: 56 J-SD: 8 MAD: 24	SAD: • 7 sequential placebo-controlled single dose cohorts by either SC or IV route (active N=6 / placebo N = 2 within each cohort) J-SD: • single placebo-controlled single dose cohort by IV route (active N=6 / placebo N = 2 within cohort) MAD: • 3 sequential placebo-controlled multiple dosing cohorts by SC route (active N=6 / placebo N = 2 within each cohort) Conducted in UK	• Safety and tolerability	• FPCD: Q2 2017 • LPCD: Q2 2019 • Data anticipated: H1 2020
Phase II NCT04212169	Adult subjects with atopic dermatitis	108	Randomised, blinded, placebo-controlled trial to determine the efficacy and safety of different strengths of MEDI3506 by SC route Conducted in US, Australia, Germany & Poland	• Efficacy and safety	• FPCD: Q4 2019



AZD7594 (SGRM, inhaled)

Asthma

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03976869	Adolescent asthma patients	24	An open-label, multi-centre, Phase I study to assess the PK, PD and safety of 2-week treatment with inhaled AZD7594 in adolescents (12 to 17 Years) with asthma	Primary endpoint: <ul style="list-style-type: none">• PK, safety and tolerability following 2 weeks treatment with AZD7594 Secondary endpoints <ul style="list-style-type: none">• Changes from baseline in lung function, asthma control and plasma cortisol on day 15	<ul style="list-style-type: none">• FPCD: Q3 2019• Data readout: H1 2020



AZD7986 (DPP1)

COPD

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02653872	Healthy volunteers	15	<p>This is a phase I, non-randomised, fixed sequence, 3-period, drug-drug interaction study to assess the PK of AZD7986 in healthy subjects when administered alone and in combination with multiple doses of verapamil and itraconazole or diltiazem</p> <ul style="list-style-type: none"> • Arm 1: AZD7986 (alone) treatment period 1 • Arm 2: verapamil (with AZD7986) treatment period 2 • Arm 3: itraconazole (with AZD7986) treatment Period 3 • Arm 4: diltiazem (with AZD7986) treatment period 3 	<ul style="list-style-type: none"> • Safety and tolerability • PK/PD and DDI 	<ul style="list-style-type: none"> • FPCD: Q1 2016 • Data readout: Q2 2016
Phase I NCT02303574	Healthy volunteers	89	<p>A phase I, randomised, single-blind, placebo-controlled, 2-part study to assess the safety, tolerability, PK and food effect of single and multiple oral doses of AZD7986 in healthy volunteers.</p> <ul style="list-style-type: none"> • Arm 1: AZD7986, single and multiple oral doses • Arm 2: placebo, single and multiple doses 	<ul style="list-style-type: none"> • Safety and tolerability • PK/PD • Bioavailability 	<ul style="list-style-type: none"> • FPCD: Q4 2014 • Data readout: Q3 2016



AZD8154 (PI3K $\gamma\delta$ inhibitor)

Asthma

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03436316	Healthy subjects	78	SAD/MAD A Phase I trial to assess the safety, tolerability and PK of AZD8154 following single dose administration and multiple dose administration in healthy subjects	Primary endpoint: • Safety and tolerability Secondary endpoint: • PK parameters	<ul style="list-style-type: none">• FPCD: Q3 2018• LPCD: Q3 2019• Data readout: Q4 2019

Oncology

CVRM

Respiratory

Other



AZD8871 (MABA, inhaled)

Respiratory

Approved medicines

Late-stage development

Early development

Oncology

CVRM

Respiratory

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase IIa NCT03645434	Patients with COPD	73	Randomised, double-blind, placebo and active-controlled crossover trial. Eligible patients will be randomised in 1:1:1:1:1:1 ratio to 1 of 6 treatment sequences and will receive 1 of the following 3 treatments sequence in the form of dry powder inhalation: <ul style="list-style-type: none">• AZD8871 600 µg once daily• Anoro® Ellipta® (55 µg umeclidinium [UMEC]/ 22 µg vilanterol [VI]) once daily• Placebo	Primary endpoint: <ul style="list-style-type: none">• Change from baseline in trough FEV₁ on day 15 Secondary endpoints: <ul style="list-style-type: none">• To characterize the pharmacokinetics of AZD8871 following multiple inhaled doses• To assess safety and tolerability of AZD8871	<ul style="list-style-type: none">• FPCD: Q4 2018• LPCD: Q2 2019• Data anticipated: Q3 2019



AZD9567 (SGRM, oral)

Respiratory

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02760316	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	Primary endpoint: <ul style="list-style-type: none"> To assess the safety and tolerability of AZD9567 following multiple oral ascending doses in subjects with BMI between 28 and 38 kg/m² and with a positive glucose tolerance test (7,8 to 11,0 mmol/L) Secondary endpoints: <ul style="list-style-type: none"> To characterise the pharmacokinetics of AZD9567 following multiple oral administration of ascending doses To characterise the pharmacodynamics of AZD9567 assessed as effect on glucose homeostasis through OGTT (oral glucose tolerance test) in comparison with prednisolone 	<ul style="list-style-type: none"> FPCD: Q2 2016 Data readout: Q2 2018
Phase IIa NCT03368235	Patients with active RA	40	A 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	Primary endpoint: <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 s.c./i.v. biological DMARDs (Disease-modifying antirheumatic drugs)</p> Secondary endpoints: <ul style="list-style-type: none"> 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 s.c./i.v. biological DMARDs (e.g. SJC 66/TJC68, ACR response criteria) To evaluate the pharmacokinetic profile of AZD9567 	<ul style="list-style-type: none"> FPCD: Q1 2018



AZD0284 (ROR γ inverse agonist)

Plaque psoriasis vulgaris

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02976831	Healthy subjects	80	Part 1 (SAD) <ul style="list-style-type: none"> Seven different dose levels investigated vs. placebo Oral administration 	<ul style="list-style-type: none"> Safety and tolerability and PK following oral administration with single ascending dose Preliminary assessment of the effect of food on the single dose PK parameters of AZD0284 	<ul style="list-style-type: none"> FPCD: Q3 2016 LPCD: Q2 2017
			Part 2 (MAD) <ul style="list-style-type: none"> Three different dose levels investigated vs. placebo in healthy subjects Oral administration 	<ul style="list-style-type: none"> Safety and tolerability & PK in healthy subjects following administration of multiple ascending oral doses PoM confirmed by demonstrating that oral dosing of AZD0284 reduces IL-17 secretion by ex vivo stimulated whole blood T cells 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2017
Phase I NCT03029741	Healthy subjects	6	A 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 [¹⁴ C] AZD0284 in healthy male and female subjects. Oral AZD0284 and [¹⁴ C] AZD0284 intravenous solution are referred to as the investigational products in this trial	<ul style="list-style-type: none"> Determination of absolute bioavailability of AZD0284 Safety and tolerability of AZD0284 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2017
Phase Ib NCT03310320	Moderate to severe plaque psoriasis	25 planned 5 completed 9 dosed	A randomised, double-blind, placebo-controlled, multi-centre, parallel group Phase Ib study, designed to evaluate the pharmacodynamic effects, clinical efficacy and safety of AZD0284 compared with placebo as measured by the relative change from baseline in Psoriasis Area Severity Index (PASI score), other disease assessments of involved body surface area (BSA), static physicians global assessment score (sPGA), pruritis and biomarkers associated with the mechanism of disease and AZD0284	<ul style="list-style-type: none"> Reduction from baseline to the end of 4 weeks treatment, in gene expression level of IL-17A and CCL20 relative to placebo Change (percent improvement) in PASI compared to placebo Safety and tolerability and PK following 4 weeks oral administration with single ascending dose 	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q2 2018 The trial was temporarily suspended ~5 months due to preclinical findings. However, whilst the intention was to re-open the DERMIS study, in the meantime, and for portfolio and prioritisation reasons, a decision was taken in Q3 2018 to end the study.



MEDI0618 (PAR2 antagonist mAb)

Approved medicines

Late-stage development

Early development

Osteoarthritis pain

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02508155	Painful osteoarthritis of the knee	64 (healthy volunteers)	<ul style="list-style-type: none">• SAD• Up to 8 i.v. cohorts are planned vs. placebo• 1 s.c. cohortis planned vs. placebo Europe only	<ul style="list-style-type: none">• Safety, tolerability and PK	<ul style="list-style-type: none">• FPCD: Q4 2019

Oncology

CVRM

Respiratory

Other



MEDI1341 (alpha-synuclein mAb)

Parkinson's Disease

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03272165	Healthy volunteers	48	<ul style="list-style-type: none">• SAD• Up to 6 i.v. cohorts are planned vs. placebo US only	<ul style="list-style-type: none">• Safety, tolerability, PK, PD	<ul style="list-style-type: none">• FPCD: Q4 2017• Data anticipated: H2 2020

Oncology

CVRM

Respiratory

Other



AZD4041 (orexin 1 receptor antagonist)

Opioid use disorder

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04076540 Partnered with Eolas Therapeutics Inc and NIH.	Healthy volunteers	48 healthy volunteers	<ul style="list-style-type: none"> • Randomised, double blind, single ascending dose • Up to 6 cohorts are planned vs. placebo Single centre in US only	<ul style="list-style-type: none"> • Safety, tolerability, PK, PD 	<ul style="list-style-type: none"> • FPCD: Q4 2019 • Data anticipated: H2 2020



AZD5634 (ENaC, inhaled)

Cystic Fibrosis

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02679729	Healthy volunteers	56	<p>A 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</p> <ul style="list-style-type: none"> • Arm 1: AZD5634 following inhaled administration of SAD (Part A) and following administration of single inhaled and i.v. doses (Part B) • Arm 2: placebo 	<ul style="list-style-type: none"> • Safety and tolerability • PK/PD 	<ul style="list-style-type: none"> • FPCD: Q1 2016 • Data readout: Q4 2016
Phase Ib NCT02679729	Patients with cystic fibrosis	9	<p>A randomised blinded placebo-controlled, cross-over trial to assess the effect of AZD5634 on mucociliary clearance as well as safety, tolerability, and PK parameters following single inhaled dose administration to patients with cystic fibrosis</p> <ul style="list-style-type: none"> • Arm 1: subjects were administered single dose of placebo in period 1 and AZD5634 in period 2 • Arm 2: subjects were administered single dose of AZD5634 in period 1 and placebo in period 2 	<ul style="list-style-type: none"> • Safety and tolerability • PK/PD 	<ul style="list-style-type: none"> • FPCD: Q2 2017 • Data readout: Q2 2018



MEDI7352 (NGF TNF bispecific mAb)

Approved medicines

Late-stage development

Early development

Osteoarthritis pain

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02508155	Painful osteoarthritis of the knee	160	<ul style="list-style-type: none">SAD & MADUp to 12 i.v. cohorts are planned vs. placebo1 s.c. cohorts are planned vs. placebo Europe only	<ul style="list-style-type: none">Safety, tolerability, PK, PD	<ul style="list-style-type: none">FPCD: Q1 2016Data anticipated: H1 2020
Phase II NCT03755934	Painful diabetic neuropathy	271	<ul style="list-style-type: none">Multiple dose studyUp to 4 i.v. cohorts are planned vs. placebo Europe only	<ul style="list-style-type: none">Dose response, safety, tolerability, PK, PD	<ul style="list-style-type: none">FPCD Q4 2018Data anticipated: 2021

Oncology

CVRM

Respiratory

Other



Other biologics

Infections

Approved medicines

Late-stage development

Early development

Trial	Compound	Population	Patients	Design	Endpoints	Status
Phase II EudraCT 2014-001097-34	Anti-Staph AT (suvratoxumab, MEDI4893)	Intubated ICU	213	<ul style="list-style-type: none"> Placebo-controlled, single-dose, dose-ranging Route of administration: intravenous 	<ul style="list-style-type: none"> Efficacy and safety 	<ul style="list-style-type: none"> FPCD: Q4 2014 Data readout: Q4 2018
Phase IIb NCT02878330	Anti-Respiratory Syncytial Virus mAb-YTE nirsevimab (MEDI8897)	29-35 WK GA (Gestational age) infants	1,453	<ul style="list-style-type: none"> Randomised, double-blind, placebo-controlled trial Route of administration: intramuscular 	<ul style="list-style-type: none"> Safety and efficacy 	<ul style="list-style-type: none"> FPCD: Q4 2016 Data readout: Q4 2018
Phase II NCT02696902	Anti-Pseudomonas A mAb (MEDI3902)	Intubated ICU	195	<ul style="list-style-type: none"> Placebo-controlled, single-dose, dose-ranging Route of administration: intravenous 	<ul style="list-style-type: none"> Efficacy and safety 	<ul style="list-style-type: none"> FPCD: Q2 2016 Data anticipated: H2 2020

Oncology

CVRM

Respiratory

Other



List of abbreviations

14C	Radioactive isotope of carbon, Carbon 14
1L, 2L, 3L	1st, 2nd or 3rd line
5-FU	5-fluorouracil
A2AR	Adenosine A2A receptor
ACQ	Asthma control questionnaire
ACR	American college of rheumatology response scoring system
ADA	Anti-drug antibodies
ADC	Antibody-drug conjugate
ADP	Adenosine diphosphate
AE	Adverse Event
AI	Auto-injector
AKT	Protein kinase B
ALK	Anaplastic large-cell lymphoma kinase
APFS	Accessorised pre-filled syringe
AQLQ	Asthma quality of life questionnaire
AS	Albuterol sulphate
ATM	Ataxia-telangiectasia mutated kinase
ATR	Ataxia telangiectasia and rad3-related protein
AUC	Area under curve
B7RP	B7-related protein-1
BA	Bioavailability
BAFF	B-cell activating factor
BCG	Bacillus Calmette–Guérin
BCMA	B-cell maturation antigen
BDA	Budesonide albuterol
BFF	Budesonide and formoterol fumarate
BGF	Budesonide, glycopyrronium and formoterol fumarate
BICR	Blinded independent central review
BID	Bis in die (twice per day)
BIG	Big ten cancer research consortium
BMD	Bone mineral density
BMI	Body mass index
BRCAwt	Breast cancer wild-type gene
BRD4	Bromodomain-containing protein 4
BTC	Biliary tract carcinoma
BTK	Bruton's tyrosine kinase
CA-125	Cancer antigen 125
CAD	Coronary artery disease
CBR	Clinical benefit rate
CCL20	Chemokine (C-C motif) ligand 20
CD	Cluster of differentiation
CDK	Cyclin-dependent kinase
CE	Clinically evaluable
CHD	Coronary heart disease
Chemo	Chemotherapy

CHF	Chronic heart failure
CKD	Chronic kidney disease
CLL	Chronic lymphocytic leukaemia
CMAx	Maximum observed plasma concentration
C-MET	Tyrosine-protein kinase Met
CNS	Central nervous system
COPD	Chronic obstructive pulmonary disease
CR	Complete response
CRC	Colorectal cancer
CrCl	Creatinine clearance
CRR	Complete response rate
CTC	Circulating tumour cell
CTLA-4	Cytotoxic T-lymphocyte–associated antigen 4
CV	Cardiovascular
CVOT	Cardiovascular outcomes trial
CVRM	Cardiovascular renal and metabolism
CXCR2	C-X-C Motif chemokine receptor 2
DB	Double blind
DC	Disease control
DCR	Disease control rate
DDI	Drug-drug Interaction
dECG	Differentiated electrocardiogram
DFS	Disease free survival
DLBCL	Diffuse large B-cell lymphoma
DLT	Dose-limiting toxicity
DMARDs	Disease-modifying antirheumatic drugs
DNA	Deoxyribonucleic acid
DoCR	Durability of complete response
DoR	Duration of response
DPI	Dry powder inhaler
DXA	Dual energy X-ray absorptiometry
EBRT	External beam radiation therapy
ECG	Electrocardiogram
EFS	Event-free survival
eGFR	Estimated glomerular filtration rate
EGFR	Epidermal growth factor receptor
ER	Oestrogen receptor
ERK	Extracellular signal-regulated kinase
ESR	Externally sponsored study
ESR1	Oestrogen receptor 1
ESSC	Esophageal squamous cell carcinoma
FDC	Fixed-dose combination
FeNO	Fractional nitric oxide concentration in exhaled breath
FEV	Forced-expiratory volume
FGFR	Fibroblast growth factor receptor

FLAP	5-lipoxygenase-activating protein
FPDC	First patient commenced dosing
FPG	Fasting plasma glucose
GA	Gestational age
GBM	Glioblastoma
gBRCAm or tBRCAm	Germline or tumour BRCA mutation somatic
GEJ	Gastric/gastro-oesophageal junction
GFF	Glycopyrronium and formoterol fumarate
GLP-1	Glucagon-like peptide-1
GMFRs	Geometric mean fold rises
GMTs	Geometric mean titers
HAI	Haemagglutination-inhibition
HbA1c	Hemoglobin A1c
HCC	Hepatocellular carcinoma
HD	High dose
HDL-C	High-density lipoprotein cholesterol
HER2	Human epidermal growth factor receptor 2
HF	Heart failure
HFpEF	Heart failure with preserved ejection fraction
HFREF	Heart failure with reduced ejection fraction
HGFR	Met/hepatocyte growth factor receptor
HGSC	High grade serous carcinoma
hHF	Hospitalisation for heart failure
HIF-PHI	Hypoxia inducible factor - prolyl hydroxylase inhibitor
HNSCC	Head and neck squamous-cell carcinoma
HPV	Human papillomavirus
HRD	Homologous recombination deficiency
HRRm	Homologous recombination repair mutation
i	inhibitor
IA	Investigator-assessed
ICS	Inhaled corticosteroid
ICU	Intensive care unit
IDFS	Invasive disease-free survival
IL	Interleukin
i.m.	Intramuscular
IRC	Independent review committee
ISS	Investigator-sponsored studies
i.v.	Intravenous
J-SD	Japanese single dose
Ki67	Protein that is encoded by the MKI67 gene in human



List of abbreviations

LABA	Long acting beta agonist	PASI	Psoriasis area severity index	SAE	Serious adverse event
LAMA	Long acting muscarinic agonist	PBD	Pyrralobenzodiazepine	SBRT	Stereotactic body radiation therapy
LCAT	Lecithin-cholesterol acyltransferase	pCR	Pathological complete response	s.c.	Subcutaneous
LCM	Lifecycle management	PD	Pharmacodynamics	SCLC	Small cell lung cancer
LN	Lupus nephritis	PD-1	Programmed cell death protein 1	SD	Stable disease
LOCS III	Lens opacities classification system III	PDAC	Pancreatic ductal adenocarcinoma	SGLT2	Sodium-glucose transport protein 2
LPCD	Last patient commenced dosing	PDE4	Phosphodiesterase type 4	SGRM	Selective glucocorticoid receptor modulator
LV	Left ventricle	PD-L1	Programmed death-ligand 1	SGRQ	Saint George respiratory questionnaire
m	Mutation	PET	Positron-emission tomography	SJC	Swollen joint count
mAb	Monoclonal antibody	PFS	Progression free survival	SLE	Systemic lupus erythematosus
MABA	Muscarinic antagonist-beta2 agonist	PgR	Progesterone receptor	SLL	Small lymphocytic lymphoma
MACE	Major adverse cardiac events	PI3K	Phosphoinositide 3-kinase	SMAD	Single and multiple ascending dose trial
MAD	Multiple ascending dose	PIK3CA	Phosphatidylinositol 3 kinase catalytic alpha gene	SoC	Standard of care
MCC	Mucociliary clearance	PK	Pharmacokinetics	sPGA	Static physicians global assessment score
MCL	Mantle cell lymphoma	PLL	Prolymphocytic leukaemia	STAT3	Signal transducer and activator of transcription 3
MCL1	Myeloid leukemia cell differentiation protein 1	pMDI	Pressurised metered dose inhaler	sUA	Serum uric acid
mCRPC	Metastatic castrate-resistant prostate carcinoma	PN	Plexiform neurofibromas	T2DM	Type 2 Diabetes Mellitus
MD	Medium dose	POC	Proof of concept	T790M	Threonine 790 substitution with methionine
MDI	Metered-dose inhaler	POM	Proof of mechanism	TACE	Transarterial Chemoembolization
MDS	Myelodysplastic syndrome	pPCI	Primary percutaneous coronary intervention	TEAEs	Treatment-emergent adverse events
MEK	Mitogen-activated protein kinase	PR	Partial response	TID	Ter in die (three times a day)
MET	Tyrosine-protein kinase Met	pre-BD	Pre-bronchodilator	TJC	Tender joint count
MI	Myocardial infarction	PRO	Patient reported outcome	TKI	Tyrosine kinase Inhibitor
MMT	Mixed meal test	PRR	Recurrent platinum resistant	TLR	Toll-like receptor 9
MPO	Myeloperoxidase	PS	Propensity score	TNBC	Triple negative breast cancer
mPR	Major pathological response	PSA	Prostate-specific antigen	TNF	Tumour necrosis factor
MRI	Magnetic resonance imaging	PSC	Pulmonary sarcomatoid carcinoma	TSLP	Thymic stromal lymphopietin
MTD	Maximum tolerated dose	PSMA	Prostate-specific membrane antigen	TTF	Time to treatment failure
NaC	Sodium channel	PTEN	Phosphatase and tensin homolog gene	TTNT	Time to next therapy
NCI	National cancer institute (US)	Q2,3,4,8W	Quaque (every) two, three... weeks	TTP	Time to tumour progression
NCPV	Noncalcified plaque volume	QD	Quaque in die (once a day)	UACR	Urine albumin creatinine ratio
NF1	Neurofibromatosis type 1	QID	Quarter in die (four times a day)	UMEC	Umeclidinium
NGF	Nerve growth factor	QOD	Quaque altera die (every other day)	URAT1	Uric Acid Transporter 1
NHL	Non-Hodgkin's lymphoma	QoL	Quality of Life	VEGF	Vascular endothelial growth factor
NIH	National Institute of Health (US)	QTcF	Corrected QT interval by Fredericia	YTE	Triple-amino-acid (M252Y/S254T/T256E [YTE]) substitution
NKG2a	Natural killer cell C-type lectin receptor G2A	RA	Rheumatoid Arthritis		
NME	New molecular entity	RAAS	Renin-angiotensin-aldosterone system		
NRG	National clinical trials network in oncology (US)	RECIST	Response evaluation criteria in solid tumours		
NSCLC	Non-small cell lung cancer	RFS	Relapse-free survival		
OCS	Oral corticosteroid	rhLCAT	Recombinant human Lecithin-cholesterol acyltransferase		
OD	Once daily	RORγ	Related orphan receptor gamma		
OGTT	Oral glucose tolerance test	r/r	Relapsed/refractory		
ORR	Objective response rate	RT	Radiation therapy		
OS	Overall survival	SABA	Short-acting beta2-agonist		
PARP	Poly ADP ribose polymerase	SAD	Single ascending dose		



Clinical trials appendix

FY 2019 results update

