



Clinical trials appendix

Q1 2021 results update



Movement since Q4 2020 update

New to Phase I	New to Phase II	New to Pivotal trial	New to registration
		<p><u>NME</u> camizestrant (AZD9833) + palbociclib SERENA-4 selective oestrogen receptor degrader + CDK4/6 inhibitors 1st-line HR+ HER2- breast cancer</p> <p>datopotamab deruxtecan# TROPION-Lung01 TROP2 targeting antibody drug conjugate 2L+ NSCLC without actionable genomic mutations</p> <p><u>Lifecycle Management</u> Enhertu# (platform) DESTINY-Breast07 HER2 targeting antibody drug conjugate HER2+ breast cancer</p> <p>Enhertu# (platform) DESTINY-Breast08 HER2 targeting antibody drug conjugate HER2low breast cancer</p> <p>Fasenra FJORD IL-5R mAb bullous pemphigoid</p>	
Removed from Phase I	Removed from Phase II	Removed from Phase III	Removed from registration
<p><u>NME</u> AZD8154 Inhaled PI3Kgd asthma</p> <p>Calquence + ceralasertib BTK inhibitor + ATR inhibitor haematological malignancies</p> <p>MEDI2228 BCMA antibody drug conjugate multiple myeloma</p>	<p><u>NME</u> Lynparza# + ceralasertib VIOLETTE PARP inhibitor + ATR inhibitor breast cancer</p> <p>MEDI6012 LCAT cardiovascular disease</p>		



Q1 2021 new molecular entity (NME)¹ pipeline

Phase I

19 New Molecular Entities

AZD0466# BCL2/xL haematological and solid tumours	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 solid tumours
AZD1390 glioblastoma	<i>Imfinzi</i> #+tremelimumab+chemo PD-L1+CTLA-4 1L PDAC oesophageal SCLC
AZD4573 CDK9 haematological malignancies	<i>Imfinzi</i> +selumetinib# PD-L1+MEK solid tumours
AZD5305 PARP1Sel solid tumours	IPH5201# CD39 solid tumours
AZD5991 MCL1 haematological malignancies	MEDI1191 IL12 mRNA solid tumours
AZD7648# DNAPK solid and haematological tumours	MEDI5395 rNDV GMCSF solid tumours
AZD8701 FOXP3 solid tumours	MEDI5752+Axitinib PD-1/CTLA-4+VEGF advanced renal cell carcinoma
<i>Calquence</i> (platform) PRISM BTK + multiple novel onc therapies r/r aggressive NHL	MEDI9253 rNDV IL12 solid tumours
<i>Imfinzi</i> #+adavosertib# PD-L1+Wee1 solid tumours	<i>Tagrisso</i> combo# TATTON EGFR+MEK/MET advanced EGFRm NSCLC
<i>Imfinzi</i> #+RT (platform) CLOVER PD-L1+RT HNSCC NSCLC SCLC	

Phase II

21 New Molecular Entities

adavosertib# Wee1 ovarian / uterine serous / solid tumours	<i>Imfinzi</i> #+MEDI0457# PD-L1+DNA HPV vaccine HNSCC
AZD2811 nanoparticle Aurora solid tumours, haematological malignancies	<i>Imfinzi</i> #+monalizumab# PD-L1+NKG2a solid tumours
camizestrant SERD ER+ breast	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 biliary tract oesophageal
capivasertib# AKT prostate	<i>Imfinzi</i> #+tremelimumab PD-L1+CTLA-4 gastric cancer
ceralasertib ATR solid tumours	<i>Imfinzi</i> +FOLFOX+bevacizumab (platform) COLUMBIA1 PD-L1+chemo+VEGF+multiple novel onc therapies 1L MSS-CRC
<i>Imfinzi</i> (platform) HUDSON PD-L1+multiple novel onc therapies post IO NSCLC	<i>Imfinzi</i> +Lynparza# BAYOU PD-L1+PARP bladder
<i>Imfinzi</i> # (platform) BALTIC PD-L1+CTLA-4, WEE1+Carboplatin, ATR+PARP ES-SCLC R/R	MEDI5752 PD-1/CTLA-4 solid tumours
<i>Imfinzi</i> # (platform) COAST PD-L1+multiple novel onc therapies NSCLC	oleclumab+chemo or <i>Imfinzi</i> #+oleclumab+chemo CD73+chemo or PDL1+CD73+chemo pancreatic
<i>Imfinzi</i> # (platform) NeoCOAST PD-L1+multiple novel onc therapies NSCLC	Post-1L <i>Tagrisso</i> (platform) ORCHARD EGFR+multiple novel onc therapies EGFRm NSCLC
<i>Imfinzi</i> # + imaradenant# + cabazitaxel PD-L1+A2aR+CTx prostate cancer	<i>Tagrisso</i> +savolitinib# SAVANNAH EGFR+MET advanced EGFRm NSCLC
<i>Imfinzi</i> #+Lynparza# ORION PD-L1+PARP 1L mNSCLC	

Phase III

12 New Molecular Entities

camizestrant+palbociclib SERENA-4 SERD+CDK4/6 1L HR+ HER2- breast cancer	capivasertib#+abiraterone CAPitello-281 AKT+abiraterone PTEN deficient metastatic hormone sensitive prostate cancer
capivasertib#+fulvestrant CAPitello-291 AKT+fulvestrant locally-advanced (inoperable) or metastatic breast	capivasertib+chemotherapy CAPitello-290 AKT+chemotherapy mTNBC 1L
datopotamab deruxtecan# TROPION-Lung01 TROP2 2L+ NSCLC without actionable mutation	<i>Imfinzi</i> #+/-tremelimumab+chemo POSEIDON PD-L1+/-CTLA-4+SoC 1L NSCLC
<i>Imfinzi</i> #+/-tremelimumab+CRT ADRIATIC PD-L1+/-CTLA-4+CRT LS-SCLC	<i>Imfinzi</i> #+tremelimumab HIMALAYA PD-L1+CTLA-4 1L HCC
<i>Imfinzi</i> #+tremelimumab+SoC NILE PD-L1+CTLA-4+SoC 1L urothelial cancer	<i>Lynparza</i> #+ <i>Imfinzi</i> # DUO-E PARP+PD-L1 1L endometrial cancer
<i>Lynparza</i> #+ <i>Imfinzi</i> #+bevacizumab DUO-O PARP+PD-L1+VEGF 1L ovarian	monalizumab#+cetuximab (INTERLINK-1) NKG2a+EGFR 2L+ relapsed metastatic HNSCC

Under Review

0 New Molecular Entities

Phase progressions based on first patient dose achievement.

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 trial



Q1 2021 new molecular entity (NME)¹ pipeline

Phase I

13 New Molecular Entities

AZD0284 RORg psoriasis / respiratory	AZD4041# orexin 1 receptor antagonist opioid use disorder
AZD0449 Inhaled JAK inhibitor asthma	AZD9977 MCR cardiovascular
AZD1402# inhaled IL4Ra asthma	MEDI0618# PAR2 antagonist mAb osteoarthritis pain
AZD2373 Podocyte health nephropathy	MEDI1341# alpha synuclein parkinson's disease
AZD2693 nonalcoholic steatohepatitis	MEDI1814# amyloid β alzheimer's disease
AZD3366 CD39L3 CV disease	MEDI8367 avb8 chronic kidney disease
AZD3427 Relaxin ThP CV disease	

Phase II

20 New Molecular Entities

anifrolumab# Type I IFN receptor lupus nephritis	MEDI3506 IL33 diabetic kidney disease
anifrolumab# Type I IFN receptor SLE SC	MEDI3506 IL33 AD / COPD / asthma / COVID-19
AZD4831 MPO HFpEF	MEDI5884# cholesterol modulation cardiovascular
AZD5718 FLAP coronary artery disease / CKD	MEDI6570 LOX-1 CV disease
AZD7986# DPP1 COPD	MEDI7352 NGF/TNF OA pain / painful diabetic neuropathy
AZD8233 hypercholesterolemia cardiovascular	navafenterol# MABA COPD
AZD8601# VEGF-A cardiovascular	suvratouxumab α -Toxin Staphylococcus pneumonia
AZD9567 SGRM chronic inflammatory diseases	tezepelumab# TSLP atopic dermatitis
brazikumab IL23 ulcerative colitis	tezepelumab# COURSE TSLP COPD
cotadutide GLP-1/glucagon T2D / obesity / NASH / DKD	verinurad URAT-1 CKD / HFpEF

Phase III

5 New Molecular Entities

AZD7442 long-acting antibody combination COVID-19
brazikumab [¶] IL23 crohns disease
nirsevimab# RSV mAb-YTE passive RSV immunisation
PT027# ICS/SABA asthma
tezepelumab# NAVIGATOR TSLP severe uncontrolled asthma

Under Review

1 New Molecular Entity

anifrolumab# TULIP Type I IFN receptor SLE

Phase progressions based on first patient dose achievement.

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 trial



Q1 2021 lifecycle management (LCM)¹ pipeline

Phase I 2 Projects	Phase II 9 Projects	Phase III 30 Projects	Under Review 0 Projects
<i>Enhertu</i> # (platform) DESTINY-Breast08 ADC breast	<i>Enhertu</i> # (platform) DESTINY-Breast07 ADC breast	<i>Calquence</i> # BTK inhibitor 1st line MCL	<i>Imfinzi</i> #+CTx TOPAZ-1 PD-L1+CTx 1L biliary tract cancer
<i>Imfinzi</i> #+azacitidine# PD-L1+azacitidine MDS	<i>Enhertu</i> # DESTINY-CRC-01 ADC colorectal cancer	<i>Calquence</i> # BTK inhibitor r/r CLL, high risk	<i>Imfinzi</i> #+VEGF EMERALD-2 PD-L1+VEGF adjuvant HCC
	<i>Enhertu</i> # DESTINY-Gastric02 ADC gastric	<i>Calquence</i> #+venetoclax+obinutuzumab BTK+BCL-2+anti-CD20 1st line CLL	<i>Imfinzi</i> #+VEGF+TACE EMERALD-1 PD-L1+VEGF+TACE locoregional HCC
	<i>Enhertu</i> # DESTINY-Lung01 ADC NSCLC	<i>Calquence</i> +R-CHOP ESCALADE BTK+R-CHOP 1L DLBCL	<i>Lynparza</i> # LYNK-003 PARP platinum sensitive 1L colorectal cancer
	<i>Enhertu</i> # DESTINY-PanTumor01 HER2 targeting ADC HER2-expressing solid tumours	<i>Enhertu</i> # DESTINY-Breast02 ADC breast	<i>Lynparza</i> # OlympiA PARP gBRCA adjuvant breast
	<i>Enhertu</i> # DESTINY-PanTumor02 HER2 targeting ADC HER2-expressing solid tumours	<i>Enhertu</i> # DESTINY-Breast03 ADC breast	<i>Lynparza</i> # SOLO-3 PARP BRCAm PSR ovarian
	<i>Imfinzi</i> # (platform) BEGONIA PD-L1 1L mTNBC	<i>Enhertu</i> # DESTINY-Breast04 ADC breast	<i>Lynparza</i> +abiraterone# PROpel PARP+NHA prostate cancer
	<i>Imfinzi</i> # (platform) MAGELLAN PD-L1 1L mNSCLC	<i>Enhertu</i> # DESTINY-Breast05 ADC breast	<i>Tagrisso</i> +/- CTx neoadjuvant NeoADAURA EGFR stage II/III resectable EGFRm
	<i>Lynparza</i> # (basket) MK-7339-002 / LYNK002 PARP HRRm cancer	<i>Enhertu</i> # DESTINY-Breast06 ADC breast	<i>Tagrisso</i> LAURA EGFRm locally-advanced unresectable NSCLC
		<i>Imfinzi</i> # + FLOT MATTERHORN PD-L1+CTx neo-adjuvant/adjuvant gastric cancer	<i>Tagrisso</i> +chemo FLAURA2 EGFR+chemo 1L adv EGFRm NSCLC
		<i>Imfinzi</i> # CALLA PD-L1 adj. locally-advanced cervical cancer	
		<i>Imfinzi</i> # PEARL PD-L1 1L metastatic NSCLC	
		<i>Imfinzi</i> # post-SBRT PACIFIC-4 PD-L1 post-SBRT stage III NSCLC	
		<i>Imfinzi</i> # POTOMAC PD-L1 non muscle invasive bladder cancer	
		<i>Imfinzi</i> #+CRT KUNLUN PD-L1+CRT locally-advanced esophageal squamous cell carcinoma	
		<i>Imfinzi</i> #+CRT PACIFIC-2 PD-L1+CRT NSCLC	
		<i>Imfinzi</i> #+CRT PACIFIC-5 (China) PD-L1+CRT locally-advanced stage III NSCLC	
		<i>Imfinzi</i> #+CtX MERMAID-1 PD-L1 stage II/III adjuvant NSCLC	
		<i>Imfinzi</i> #+CTx neoadjuvant AEGEAN PD-L1+CTx locally-advanced stage II-III NSCLC	
		<i>Imfinzi</i> #+CTx NIAGARA PD-L1+CTx muscle invasive bladder cancer	

Phase progressions based on first patient dose achievement.

¹ Includes significant LCM projects and parallel indications for assets beyond Phase III

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



Q1 2021 lifecycle management (LCM)¹ pipeline

Phase I 0 Projects	Phase II 3 Projects	Phase III 10 Projects	Under Review 1 Project	
	<p><i>Fasenra</i> ARROYO IL5R chronic spontaneous urticaria</p>	<p><i>Breztri</i> LABA/LAMA/ICS asthma</p>	<p><i>Fasenra</i> MESSINA IL5R eosinophilic esophagitis</p>	<p><i>Farxiga/Forxiga</i> DAPA-CKD SGLT2 CKD</p>
	<p><i>Fasenra</i> HILLIER IL5R atopic dermatitis</p>	<p><i>Farxiga/Forxiga</i> DAPA-MI SGLT2 prevention of HF and CV death following a myocardial infarction</p>	<p><i>Fasenra</i> NATRON IL5R hypereosinophilic syndrome</p>	
	<p>roxadustat# HIF-PH inhibitor chemo induced anaemia</p>	<p><i>Farxiga/Forxiga</i> DELIVER SGLT2 HFpEF</p>	<p><i>Fasenra</i># OSTRO, ORCHID IL5R nasal polyps</p>	
		<p><i>Fasenra</i> FJORD IL5R bullous pemphigoid</p>	<p><i>Fasenra</i># RESOLUTE IL5R COPD</p>	
		<p><i>Fasenra</i> MANDARA IL5R EGPA</p>	<p>roxadustat# HIFPH anaemia MDS</p>	

Phase progressions based on first patient dose achievement.

¹ Includes significant LCM projects and parallel indications for assets beyond Phase III

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



Estimated key regulatory submission acceptances

		2021		2022		2022+		
NME	H1 2021		H2 2021		2022		2022+	
		AZD7442 SARS-CoV-2			nirsevimab passive RSV immunisation	camizestrant + palbociclib breast cancer SERENA-4	datopotamab deruxtecan NSCLC TROPION-Lung01	
	COVID-19 Vaccine AstraZeneca SARS-CoV-2 (US, JP)	<i>Imfinzi</i> + tremelimumab HCC HIMALAYA	<i>Imfinzi</i> + tremelimumab + CRT LDS-SCLC ADRIATIC	PT027 asthma	capivasertib + fulvestrant locally advanced or mBC CAPItello-291	<i>Imfinzi</i> + tremelimumab + SoC urothelial NILE		
	tezepelumab asthma NAVIGATOR	<i>Imfinzi</i> +/- tremelimumab NSCLC POSEIDON	<i>Koselugo</i> NF1 (China / Japan) SPRINT		capivasertib + CTx 1L mTNBC CAPItello-290	<i>Lynparza</i> + <i>Imfinzi</i> endometrial cancer DUO-E		brazikumab crohns disease
LCM	H1 2021		H2 2021		2022		2022+	
		<i>Calquence</i> r/r CLL, high risk ELEVATE-RR	<i>Enhertu</i> DESTINY-Breast03	<i>Calquence</i> 1L CLL ELEVATE-TN (China)	<i>Calquence</i> + R-CHOP 1L DLBCL ESCALADE	<i>Imfinzi</i> post-SBRT NSCLC PACIFIC-4		
	<i>Fasenra</i> nasal polyps OSTRO	<i>Imfinzi</i> + CRT NSCLC PACIFIC-2	<i>Enhertu</i> DESTINY-Breast02	<i>Enhertu</i> DESTINY-Breast02	<i>Calquence</i> + venetoclax + obinutuzumab 1L CLL AMPLIFY	<i>Imfinzi</i> cervical CALLA		<i>Breztri/Trixeo</i> asthma KALOS, LOGOS
		<i>Lynparza</i> breast OLYMPIA	<i>Enhertu</i> DESTINY-Breast04	<i>Enhertu</i> DESTINY-Breast04	<i>Calquence</i> 1L MCL ECHO	<i>Imfinzi</i> adjuvant NSCLC BR.31		<i>Fasenra</i> COPD RESOLUTE
		<i>Lynparza</i> + abiraterone prostate PROPEL	<i>Imfinzi</i> NSCLC PEARL	<i>Imfinzi</i> NSCLC PEARL	<i>Enhertu</i> DESTINY-Breast05	<i>Imfinzi</i> non muscle invasive bladder POTOMAC		<i>Fasenra</i> EGPA MANDARA
			<i>Imfinzi</i> + CTx biliary tract TOPAZ-1	<i>Imfinzi</i> + CTx biliary tract TOPAZ-1	<i>Enhertu</i> DESTINY-Breast06	<i>Lynparza</i> platinum sensitive 1L colorectal LYNK-003		<i>Fasenra</i> HES NATRON
			<i>Imfinzi</i> + VEGF + TACE locoregional HCC EMERALD-1	<i>Imfinzi</i> + VEGF + TACE locoregional HCC EMERALD-1	<i>Imfinzi</i> + CRT LA ESCC KUNLUN	monalizumab + cetuximab 2L+ relapsed metastatic HNSCC INTERLINK-1		<i>Fasenra</i> nasal polyps ORCHID (China / Japan)
			<i>Lynparza</i> ovarian SOLO-3	<i>Lynparza</i> ovarian SOLO-3	<i>Imfinzi</i> + CRT NSCLC PACIFIC-5 (China)	<i>Tagrisso</i> stage II/III resectable EGFRm NSCLC NeoADAURA		<i>Fasenra</i> bullous pemphigoid FJORD
			<i>Duaklir</i> Genuair COPD (China)	<i>Duaklir</i> Genuair COPD (China)	<i>Imfinzi</i> neoadjuvant NSCLC AEGEAN	<i>Tagrisso</i> locally adv. unresectable NSCLC LAURA		tezepelumab asthma NAVIGATOR
			<i>Farxiga</i> HF (HFpEF) DELIVER	<i>Farxiga</i> HF (HFpEF) DELIVER	<i>Imfinzi</i> + CRT neo-adjuvant/adjuvant gastric MATTERHORN	<i>Tagrisso</i> + CTx EGFRm NSCLC FLAURA2		
			<i>Fasenra</i> eosinophilic esophagitis MESSINA	<i>Fasenra</i> eosinophilic esophagitis MESSINA	<i>Imfinzi</i> + CTx stage II-III adjuvant NSCLC MERMAID-1	<i>Imfinzi</i> + chemo muscle invasive bladder NIAGARA		
			roxadustat anemia in MDS	roxadustat anemia in MDS	<i>Imfinzi</i> + VEGF adjuvant HCC EMERALD-2			
			<i>Xigduo XR/Xigduo</i> type-2 diabetes (China)	<i>Xigduo XR/Xigduo</i> type-2 diabetes (China)				



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)
Enhertu unresectable or HER2+ MBC 3L DESTINY-Breast01 (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)
nirsevimab RSV mAB (US)
nirsevimab RSV mAB (EU) ¹
selumetinib NFI type 1 SPRINT (US)
Enhertu DESINTY-BREAST01 (US)
Calquence CLL (US)
Enhertu gastric cancer (JP) ²
Enhertu HER2+/HER2low gastric 3L DESTINY-Gastric01 (US)
Enhertu HER2mut NSCLC 2L+ DESTINY-Lung01 (US)
Tagrisso adjuvant NSCLC ADAURA (US)
Forxiga CKD DAPA-CKD (US)

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Fast Track

MEDI3902 Psl-PcrV pneumo Px (US)
savratoxumab Staph HAP (US)
Imfinzi NSCLC (US)
nirsevimab (MEDI8897) 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)
Farxiga MI RRCT DAPA-MI (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)
Koselugo/selumetinib NFI type 1 SPRINT (US)
Calquence CLL ELEVATE-TN, ASCEND ³ (US)
Brilinta stroke THALES (US)
Imfinzi Q4W regimen NSCLC, bladder (US)
Tagrisso adjuvant NSCLC ADAURA (US)
Enhertu HER2+/HER2low gastric 3L DESTINY-Gastric01 (US)
Lynparza prostate PROfound (CN)
Forxiga CKD DAPA-CKD (US)
Forxiga CKD DAPA-CKD (JP)

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Orphan

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 CLL 1L (EU)
selumetinib thyroid cancer ASTRA (US)
Lynparza breast cancer OLYMPIAD (JP)
Lynparza ovarian cancer SOLO-2 (JP)
Koselugo/selumetinib NFI type 1 SPRINT (US)
Koselugo/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 (US)
Lynparza pancreatic cancer POLO (JP)
Enhertu HER2+/HER2low gastric 3L DESTINY-Gastric01 (US)
Koselugo/selumetinib NFI type 1 SPRINT (JP)
Imfinzi+CTx biliary tract 1L TOPAZ-1 (US)
Imfinz+/- tremelimumab HCC 1L HIMALAYA (EU)

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

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.

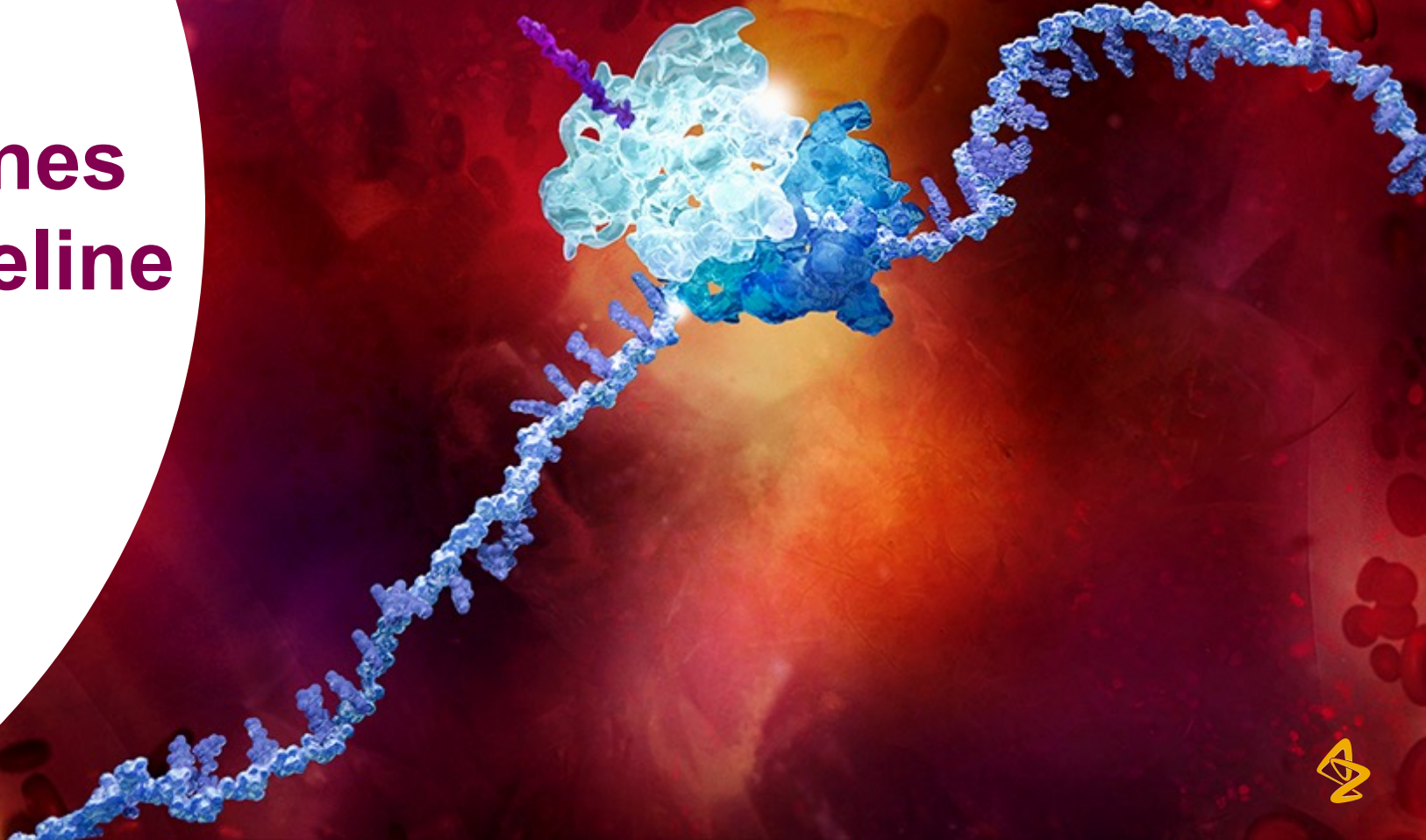
FAST TRACK is a process designed to facilitate the development, and expedite the review of medicines to treat serious conditions and fill an unmet medical need. ³REAL-TIME ONCOLOGY REVIEW (RTOR) and Project Orbis is an initiative of the FDA Oncology Centre of Excellence (OCE) providing a framework for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

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 readout: Q2 2020 Trial unblinded due to efficacy DFS primary endpoint met
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 - 17 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: Q4 2018 Data anticipated: 2022+
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 LPCD: Q1 2020 Data anticipated: H2 2021



Tagrisso (highly-selective, irreversible EGFRi)

NSCLC, combinations

Trial	Population	Patients	Design	Endpoints	Status
Phase III NeoADAURA NCT04351555	Neoadjuvant EGFRm NSCLC	351	Arm 1: placebo plus plus pemetrexed/carboplatin or pemetrexed/cisplatin Arm 2: <i>Tagrisso</i> plus pemetrexed/carboplatin or pemetrexed/cisplatin Arm 3: <i>Tagrisso</i> Global trial – 23 countries	<ul style="list-style-type: none"> Primary endpoint: mPR Secondary endpoints cPR, EFS, DFS, OS 	<ul style="list-style-type: none"> FPCD Q1 2021 Data anticipated: 2022+
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 – 23 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: 2022+
Phase II ORCHARD NCT03944772	Advanced EGFRm NSCLC patients who have progressed on first line <i>Tagrisso</i> treatment	182	Modular design platform trial: <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> Module 5: <i>Tagrisso</i> + alectinib Module 6: <i>Tagrisso</i> + selpercatinib No intervention: observational cohort 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: 2022+
Phase II SAVANNAH NCT03778229	EGFRm / MET+, locally advanced or metastatic NSCLC who have progressed following treatment with <i>Tagrisso</i>	259	<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: 2022+
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>Tagrisso</i> + <i>Imfinzi</i> arm 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 readout: H2 2020



Imfinzi (PD-L1 mAb)

NSCLC, early disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III MERMAID-1 NCT04385368	Completely resected Stage II and III NSCLC	332	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + SoC chemo Arm 2: placebo + SoC chemo 	Primary endpoint: <ul style="list-style-type: none"> DFS Secondary endpoint: <ul style="list-style-type: none"> DFS, OS, 	<ul style="list-style-type: none"> FPCD: Q3 2020 Data anticipated: 2022+
Phase III MERMAID-2 NCT04642469	Completely resected Stage II-III NSCLC	284	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> Arm 2: placebo 	Primary endpoint: <ul style="list-style-type: none"> DFS Secondary endpoint: <ul style="list-style-type: none"> DFS, PFS, OS 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+
Phase III AEGEAN NCT03800134	Neoadjuvant NSCLC patients Stage II and III resected NSCLC (incl. EGFR/ALK positive)	800	<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, EFS Secondary endpoint: <ul style="list-style-type: none"> pCR 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2022+
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 LPCD: Q1 2020 Data anticipated: 2022+
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 Secondary endpoint: <ul style="list-style-type: none"> OS, ORR 	<ul style="list-style-type: none"> FPCD: Q2 2018 LPCD: Q3 2019 Data anticipated: H2 2021
Phase III PACIFIC-4 NCT03833154	<i>Imfinzi</i> with SBRT in unresected, Stage I/II NSCLC	630	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> i.v. Q4W with definitive SBRT Arm 2: placebo with 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: 2022+
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: 2022+
Phase II/III Lung Master Protocol NCT02154490 Partnered	Stage IV squamous NSCLC patients Biomarker-targeted 2L therapy	140	<ul style="list-style-type: none"> Subtrial A: <i>Imfinzi</i> (non-match for other biomarker driven subtrials) i.v. Q2W single arm <i>Imfinzi</i> Phase II only Subtrial B: PI3K inhibitor vs. docetaxel Subtrial C: CDK4/6 inhibitor vs. docetaxel Subtrial D: AZD4547 (FGFR inhibitor) vs. docetaxel Subtrial 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: 2022+



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 Asia trial	Primary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2019 Data anticipated: H2 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: <ul style="list-style-type: none"> 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: H1 2021
Phase II MAGELLAN NCT03819465	NSCLC 1L	212	<ul style="list-style-type: none"> Arm A1: <i>Imfinzi</i> Arm A2: <i>Imfinzi</i> + danvatirsen Arm A3: <i>Imfinzi</i> + oleclumab Arm A3: MEDI5752 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 Arm B4: MEDI5752 	Primary endpoint: <ul style="list-style-type: none"> Safety & tolerability Secondary endpoint: <ul style="list-style-type: none"> ORR, DoR, PFS, OS, PK, ADA 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2022+
Phase III ADRIATIC NCT03703297	Limited stage 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: <ul style="list-style-type: none"> PFS OS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2022
Phase III CASPIAN NCT03043872	Extensive stage SCLC 1L	805	<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: <ul style="list-style-type: none"> 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 OS primary endpoint not met for <i>Imfinzi</i> + tremelimumab
Phase II BALTIC NCT02937818	SCLC	72	<ul style="list-style-type: none"> Arm A: <i>Imfinzi</i> + tremelimumab Q4W Arm B: adavosertib and carboplatin BID Arm C: ceralasertib and <i>Lynparza</i> 	<ul style="list-style-type: none"> Primary endpoint: ORR 	<ul style="list-style-type: none"> FPCD: Q4 2016 Data anticipated: H1 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: Q2 2018 LPCD: Q4 2020 Data anticipated: 2022+
Phase III NIAGARA NCT03732677	Muscle-invasive bladder cancer	1,050	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> in combination with gemcitabine + cisplatin, <i>Imfinzi</i> maintenance Arm 2: gemcitabine + cisplatin 	Copriamary endpoints: <ul style="list-style-type: none"> pCR EFS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2022+
Phase III EMERALD-1 NCT03778957	Locoregional HCC	710	<ul style="list-style-type: none"> Arm 1: TACE in combination with <i>Imfinzi</i> Arm 2: TACE in combination with <i>Imfinzi</i> + bevacizumab Arm 3: TACE in combination with placebo 	Primary endpoint PFS for Arm 1 vs Arm 3 Secondary endpoint PFS for Arm 2 vs Arm 3 , OS	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2022
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 24m 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: 2022+
Phase III KUNLUN NCT04550260	Locally advanced, unresectable ESCC	600	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + definitive CRT Arm 2: placebo + definitive CRT 	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: Q4 2020 Data anticipated: 2022+
Phase III MATTERHORN NCT04592913	Resectable GC/GEJC	900	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + FLOT Arm 2: placebo + FLOT 	Primary endpoint: <ul style="list-style-type: none"> EFS Secondary endpoint: <ul style="list-style-type: none"> OS Arm 1 vs Arm 2 pCR Arm 1 vs Arm 2 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+



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

Other cancers, advanced disease

Trial	Population	Patients	Design	Endpoints	Status
Phase III NILE NCT03682068	Bladder cancer 1L	1,215	<ul style="list-style-type: none"> Arm 1: <i>Imfinzi</i> + tremelimumab + SoC Arm 2: <i>Imfinzi</i> + SoC Arm 3: SoC 	Primary endpoint: <ul style="list-style-type: none"> OS 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2022+
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 endpoint: <ul style="list-style-type: none"> OS Secondary endpoint: <ul style="list-style-type: none"> PFS, ORR, DoR, safety, biomarkers 	<ul style="list-style-type: none"> FPCD: Q4 2015 LPCD: Q1 2017 Data readout: Q1 2021 Primary endpoint not met
Phase III HIMALAYA NCT03298451	HCC 1L	1,324	<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 2021
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 LPCD: Q4 2016 Data readout: Q4 2018
Phase III TOPAZ-1 NCT03875235	BTC 1L	757	<ul style="list-style-type: none"> Treatment Arm 1 <i>Imfinzi</i> + gemcitabine + cisplatin Treatment Arm 2 placebo + gemcitabine + cisplatin Global trial	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 LPCD: Q4 2020 Data anticipated: 2022
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 Global trial	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 LPCD: Q4 2020 Data anticipated: 2022+



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

Other cancers, advanced disease

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: 2022+
Phase I 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: 2022+
Phase I CLOVER NCT03509012	HNSCC, NSCLC, SCLC	102	<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: H1 2021
Phase II BEGONIA NCT03742102	mTNBC 1L	220	<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 Arm 6 <i>Imfinzi</i> + <i>Enhertu</i> Arm 7 <i>Imfinzi</i> + datopotamab deruxtecan <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: 2022+



Lynparza (PARP inhibitor)

Multiple 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 readout: Q1 2021 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	1,256	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: 2022+
Phase III DUO-E NCT04269200	Advanced and recurrent endometrial cancer 1L	699	<ul style="list-style-type: none"> Arm 1: chemo + <i>Imfinzi</i> placebo followed by <i>Imfinzi</i> placebo and <i>Lynparza</i> placebo Arm 2: chemo + <i>Imfinzi</i> followed by <i>Imfinzi</i> + <i>Lynparza</i> placebo Arm 3: chemo + <i>Imfinzi</i> followed by <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, ORR, DoR 	<ul style="list-style-type: none"> FPCD: Q2 2020 Data anticipated: 2022+
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: H1 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: Q2 2018 LPCD: Q3 2019 Data anticipated : H1 2021
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+	115	<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 LPCD: Q2 2020



Lynparza (PARP inhibitor)

Other combinations

Trial	Population	Patients	Design	Endpoints	Status
Phase III PROpel NCT03732820	Metastatic castration-resistant prostate cancer 1L	904	<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: H2 2021
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> 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: 2022+
Phase II LYNK-002 NCT03742895 Partnered	HRRm or HRD-positive advanced cancer	390	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> Global trial	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
Phase III LYNK-003 NCT04456699 Partnered	Advanced colorectal cancer 1L maintenance	525	<ul style="list-style-type: none"> Arm 1: bevacizumab + 5-FU maintenance Arm 2: bevacizumab + <i>Lynparza</i> maintenance Arm 3: <i>Lynparza</i> maintenance Global trial	Primary endpoints: <ul style="list-style-type: none"> PFS Secondary endpoints: <ul style="list-style-type: none"> OS, ORR, DoR, AEs 	<ul style="list-style-type: none"> FPCD: Q3 2020 Data anticipated: 2022+
Phase II DUETTE NCT04239014	Ovarian post-PARPi maintenance PSR	192	<ul style="list-style-type: none"> Arm 1: <i>Lynparza</i> + ceralasertib Arm 2: <i>Lynparza</i> Arm 3: placebo Global trial	Primary endpoint <ul style="list-style-type: none"> PFS Secondary endpoints <ul style="list-style-type: none"> TTSP, ORR, OS Safety and tolerability 	<ul style="list-style-type: none"> Initiating Data anticipated: 2022+



Enhertu (trastuzumab deruxtecan, HER2 ADC)

Breast cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase II DESTINY-Breast01 NCT03248492	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, PFS, OS	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q4 2018 Data readout: Q2 2019 Primary objective met
Phase III DESTINY-Breast02 NCT03523585	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 or trastuzumab + capecitabine	Primacy endpoint PFS Secondary endpoints OS, ORR, DoR, CBR	<ul style="list-style-type: none"> FPCD: Q4 2018 LPCD: Q4 2020 Data anticipated: 2022
Phase III DESTINY-Breast03 NCT03529110	HER2-positive, unresectable and/or metastatic breast cancer 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 LPCD: Q2 2020 Data anticipated: H2 2021
Phase III DESTINY-Breast04 NCT03734029	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 LPCD: Q4 2020 Data anticipated: 2022
Phase III DESTINY-Breast05 NCT04622319	High-risk HER2-positive patients with residual invasive breast cancer following neoadjuvant therapy	1,600	Randomised open label parallel assignment • <i>Enhertu</i> • Ado-trastuzumab emtansine	Primary end point IDFS Secondary end points DFS, OS, DRFI, BMFI	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+
Phase III DESTINY-Breast06 NCT04494425	HER2-Low, HR+ breast cancer patients whose disease has progressed on endocrine therapy in the metastatic setting	850	Randomised open label parallel assignment • <i>Enhertu</i> • Investigator's choice standard of care chemotherapy (capecitabine, paclitaxel, nab-paclitaxel)	Primary end point PFS Secondary end points OS, DoR, ORR	<ul style="list-style-type: none"> FPCD Q2 2020 Data anticipated: 2022+
Phase Ib/II DESTINY-Breast07 NCT04538742	HER2-positive metastatic breast cancer	350	Randomised open label sequential assignment • <i>Enhertu</i> • <i>Enhertu</i> + <i>Imfinzi</i> • <i>Enhertu</i> + pertuzumab • <i>Enhertu</i> + paclitaxel • <i>Enhertu</i> + <i>Imfinzi</i> + paclitaxel • <i>Enhertu</i> + tucatinib	Primary end point AE, SAE Secondary end points ORR, PFS, DoR, OS	<ul style="list-style-type: none"> FPCD: Q1 2021 Data anticipated: 2022+
Phase Ib DESTINY-Breast08 NCT04556773	HER2-low metastatic breast cancer	185	Non-Randomised open label parallel assignment • <i>Enhertu</i> + capecitabine • <i>Enhertu</i> + <i>Imfinzi</i> + paclitaxel • <i>Enhertu</i> + capivasertib • <i>Enhertu</i> + anastrozole • <i>Enhertu</i> + <i>Faslodex</i>	Primary end point AE, SAE Secondary end points ORR, PFS, DoR, OS	<ul style="list-style-type: none"> FPCD: Q1 2021 Data anticipated: 2022+
Phase III DESTINY-Breast09 NCT04784715	HER2-positive, metastatic breast cancer, no prior therapy for advanced or metastatic disease	1134	Randomized, parallel assignment • <i>Enhertu</i> + <i>placebo</i> • <i>Enhertu</i> + <i>pertuzumab</i> • <i>Standard of Care</i>	Primary end point PFS Secondary end points OS, DoR, ORR	<ul style="list-style-type: none"> Initiating

Enhertu (trastuzumab deruxtecan, HER2 ADC)

Gastric cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase II DESTINY-Gastric01 NCT03329690	HER2-overexpressing advanced gastric or gastroesophageal junction adenocarcinoma patients who have progressed on two prior treatment regimens	233	Randomised open label parallel assignment • <i>Enhertu</i> • SoC chemo Trial conducted in Japan and Korea	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 Primary endpoint met
Phase II DESTINY-Gastric02 NCT04014075	HER2-positive gastric cancer that cannot be surgically removed or has spread	79	Open label single group assignment • <i>Enhertu</i> Trial conducted in Western population	Primary endpoint ORR Secondary endpoints PFS, ORR, OS, DoR	<ul style="list-style-type: none"> FPCD: Q4 2019 Data anticipated: H2 2021
Phase Ib/II DESTINY-Gastric03 NCT04379596	HER2-overexpressing gastric or gastroesophageal junction cancer patients	250	<ul style="list-style-type: none"> Open label parallel assignment Part 1: To determine recommended Phase II combination dose 5 Arms combine <i>Enhertu</i> with standard of care chemotherapies (5-FU, capecitabine, oxaliplatin) and / or durvalumab Part 2: To assess efficacy of the selected combinations Arm 2A Standard chemotherapy (control) Arm 2B <i>Enhertu</i> monotherapy Arm 2C <i>Enhertu</i> with chemotherapy Arm 2D <i>Enhertu</i> with chemotherapy and durvalumab Global trial 8 countries	Part 1 Primary endpoint safety Part 2 Primary endpoint ORR Secondary end points DoR, DCR, PFS, OS, range of PK endpoints, ADAs	<ul style="list-style-type: none"> FPCD: Q2 2020
Phase III DESTINY-Gastric04 NCT04704934	HER2-positive gastric cancer or gastroesophageal junction adenocarcinoma patients who have progressed on or after a trastuzumab-containing regimen and have not received any additional systemic therapy	490	Open label randomised parallel group assignment • <i>Enhertu</i> • SoC chemo	Primary endpoint: OS Secondary endpoints: ORR, DoR, PFS, DcR, safety	<ul style="list-style-type: none"> Initiating



Enhertu (trastuzumab deruxtecan, HER2 ADC)

Other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase II DESTINY-Lung01 NCT03505710	HER2-over-expressing or mutated, unresectable and/or metastatic NSCLC	170	Non randomised parallel group assignment • <i>Enhertu</i>	Primary endpoint ORR Secondary endpoints DoR, PFS, OS	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: H2 2021
Phase II DESTINY-Lung02 NCT04644237	HER2-Mutated, Unresectable and/or Metastatic NSCLC	150	Randomised parallel group assignment • <i>Arm 1 Enhertu 6.4 mg/kg</i> • <i>Arm 2 Enhertu 5.4mg/kg</i>	Primary endpoint: ORR Secondary endpoints: DoR, DCR, PFS, OS, PK	<ul style="list-style-type: none"> FPCD: Q1 2021
Phase Ib DESTINY-Lung03 NCT04686305	HER2-over-expressing, unresectable and/or metastatic NSCLC	120	Non randomised parallel group assignment • <i>Arm 1 Enhertu + Cisplatin + Imfinzi</i> • <i>Arm 2 Enhertu + Carboplatin + Imfinzi</i> • <i>Arm 3 Enhertu + Pemetrexed + Imfinzi</i> • <i>Arm 4 Enhertu + Imfinzi</i>	Primary endpoint: safety Secondary endpoints: ORR, DoR, DCR, PFS, OS, range of PK endpoints	<ul style="list-style-type: none"> Initiating



Enhertu (trastuzumab deruxtecan, HER2 ADC)

Other cancers

Trial	Population	Patients	Design	Endpoints	Status
Phase II DESTINY-PanTumour02 NCT04482309	HER2 expressing tumours	280	Non randomised single group assignment • <i>Enhertu</i>	Primary endpoint: ORR Secondary endpoints: DoR, DCR, PFS, OS	• FPCD: Q4 2020
Phase II DESTINY-PanTumour01 NCT04639219	HER2m expressing tumours	100	Non-randomised single group assignment • <i>Enhertu</i>	Primary endpoint: ORR Secondary endpoints: DoR, DCR, PFS, PK	• FPCD: Q1 2021
Phase II DESTINY-CRC01 NCT03384940	HER2-expressing advanced colorectal cancer	90	Non randomised single group assignment • <i>Enhertu</i>	Primary endpoint ORR Secondary endpoints PFS, OS, DoR, range of PK endpoints	• FPCD: Q1 2018 • LPCD: Q2 2019 • Data readout: Q2 2020 • Primary endpoint met
Phase II DESTINY-CRC02 NCT04744831	HER2-overexpressing Advanced or Metastatic Colorectal Cancer	120	Randomised parallel group assignment • Arm 1 <i>Enhertu</i> 6.4 mg/kg • Arm 2 <i>Enhertu</i> 5.4mg/kg	Primary endpoint ORR Secondary endpoints PFS, OS, DoR, range of PK endpoints	• FPCD: Q1 2021
Phase I J101 NCT02564900	Advanced solid malignant tumours	278	Non randomised single group assignment • <i>Enhertu</i>	Primary end points ORR, number of subjects with AEs, tumour response Secondary endpoints PK	• FPCD: Q3 2015 • Data readout: Q3 2018
Phase I NCT04042701	HER2-expressing locally advanced/metastatic breast or NSCLC	115	• Non randomised parallel group assignment • <i>Enhertu</i> + pembrolizumab Global trial 2 countries	Primary end points DLT, ORR Secondary endpoints DoR, DCR, PFS, TTR, OS	• FPCD: Q2 2020
Phase I NCT03523572	HER2-expressing breast and urothelial cancer	99	• Non randomised sequential assignment • <i>Enhertu</i> + nivolumab Global trial 7 countries	Primary end points DLT, ORR, TEAEs Secondary endpoints DoR, DCR, PFS, TTR, OS, ORR (investigator)	• FPCD: Q3 2018

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 PFS (A vs C) Secondary - IRC PFS (B vs C); INV PFS (A vs C; B vs C) 	<ul style="list-style-type: none"> FPCD: Q1 2019 Data anticipated: 2022+
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 readout: Q1 2021 Primary endpoint met
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, DoR, time to response, OS 	<ul style="list-style-type: none"> FPCD: Q1 2017 Data anticipated: 2022
Phase III ESCALADE NCT04529772	DLBCL	600	<i>Calquence</i> + rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisone	<ul style="list-style-type: none"> Safety, ORR 	<ul style="list-style-type: none"> FPCD: Q2 2020 Data anticipated: 2022+
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: 2022+
Phase I/II ACE-CL-001 NCT02029443	CLL/SLL/Richter's transformation	306	<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: 2022+
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: 2022+
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: 2022+

Calquence (BTK inhibitor)

Blood and other 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: 2022+
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: 2022+
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> + ceralasertib • Arm 3: <i>Calquence</i> + Hu5F9G4 + Rituxan • Arm 4: <i>Calquence</i> + AZD5153 <p>An open-label platform trial 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
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
Phase I/II D8220C0007 NCT03932331	Chinese adults r/r MCL and r/r CLL	105	<ul style="list-style-type: none"> • Part 1: R/r B-cell Malignancies Phase II • Part 2: Cohort A: r/r MCL • Part 2: Cohort B: r/r CLL 	<ul style="list-style-type: none"> • Safety, ORR 	<ul style="list-style-type: none"> • FPCD: Q2 2020
Phase I D8220C00018 NCT04488016	Healthy volunteers	28	<p>Part 1: Rel bioavailability for capsule vs tablet Part 2: Rel bioavailability for oral solution of tablet</p>	<ul style="list-style-type: none"> • Safety 	<ul style="list-style-type: none"> • FPCD: Q2 2019 • Data anticipated: H1 2021



Koselugo (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: <i>Koselugo</i> 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 <i>Koselugo</i> + MK-8353 (ERK inhibitor) NCT03745989 Partnered (Merck Lead trial)	Advanced solid tumours	80 (dose escalation trial)	Phase Ib open-label trial of MK-8353 in combination with <i>Koselugo</i> in participants with advanced solid tumours	<ul style="list-style-type: none"> DLTs AEs Trial drug discontinuations due to an AE 	<ul style="list-style-type: none"> FPCD: Q1 2019
Phase I Japan PK / Safety study Partnered	Paediatric Inoperable NF1-PN patients	9-12	Open-label Phase I clinical study to assess safety and PK of <i>Koselugo</i> in Japanese paediatric NF1-PN patients	<ul style="list-style-type: none"> Primary endpoints safety Secondary endpoints of PK/anti-tumour effect 	<ul style="list-style-type: none"> FPCD: Q3 2020 LPCD: Q4 2019
Phase I China PK / Safety / Efficacy study	Pediatric (2-17 years old), adult NF1	32	Single arm with 3 phases; <ul style="list-style-type: none"> Dose confirmation phase (n=6 for 3 cycles), Expansion phase (24mths post LSD) Long term Follow up (60mths post LSD) 	Primary: Safety/tolerability and PK Secondary: Efficacy (ORR, DoR; TTR; PFS)	FPCD: Q4 2020



Lumoxiti (moxetumomab pasudotox, CD22 mAb)

Blood cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
<p>Phase III PLAIT</p> <p>NCT01829711</p> <p>Partnered</p>	Adults with relapsed or refractory HCL	80	<ul style="list-style-type: none"> Multicentre, single-arm, open-label Phase III trial <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



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 readout: Q3 2019
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 readout: Q2 2020
Phase II NCT04606771	EGFRm/MET amplified advanced NSCLC	56	<ul style="list-style-type: none"> <i>Tagrisso</i> and savolitinib contribution of components 	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoint: PFS, DoR, OS 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022



Capivasertib (AKT inhibitor)

Breast cancer, prostate cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase III CAPItello-290 NCT03997123	Locally advanced or metastatic TNBC	800	Double-blind randomised comparative trial • Arm 1: capivasertib + paclitaxel • Arm 2: placebo + paclitaxel	• OS	• FPCD: Q3 2019 • Data anticipated: 2022+
Phase III CAPItello-291 NCT04305496	Locally advanced (Inoperable) or metastatic HR+/HER2- breast cancer	834	Double-blind randomised comparative trial • Arm 1: capivasertib + <i>Faslodex</i> • Arm 2: placebo + <i>Faslodex</i>	• PFS	• FPCD Q2 2020 • Data anticipated: 2022+
Phase III CAPItello-281 NCT04493853	De novo PTEN deficient metastatic hormone sensitive prostate cancer	1,000	Double-blind randomised comparative trial • Arm 1: capivasertib + abiraterone • Arm 2: placebo + abiraterone	• rPFS	• FPCD: Q3 2020 • Data anticipated: 2022+



Monalizumab (NKG2a mAb)

Cancers

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
<p>Phase III INTERLINK-1 NCT04590963</p>	Recurrent or Metastatic SCCHN, 2L	600	<ul style="list-style-type: none"> Arm A: monalizumab + cetuximab i.v. Arm B: placebo + cetuximab i.v. <p>Global trial</p>	<ul style="list-style-type: none"> Primary: OS Secondary: PFS, ORR, DoR 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+
<p>Phase I/II NCT02671435</p>	Advanced solid tumours	381	<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 <ul style="list-style-type: none"> Secondary endpoints include tumour response (OR, DC, DoR, PFS and OS), immunogenicity, pharmacokinetics, pharmacodynamics 	<ul style="list-style-type: none"> FPCD: Q2 2016 Data anticipated: 2022



Camizestrant (AZD9833, oral SERD)

Breast cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase III SERENA-4 NCT04711252	ER+ HER2- breast cancer	1,342	A randomised, multicentre, double-blind, Phase III trial of camizestrant plus palbociclib versus anastrozole plus palbociclib for the treatment of patients with oestrogen receptor-positive, HER2-negative advanced breast cancer who have not received any systemic treatment for advanced disease	<ul style="list-style-type: none"> Primary endpoint: PFS Secondary endpoint: OS, PFS2 	<ul style="list-style-type: none"> FPCD: Q1 2021 Data anticipated: 2022+
Phase I NCT03616587	ER+ breast cancer	266	<ul style="list-style-type: none"> Open label multicentre trial of camizestrant 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 or abemeciclib. 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 camizestrant alone and in combination with Palbociclib or abemaciclib 	<ul style="list-style-type: none"> Primary outcome measures: safety and tolerability Secondary outcome measures: multiple dose PK of AZD9833 alone and in combination with palbociclib antitumour activity 	<ul style="list-style-type: none"> FPCD: Q4 2018
Phase II NCT04214288	ER+ breast cancer	288	<ul style="list-style-type: none"> Randomised, open-label, parallel-group, multicentre trial aimed to compare the efficacy and safety of oral camizestrant versus intramuscular (IM) <i>Faslodex</i> in women with advanced breast cancer. 	<ul style="list-style-type: none"> Primary outcome measure: mPFS 	<ul style="list-style-type: none"> FPCD: Q2 2020
Phase II NCT04588298	ER+ breast cancer	84	<ul style="list-style-type: none"> Randomised, open-label, parallel-group, multicentre trial to investigate the biological effects of camizestrant in women with ER positive, HER2 negative primary breast cancer 	<ul style="list-style-type: none"> Primary outcome measure: change in ER expression between pre- and on-treatment tumour biopsies 	<ul style="list-style-type: none"> FPCD: Q4 2020
Phase I NCT04541433	ER+ breast cancer	18	<ul style="list-style-type: none"> Open-label study designed to evaluate the safety, tolerability, pharmacokinetics, and anti-tumour activity of camizestrant in Japanese women with endocrine resistant ER+ HER2- breast cancer that is not amenable to treatment with curative intent. 	<ul style="list-style-type: none"> Primary outcome measures: safety and tolerability Secondary outcome measures: multiple dose PK of AZD9833 	<ul style="list-style-type: none"> FPCD: Q4 2020
Phase I NCT04546347	Healthy volunteers	32	<ul style="list-style-type: none"> Randomised, open-label study to determine the relative bioavailability of different oral camizestrant tablet formulations and an camizestrant oral solution, the effect of food on the pharmacokinetics of an oral camizestrant tablet formulation, and the absolute bioavailability of camizestrant study in healthy post-menopausal female volunteers. 	<ul style="list-style-type: none"> Primary outcome measure: relative bioavailability of AZD9833 delivered as different tablet formulations and the effect of food 	<ul style="list-style-type: none"> FPCD: Q3 2020 LPCD: Q4 2020 Data anticipated: H1 2021



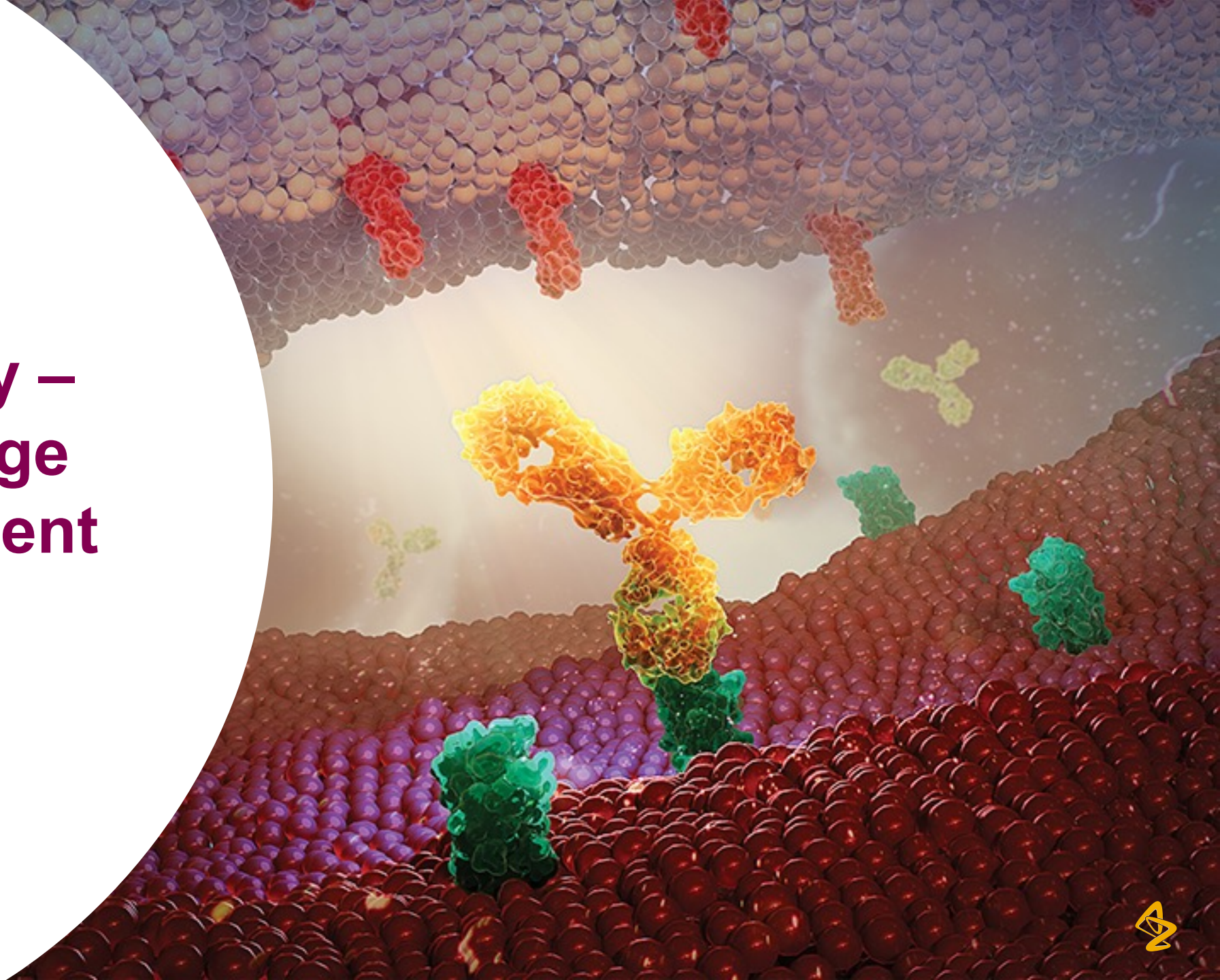
Datopotamab deruxtecan (TROP2 ADC)

NSCLC

Trial	Population	Patients	Design	Endpoints	Status
Phase III TROPION-LUNG01 NCT04656652 Partnered	NSCLC (without actionable mutation)	590	Randomised, open label <ul style="list-style-type: none"> Datopotamab deruxtecan Docetaxel Global trial	<ul style="list-style-type: none"> Primary endpoints: PFS, OS Secondary endpoints: ORR, DoR, TTR, DCR, PK, anti-drug antibodies 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+
Phase II TROPION-LUNG05 NCT04484142 Partnered	NSCLC (with actionable mutation)	150	Randomised, open label <ul style="list-style-type: none"> Datopotamab deruxtecan Global trial	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoint: DOR, PFS, OS, safety, PK, anti-drug antibodies 	<ul style="list-style-type: none"> Initiating
Phase I NCT03401385 Partnered	NSCLC TNBC HR+ BC	350	Open label, two-part (dose escalation, dose expansion) <ul style="list-style-type: none"> Datopotamab deruxtecan Japan, US	<ul style="list-style-type: none"> Primary endpoint: safety Secondary endpoint: PK, antitumor activity, anti-drug antibodies 	<ul style="list-style-type: none"> FPCD: Q1 2018
Phase I TROPION-LUNG02 NCT04526691 Partnered	NSCLC (without actionable mutation)	86	Open label, combination with pembrolizumab, two-part (dose escalation, dose expansion) <ul style="list-style-type: none"> Datopotamab deruxtecan + pembrolizumab Japan, US	<ul style="list-style-type: none"> Primary endpoint: safety Secondary endpoint: ORR, DOR, PFS, OS, PK, anti-drug antibodies 	<ul style="list-style-type: none"> FPCD: Q4 2020
Phase I TROPION-LUNG04 NCT04612751 Partnered	NSCLC (without actionable mutation)	74	Open label, combination with <i>Imfinzi</i> , two-part (dose escalation, dose expansion) <ul style="list-style-type: none"> Datopotamab deruxtecan + <i>Imfinzi</i> US, Japan	<ul style="list-style-type: none"> Primary endpoint: safety Secondary endpoint: : ORR, DOR, PFS, OS, PK, 	<ul style="list-style-type: none"> Initiating



Oncology – early-stage development



Imfinzi (PD-L1 mAb)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

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 readout: Q2 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: Q2 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 LPCD: Q1 2017 Data readout: Q2 2020
Phase II HUDSON NCT03334617	<i>Imfinzi</i> <i>Lynparza</i> vistusertib ceralasertib (AZD6738) danvatirsen oleclumab <i>Enhertu</i> cediranib	NSCLC	340	<p>5 modules encompassing 16 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 cedirinib Module 8; Ceralasertib <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: 2022+
Phase II COAST NCT03822351	<i>Imfinzi</i>	Stage III NSCLC unresectable	189	<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 2021
Phase II NeoCOAST NCT03794544	<i>Imfinzi</i>	Resectable, early stage NSCLC	84	<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 2021



Imfinzi (PD-L1 mAb)

Cancer

Trial	Compound	Population	Patients	Design	Endpoints	Status
Phase Ib/II COLUMBIA 1 NCT04068610	<i>Imfinzi</i>	1L metastatic MSS-CRC	112	<ul style="list-style-type: none"> Part 1 S1 FOLFOX + bevacizumab + <i>Imfinzi</i> + oleclumab Part 2 Control 1 FOLFOX + bevacizumab Part 2 E1 FOLFOX + bevacizumab + <i>Imfinzi</i> + oleclumab 	Primary <ul style="list-style-type: none"> Part 1: Safety Part 2: Efficacy - OR Secondary <ul style="list-style-type: none"> Part 1: Efficacy – OR, BOR, DoR, PFS Part 2: Safety and Efficacy (BOR, DoR, DC, PFS, OS) 	<ul style="list-style-type: none"> FPCD: Q3 2019 Data anticipated: H2 2020
Phase I/II SCope-D1	<i>Imfinzi</i>	NSCLC SCLC	124	<ul style="list-style-type: none"> Open-label, multicentre study to evaluate the safety, pharmacokinetics, and preliminary efficacy of subcutaneous durvalumab in patients with non-small cell and small cell lung cancer 	Primary endpoint: <ul style="list-style-type: none"> PK, Safety 	<ul style="list-style-type: none"> FPCD: Q2 2021 Data anticipated: 2022+



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 <p>Secondary endpoints include antitumour activity, PK and immunogenicity</p>	<ul style="list-style-type: none"> FPCD: Q4 2013 LPCD: Q4 2016 Data readout: Q3 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 <p>Secondary endpoints include anti-tumour activity, PK/PD and immunogenicity</p>	<ul style="list-style-type: none"> FPCD: Q4 2014 LPCD: Q2 2017 Data readout: Q4 2020



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: H1 2021



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 tumours	10	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: H2 2021

CVRM

R&I

Other



MEDI1191 (IL12 modRNA)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

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 trial 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: 2022



AZD1390 (ATM inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

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: 2022

CVRM

R&I

Other



Adavosertib (WEE-1 inhibitor)

Ovarian cancer, uterine serous cancer, solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase II D6010C00004 NCT02272790	Platinum-resistant (PR) ovarian cancer	95	<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 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 II D601HC00002 NCT04590248	Uterine serous carcinoma	120	<ul style="list-style-type: none"> Adavosertib monotherapy Phase IIb, open-label, single-arm, multi-center study Global trial 	<ul style="list-style-type: none"> Primary endpoint: ORR Secondary endpoints: DoR, depth of response, PFS 	<ul style="list-style-type: none"> FPCD: Q4 2020



AZD2811NP (AURN)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02579226	Solid tumours	72	<ul style="list-style-type: none">• Arm 1: AZD2811NP dose escalation• Arm 2: AZD2811NP 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: H1 2021
Phase I NCT03217838	AML/high-risk MDS	124	<ul style="list-style-type: none">• Part A: AZD2811NP monotherapy / azacitidine combination / venetoclax combination dose escalation cohorts• Part B: AZD2811NP 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: 2022+

CVRM

R&I

Other



AZD4573 (CDK9 inhibitor)

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03263637	Relapsed/refractory haematologic malignancies	45	Arm 1: dose escalation in haematological malignancies excluding AML/ALL/high-risk MDS/CMML/CLL. Arm 2: dose escalation in relapsed or refractory AML, ALL, high-risk MDS, CMML, CLL and Richter's syndrome. i.v. route of administration Trial conducted in NL, UK, GE	Primary: • safety/PK; Secondary: • efficacy	• FPCD: Q4 2017 • Data anticipated: H2 2021
Phase I/II NCT04630756	Relapsed/refractory haematologic malignancies	78	Modular design platform trial: • Module 1: AZD4573 + <i>Calquence</i> (100mg twice daily) combination • Arm 1: dose setting (DLBCL, all comers); ramp-up across 3 dose levels (Part A) • Arm 2: dose expansion (GCB vs. non-GCB DLBCL); target dose (Part B) • I.V. route of administration • Trial conducted in 10 countries across North America, EU, ROW	Primary: • Safety (Part A) • ORR (Part B) Secondary: • Safety, anti-tumour activity (Part B) • PK (Parts A & B)	• FPCD: Q1 2021



Imaradenant (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	313	Phase Ia – solid tumours or mCRPC: • Imaradenant monotherapy • Imaradenant + <i>Imfinzi</i> • Imaradenant + abiraterone • Imaradenant + enzalutamide • Imaradenant + <i>Imfinzi</i> + oleclumab • AZD4635 + docetaxel. Phase Ib: Imaradenant monotherapy or Imaradenant + <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 • Data anticipated: H2 2021
Phase I NCT03710434	Healthy male volunteers	21	• Part A 2-period randomised crossover trial of single doses of Imaradenant, nanosuspension or solid oral formulation in fasted state • Part B, 4-period, open-label, randomised, crossover trial of single doses of Imaradenant 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: • C _{max} and exposure (AUC) of Imaradenant solid oral formulation and nano-suspension	• FPCD: Q4 2018 • LPCD: Q2 2019
Phase II NCT04089553	Prostate cancer	60	ARM 1: Imaradenant + <i>Imfinzi</i> ARM 2: Imaradenant + 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 • Data anticipated: H2 2021
Phase I NCT03980821	Japanese patients with advanced solid malignancies	12	Imaradenant 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 • LPCD: Q3 2020
Phase II NCT04495179	Prostate cancer	80	ARM A: Imaradenant + <i>Imfinzi</i> ARM B: Imaradenant+ <i>Imfinzi</i> + cabazitaxel Conducted at sites in US, Europe, UK and Korea	• Primary outcome measure: Efficacy (rPFS) • Secondary outcome measure: Efficacy (OS, PSA response, ORR, DoR)	• FPCD: Q3 2020 • Data anticipated: 2022+



AZD5305 (PARP inhibitor)

Solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04644068	Advanced, metastatic HER2 neg. with BRCAm, PALB2m or RAD51C/Dm Breast cancer Advanced, metastatic TNBC BRCAm, PALB2m or RAD51C/Dm PSR ovarian cancer HRD+ve1 (non-BRCAm or PALB2m or RAD51C/Dm) PSR ovarian cancer PSR ovarian cancer	612	A modular phase I/IIa, open-label, multicentre trial to assess the safety, tolerability, pharmacokinetics, pharmacodynamics and preliminary efficacy of ascending doses of AZD5305 as monotherapy and in combination with anti-cancer agents in patients with advanced solid malignancies	<ul style="list-style-type: none"> Primary endpoint: safety/tolerability & PK Secondary endpoints: efficacy 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+



MEDI5395 (rNDV GMCSF)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03889275	Select advanced solid tumours	188	First-time-in-human Phase I, open-label, dose-escalation and expansion arm 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: 2022+



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

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I/IIa NCT03530397	Advanced solid tumours	261	Open-label, dose-escalation and dose-expansion: <ul style="list-style-type: none"> Dose-escalation: MEDI5752 i.v. Dose-expansion: MEDI5752 i.v. as monotherapy and in combination with chemotherapy Arm A: MEDI5752 i.v. Arm B: MEDI5752 i.v., pemetrexed and carboplatin Arm C: Pembrolizumab, pemetrexed and carboplatin 	Primary endpoints: <ul style="list-style-type: none"> dose-escalation: safety & determination of MTD dose-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, DCR, PFS, OS 	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: 2022+
Phase Ib NCT04522323	Advanced renal cell carcinoma	77	Open-label, dose-escalation and dose-expansion to explore the safety, tolerability and anti-tumour activity of MEDI5752 in combination with axitinib:	Primary endpoint: <ul style="list-style-type: none"> dose-escalation: safety & tolerability Secondary endpoints: <ul style="list-style-type: none"> PK, ADA and antitumour activity of MEDI5752 + axitinib based on PFS, OR, DoR, DCR, TTR, OS 	<ul style="list-style-type: none"> FPCD: Q3 2020 Data anticipated: 2022+



AZD5991 (MCL1 inhibitor)

Cancer

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I/Ib/IIa NCT03218683	Relapsed/refractory haematologic malignancies	121	<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/MDS;• i.v. route of administration• US only	<ul style="list-style-type: none">• Primary: safety• Secondary: PK, efficacy	<ul style="list-style-type: none">• FPCD: Q3 2017• Data anticipated: H2 2021



Ceralasertib (AZD6738, ATR inhibitor)

Cancer

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: 2022+
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 2021
Phase II PLANETTE NCT04564027	Solid tumours mCRPC	52	<ul style="list-style-type: none"> • Cohort A: ceralasertib; ATM-altered AST • Cohort B: ceralasertib; ATM-altered mCRPC 	<p>Cohort A: ORR Cohort B: Composite RR</p>	<ul style="list-style-type: none"> • FPCD: Q1 2021 • Data anticipated: 2022+



AZD7648 (selective DNA-PK inhibitor)

Advanced solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03907969	Advanced malignancies	234	<ul style="list-style-type: none"> • First in human modular dose escalation and dose expansion trial • Arm 1 - AZD7648 monotherapy • Arm 2 - AZD7648 + Pegylated Liposomal Doxorubicin • Arm 3 - AZD7648 + <i>Lynparza</i> • Countries: US, UK 	<ul style="list-style-type: none"> • Primary outcome measures: safety and tolerability • Secondary outcome measures: PK, Cytochromes P450, preliminary anti-tumour activity 	<ul style="list-style-type: none"> • FPCD: Q4 2019 • Data anticipated: 2022



AZD8701 (FOXP3 antisense oligonucleotide)

Approved medicines

Late-stage development

Early development

Oncology

Solid tumours

Trial	Population	Patients	Design	Endpoints	Status
Phase I/II NCT04504669	Advanced solid tumours	123	Dose escalation and dose expansion trial Arm 1: AZD8701 monotherapy Arm 2: AZD8701 & <i>Imfinzi</i> combination therapy Global trial - four countries - US, CA, FR, ES i.v. route of administration	Primary endpoints: safety & tolerability Secondary endpoints: PK, PD, preliminary anti-tumour activity	<ul style="list-style-type: none">FPCD: Q3 2020Data Anticipated: 2022+

CVRM

R&I

Other



MEDI9253 (rNDV-IL12)

Solid tumours

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04613492	Advanced solid tumours	86	First-time-in-human Phase I, open-label, dose-escalation and expansion arm of MEDI9253 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 2020• Data anticipated: 2022+



Oleclumab (CD73 mAb)

Cancer

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02503774	Advanced malignancies	348	Dose escalation phase <ul style="list-style-type: none"> oleclumab i.v. oleclumab i.v. + <i>Imfinzi</i> i.v. Dose expansion phase <ul style="list-style-type: none"> oleclumab i.v. recommended dose + <i>Imfinzi</i> i.v. US, South Korean and Australian trial centres	Primary endpoints: <ul style="list-style-type: none"> Safety Determination of MTD Secondary endpoints include preliminary anti-tumour activity, PK, PD, immunogenicity and biomarker activity	<ul style="list-style-type: none"> FPCD: Q3 2015 Data anticipated: H1 2021
Phase Ib/II NCT03611556	Pancreatic 1L and 2L with prior gemcitabine-based chemotherapy	339	<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. US, Norway, Spain and Australian trial centres	Primary endpoints: <ul style="list-style-type: none"> Safety and anti-tumour activity Secondary endpoints include PFS, PK, immunogenicity, safety and anti-tumour activity	<ul style="list-style-type: none"> FPCD: Q2 2018 Data anticipated: H2 2021



IPH5201 (CD39 mAb)

Solid tumours

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04261075 Partnered	Advanced Solid tumours	204	<ul style="list-style-type: none">• First time in human Phase I, open-label, dose-escalation trial to determine MTD of IPH5201 as monotherapy, or in combination with <i>Imfinzi</i> +/- oleclumab.• Part 1: IPH5201 monotherapy dose escalation to MTD• Part 2: IPH5201 + <i>Imfinzi</i> dose escalation to MTD• Part 3: IPH5201 + <i>Imfinzi</i> + Oleclumab dose escalation to MTD• Route of Administration: IV• Geographical Regions: 4 countries - US and 3 in EU.	Primary endpoints: AE, SAE, DLT Secondary endpoints: OR, DC, PK, ADA	<ul style="list-style-type: none">• FPCD: Q1 2020• Data anticipated: 2022



**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-CKD NCT03036150	Patients With CKD	4,304	<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: $\geq 50\%$ sustained decline in eGFR or reaching ESRD or CV death or renal death 	<ul style="list-style-type: none"> FPCD: Q1 2017 LPCD: Q1 2020 Data readout: Q2 2020 Primary endpoint met
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 LPCD: Q4 2020 Data anticipated: H2 2021
Phase III DAPA-MI NCT04564742	Patients with myocardial infarction	6,400	<ul style="list-style-type: none"> Arm 1: <i>Farxiga</i> 10mg QD Arm 2: placebo Global trial - 2 countries	<ul style="list-style-type: none"> Primary endpoint: time to the first occurrence of any of the components of the composite: hospitalization for HF or CV death 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+



Brilinta (P2Y12 receptor antagonist)

Cardiovascular risk reduction

Trial	Population	Patients	Design	Endpoints (primary)	Status
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	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



Lokelma (sodium zirconium cyclosilicate)

Hyperkalaemia

Trial	Population	Patients	Design	Endpoints	Status
Phase II PRIORITIZE HF NCT03532009	Patients with chronic heart failure and hyperkalaemia or at high risk of developing hyperkalaemia	182	<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 LPCD: Q2 2020 Data readout: Q4 2020
Phase IIIb DIALIZE China NCT04217590	Patients with ESRD with hyperkalemia and on stable haemodialysis	134	<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 China	<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 2020 Data readout: H2 2021
Phase III HARMONIZE Asia NCT03528681	Hyperkalaemia	250	Open-label <i>Lokelma</i> 10g TID for 48 hours followed by: <ul style="list-style-type: none"> Arm 1: <i>Lokelma</i> 5g QD for 28 days Arm 2: <i>Lokelma</i> 10g QD for 28 days Arm 3: placebo QD for 28 days China, India	<ul style="list-style-type: none"> Primary endpoint: maintenance of normokalaemia 	<ul style="list-style-type: none"> Initiating Data readout: 2022+
Phase III DIALIZE-Outcomes NCT04847232	Patients with with recurrent hyperkalemia on chronic haemodialysis	2,300	Arm 1: <i>Lokelma</i> 5g-15g QD for 4 weeks on non-dialysis days, thereafter adjusted monthly Arm 2: placebo QD Global trial – 22 countries	<ul style="list-style-type: none"> Primary endpoint: Time to first occurrence of SCD, stroke, or hospitalization/intervention/ED visit due to arrhythmias 	<ul style="list-style-type: none"> Initiating Data readout: 2022+



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 • LPCD: Q4 2019 • Data readout: Q1 2020 • Primary endpoint met 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	Anaemia in CKD in patients receiving dialysis	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	Anaemia in CKD in patients receiving dialysis	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

Roxadustat (HIF-PH inhibitor)

Anaemia

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: 2022 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: 2022 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 LPCD: Q3 2020 Data anticipated: H1 2021 Sponsored by FibroGen



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 volunteers	20	Open-label, 2-period ascending dose incomplete block, cross-over trial • acclidinium bromide 400 µg DPI Global trial – one Country	<ul style="list-style-type: none">• To investigate the PK of acclidinium bromide and its metabolites after single and multiple doses (BID) of acclidinium bromide 200 µg, 400 µg and 800 µg• To evaluate the safety, and tolerability of acclidinium bromide 200 µg, 400 µg and 800 µg after single and multiple dose administration (BID)	<ul style="list-style-type: none">• Initiating• Data anticipated: 2022+

Oncology

CVRM

R&I

Other



Duaklir Genuair (LAMA/LABA, DPI)

COPD

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

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: 2022+



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

Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase III KALOS NCT04609878	Severe asthma	2,800	Treatments (24 to 52 week variable length) <ul style="list-style-type: none"> • BGF MDI 320/28.8/9.6µg BID pMDI • BGF MDI 320/14.4/9.6µg BID pMDI • BFF MDI 320/9.6µg BID pMDI • <i>Symbicort</i> 320/9µg BID pMDI Randomised, double-blind, double dummy, parallel group and multicentre Multi-country	<ul style="list-style-type: none"> • Primary endpoint: Change from baseline in forced expiratory volume in 1 second (FEV1) area under the curve 0 to 3 hours (AUC0-3) at Week 24 • Primary endpoint of Pooled Studies D5982C00007 and D5982C00008: Rate of severe asthma exacerbations • Secondary endpoint: Change from baseline in morning pre-dose trough FEV1 at Week 24 	<ul style="list-style-type: none"> • FPCD: Q1 2021 • Data anticipated: 2022+
Phase III LOGOS NCT04609904	Severe asthma	2,800	Treatments (24 to 52 week variable length) <ul style="list-style-type: none"> • BGF MDI 320/28.8/9.6µg BID pMDI • BGF MDI 320/14.4/9.6µg BID pMDI • BFF MDI 320/9.6µg BID pMDI • <i>Symbicort</i> 320/9µg BID pMDI Randomised, double-blind, double dummy, parallel group and multicentre Multi-country	<ul style="list-style-type: none"> • Primary endpoint: Change from baseline in forced expiratory volume in 1 second (FEV1) area under the curve 0 to 3 hours (AUC0-3) at Week 24 • Primary endpoint of Pooled Studies D5982C00007 and D5982C00008: Rate of severe asthma exacerbations • Secondary endpoint: Change from baseline in morning pre-dose trough FEV1 at Week 24 	<ul style="list-style-type: none"> • FPCD: Q1 2021 • Data anticipated: 2022+



Daliresp/ Daxas (PDE4 inhibitor, oral)

COPD

Approved medicines

Late-stage development

Early development

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: 2022+

Oncology

CVRM

R&I

Other



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	447	<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 readout: Q3 2020 • Primary endpoint met
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	598	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 readout: Q4 2020 • Primary endpoint met
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: 2022+



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	2,133	<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	162	<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	46	<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 LPCD: Q2 2019 Data readout: Q4 2020 Primary endpoint met
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	103	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> 30mg Q4W s.c. with one dose of seasonal influenza virus vaccine IM Arm 2: placebo Q4W s.c. with one dose of seasonal influenza virus vaccine intra muscular 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, COPD

Trial	Population	Patients	Design	Endpoints	Status
Phase III GRECO NCT02918071	Severe asthma on ICS-LABA Age 18-75 years	121	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	659	<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 LPCD: Q1 2019 Data readout: Q4 2019 Primary endpoint met
Phase I AMES NCT02968914	Healthy volunteers age 18-55 years	180	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
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	868	<ul style="list-style-type: none"> Double-blind, placebo controlled, single dose (100mg q8w) 56-week treatment Global trial – 26 countries 	<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: 2022+



Fasenra (IL5R mAb)

Nasal polyposis and other eosinophilic diseases

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	413	<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 readout: Q3 2020 Co-primary endpoints met
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: 2022+
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: 2022+
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 Q3 2020 Data anticipated: 2022
Phase III MESSINA NCT04543409	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) Global trials – 12 countries	<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"> FPCD Q4 2020 Data anticipated: 2022



Fasenra (IL5R mAb)

Dermatology

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase III FJORD NCT04612790	Patients with symptomatic (newly diagnosed or relapsing) Bullous Pemphigoid	120	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> regimen Arm 2: placebo 36-week double blind treatment period and open label period Global trial	<ul style="list-style-type: none"> Primary endpoint: Proportion of patients with complete sustained (≥ 2 months) remission off OCS at 36 weeks 	<ul style="list-style-type: none"> FPCD: Q2 2021 Data anticipated: 2022+
Phase II ARROYO NCT04612725	Patients with moderate/severe Chronic Spontaneous Urticaria, and resistant to H1 treatment	160	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> regimen 1 Arm 2: <i>Fasenra</i> regimen 2 Arm 3: placebo 24-week double blind treatment period and open label period Global trial	<ul style="list-style-type: none"> Primary endpoint: Change from baseline in ISS7 at week 12 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022
Phase II HILLIER NCT04605094	Patients with moderate to severe Atopic Dermatitis despite treatment with topical medications	160-200	<ul style="list-style-type: none"> Arm 1: <i>Fasenra</i> regimen Arm 2: placebo 16-week double blind treatment period and open label periods Global trial	<ul style="list-style-type: none"> Primary endpoint: Proportion of patients with an IGA 0/1 and a decrease in IGA of ≥ 2 points at week 16 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+



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 readout: Q4 2020 Primary endpoint met
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 readout: Q4 2020 Primary endpoint not met
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 trial to NAVIGATOR and SOURCE. 52 week trial (subjects from NAVIGATOR); 56 week trial (subjects from SOURCE) Global trial – 18 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 LPCD: Q4 2020 Data anticipated: H2 2022
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 patients /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 readout: Q4 2020 Primary endpoint met



Tezepelumab (TSLP mAb)

Severe, uncontrolled asthma, COPD & CRSwNP

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 Data anticipated: H1 2021
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 trial – 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	65	Arm 1: tezepelumab s.c. 52 week trial Local trial - Japan	<ul style="list-style-type: none"> Primary endpoint: Number of patients with adverse events 	<ul style="list-style-type: none"> FPCD: Q2 2019 LPCD: Q4 2019 Data anticipated: H1 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: 2022+
Phase III WAYPOINT NCT04851964 Partnered	Severe Chronic Rhinosinusitis with Nasal Polyps (CRSwNP) Age 18+	400	<ul style="list-style-type: none"> Arm 1: tezepelumab s.c. Arm 2: placebo s.c. 52 week trial Global trial – 11 countries	<ul style="list-style-type: none"> Co-primary endpoint: Nasal Polyp Score and Participant Reported Nasal Congestion 	<ul style="list-style-type: none"> Initiating



PT027 (SABA/ICS, pMDI)

Asthma

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

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/paediatric 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: H2 2021
Phase III DENALI NCT03847896 Managed by Avillion	Mild to moderate asthma	1,000	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 LPCD: Q2 2021 Data anticipated: H2 2021
Phase III TYREE NCT04234464 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 2020 LPCD: Q3 2020 Data Readout: Q4 2020 Primary endpoint met



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: 2022
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 readout: Q1 2021



Brazikumab (IL23 inhibitor)

Inflammatory bowel disease (Crohn's disease, ulcerative colitis)

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb / III INTREPID NCT03759288	Crohn's Disease	1,140	<ul style="list-style-type: none"> Arm 1: brazikumab high IV dose on day 1, 29 and 57 + SC brazikumab on day 85 and every 4 weeks through week 48 Arm 2: brazikumab low IV dose on day 1, 29 and 57 SC brazikumab on day 85 and every 4 weeks through week 48 Arm 3: adalimumab SC on day 1, 15, 29 and every 2 weeks through week 50 Arm 4: placebo 	Primary <ul style="list-style-type: none"> Endoscopic response and clinical remission at week 12 Secondary <ul style="list-style-type: none"> Endoscope response and clinical remission at both weeks 12 and 52 Endoscopic remission and clinical remission at week 52 	<ul style="list-style-type: none"> FPCD: Q4 2018 Data anticipated: 2022+
Phase III NCT03961815	Crohn's Disease	1,000	<ul style="list-style-type: none"> Open label extension 	<ul style="list-style-type: none"> Safety of long-term treatment with brazikumab 	<ul style="list-style-type: none"> FPCD: Q2 2019 Data anticipated: 2022+
Phase II EXPEDITION NCT03616821	Ulcerative Colitis	375	<ul style="list-style-type: none"> Arm 1: brazikumab dose 1 IV on day 1, 15 and 43 + SC brazikumab from day 71 and every 4 weeks Arm 2: brazikumab dose 2 IV on day 1, 15 and 43 + SC brazikumab from day 71 and every 4 weeks Arm 3: brazikumab dose 3 IV on day 1, 15 and 43 + SC brazikumab from day 71 and every 4 weeks Arm 4: vedolizumab 300 mg IV on day 1, 15 and 43 + IV vedolizumab from day 99 and every 8 weeks Arm 5: placebo 	Primary <ul style="list-style-type: none"> Clinical remission at week 10 Secondary <ul style="list-style-type: none"> Sustained clinical remission at week 10 and 54 	<ul style="list-style-type: none"> FPCD: Q3 2018 Data anticipated: 2022+
Phase II NCT04277546	Ulcerative Colitis	300	<ul style="list-style-type: none"> Open label extension 	<ul style="list-style-type: none"> Clinically significant adverse events 	<ul style="list-style-type: none"> FPCD: Q1 2020 Data anticipated: 2022+



Nirsevimab (Respiratory syncytial virus mAb-YTE)

Infection

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb NCT02878330	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 LPCD: Q4 2017 Data readout: Q4 2018 Primary endpoint met
Phase II/III MEDLEY NCT03959488	High risk preterm (born 35 weeks 0 day or less GA), CHD and CLD infants eligible to receive palivizumab	1,500	<ul style="list-style-type: none"> Randomised, Double-blind, palivizumab-controlled Route of administration: intramuscular Global trial – 32 countries	<ul style="list-style-type: none"> Primary: Safety and tolerability Secondary: PK, ADA and descriptive efficacy 	<ul style="list-style-type: none"> FPCD: Q3 2019 LPCD: Q4 2020 Data anticipated: H2 2021
Phase III MELODY NCT03979313	Healthy infants (born 35 weeks 0 days or greater GA)	3,000	<ul style="list-style-type: none"> Randomised, Double-blind, placebo-controlled Route of administration: intramuscular Global trial – 31 countries	<ul style="list-style-type: none"> Primary: Efficacy Secondary: Safety, PK, ADA 	<ul style="list-style-type: none"> FPCD: Q3 2019 LPCD: Q3 2020 Data readout: Q1 2021 Primary endpoint met
Phase II Japan IC NCT04484935	Immunocompromised Japanese children who are ≤ 24 months of age at the time of dose administration	30	<ul style="list-style-type: none"> Open-label, Uncontrolled, single-dose Study Route of administration: intramuscular Japan only	<ul style="list-style-type: none"> Primary: Safety and tolerability Secondary: PK, ADA, efficacy 	<ul style="list-style-type: none"> FPCD: Q3 2020 Data readout: 2022+



AZD1222 (SARS-CoV-2)

Prevention of COVID-19

Approved medicines

Late-stage development

Early development

Trial	Population	Patients	Design	Endpoints	Status
Phase I/II COV001 (UK) NCT04324606 Partnered	Healthy adults Age 18-55 years	1,077	Single-blinded, randomised, controlled, multi-centre trial <ul style="list-style-type: none"> AZD1222 Control vaccine: MenACWY UK	<ul style="list-style-type: none"> Primary endpoint: efficacy and safety Secondary endpoints: safety, tolerability, reactogenicity, and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2020 LPCD: Q2 2020
Phase I/II COV005 (SA) NCT04444674 Partnered	Healthy adults Age 18-65 years HIV+ subgroup	2,125	Adaptive, double-blinded, randomised placebo-controlled trial <ul style="list-style-type: none"> AZD1222 Placebo South Africa	<ul style="list-style-type: none"> Primary endpoint: efficacy, safety, and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2020 LPCD: Q4 2020 Data readout: Q1 2021
Phase II/III COV002 (UK) NCT04400838 Partnered	Main efficacy trial: healthy adults aged ≥18 years Healthy adults 56 - <70 years Healthy adults ≥70 years Healthy children 5 – 12 years	10,812	Single-blinded, randomised, controlled, multi-centre trial with sequential age escalation/de-escalation immunogenicity sub-studies that include prime boost <ul style="list-style-type: none"> AZD1222 Control vaccine: MenACWY UK	<ul style="list-style-type: none"> Primary endpoint: efficacy and safety Secondary endpoints: safety, tolerability, reactogenicity, and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2020 LPCD: Q4 2020 Data readout: Q1 2021
Phase III D8110C00001 (US, global) NCT04516746	Healthy adults Age 18-65 years	32,429	Adaptive, double-blinded, randomised placebo-controlled trial <ul style="list-style-type: none"> AZD1222 Placebo US, with intent to expand to other countries	<ul style="list-style-type: none"> Primary endpoints: efficacy, safety, tolerability, and reactogenicity Secondary endpoints: immunogenicity 	<ul style="list-style-type: none"> FPCD: Q3 2020 Data readout: Q1 2021
Phase III COV003 (Brazil) NCT04536051 Partnered	Health professionals and adults with high potential for exposure to SARS-CoV-2 Age 18-55 years	10,414	Single-blinded, randomised, controlled multi-centre trial <ul style="list-style-type: none"> AZD1222 Control vaccine: MenACWY Brazil	<ul style="list-style-type: none"> Primary endpoint: efficacy Secondary endpoints: safety, tolerability, reactogenicity, and immunogenicity 	<ul style="list-style-type: none"> FPCD: Q2 2020 LPCD: Q4 2020 Data readout: Q1 2021
Phase III D8111C00001 NCT04540393	Healthy adults Age ≥18 years	100	Open-label, non-comparative trial Russia	<ul style="list-style-type: none"> Primary endpoints: safety, tolerability Secondary endpoints: immunogenicity 	<ul style="list-style-type: none"> Paused
Phase I/II D8111C00002 NCT04568031	Healthy adults Age ≥18 years	256	Double-blinded, randomised, placebo-controlled multi-centre trial <ul style="list-style-type: none"> AZD1222 Placebo Japan	<ul style="list-style-type: none"> Primary endpoints: safety, tolerability, reactogenicity, immunogenicity Secondary endpoints: immunogenicity 	<ul style="list-style-type: none"> FPCD: Q3 2020
Phase I/II COV004 (Kenya)	Healthy adults	400	Double-blinded, randomised, placebo-controlled multi-centre trial <ul style="list-style-type: none"> AZD1222 Control vaccine: rabies Kenya	<ul style="list-style-type: none"> Primary endpoints: safety, tolerability, reactogenicity, immunogenicity Secondary endpoints: immunogenicity 	<ul style="list-style-type: none"> FPCD: Q4 2020

AZD7442 (LAAB combination of AZD8895 & AZD1061)

Prevention and treatment of COVID-19

Trial	Population	Patients/Subjects	Design	Endpoints	Status
Phase I NCT04507256	Healthy adults Age 18-55 years	60	Double-blinded, randomised, placebo controlled, single ascending dose study AZD7442/placebo (10:2) Single center, UK	<ul style="list-style-type: none"> Primary endpoint: safety, tolerability and PK Secondary endpoints: immunogenicity 	<ul style="list-style-type: none"> FPPD: August 2020 LPCD: October 2020
Phase III PROVENT D8850C00002 NCT04625725	Adults having increased risk for inadequate response to active immunization or having increased risk for SARS-CoV-2 infection	5,000	Double-blinded, randomized, placebo controlled, multi center study to determine safety and efficacy AZD7442/placebo (2:1) Pre-exposure Countries: USA, UK, Belgium, France, Spain	<ul style="list-style-type: none"> Primary endpoint: positive symptomatic illness post –dose Secondary endpoints: Incidence of nucleocapsid antibodies, incidence of emergency visits, incidence of PCR positive, incidence of ADA to AZD7442 in serum and AZD7442 serum concentrations 	<ul style="list-style-type: none"> FPCD: Q4 2020 LPCD: Q1 2021 Data anticipated: H2 2021
Phase III STORM CHASER D8850C00003 NCT04625972	Adults with potential exposure To an identified individual with confirmed SARS-COV2 infection and at risk of developing COVID-19	1,125	Double-blinded, randomized, placebo controlled, multi center study to determine safety and efficacy AZD7442/placebo (2:1) Post-exposure Countries: USA and UK	<ul style="list-style-type: none"> Primary endpoint: positive symptomatic illness post –dose Secondary endpoints: Incidence of nucleocapsid antibodies, incidence of COVID-19 related death, incidence of all cause mortality, incidence of ADA to AZD7442 in serum and ZD7442 serum concentrations 	<ul style="list-style-type: none"> FPCD: Q4 2020 LPCD: Q1 2021 Data anticipated: Q2 2021
PHASE III TACKLE NCT04723394	Adults with confirmed mild to moderate SARS-COV2 infection. Symptomatic patients with documented positive SARS-Cov-2 molecular test.	1,700	Double-blinded, randomized, placebo controlled, multi center study to determine safety and efficacy of AZD7442 for treatment of Covid-19 in non-hospitalized patients AZD7442/placebo (1:1) Countries: UK, Germany, Spain, Italy, Hungary, Russia, US, Mexico, Japan, Poland, Czech Republic, Peru, Argentina, Brazil, Bulgaria and Ukraine	<ul style="list-style-type: none"> Primary endpoint: efficacy in the prevention of the composite endpoint of either severe COVID-19 or death from any cause through study Day 29 	<ul style="list-style-type: none"> FPCD: Q1 2021 Data anticipated: Q2 2021

Other COVID-19 trials

Treatment of COVID-19

Trial	Compound	Population	Patients	Design	Endpoints	Status
Phase III DARE-19 NCT04350593	<i>Farxiga</i>	COVID-19	1,250	• Current SoC or current SoC + <i>Farxiga</i>	• Primary outcome measures: time to first occurrence of either death from any cause or new/worsened organ dysfunction through 30 days of follow up or improving clinical recovery; hierarchical composite outcome measures including time to death from any cause through day 30, new/worsened organ dysfunction, clinical status at day 30 and hospital discharge before day 30 and alive at day 30	• FPCD: Q2 2020 • LPCD: Q1 2021 • Data readout: Q1 2021 • Primary endpoint not met
Phase II TACTIC-E NCT04393246	<i>Farxiga</i>	COVID-19	1,407	• Current SoC or current SoC + <i>Farxiga</i> + ambrisentan	• Primary Outcome Measures: time to incidence of the composite endpoint of: death, mechanical ventilation, extracorporeal membrane oxygenation, cardiovascular organ support, or renal failure	• FPCD: Q4 2020 • Data anticipated: Q2 2021
Phase IIIa TACTIC-COVID NCT04355637	<i>Pulmicort</i>	COVID-19	300	• Current SoC or SoC + <i>Pulmicort</i>	• Primary outcome measures: proportion of patients in both arms fulfilling the criteria for treatment failure	• FPCD: Q2 2020 • Data anticipated: Q2 2021
Phase IIIa STOIC NCT04416399	<i>Pulmicort</i>	COVID-19	478	• Current SoC or SoC + <i>Pulmicort</i>	• Primary Outcome Measures: emergency department attendance of hospitalisation related to COVID-19	• FPCD: Q2 2020 • Data readout: Q1 2021
Phase IIIa INHASCO NCT04331054	<i>Symbicort</i>	COVID-19	436	• Current SoC or SoC + <i>Symbicort</i>	• Primary Outcome Measures: time (in days) to clinical improvement within 30 days after randomisation	• FPCD: Q2 2020 • Data anticipated: Q2 2021
Phase II ACCORD	MEDI3506	COVID-19	180	• Current SoC or current SoC + MEDI3506	• Primary endpoints: time to a 2-point improvement on a 9-point category ordinal scale, discharge from hospital, or considered fit for discharge whichever comes first by Day 29	• FPCD: Q2 2020 • Data anticipated: Q2 2021



BioPharmaceuticals – early-stage development



Cotadutide (GLP-1-glucagon agonist)

Diabetes/CKD, NASH

Trial	Population	Patients	Design	Endpoints	Status
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, Netherlands, UK 	<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 Part B FPCD: Q1 2020 LPCD: Q1 2021 Data readout: H1 2021
Phase II NCT03596177	Overweight and obese patients 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 Data readout: Q4 2020
Phase II NCT04019561	Obese patients 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 Data Readout: H2 2021
Phase II NCT04515849	A Study of Cotadutide in participants who have chronic kidney disease with type 2 diabetes mellitus	225	<ul style="list-style-type: none"> Arm1: cotadutide 100 micrograms Arm2: cotadutide 300 micrograms Arm3: cotadutide 600 micrograms Arm4: semaglutide Arm5: placebo 	<ul style="list-style-type: none"> Primary: efficacy change in UACR Secondary: Change in HbA1c Secondary: Change in glucose measured by CGM Secondary: Effects on body weight Secondary: Safety, tolerability, Immunogenicity 	<ul style="list-style-type: none"> FPCD: Q4 2020 LPCD: Q2 2022 Data readout: H2 2022
Phase I NCT04091373	Healthy adult patients	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 LPCD: Q1 2020 Data readout: Q4 2020



Verinurad (URAT1 inhibitor)

CKD, HFpEF

Trial	Population	Patients	Design	Endpoints	Status
Phase II SAPPHIRE NCT03990363	Patients with: <ul style="list-style-type: none"> sUA \geq6.0 mg/dL eGFR \geq25 mL/min/1.73 m² Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI formula) Mean UACR between 30 mg/g and 5000 mg/g 	861	<ul style="list-style-type: none"> Arm A; Verinurad 12 mg + allopurinol 300 mg Arm B Verinurad 7.5 mg + allopurinol 300 mg Arm C; Verinurad 3 mg to 24 mg + allopurinol 300 mg Arm D; Verinurad placebo + allopurinol 300 mg Arm E; Verinurad placebo + allopurinol placebo <p>This trial is multi-centre trial conducted in USA, China, Czech Republic, France, Hungary, Israel, Italy, Mexico, Poland, Romania, Slovakia, South Africa, Spain</p>	Ratio of urinary albumin to urinary creatinine Changes in eGFR, Cystatin C, and uric acid	<ul style="list-style-type: none"> FPCD: Q3 2019 Data anticipated: 2022
Phase I NCT03118739	Healthy volunteers	24	<ul style="list-style-type: none"> Treatment A: Verinurad 24 mg ER8 formulation + 300 mg allopurinol Treatment B: Verinurad 40 mg IR formulation + 300 mg allopurinol Treatment C: Matched placebos for both verinurad and allopurinol <p>The trial is a single-centre, randomised, placebo-controlled, double-blind, 3-period, cross-over trial conducted in Germany</p>	To assess the effect of a single dose of verinurad given as either a 24 mg extended-release (ER8) formulation (therapeutic exposure) or a 40 mg immediate-release (IR) formulation (supra-therapeutic exposure), both in combination with allopurinol 300 mg, on the QT interval corrected for heart rate using Fridericia's formula (QTcF) compared to placebo	<ul style="list-style-type: none"> FPCD: Q3 2020 Data readout: H2 2020
Phase I NCT04532918	Healthy volunteers	14	<ul style="list-style-type: none"> Treatment A: Verinurad 7.5 mg ER8 formulation + 300 mg Allopurinol under fasted conditions Treatment B: Verinurad 7.5 mg IR formulation + 300 mg allopurinol + cyclosporin 600 mg under fasted conditions Treatment C: Verinurad 7.5 mg IR formulation + 300 mg allopurinol + rifampicin 600 mg under fasted conditions <p>The trial is a single-centre, randomised, open-label, 3-period, fixed sequence, trial conducted in Germany</p>	To quantify the effects of cyclosporine, a broad transporter inhibitor, and rifampicin, an OATP1B1/3 inhibitor, on verinurad pharmacokinetics (PK).	<ul style="list-style-type: none"> FPCD: Q3 2020 LPCD: Q4 2020 Data anticipated: H1 2021
Phase II AMETHYST NCT04327024	Patients with heart failure with preserved ejection fraction	435	<ul style="list-style-type: none"> Arm A: verinurad 12 mg and 24 mg + allopurinol 300 mg Arm B: verinurad placebo + allopurinol 300 mg Arm C: verinurad placebo + allopurinol placebo <p>The trial is a multi-centre trial conducted in Argentina, Australia, Austria, Bulgaria, Canada, Germany, Mexico, Poland, Russia, Slovakia South Korea, USA</p>	Peak V02 Change from baseline at Week 28 in exercise capacity Change from baseline at Week 28 in Kansas-City Cardiomyopathy Questionnaire-Total Symptom Score (KCCQ-TSS)	<ul style="list-style-type: none"> FPCD: Q3 2020 Data readout: 2022+



AZD2373

Chronic kidney disease

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04269031	Healthy volunteers	48	SAD Dose escalation in 6 cohorts with 6 volunteers receiving AZD2373 and 2 volunteers receiving placebo in each cohort Trial conducted in the US	Primary: • Safety and tolerability Secondary; • PK parameters	• FPCD: Q1 2020



AZD2693 (resolution of NASH)

NASH

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04142424	Healthy volunteers	48	SAD 6 cohorts with 6 volunteers receiving AZD2693 and 2 volunteers 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 2021
Phase I NCT04142424	NAFLD F0-F3	60	MAD 3 cohorts receiving AZD2693 and 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: Q1 2021 • Data anticipated: H1 2021



AZD3427 (relaxin)

Heart failure

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04630067	SAD – Healthy Volunteers MAD – Heart Failure	104	<ul style="list-style-type: none">Multi-center single and multiple ascending dose study (SAD and MAD) planned in 96 participants (US)Part A (SAD) will include 6 cohorts randomized to AZD3427 or placeboPart B (MAD) will include cohorts randomized to AZD3427 or placebo	Safety & Tolerability	<ul style="list-style-type: none">FPCD: Q4 2020Data anticipated: 2022+



AZD3366

Cardiovascular disease

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04588727	Healthy volunteers	79	SAD Part A Dose escalation in 6 cohorts with 6 volunteers receiving AZD3366 and 2 volunteers receiving placebo in each cohort Part B 12 subjects receiving AZD3366 and ticagrelor and ASA Trial conducted in the US	Primary: • Safety and tolerability Secondary; • PK parameters	<ul style="list-style-type: none">• FPCD: Q4 2020• LPCD: H2 2021



MEDI3506 (IL33 ligand mAb)

Diabetic kidney disease

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT04170543	Adult patients with diabetic kidney disease	565	<ul style="list-style-type: none">• Arm A- MEDI3506 Dose 1 + dapagliflozin• Arm B- MEDI3506 Dose 2 + dapagliflozin• Arm C- MEDI3506 Dose 3 + dapagliflozin• Arm D- MEDI3506 Dose 4 + dapagliflozin• Arm E- placebo + dapagliflozin <p>This trial is multi-centre trial conducted in USA, Canada, Japan and additional countries.</p>	<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 patients	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 patients	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 • Data readout: Q2 2021
Phase I NCT04232345	Healthy patients	32	MAD trial in Japanese and Chinese patients	<ul style="list-style-type: none"> • Safety and tolerability 	<ul style="list-style-type: none"> • FPCD Q1 2020 • Data anticipated: Q2 2021
Phase I NCT04407091	Healthy patients	6	hADME (one trial site in UK) • Oral administration • Open-label trial to characterize the absorption, distribution, metabolism and excretion following a single oral dose of [14C]AZD4831 in healthy male volunteers	<ul style="list-style-type: none"> • Mass balance, with routes and rates of elimination of [14C]AZD4831. • Metabolite profiling and structural identification • PK and total radioactivity 	<ul style="list-style-type: none"> • FPCD: Q2 2020 • LPCD: Q3 2020 • Data anticipated: Q2 2021



AZD5718 (FLAP inhibitor)

Cardiovascular disease & Chronic Kidney Disease

Trial	Population	Patients	Design	Endpoints	Status
Phase IIa NCT03317002	CAD	129	<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 • LPCD: Q4 2019 • Data readout: Q1 2021
Phase I NCT03948451	Healthy patients	6	<p>hADME trial (one trial site in UK)</p> <ul style="list-style-type: none"> • Oral administration <p>Open-label trial 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 patients	14	<p>BA trial (one trial site in UK)</p> <p>An open-label, randomized, 3-period, 3-treatment, crossover trial 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
Phase I NCT04210388	Healthy patients	12	<p>BA trial (one trial site in UK)</p> <p>The trial is a randomized, single-dose, open-label, combined 2x2 dose and 3x3 dose crossover design in fixed sequence.</p>	<p>To evaluate:</p> <ul style="list-style-type: none"> • The relative bioavailability of different formulations • Safety and tolerability 	<ul style="list-style-type: none"> • FPCD: Q1 2020 • LPCD: Q1 2020
Phase I NCT0473275	Healthy patients	16	<p>BA trial (one trial site in UK)</p> <p>The trial is a randomized, open-label, 3-period, single dose, crossover study in healthy subjects.</p>	<p>To evaluate</p> <ul style="list-style-type: none"> • The relative bioavailability of different formulations • Safety and tolerability 	<ul style="list-style-type: none"> • FPCD: Q1 2021 • LPCD: Q1 2021
Phase IIb NCT04492722	CKD	632	<p>Interventional</p> <p>A Phase IIb randomised, double-blind, placebo-controlled, multi-centre, dose-ranging trial of AZD5718 in participants with proteinuric CKD</p>	<p>To evaluate:</p> <ul style="list-style-type: none"> • dose-response efficacy • Safety • pharmacokinetics (PK) 	<ul style="list-style-type: none"> • FPCD: Q4 2020



AZD8233 (PCSK9 inhibitor, sub-cutaneous)

Dyslipidemia

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03593785	Healthy subjects	72	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
Phase I NCT04155645	Dyslipidemia	33	MAD Up to 3 cohorts with 8 subjects receiving AZD8233 and 3 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: Q1 2020 • LPCD: Q4 2020
Phase II NCT04641299	Dyslipidemia	108	Subjects are randomized across four different treatment arms in a 1:1:1:1 ratio for a 12-week treatment period Arm 1: High AZD8233 dose Arm 2: Medium AZD8233 dose Arm 3: Low AZD8233 dose Arm 4: placebo Trial conducted in 3 countries (US, Slovakia and Denmark)	Primary: • Efficacy	<ul style="list-style-type: none"> • FPCD: Q4 2020 • LPCD: Q1 2021
Phase II NCT04823611	Dyslipidemia	91	Study consists of Part A and Part B, both with a 12-week treatment period Part A: 11 subjects randomized in an 8:3 ratio into 1 of the 2 treatment arms; AZD8233 high dose or placebo Part B: 80 subjects randomized across four different treatment arms in a 1:1:1:1 Arm 1: High AZD8233 dose Arm 2: Medium AZD8233 dose Arm 3: Low AZD8233 dose Arm 4: placebo Trial conducted in Japan	Primary in Part A: • Safety and tolerability Primary in Part B: • Efficacy	<ul style="list-style-type: none"> • FPCD: Q1 2021



MEDI8367

Chronic kidney disease

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT04365218	Healthy volunteers CKD	70	Single ascending dose 6 cohorts Arm 1: MEDI8367 Arm 2: placebo Subcutaneous administration Trial conducted in the US	Primary: • Safety and tolerability Secondary; • PK parameters • ADA	• FPCD: Q3 2020



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, two in Germany) <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



Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT03435276	Healthy volunteers	27	MAD Dose escalation in 3 cohorts with 6 subjects receiving AZD9977 and 3 volunteers 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 volunteers	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	HF	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 volunteers	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 volunteers	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 volunteers	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
Phase I NCT04469907	Renal Impairment	32	Renal Impairment Single dose administration of AZD9977 conducted in participants with severe renal impairment and compared with matched participants with normal renal function Trial conducted in the US	Primary: • PK parameters Secondary: • Safety and tolerability	<ul style="list-style-type: none"> • FPCD: Q3 2020 • LPCD: H1 2021 • Data readout: H2 2021
Phase I NCT04686591	Healthy volunteers	8	ADME Study of absorption-distribution-metabolism-excretion (ADME) of ¹⁴ C-AZD9977 following a single oral dose and absolute bioavailability of a single oral dose with respect to AZD9977 Trial conducted in the UK	Primary: • Absolute bioavailability • The mass balance, rates and routes of elimination Secondary: • Safety and tolerability	<ul style="list-style-type: none"> • FPCD: Q1 2021 • LPCD: Q1 2021 • Data readout: H2 2021

Zibotentan (endothelin receptor antagonist)

Chronic kidney disease

Trial	Population	Patients	Design	Endpoints	Status
Phase IIb NCT04724837	Chronic Kidney Disease	660	Global recruitment Part A: 132 participants equally randomised across 4 arms: Arm 1: Zibotentan dose A + <i>Farxiga</i> 10 mg once daily. Arm 2: Zibotentan dose A once daily. Arm 3: <i>Farxiga</i> 10 mg once daily. Arm 4: Placebo once daily. Part B: 528 participants equally randomised across 6 arms: Arm 1: Zibotentan dose C + <i>Farxiga</i> 10 mg once daily. Arm 2: Zibotentan dose B + <i>Farxiga</i> 10 mg once daily. Arm 3: Zibotentan dose A + <i>Farxiga</i> 10 mg once daily. Arm 4: Zibotentan dose A once daily. Arm 5: <i>Farxiga</i> 10 mg once daily. Arm 6: Placebo once daily.	Primary Endpoint: Change in log-transformed UACR from baseline to week 12. Secondary Endpoints: •Change in log-transformed UACR from baseline to week 12. •Change in blood pressure from baseline (Visit 2) to week 12. •The least squares mean change of UACR at week 12 from the 3 Zibo/Dapa dose groups and the dapagliflozin monotherapy group. •Change in eGFR from baseline to week 1, week 12 and week 14. •Change in eGFR from week 1 to week 12.	<ul style="list-style-type: none"> • Initiating



Biologics

Cardiovascular & metabolic diseases

Trial	Compound	Population	Patients	Design	Endpoints	Status
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 LPCD: Q3 2020 Data readout: Q4 2021
Phase IIb NCT04610892	MEDI6570	Post MI	792	<p>Evaluation of anti-inflammatory potential of MEDI6570 and its effect on surrogates for atherosclerotic and heart failure (HF) events. Subjects are randomized across four different treatment arms in a 1:1:1:1 ratio</p> <p>Arm 1: High AZD6570 dose Arm 2: Medium AZD6570 dose Arm 3: Low AZD6570 dose Arm 4: Placebo</p> <p>Trial conducted in 9 countries (US, Canada, Hungary, Japan, Czech Republic, Italy, Spain, Netherlands, Poland,)</p>	<ul style="list-style-type: none"> Efficacy and safety 	<ul style="list-style-type: none"> FPCD: Q4 2020 Data anticipated: 2022+



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 2x6 subjects Part 2 MAD: <ul style="list-style-type: none"> 2 cohorts of (6, 6,) mild asthmatics receiving two different doses of AZD0449 and (3,3) patients receiving placebo in each cohort 1 cohort of 6 patients receiving 1 dose of AZD0449 and 2 patients receiving placebo Part 3 bridge <ul style="list-style-type: none"> 1 cohort of 6 patients receiving 1 dose of AZD0449 (DPI formulation) and 2 patients receiving placebo. Up to 18 mild asthmatic patients will receive AZD0449 (DPI) and 18 patients receiving placebo. Interim analysis planned after 9 +9 patients. 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 Data anticipated: H1 2021



AZD1402 (IL4 receptor alpha antagonist)

Asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase Ib NCT03574805 Partnered	Patients with mild asthma	84	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"> LPCD: Q3 2018



MEDI3506 (IL33 ligand mAb)

COPD, atopic dermatitis, asthma

Trial	Population	Patients	Design	Endpoints	Status
Phase II NCT04212169	Adult subjects with atopic dermatitis	152	Randomised, blinded, placebo-controlled trial to determine the efficacy and safety of three different doses of MEDI3506 by SC route vs placebo Conducted in US, Australia, Germany, Poland, UK & Spain	<ul style="list-style-type: none"> Primary: change from baseline at week 16 in Eczema Area and Severity Index (EASI) score Secondary: safety and other efficacy measures 	<ul style="list-style-type: none"> FPCD: Q4 2019
Phase II NCT04570657	Adult participants with uncontrolled moderate to severe asthma	228	Randomised, double-blind, placebo-controlled trial to evaluate the efficacy, safety, pharmacokinetics (PK) and immunogenicity of two different doses of MEDI3506 by SC route vs placebo Conducted in US, Argentina, Germany, Hungary, Poland & South Africa	<ul style="list-style-type: none"> Primary: change from baseline at week 16 in FEV1 Secondary: safety and other efficacy measures 	<ul style="list-style-type: none"> FPCD: Q4 2020
Phase II NCT04631016	Adult subjects COPD and chronic bronchitis	322	Randomised, double-blind, placebo-controlled, parallel group, proof of concept trial to evaluate the efficacy and safety of MEDI3506 as a single dose by SC route versus placebo Conducted in US, Canada, Denmark, Germany, Hungary, Netherlands, Poland, South Africa, Spain, Australia & UK	<ul style="list-style-type: none"> Primary: change from baseline to week 12 in FEV1 Secondary: safety and other efficacy measures 	<ul style="list-style-type: none"> FPCD: Q1 2021



AZD7986 (DPP1)

COPD

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

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 trial 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 trial 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



AZD8871 (MABA, inhaled)

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

Respiratory

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 readout: Q3 2019



AZD9567 (SGRM, oral)

Respiratory

Approved medicines

Late-stage development

Early development

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: • To assess the safety and tolerability of AZD9567 following multiple oral ascending doses in subjects with BMI between 28 and 38 kg/m ² and with a positive glucose tolerance test (7,8 to 11,0 mmol/L)	<ul style="list-style-type: none"> • FPCD: Q2 2016 • Data readout: Q2 2018
Phase IIa NCT03368235	Patients with active RA	21	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: 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)	<ul style="list-style-type: none"> • FPCD: Q1 2018 • Data readout: Q2 2020
Phase II NCT04556760	Patients With Type 2 Diabetes Mellitus	42	A study to assess the effect on glycaemic control of AZD9567, as measured by the glucose AUC(0-4) versus baseline following a standardised mixed meal tolerance test (MMTT), compared to prednisolone in adults with type 2 diabetes mellitus (T2DM). The study will also evaluate the safety, tolerability, and pharmacokinetics (PK) of AZD9567	Primary endpoint: • Change in glucose AUC(0-4) versus baseline compared to prednisolone following a standardised MMTT	<ul style="list-style-type: none"> • FPCD: Q4 2020 • LPCD: Q2 2021 • Data readout: H2 2021

Oncology

CVRM

R&I

Other



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	Patients with moderate to severe plaque psoriasis	15	This was a randomised, double-blind, placebo-controlled, multi-centre, parallel group Phase Ib study, designed to evaluate the pharmacodynamic (PD) effects, clinical efficacy and safety of AZD0284 compared with placebo as measured by the relative change from baseline in Psoriasis Area and Severity Index (PASI) score and biomarkers associated with the mechanism of disease and AZD0284.	<ul style="list-style-type: none"> Relative change from baseline of IL-17A and CCL20 mRNA expression levels in lesional skin at Week 4. Percent improvement from baseline in individual PASI score at Week 4 	<ul style="list-style-type: none"> FPCD: Q4 2017 LPCD: Q1 2018



MEDI0618 (PAR2 antagonist mAb)

Approved medicines

Late-stage development

Early development

Oncology

CVRM

R&I

Other

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• Data anticipated: H2 2021



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• LPCD: Q4 2020• Data anticipated: Q2 2021
Phase I NCT04449484	Parkinson's Disease	36	<ul style="list-style-type: none">• MAD• Up to 3 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: Q3 2020• Data anticipated: 2022+

Oncology

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R&I

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: H1 2021



MEDI7352 (NGF TNF bispecific mAb)

Osteoarthritis pain

Trial	Population	Patients	Design	Endpoints	Status
Phase I NCT02508155	Painful osteoarthritis of the knee	160	<ul style="list-style-type: none"> SAD & MAD Up to 12 i.v. cohorts are planned vs. placebo 1 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 2016 LPCD: Q4 2020 Data anticipated: Q2 2021
Phase II NCT03755934	Painful diabetic neuropathy	271	<ul style="list-style-type: none"> Multiple dose trial Up 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 2018 Data anticipated: H2 2021
Phase Iib NCT04675034	Painful osteoarthritis of the knee	300	<ul style="list-style-type: none"> Multiple dose trial 3 active s.c. dose cohorts vs. placebo Global (8 countries)	<ul style="list-style-type: none"> Dose response, safety, tolerability, PK, PD, ADA 	<ul style="list-style-type: none"> FPCD: Q1 2021 Data anticipated: H1 2022
Phase I NCT04770428	Healthy volunteers Japanese and Caucasian	20	<ul style="list-style-type: none"> Multiple dose trial 1 active s.c. dose cohort vs. placebo Europe only	<ul style="list-style-type: none"> Safety, tolerability, PK, PD, ADA 	<ul style="list-style-type: none"> FPCD: Q2 2021 Data anticipated: H2 2021



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 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 readout: Q4 2020

Oncology

CVRM

R&I

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 trial
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
LAAB	Long acting antibody



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 lymphopoeitin
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

Q1 2021 results update

