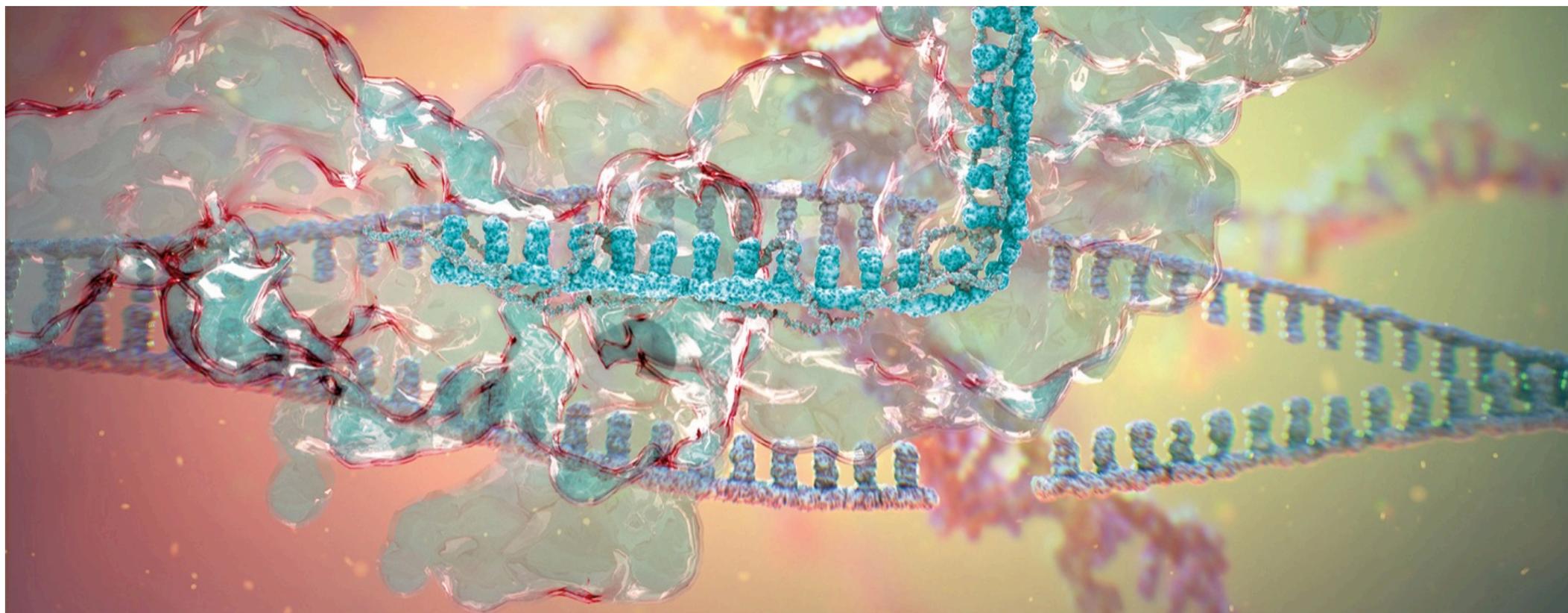


# Clinical Trials Appendix

## Q4 2015 Update

AstraZeneca   
What science can do



The following information about AstraZeneca clinical studies in Phases I-IV has been created with selected information from [clinicaltrials.gov](http://clinicaltrials.gov) to facilitate understanding of key aspects of our clinical programmes and is correct to the best of our knowledge as of 31 December 2015, unless otherwise specified.

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

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



# List of abbreviations

<b>AEs</b>	Adverse Events	<b>LCM</b>	Lifecycle Management	<b>Q3W</b>	Every Three Weeks
<b>ASA</b>	Acetylsalicylic Acid	<b>LPD</b>	Last Patient Dosed	<b>Q4W</b>	Every Four Weeks
<b>BiD</b>	Twice Daily	<b>MAD</b>	Multiple Ascending Dose Study	<b>Q8W</b>	Every Eight Weeks
<b>CE</b>	Clinically Evaluable	<b>MDI</b>	Metered Dose Inhaler	<b>QD</b>	Once Daily
<b>cMITT</b>	Clinical Modified Intent-To-Treat population	<b>MITT</b>	Modified Intent-To-Treat population	<b>SAD</b>	Single Ascending Dose Study
<b>DLT</b>	Dose Limiting Toxicity	<b>mMITT</b>	Microbiological Modified Intent-To-Treat population	<b>SC</b>	Sub-cutaneous
<b>FEV</b>	Forced Expiratory Volume	<b>MTD</b>	Maximum Tolerated Dose	<b>TiD</b>	Three Times a Day
<b>FPD</b>	First Patient Dosed	<b>MTX</b>	Methotrexate	<b>TOC</b>	Test of Cure
<b>HIF-PHI</b>	Hypoxia-inducible factor prolyl hydroxylase inhibitor	<b>NME</b>	New Molecular Entity	<b>XR</b>	Extended Release
<b>ICS</b>	Inhaled Corticosteroid	<b>OLE</b>	Open Long Term Extension		
<b>IM</b>	Intra-muscular	<b>ORR</b>	Objective Response Rate		
<b>IR</b>	Immediate Release	<b>OS</b>	Overall Survival		
<b>IV</b>	Intra-venous	<b>PARP</b>	Poly ADP ribose polymerase		
<b>LABA</b>	Long Acting Beta Agonist	<b>PFS</b>	Progression Free Survival		
<b>LAMA</b>	Long Acting Muscarinic Agonist	<b>Q2W</b>	Every Other Week		



# Movement since Q3 2015

New to Phase I	New to Phase II	New to Pivotal Study	New to Registration
<p><b>NMEs</b>  <b>AZD0156</b>                      ATM serine/threonine kinase solid tumours  <b>AZD2811</b>                      Aurora B kinase solid tumours  <b>AZD4076</b>                      miR103/107 NASH  <b>AZD8871</b>                      MABA COPD  <b>AZD9567</b>                      oral SGRM rheumatoid arthritis  <b>MEDI1873</b>                      GTR solid tumours  <b>MEDI4166</b>                      PCSK9/GLP-1 diabetes/cardiovascular  <b>MEDI4276</b>                      HER2 solid tumours  <b>MEDI9197</b>                      TLR 7/8 solid tumours</p> <p><b>Additional indications</b>                      anifrolumab<sup>#</sup>                      IFN-alphaR mAb systemic lupus erythematosus SC                      lesinurad+allopurinol                      URAT-1+XO chronic treatment of hyperuricemia in patients with gout</p>	<p><b>NMEs</b>  <b>AZD3759 or Tagrisso (AZD9291) BLOOM</b>                      EGFR brain metastases in advanced EGFRm NSCLC  <b>MEDI6012</b>                      LCAT ACS  <b>MEDI8852</b>                      Influenza A</p> <p><b>Additional indications</b>                      anifrolumab<sup>#</sup>                      IFN-alphaR mAb lupus nephritis</p>	<p><b>NME</b>  <b>acalabrutinib<sup>#1</sup></b>                      B-cell blood cancers</p> <p><b>Additional indications</b>  <b>Tagrisso (AZD9291) ADAURA</b>                      EGFR adjuvant EGFRm NSCLC  <b>Tagrisso (AZD9291) AURA 3<sup>2</sup></b>                      ≥2nd-line advanced EGFRm T790M NSCLC  <b>durvalumab#+tremelimumab ALPS<sup>1</sup></b>                      PD-L1+CTLA-4 metastatic pancreatic ductal carcinoma  <b>durvalumab#+tremelimumab DANUBE</b>                      PD-L1+CTLA-4 1st-line bladder  <b>durvalumab#+tremelimumab EAGLE</b>                      PD-L1+CTLA-4 2nd-line SCCHN  <b>durvalumab#+tremelimumab KESTREL</b>                      PD-L1+CTLA-4 1st-line SCCHN  <b>durvalumab#+tremelimumab NEPTUNE</b>                      PD-L1+CTLA-4 1st-line NSCLC</p>	<p><b>NMEs</b>  <b>brodalumab [US, EU]</b>                      psoriasis  <b>MEDI-550</b>                      pandemic influenza virus vaccine<sup>3</sup>  <b>ZS-9</b>                      potassium binder hyperkalaemia</p> <p><b>Lifecycle Management</b>  <b>linaclotide [CN]<sup>4</sup></b>                      irritable bowel syndrome with constipation</p>
Removed from Phase I	Removed from Phase II	Removed from Phase III	Removed from Registration
<p><b>NMEs</b>  <b>AZD9977</b>                      MCR diabetic kidney disease</p> <p><b>Additional indications</b>  <b>durvalumab sequencing study</b>                      PD-L1 NSCLC</p>	<p><b>NMEs</b>  <b>AZD4901<sup>5</sup></b>                      NK3 receptor polycystic ovarian syndrome  <b>AZD5847</b>                      oxazolidinone antibacterial tuberculosis</p> <p><b>Additional indications</b>  <b>tralokinumab</b>                      IL-13 idiopathic pulmonary fibrosis</p>	<p><b>Additional indications</b>  <b>durvalumab<sup>#</sup> ATLANTIC<sup>1</sup></b>                      PD-L1 3rd-line NSCLC (PD-L1 positive)</p>	<p><b>NME</b>  <b>Tagrisso (AZD9291)<sup>6</sup></b>                      ≥2nd-line advanced EGFRm T790M NSCLC  <b>Zurampic (lesinurad)<sup>6</sup></b>                      chronic treatment of hyperuricemia in patients with gout</p>

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

<sup>1</sup> Registrational Phase II/III study

<sup>1</sup> Acerta Pharma agreement completed Q1 2016; <sup>2</sup> Trial commenced Q3 2014; <sup>3</sup> MEDI-550 does not count toward late-stage NME totals (MAA submitted to EMEA December 2015);

<sup>4</sup> Regulatory submission accepted in China in January 2016; <sup>5</sup> Divested; <sup>6</sup> Approved Q4 2015



# Q4 2015 New Molecular Entity (NME)<sup>1</sup> Pipeline

RIA CVMD Oncology Infection, Neuroscience, Gastrointestinal

Phase I 35 New Molecular Entities		Phase II 27 New Molecular Entities		Phase III 10 New Molecular Entities		Applications Under Review 5 New Molecular Entities	
Small molecule	Large molecule	Small molecule	Large molecule	Small molecule	Large molecule	Small molecule	Large molecule
AZD1449# TLR9 asthma	MEDI4920 CD40L-Tn3 pSS	AZD7594 InhaledSGRM asthma	anifrolumab# IFNαR lupus nephritis	PT010 LABA/LAMA/ICS COPD	anifrolumab#TULIP IFNαR SLE	PT003 PINNACLE LABA/LAMA COPD	brodalumab# IL-17R psoriasis
AZD7986 DPP1 COPD	MEDI5872# B7RP1 SLE	abediterol (AZD0548) LABA asthma/COPD	AZD9412# InhaledβIFN asthma/COPD	roxadustat# HIFPH anaemia CKD/ESRD	benralizumab# IL-5R severe asthma	ZS-9 potassium binder hyperkalaemia	
AZD8999 MABA asthma/COPD	MEDI7836 IL-13 asthma	AZD7624 Inhaledp38 inhibitor COPD	mavrilimumab# GM-CSFR rheumatoid arthritis	acalabrutinib ψ BTK B-cell blood cancers	tralokinumab IL-13 severe asthma	cediranib ICON 6 VEGF PSR ovarian	
AZD8871 MABA COPD	anifrolumab# IFNαR SLESC	RDEA3170 URAT-1 hyperuricemia/gout	MEDI2070# IL-23 Crohns	selumetinib# SELECT-1 MEK 2L KRAS+ NSCLC	durvalumab# HAWK† PD-L1 2L SCCHN	CAZ AVI# BLI/cephalosporin SBI/ciAI/cUTI	
AZD9567 SGRM RA	MEDI0382 GLP-1/glucagon diabetes/obesity	AZD3759 or Tagrisso (AZD9291) BLOOM	MEDI-551# CD19 neuromyelitis optica		moxetumomab# CD22 HCL		
AZD4076 miR103/107 NASH	MEDI4466 PDS/K9/GLP-1 diabetes/CV	AZD1775# Wee-1 ovarian	abritumomab# α4β7 Crohns/ulcerative colitis		tremelimumab DETERMINE† CTLA-4 mesothelioma		MEDI-550 pandemic influenza virus vaccine
AZD0156 ATM solid tumours	MEDI8111 Rh-Factor II trauma/bleeding	AZD2014 mTOR 1/2 solid tumours	MEDI9929# TSLP asthma/atopic dermatitis				
AZD2811# Aurora solid tumours	MEDI0562# hOX40 solid tumours	AZD4547 FGFR solid tumours	MEDI6012 LCAT ACS				
AZD5312# androgen receptor prostate	MEDI0639# DLL-4 solid tumours	AZD5363# AKT breast cancer	MEDI-551# CD19 DLBCL				
AZD6738 ATR solid tumours	MEDI0680 PD-1 solid tumours	savolitinib# MET pRCC	MEDI-573# IGF metastatic breast cancer				
AZD8186 PI3Kβ solid tumours	MEDI1873 G1TR solid tumours	AZD3241 MPO Multiple System Atrophy	MEDI4893 staph alpha toxin SSI				
AZD8835 PI3Kα solid tumours	MEDI3617# ANG-2 solid tumours	AZD3293# BACE Alzheimer's	MEDI7510 sF+GLA-SE RSV prevention				
AZD9150# STAT3 haems & solids	MEDI4276 HER2 solid tumours	CXL# BLI/cephalosporin MRSA	MEDI8852 influenza A treatment				
AZD9496 SERD ER+ breast	MEDI-565# CEA BITE GI tumours		MEDI8897# RSV passive prophylaxis				
MEDI9197# TLR7/8 solid tumours	MEDI6383# Ox40 FP solid tumours						
ATMAVI# BLI/SBI	MEDI9447 CD73 solid tumours						
AZD8108 NMDA suicidal ideation	MEDI1814 amyloidβ Alzheimer's						
	MEDI3902 Psi/PcrV pseudomonas						

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

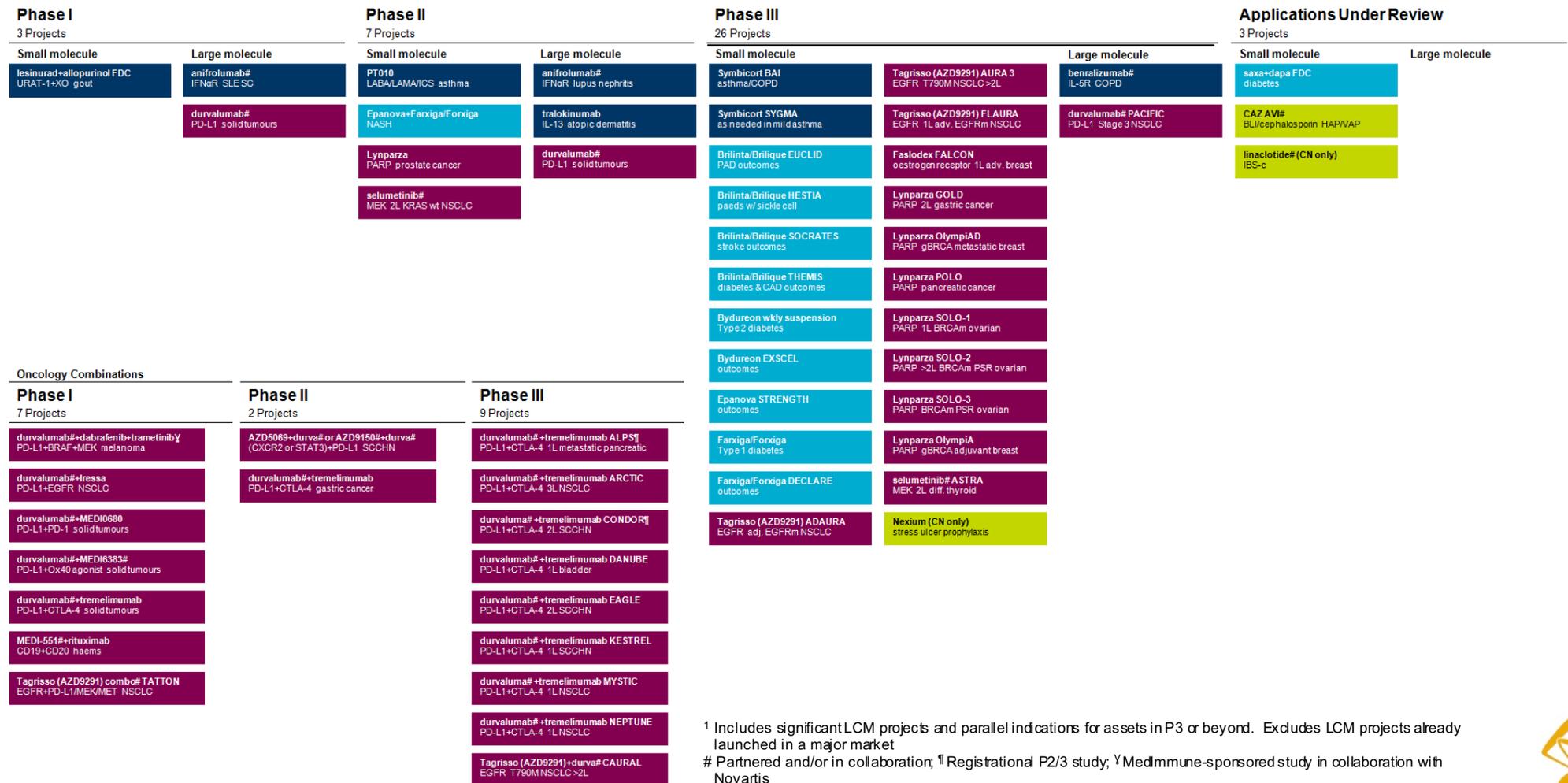
# Partnered and/or in collaboration; † Registrational P2/3 study; ψ Completion of the agreement with Acerta Pharma Q1 2016

† MEDI-550 does not count toward late-stage NME totals (submitted to EMEA December 2015)



# Q4 2015 Lifecycle Management (LCM)<sup>1</sup> Pipeline

RIA CVMD Oncology Infection, Neuroscience, Gastrointestinal



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

# Partnered and/or in collaboration; <sup>†</sup> Registrational P2/3 study; <sup>Y</sup> MedImmune-sponsored study in collaboration with Novartis



# AstraZeneca

AstraZeneca   
What science can do

**Lifecycle management (new uses of existing medicines)**



# Symbicort (ICS/LABA)

## Mild asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - Medimmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III SYGMA1  NCT02149199	Patients in need of GINA step 2 treatment	N = 3,750	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Symbicort Turbuhaler 160/4.5 µg 'as needed' + Placebo Pulmicort Turbuhaler 200 µg bid</li> <li><b>Arm 2:</b> Pulmicort 200 µg Turbuhaler bid + terbutaline 0.4 mg Turbuhaler 'as needed'</li> <li><b>Arm 3:</b> terbutaline Turbuhaler 0.4 mg 'as needed' + placebo Pulmicort 200 µg Turbuhaler bid</li> </ul> Global study – 19 countries	<ul style="list-style-type: none"> <li>Well controlled asthma weeks</li> <li>Time to first severe asthma exacerbation</li> <li>Time to first moderate or severe asthma exacerbation</li> <li>Average change from baseline in pre-dose FEV1</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: 2017</li> <li>Est. completion: 2017</li> <li>Est. topline results: 2017</li> </ul>
Phase III SYGMA2  NCT02224157	Patients in need of GINA step 2 treatment	N = 4,114*	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Symbicort Turbuhaler 160/4.5 µg 'as needed' + Placebo Pulmicort Turbuhaler 200 µg bid</li> <li><b>Arm 2:</b> Pulmicort 200 µg Turbuhaler bid + terbutaline 0.4 mg Turbuhaler 'as needed'</li> </ul> Global study – 25 countries	<ul style="list-style-type: none"> <li>Annual severe asthma exacerbation rate</li> <li>Time to first severe asthma exacerbation</li> <li>Average change from baseline in pre-dose FEV1</li> <li>Time to study specific asthma related discontinuation</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: 2017</li> <li>Est. completion: 2017</li> <li>Est. topline results: 2017</li> </ul>

\* There will be a blinded review for event rate which means that the final number of patients is uncertain until this review has taken place.



# Eklira/Tudorza (LAMA)

## Chronic Obstructive Pulmonary Disease (COPD)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IV NCT02375724 Partnered: Menarini	Patients with COPD	N = 224	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Acclidinium bromide 400 µg</li> <li>• <b>Arm 2:</b> Placebo to addinium bromide 400 µg</li> </ul> Global Study – 5 countries	<ul style="list-style-type: none"> <li>• Change from baseline in Overall E-RS Total score (i.e. score over the whole 8 weeks study period)</li> <li>• Change from baseline in Overall E-RS Cough and Sputum domain score</li> <li>• Change from baseline in the LCQ Total score at Week 8. Average change from baseline in pre-dose FEV1</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q3 15</li> </ul> Clinically completed  Est. topline results H1 16  Est. completion date: H1 16
Phase IV ASCENT NCT01966107 Partnered: Forest/Actavis	Patients with moderate to very severe COPD	N = 4,000	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Acclidinium bromide 400 µg</li> <li>• <b>Arm 2:</b> Placebo to addinium bromide 400 µg</li> </ul> Global Study – 2 countries	<ul style="list-style-type: none"> <li>• Time to first Major Adverse Cardiovascular Event (MACE). Up to 36 Months</li> <li>• Rate of moderate or severe COPD exacerbations per patient per year during the first year of treatment.</li> <li>• Rate of hospitalizations due to COPD exacerbation per patient per year during the first year of treatment</li> <li>• Time to first Major Adverse Cardiovascular Event (MACE) or other serious cardiovascular events of interest. Up to 36 Months</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• LPD: H2 16</li> </ul> Est. completion date: 2018
Phase IV NCT02153489 Partnered: Almirall	Patients with stable moderate and severe COPD	N = 30	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Acclidinium bromide 400 µg</li> <li>• <b>Arm 2:</b> Placebo to Acclidinium bromide 400 µg</li> </ul> Local Study – 1 country	<ul style="list-style-type: none"> <li>• Change from baseline in normalized forced expiratory volume in one second (FEV1). Week 3. FEV1 over the 24-hour period (AUC0-24) will be measured following morning administration</li> <li>• Adverse events. Week 5. A follow up telephone call will be made 14 days after the last study drug administration (for completed patients) or premature discontinuation visit (when applicable) to record adverse events</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q1 15</li> </ul> Topline results: Q4 15



# Duaklir (LAMA/LABA)

## Chronic Obstructive Pulmonary Disease (COPD)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IV ACTIVATE  NCT02424344  CO-FUNDED: Menarini	Patients with moderate to COPD	N = 268	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Aclidinium/formoterol FDC 400/12 µg</li> <li><b>Arm 2:</b> Placebo to aclidinium/formoterol FDC 400/12 µg</li> </ul> Global Study – 5 Countries	<ul style="list-style-type: none"> <li>Change from baseline in trough Functional Residual capacity (FRC) after 4 weeks of treatment</li> <li>Change from baseline in Endurance Time (ET) during constant work rate cycle ergometry to symptom limitation at 75% of Wmax after 8 weeks of treatment</li> <li>Percentage of inactive patients (&lt;6000 steps per day) after 8 weeks on treatment</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. completion date: H2 16</li> </ul>



# *Daxas/DaliResp* (oral PDE4 inhibitor)

## Chronic Obstructive Pulmonary Disease (COPD)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IV RESPOND NCT01443845	COPD	N = 2,354	• 52W, Randomised, DB with Roflumilast 500µg OD vs Placebo	• Rate of Moderate or Severe COPD Exacerbations/Patient/Year	• Ongoing not recruiting • Est. completion date: H1 16
Phase IV OPTIMISE NCT02165826	COPD	N = 1,323	• 12W, Randomized, DB to evaluate Tolerability and PK of Roflumilast 500µg OD with an Up-titration Regimen during the first 4Ws	• Discontinuation rate on Roflumilast 500µg QD due to any reason	• Completed • Est. results: mid-2016
Phase IIIb ROBERT NCT01509677	COPD	N = 158	• 16W, Randomized, Placebo-controlled, DB, Parallel-group trial to Assess the Anti-inflammatory Effects of Roflumilast	• Number of inflammatory cells CD8+ in bronchial biopsy tissue specimen (sub-mucosa) measured at randomisation visit V2 and at the end of the intervention period (V6)	• Recruiting • Est. results H2 16



# Zurampic (lesinurad) (SURI, URAT1 inhibitor)

## Gout

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III CLEAR Extension NCT01808131	Gout previously enrolled in studies CLEAR 1 & 2	N = 717	<ul style="list-style-type: none"> <li>Zurampic 200 or 400 mg QD</li> <li>All patients: SOC allopurinol QD</li> </ul>	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of Zurampic in combination with allopurinol</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>Study ongoing</li> </ul>
Phase III CRYSTAL Extension NCT01808144	Gout previously enrolled in CRYSTAL study	N = 196	<ul style="list-style-type: none"> <li>Zurampic 200 or 400 mg QD</li> <li>All patients: febuxostat 80 mg QD</li> </ul>	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of Zurampic in combination with febuxostat</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>Study ongoing</li> </ul>
Phase II RDEA594-203 Open-label Extension NCT01001338	Gout previously enrolled in Phase II RDEA594-203 study	N = 87	<ul style="list-style-type: none"> <li>Zurampic 200, 400, or 600 mg QD</li> <li>All patients: SOC allopurinol QD</li> </ul>	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of Zurampic in combination with allopurinol</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 11</li> <li>Study ongoing</li> </ul>



# Zurampic (lesinurad)/Allopurinol FDC (SURI, URAT1 inhibitor/XOI inhibitor)

## Gout

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I RDEA594-501 Randomized, Open-label, cross-over, relative bioavailability NCT02581553	Healthy Male Subjects	N = 74	<b>Cohort 1: cross-over, rel. BA</b> Tx. 1: Lesinurad/allopurinol 200/300 FDC Tx. 2: coadministered lesinurad 200mg + allopurinol 300mg <b>Cohort 2: cross-over, Food Effect, BA</b> Tx. 1: Lesinurad/allopurinol 200/300 FDC (fasted) Tx. 2: Lesinurad/allopurinol 200/300 FDC (fed – high fat meal)	<ul style="list-style-type: none"> <li>Assess the bioavailability of lesinurad/allopurinol 200/300 FDC tablets relative to coadministered lesinurad and allopurinol tablets in healthy adult male subjects</li> <li>To assess the effect of a high fat/high calorie meal on the pharmacokinetics of lesinurad/allopurinol 200/300 FDC tablets in healthy adult male subjects</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> </ul>



# Brilinta/Brilique (ADP receptor antagonist)

## Cardiovascular

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III PEGASUS NCT01225562	Patients with prior MI	N = 21,000	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Ticagrelor 90 mg BiD</li> <li>• <b>Arm 2:</b> Ticagrelor 60 mg BiD</li> <li>• <b>Arm 3:</b> Placebo BiD</li> </ul> <i>on a background of ASA</i>  Global study – 31 countries	<ul style="list-style-type: none"> <li>• Composite of CV death, non-fatal MI and non-fatal stroke</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 10</li> <li>• LPD: Q4 14</li> <li>• Completion date: Q1 15</li> </ul>
Phase III EUCLID NCT01732822	Patients with PAD	N = 13,500	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Ticagrelor 90 mg BiD</li> <li>• <b>Arm 2:</b> Clopidogrel 75 mg QD</li> </ul> <i>monotherapy trial</i>  Global study – 28 countries	<ul style="list-style-type: none"> <li>• Composite of CV death, non-fatal MI and ischemic stroke</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 12</li> <li>• LPD: H2 16</li> <li>• Est. topline results: H2 16</li> </ul>
Phase III SOCRATES NCT01994720	Patients with stroke or TIA	N = 13,600	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Ticagrelor 90 mg BiD</li> <li>• <b>Arm 2:</b> ASA 100mg/day</li> </ul> <i>monotherapy trial</i>  Global study – 33 countries	<ul style="list-style-type: none"> <li>• Composite of non-fatal stroke, non-fatal MI and all cause death</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 14</li> <li>• LPD: H1 16</li> <li>• Est. topline results: H1 16</li> </ul>
Phase III THEMIS NCT01991795	Patients with type 2 diabetes and coronary artery disease without a previous history of MI or stroke	N = 19,000	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Ticagrelor 60 mg BiD</li> <li>• <b>Arm 2:</b> Placebo BiD</li> </ul> <i>on a background of ASA if not contra indicated or not tolerated</i>  Global study – 42 countries	<ul style="list-style-type: none"> <li>• Composite of CV death, non-fatal MI and non-fatal stroke</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 14</li> <li>• LPD: 2018</li> <li>• Est. topline results: 2018</li> </ul>
Phase III (BE) NCT02436577	Japanese healthy volunteers	N = 36	Single dose, Cross-Over <ul style="list-style-type: none"> <li>• <b>Arm 1</b> Ticagrelor OD tablet 90 mg + 150 mL of water</li> <li>• <b>Arm 2</b> Ticagrelor OD tablet 90 mg without water</li> <li>• <b>Arm 3</b> Ticagrelor IR tablet 90 mg) + 200 mL of water</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>• BE of ticagrelor Dispersible Tablet vs ticagrelor IR tablet</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: Q3 15</li> <li>• Est. topline results: H1 16</li> </ul>
Phase III (BE) NCT02400333	Caucasian healthy volunteers	N = 36	Single dose, Cross-Over <ul style="list-style-type: none"> <li>• <b>Arm 1</b> Ticagrelor OD tablet 90 mg +200 ml of water</li> <li>• <b>Arm 2</b> Ticagrelor OD tablet 90 mg without water</li> <li>• <b>Arm 3</b> Ticagrelor OD tablet 90 mg (suspended in water) via nasogastric tube</li> <li>• <b>Arm 4</b> Ticagrelor IR tablet 90 mg + 200mL of water</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>• BA/BE of ticagrelor Dispersible Tablet vs ticagrelor IR tablet</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: Q3 15</li> <li>• Est. topline results: H1 16</li> </ul>



# Epanova (omega-3 carboxylic acids)

## Hypertriglyceridaemia

Study phase	Patient population	Number of patients	Design	Endpoints	Status
<b>Phase III Japanese Long-term Safety</b> NCT02463071	Japanese patients with hypertriglyceridemia	N = 375	<ul style="list-style-type: none"> <li>Epanova 2 g and 4 g vs. Placebo (after meal) daily for 52 weeks</li> </ul> Global study – 1 country	<ul style="list-style-type: none"> <li>Safety in Japanese patients</li> <li>% change in triglycerides</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2017</li> </ul>
<b>Phase III EVOLVE II</b> NCT02009865	Severe hyper-triglyceridaemia	N = 162	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Epanova 2g QD</li> <li><b>Arm 2:</b> Placebo (olive oil)</li> </ul> Global study – 7 countries	<ul style="list-style-type: none"> <li>Change in serum triglycerides over 12 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 13</li> <li>LPD: Q4 14</li> <li>Completed: Q4 15</li> </ul>
<b>Phase III STRENGTH (CVOT)</b> NCT02104817	Patients with hypertriglyceridaemia and high CVD risk	N = 13,000	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Epanova 4g QD + statin</li> <li><b>Arm 2:</b> Placebo (corn oil) + statin</li> </ul> Global study – 22 countries	<ul style="list-style-type: none"> <li>Composite of MACE</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. topline results: 2019</li> </ul>
<b>Phase II EFFECT I</b> NCT02354976	Overweight patients with hypertriglyceridemia	N = 75	<ul style="list-style-type: none"> <li>Epanova 4 g vs. Placebo vs. Fenofibrate 200 mg daily for 12 weeks</li> </ul> Global study – 1 country	<ul style="list-style-type: none"> <li>Reduction in liver fat content(%) at the end of 12 weeks compared to placebo</li> <li>Reduction in liver fat content(%) at the end of 12 weeks compared to fenofibrate</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: H1 16</li> <li>Est. topline results: H1 16</li> </ul>
<b>Phase II EFFECT II</b> NCT02279407	Type 2 DiM Liver fat >5.5%	N = 80	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Epanova 4g QD</li> <li><b>Arm 2:</b> Placebo (olive oil)</li> <li><b>Arm 3:</b> Epanova 4gm + dapaglifozin 10 mg QD</li> <li><b>Arm 4:</b> dapaglifozin 10 mg</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>Reduction in liver fat content(%) at the end of 12 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q4 15</li> <li>Topline results: H1 16</li> </ul>
<b>Phase I PRECISE</b> NCT02370537	Pancreatic Exocrine Insufficiency (PEI) in patients with type 2 diabetes	N = 66	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Epanova® 4g single dose</li> <li><b>Arm 2:</b> Omacor® 4 g single dose</li> </ul> Global study – 6 countries in Europe	<ul style="list-style-type: none"> <li>Presence of Pancreatic Exocrine Insufficiency (PEI), Pharmacokinetics of Epanova and Omacor following a single oral dose in patients with different degrees of PEI</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q3 15</li> <li>Est. topline results: H1 16</li> </ul>



# Epanova (omega-3 carboxylic acids)

## Hypertriglyceridaemia

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I Microsphere bioavailability NCT02359045	Healthy volunteers	N = 40 Part A N = 42 Part B	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> D1400147 4g</li> <li>• <b>Arm 2:</b> D14000136 4g</li> <li>• <b>Arm 3:</b> D14000137 4g</li> <li>• <b>Arm 4:</b> Epanova 4g</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>• Rate and extent of absorption of omega-3-carboxylic acids following single-dose oral administration of test formulations A, B and C and reference formulation (Epanova®) under fed and fasted condition, by assessment of AUC, AUC(0-72) and Cmax</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q3 15</li> <li>• Completed: Q4 15</li> </ul>
Phase I Japanese food interaction NCT02372344	Healthy male volunteers	N = 42	<ul style="list-style-type: none"> <li>• Epanova 4 g X 3 separate occasions (fasting, before meal, and after meal)</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>• Effect of food timing (fasting, before meal, and after meal) on pharmacokinetics (AUC, Cmax, AUC0-72)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q2 15</li> <li>• Completed: Q4 15</li> </ul>
Phase I SAD/MAD NCT02209766	Healthy male Japanese and Caucasian subjects	N = 18	<ul style="list-style-type: none"> <li>• <b>Arm 1: (Japanese):</b> Epanova 2g vs. Placebo QD</li> <li>• <b>Arm 2: (Japanese):</b> Epanova 4g vs Placebo QD</li> <li>• <b>Arm 3: (Caucasian):</b> Epanova 4g vs Placebo</li> </ul> Local study – 1 country	<ul style="list-style-type: none"> <li>• PK of single and multiple doses in healthy male Japanese subjects</li> <li>• Safety/tolerability profile</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: Q4 14</li> <li>• Completed: Q3 15</li> </ul>
Phase I NCT02189252	Patients with a history of pancreatitis	N = 16	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Epanova 4g → Lovaza 4g QD</li> <li>• <b>Arm 2:</b> Lovaza 4g → Epanova 4 g QD</li> <li>• <b>Arm 3:</b> Epanova 2g → Lovaza 4g QD</li> <li>• <b>Arm 4:</b> Lovaza 4g → Epanova 2g QD</li> </ul> Global study – 2 countries	<ul style="list-style-type: none"> <li>• Plasma concentration vs. time curve (AUC0-t) [Time Frame: 0 to 24 hours (AUC0-24)]</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: Q2 15</li> <li>• Topline results: Q4 15</li> </ul>



# Onglyza (DPP-4 inhibitor)

## Type 2 Diabetes

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III NCT02104804	Type 2 diabetes mellitus	N = 444	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Onglyza 5 mg QD +insulin or Onglyza 5 mg QD+ insulin + Met: Placebo QD +insulin or Placebo</li> <li><b>Arm 2:</b> QD + insulin + Met</li> </ul> Study in China	Primary: <ul style="list-style-type: none"> <li>Change from baseline in HbA1c at 24 weeks</li> </ul> Secondary: <ul style="list-style-type: none"> <li>Change from baseline at 24 weeks in 120-minute postprandial plasma glucose (PPG) in response to a meal tolerance</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: H1 16</li> <li>Est. topline results: H1 16</li> </ul>
Phase III NCT02273050	Type 2 diabetes mellitus	N = 639	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Onglyza 5 mg + Met (500 mg with titration)</li> <li><b>Arm 2:</b> Onglyza 5 mg + Placebo</li> <li><b>Arm 3:</b> Met (500 mg with titration) +Placebo</li> </ul> Study in China	Primary: <ul style="list-style-type: none"> <li>The change in HbA1c from baseline to week 24 (prior to rescue)</li> </ul> Secondary: <ul style="list-style-type: none"> <li>The proportion of subjects achieving a therapeutic glycaemic response at week 24 (prior to rescue) defined as HbA1c &lt;7.0%</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>



# Farxiga/Forxiga (SGLT-2 inhibitor)

## Diabetes

Study phase	Patient population	Number of patients	Design	Endpoints	Status
<b>Phase IV</b> NCT02157298	Japanese patients with type 2 diabetes with inadequate glycemic control on insulin	N = 266	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 5mg</li> <li><b>Arm 2:</b> Placebo</li> </ul> Japan study	<ul style="list-style-type: none"> <li>Change from baseline in HbA1c at week 16</li> <li>1 year LT data</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q4 15</li> <li>Topline results: (Short Term part of study) Q3 15</li> <li>Est. completion date: H1 16</li> </ul>
<b>Phase III/IV DECLARE</b> NCT01730534	Type 2 diabetes mellitus with high risk for CV event	N = 17,276	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 10 mg QD + standard of care therapy QD</li> <li><b>Arm 2:</b> Placebo + standard of care therapy for Type 2 Diabetes</li> </ul> Global study – 33 countries	<ul style="list-style-type: none"> <li>Time to first event included in the composite endpoint of CV death, MI or ischemic stroke</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>LPD: 2019</li> <li>Est. topline results: 2019</li> <li>Est. completion date: 2019</li> </ul>
<b>Phase III</b> NCT02096705 Partnered: BMS	Asian subjects with type 2 diabetes who have inadequate glycemic control on insulin	N = 260	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 10 mg QD for 24 weeks + background Insulin</li> <li><b>Arm 2:</b> Placebo QD for 24 weeks + background Insulin</li> </ul> Asian study 3 countries	<ul style="list-style-type: none"> <li>Change from baseline in HbA1c at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>LPD: H1 16</li> <li>Est. topline results: H1 16</li> <li>Est. completion date: H1 16</li> </ul>
<b>Phase III DERIVE</b> NCT02413398	Patients with Type 2 diabetes and moderate renal impairment	N = 302	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 10 mg QD for 24 weeks</li> <li><b>Arm 2:</b> Placebo 10 mg QD for 24 weeks</li> </ul> Global study – 5 countries	<ul style="list-style-type: none"> <li>Change from baseline in HbA1c at Week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2017</li> <li>Est. completion date: 2017</li> </ul>
<b>Phase III DEPICT 1</b> NCT02268214 Partnered: BMS	Type 1 diabetes mellitus	N = 768	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 5 mg QD 52 weeks + insulin</li> <li><b>Arm 2:</b> Forxiga 10 mg QD 52 weeks + insulin</li> <li><b>Arm 3:</b> Placebo QD 52 weeks + insulin</li> </ul> Global study – 17 countries	Primary: <ul style="list-style-type: none"> <li>Adjusted Mean Change From Baseline in Haemoglobin A1C (HbA1c) at Week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: 2017</li> <li>Est. topline results: 2017</li> </ul>
<b>Phase III DEPICT 2</b> NCT02460978 Partnered: BMS	Type 1 diabetes mellitus	N = 768	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Forxiga 5 mg QD 52 weeks + insulin</li> <li><b>Arm 2:</b> Forxiga 10 mg QD 52 weeks + insulin</li> <li><b>Arm 3:</b> Placebo QD 52 weeks + insulin</li> </ul> Global Study-14 countries	Primary: <ul style="list-style-type: none"> <li>Adjusted Mean Change From Baseline in Haemoglobin A1C (HbA1c) at Week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2018</li> </ul>



# Saxagliptin/dapagliflozin (DPP-4/SGLT-2 inhibitors)

## Diabetes

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III NCT02284893	Type 2 diabetes mellitus	N = 420	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Saxa 5 mg + Dapa 10 mg + MetIR/XR</li> <li>• <b>Arm 2:</b> Sitagliptin 100 mg + MetIR/XR</li> </ul> Global study – 6 countries	Primary: <ul style="list-style-type: none"> <li>• Mean change from baseline in HbA1C at week 24</li> </ul> Secondary: <ul style="list-style-type: none"> <li>• The proportion of subjects achieving a therapeutic glycemic response at week 24 defined as HbA1C&lt;7%</li> <li>• Mean change in total body weight at week 24</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: H1 16</li> <li>• Est. topline results: H2 16</li> </ul>
Phase III NCT02419612	Type 2 diabetes mellitus	N = 440	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Saxa 5 mg + Dapa 10 mg + MetIR/XR</li> <li>• <b>Arm 2:</b> Glimeperide 1-6 mg + Met IR/XR</li> </ul> Global study – 10 countries	Primary: <ul style="list-style-type: none"> <li>• Mean change from baseline in HbA1c at week 52</li> </ul> Secondary: <ul style="list-style-type: none"> <li>• Mean change from baseline in total body weight at Week 52</li> <li>• The proportion of subjects achieving a therapeutic glycemic response at week 52 defined as HbA1c&lt;7.0%,</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• LPD: H2 16</li> <li>• Est. topline results: 2017</li> </ul>
Phase III NCT02551874	Type 2 diabetes mellitus	N = 598	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Saxa 5 mg + Dapa 10 mg + MetIR/XR with or without SU</li> <li>• <b>Arm 2:</b> Glargine insulin + Met IR/XR with or without SU</li> </ul> Global study – 12 countries	Primary: <ul style="list-style-type: none"> <li>• Mean change from baseline in HbA1C at week 24</li> </ul> Secondary: <ul style="list-style-type: none"> <li>• Mean change in total body weight at week 24</li> <li>• The proportion of subjects with confirmed hypoglycemia at week 24</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: H2 16</li> <li>• Est. topline results: 2017</li> </ul>



# Bydureon (GLP-1 receptor agonist)

## Type 2 Diabetes

Study phase	Patient population	Number of patients	Design	Endpoints	Status
<b>Phase IV</b> <b>EXSCEL</b>  <b>NCT01144338</b>  Partnered	Type 2 diabetes	N = 14,000	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Bydureon</i> once weekly 2mg SC</li> <li><b>Arm 2:</b> Placebo</li> </ul> On a background of standard of care medication, different degree of CV risk  Global study	<ul style="list-style-type: none"> <li>Time to first confirmed CV event in the primary composite CV endpoint (CV death, non-fatal MI, non-fatal stroke)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 10</li> <li>LPD: 2017</li> <li>Est. completion: 2018</li> </ul>
<b>Phase III</b> <b>DURATION-NEO 1</b>  <b>NCT01652716</b>  Partnered	Type 2 diabetes	N = 375	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Bydureon</i> BiD SC (autoinjector)</li> <li><b>Arm 2:</b> <i>Bydureon</i> weekly suspension SC (autoinjector)</li> </ul> On a background of diet & exercise alone or with stable regimen of oral antidiabetes  US only	<ul style="list-style-type: none"> <li>Change in HbA1c from baseline at 28 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>Completed: Q3 14</li> </ul>
<b>Phase III</b> <b>DURATION-NEO 2</b>  <b>NCT01652729</b>  Partnered	Type 2 diabetes	N = 360	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Sitagliptin</li> <li><b>Arm 2:</b> <i>Bydureon</i> weekly suspension SC (autoinjector)</li> <li><b>Arm 3:</b> Placebo</li> </ul> On a background of diet & exercise alone or with stable regimen of oral antidiabetes  US only	<ul style="list-style-type: none"> <li>Change in HbA1c from baseline at 28 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>Completed : Q3 14</li> </ul>
<b>Phase III</b> <b>DURATION 7</b>  <b>NCT02229383</b>	Type 2 diabetes	N = 440	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Bydureon</i> once weekly 2mg SC + Titrated Basal Insulin</li> <li><b>Arm 2:</b> Placebo + Titrated Basal Insulin</li> </ul> Double-blind 1:1 randomisation Background therapy with or without Metformin  Global Study	<ul style="list-style-type: none"> <li>Change in HbA1c from baseline at 28 weeks</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: H2 16</li> <li>Est. completion: H2 16</li> </ul>



# Bydureon (GLP-1 receptor agonist)

## Type 2 Diabetes

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III DURATION 8  NCT02229396	Type 2 diabetes	N = 660	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> <i>Bydureon</i> once weekly 2 mg SC</li> <li>• <b>Arm 2:</b> Dapagliflozin 10 mg</li> <li>• <b>Arm 3:</b> <i>Bydureon</i> once weekly 2 mg SC + Dapagliflozin 10 mg</li> </ul> <p>Double-blind 1:1:1 randomisation            Background therapy with Metformin 1500 mg/day up to 2 months prior to screening</p> <p>Global Study</p>	<ul style="list-style-type: none"> <li>• Change in HbA1c from baseline at 28 weeks</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: 2017</li> <li>• Est. completion:</li> <li>• H2 16 - 28-week data</li> <li>• 2017 - 52-week data</li> <li>• 2018 - 104-week data</li> </ul>



# Faslodex (oestrogen receptor antagonist)

## Breast cancer - metastatic

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III FALCON  NCT01602380	Postmenopausal women with HR+ locally advanced or metastatic breast cancer, who have not previously been treated with any hormonal therapy (1 <sup>st</sup> -line)	N ~450	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Faslodex 500 mg monthly IM + an additional dose on d14 (+ oral placebo)</li> <li><b>Arm 2:</b> Arimidex 1 mg (+ placebo injection)</li> </ul> Global study – 21 countries	<ul style="list-style-type: none"> <li>Progression Free Survival (PFS)</li> <li>Overall Survival is a secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q3 14</li> <li>Est. topline results: H1 16</li> </ul>



# Lynparza (PARP inhibitor)

## Ovarian cancer and other solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III SOLO-2 Partnered  NCT01874353	PSR BRCAm ovarian cancer	N = 264	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Lynparza</i> tablets 300 mg BiD as maintenance therapy until progression</li> <li><b>Arm 2:</b> placebo tablets BiD</li> </ul> Global study	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q4 14</li> <li>Est. topline results: H2 16</li> </ul>
Phase III SOLO-1 Partnered  NCT01844986	1L maintenance BRCAm ovarian cancer	N = 344	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Lynparza</i> tablets 300 mg BiD maintenance therapy for 2 years or until disease progression</li> <li><b>Arm 2:</b> placebo</li> </ul> Global study	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q1 15</li> <li>Est. topline results: 2017</li> </ul>
Phase III SOLO-3  NCT02282020	PSR gBRCAm ovarian cancer 3+ Line	N = 411	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Lynparza</i> 300 mg BiD to progression</li> <li><b>Arm 2:</b> Physician's choice (single agent chemotherapy)</li> </ul> Global study	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2018</li> </ul>
Phase III GOLD  NCT01924533	2L gastric cancer (all patients with a co-primary sub population)	N = 525	<ul style="list-style-type: none"> <li><b>Arm 1:</b> paclitaxel + <i>Lynparza</i> until progression</li> <li><b>Arm 2:</b> paclitaxel + placebo</li> </ul> <i>Lynparza</i> dose 100mg BiD throughout paclitaxel dose cycle & 300 mg BiD post cycle  Asian study	<ul style="list-style-type: none"> <li>Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q4 15</li> <li>Est. topline results: H2 16</li> </ul>



# Lynparza (PARP inhibitor)

## Solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III OlympiAD  NCT02000622	BRCAm metastatic breast cancer	N = 310	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 300 mg BiD, continuous to progression</li> <li><b>Arm 2:</b> Physician's choice: Capecitabine 2500 mg/m<sup>2</sup> x 14 q 21 Vinorelbine 30 mg/m<sup>2</sup> d 1, 8 q 21 Eribulin 1.4 mg/m<sup>2</sup> d 1, 8 q 21 to progression</li> </ul> Global study	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Secondary endpoint: Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q4 15</li> <li>Est. topline results: H2 16</li> </ul>
Phase III OlympiA Partnered  NCT02032823	BRCAm adjuvant breast cancer	N = 1,500	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 300 mg BiD 12 month duration</li> <li><b>Arm 2:</b> Placebo 12 month duration</li> </ul> Global study partnership with BIG and NCI/NRG	<ul style="list-style-type: none"> <li>Invasive Disease Free Survival (IDFS)</li> <li>Secondary endpoint: Distant Disease Free Survival and Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: 2018</li> <li>Est. topline results: 2020</li> </ul>
Phase III POLO  NCT02184195	Pancreas gBRCA	N = 145	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza tablets 300 mg twice daily as maintenance therapy until progression.</li> <li><b>Arm 2:</b> placebo tablets BiD</li> </ul> Global study	<ul style="list-style-type: none"> <li>Primary endpoint: Progression Free Survival</li> <li>Secondary endpoint: Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2018</li> </ul>
Phase II  NCT01972217	Metastatic castration resistant prostate CA	N = 140	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 300mg BiD + Abiraterone</li> <li><b>Arm 2:</b> Placebo + Abiraterone</li> </ul> Global study	<ul style="list-style-type: none"> <li>Radiologic Progression Free Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: Q3 15</li> <li>Est. topline results: H2 16</li> </ul>



# Tagrisso (Highly selective, irreversible EGFR TKI)

## Non-small cell lung cancer (NSCLC)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III AURA3 NCT02151981	Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	N = 410	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD9291 80mg QD</li> <li>• <b>Arm 2:</b> pemetrexed 500mg/m<sup>2</sup> + carboplatin AUC5 or pemetrexed 500mg/m<sup>2</sup> + cisplatin 75mg/m<sup>2</sup> (2:1 randomisation)</li> </ul> Global study	<ul style="list-style-type: none"> <li>• Progression Free Survival</li> <li>• Overall Survival is a secondary endpoint</li> <li>• PFS</li> <li>• OS and QoL as secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• Enrollment complete</li> <li>• Est. primary completion: H2 16</li> </ul>
Phase III FLAURA NCT02296125	Advanced EGFRm NSCLC 1L	N = 650	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD9291 80mg</li> <li>• <b>Arm 2:</b> erlotinib 150mg or gefitinib 250 mg (dealers choice); 1:1 randomisation</li> </ul> Global study	<ul style="list-style-type: none"> <li>• PFS</li> <li>• OS and QoL as secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• Est. completion: 2017</li> </ul>
Phase III ADAURA NCT02511106	Adjuvant EGFRm NSCLC	N = 700	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD9291 80mg QD following complete tumour resection, with or without chemotherapy</li> <li>• <b>Arm 2:</b> placebo</li> </ul> Global study	<ul style="list-style-type: none"> <li>• DFS</li> <li>• DFS Rate, OS, OS Rate, QoL</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• Est. completion: 2022</li> </ul>
Phase III CAURAL NCT02454933	Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	N = 350	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD9291 (80mg QD) + MEDI4736 1(0mg/kg q2w (IV) infusion)</li> <li>• <b>Arm 2:</b> AZD9291 (80mg QD)</li> </ul> Global study	<ul style="list-style-type: none"> <li>• PFS</li> <li>• ORR, OS, QoL as secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• Partial hold</li> <li>• Est. completion: 2018</li> </ul>
Phase II AURA17 NCT02442349	Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	N = 175	<ul style="list-style-type: none"> <li>• AZD9291 80 mg QD</li> </ul> Asia Pacific Regional Study	<ul style="list-style-type: none"> <li>• ORR</li> <li>• PFS and OS secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• Enrollment complete</li> <li>• Est. primary completion: H1 16</li> </ul>
Phase II AURA2 NCT02094261	Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	N = 175	<ul style="list-style-type: none"> <li>• AZD9291 80 mg QD</li> </ul> Global study	<ul style="list-style-type: none"> <li>• ORR</li> <li>• PFS and OS secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• Enrollment complete (N=210)</li> </ul>
Phase I/II AURA NCT01802632	Advanced EGFRm NSCLC TKI failure +/- primary resistance mutation T790M	N ~ 500	<ul style="list-style-type: none"> <li>• Dose escalation study</li> <li>• Ph II Extension cohort (T790M only) 80mg QD</li> </ul> Global study	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• ORR</li> <li>• PFS and OS secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 13</li> <li>• Enrollment complete (N=201 in extension portion)</li> </ul>



# Tagrisso (Highly selective, irreversible EGFR TKI)

## Non-small cell lung cancer (NSCLC)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase Ib TATTON  NCT02143466	Advanced EGFRm NSCLC TKI failure	N ~ 90	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD9291 + MEDI4736</li> <li>• <b>Arm 2:</b> AZD9291 + AZD6094</li> <li>• <b>Arm 3:</b> AZD9291 + selumetinib</li> </ul> Global study	<ul style="list-style-type: none"> <li>• Safety, Tolerability, Pharmacokinetics and Preliminary Anti-tumour Activity</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• Dose escalation completed</li> <li>• Dose expansions ongoing</li> <li>• Partial hold on durvalumab combo arms</li> </ul>
Phase I BLOOM  NCT02228369	EGFRm NSCLC, CNS disease	N = 47	<ul style="list-style-type: none"> <li>• MAD</li> <li>• Expansion in LM patients at RP2D with AZD3759</li> <li>• Expansion in LM patients at 160mg with AZD9291</li> </ul> Global study, 4 countries	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• Est. completion: H2 16</li> </ul>



# Nexium

## Gastrointestinal

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

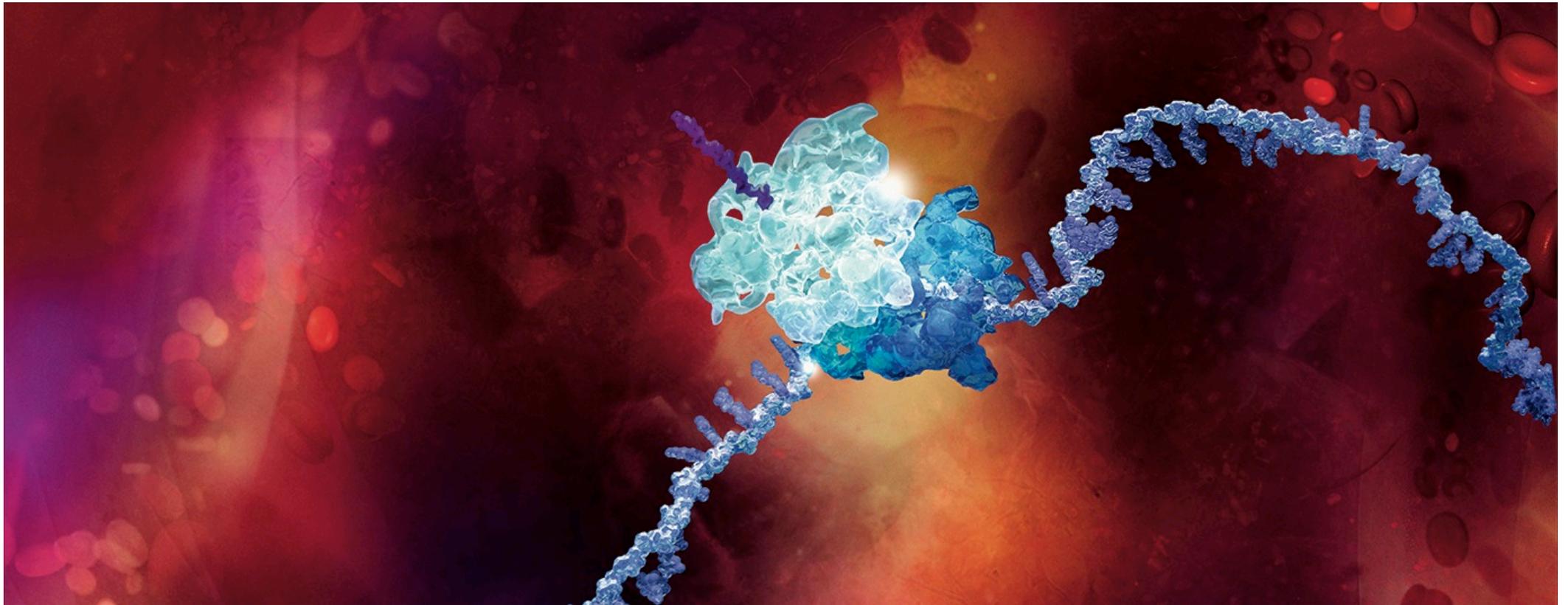
Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III NCT02157376	Seriously ill patients with at least one major risk factor for stress ulcer related bleeding (Stress Ulcer Prophylaxis, SUP)	N = 300	<ul style="list-style-type: none"><li>• <b>Arm 1:</b> Nexium 40 mg bid intermittent iv infusions given for max. 14 days</li><li>• <b>Arm 2:</b> Cimetidine(Tagamet) 300 mg bolus iv infusion followed by continuous iv infusion 50mg/h for max. 14 days</li></ul> <p>China-only study</p>	<ul style="list-style-type: none"><li>• Clinically significant upper GI bleeding</li></ul>	<ul style="list-style-type: none"><li>• FPD: Q3 14</li><li>• LPD: H1 16</li><li>• Est. completion: H1 16</li></ul>



# AstraZeneca

AstraZeneca   
What science can do

## Late-stage development



# PT003 (LABA/LAMA) COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III PINNACLE 1  NCT01854645	Moderate to very severe COPD	N = 2,103	Treatment (24-week Treatment Period) <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li>• <b>Arm 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li>• <b>Arm 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li>• <b>Arm 4:</b> Open-label tiotropium bromide inhalation powder 18 µg QD</li> <li>• <b>Arm 5:</b> Placebo MDI BiD</li> </ul> Multicenter, randomized, double-blind, parallel-group, chronic dosing, placebo- and active- controlled Estimated time from FSFV to DBL is approximately 21 months. US, Australia, New Zealand	<ul style="list-style-type: none"> <li>• Change from baseline in morning pre-dose trough FEV<sub>1</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 13</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q1 15*</li> </ul> * Clinically completed
Phase III PINNACLE 2  NCT01854658	Moderate to very severe COPD	N = 1,618	Treatment (24-week Treatment Period) <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li>• <b>Arm 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li>• <b>Arm 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li>• <b>Arm 4:</b> Placebo MDI BiD</li> </ul> Multicenter, randomized, double-blind, parallel group, chronic dosing and placebo-controlled Estimated time from FSFV to DBL is approximately 20 months. US	<ul style="list-style-type: none"> <li>• Change from baseline in morning pre-dose trough FEV</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 13</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q2 15*</li> </ul> * Clinically completed
Phase III PINNACLE 3  NCT01970878	Moderate to very severe COPD	N = 850	Treatment (28-week Treatment Period) <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li>• <b>Arm 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li>• <b>Arm 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li>• <b>Arm 4:</b> Open-label tiotropium bromide inhalation powder QD</li> </ul> Multi-center, randomized, double-blind, parallel-group and active-controlled Estimated time from FSFV to DBL is approximately 16 months. US, Australia, New Zealand	<ul style="list-style-type: none"> <li>• Overall safety, tolerability and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q2 15*</li> </ul> * Clinically completed



# PT003 (LABA/LAMA) COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIIb (Dose Indicator Study)  NCT02268396	Moderate to severe COPD	N = 150	Treatment ( 5- to 6- week Treatment Period) <ul style="list-style-type: none"> <li>• GFF 14.4/9.6 µg</li> <li>• Placebo MDI BID</li> </ul> Open-label and multiple-centre  Estimated time from FSFV to DBL is approximately 11 weeks, US	<ul style="list-style-type: none"> <li>• Percentage of devices where number of actuations as counted at the end of the study using dose indicator reading is consistent (± 20 actuations) with number of actuations reported by subject</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• LPD: Q4 14</li> <li>• Topline results: Q1 15*</li> </ul> * Clinically completed
Phase IIIb (24 Hr Lung Function Placebo)  NCT02347085	Moderate to severe COPD	N = 40	Treatments ( 8-week Treatment Period) <ul style="list-style-type: none"> <li>• GFF MDI 14.4/9.6 µg BID</li> <li>• Placebo MDI BID</li> </ul> Randomized, 2-period, 2-treatment Double-blind, Multi-centre and Crossover  Estimated time from FSFV to DBL is approximately 7 months, US	<ul style="list-style-type: none"> <li>• FEV1 AUC0-24 on Day 29</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q1 15</li> <li>• Est. topline results: Q3 15</li> </ul> * Clinically completed
Phase IIIb (24 Hr Lung Function Active)  NCT02347072	Moderate to severe COPD	N = 80	Treatments ( 12-week Treatment Period) <ul style="list-style-type: none"> <li>• GFF MDI 14.4/9.6 µg BID</li> <li>• Placebo</li> <li>• Spiriva Respimat 5 µg QD (open-label)</li> </ul> Randomized and 3-way cross-over  Estimated time from FSFV to DBL is approximately 10 months, US	<ul style="list-style-type: none"> <li>• FEV1 AUC0-24 on Day 29</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q2 15</li> <li>• Est. topline results: Q3 15</li> </ul> * Clinically completed
Phase III (Spacer Study)  NCT02454959	Moderate to severe COPD	N = 60	Treatments ( 2 week treatment Period) <ul style="list-style-type: none"> <li>• GFF MDI 14.4/9.6 µg with a spacer</li> <li>• GFF MDI 14.4/9.6 µg without a spacer</li> </ul> Randomized, 7-day, cross-over in subjects with moderate to severe COPD  Estimated time from FSFV to DBL is approximately 10 weeks, US	<ul style="list-style-type: none"> <li>• Change from morning pre-dose trough FEV<sub>1</sub> GFF 14.4/9.6 µg with Aerochamber Plus VHC relative to GFF14.4µg w/o Aerochamber Plus VHC on Day 8</li> <li>• PK parameters at all doses will include C<sub>max</sub>, AUC0-12, AUC0-t, t<sub>max</sub>, Other PD/PK parameters may be calculated, as appropriate</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: H1 16</li> <li>• Est. topline results: H1 16</li> </ul>



# PT003 (LABA/LAMA) COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design (G = Glycopyrronium, F = Formoterol fumarate)	Endpoints	Status
Phase III (Asia Pacific study)  NCT02343458	Moderate to very severe COPD	N = 1,614	<p>Treatments (24-week Treatment Period)</p> <ul style="list-style-type: none"> <li>GFF 14.4/9.6 µg (N=514)</li> <li>GP 14.4 µg (N=440)</li> <li>FF 9.6 µg (N=440)</li> <li>Placebo (N=220)</li> </ul> <p>US/China: Trough FEV1 at Week 24 of treatment            EU/Hybrid: Co-primary= Trough FEV1 over Week 24 of treatment and TDI score over 24 weeks</p> <p>Randomized, Double-Blind, Chronic-Dosing, Placebo-Controlled, Parallel-Group and Multi-centre</p> <p>Estimated time from FSFV to DBL is approximately 20 months. US, UK, Germany, Costa Rica, Hungary, Poland, Russia, South Korea, Taiwan, China, Japan</p>	<ul style="list-style-type: none"> <li>For the US/China approach, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 at Week 24 of treatment</li> <li>For the Japan approach, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 over Weeks 12 to 24 of treatment</li> <li>For the EU and Hybrid approaches, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 over 24 weeks of treatment</li> <li>TDI score (co-primary endpoint for EU and Hybrid) [Time Frame: Over 24 Weeks]</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. topline results: 2017</li> </ul>
Phase IIb (CV study)	Moderate to sever COPD	N = 32	<p>Treatments (5-week Treatment Period)</p> <ul style="list-style-type: none"> <li>GFF MDI (PT003) 14.4/9.6 µg ex-actuator</li> <li>Placebo MDI</li> </ul> <p>Randomized, 2-period, Double-blind, 2-treatment, Chronic-dosing (7 Days), Crossover Study</p> <p>Estimated time from FSFV to DB is approximately 8 months, US</p>	<ul style="list-style-type: none"> <li>Right Ventricular End Diastolic Volume Index (RVEDVi) measured at 2-hours post-dose on Day 8</li> </ul>	<ul style="list-style-type: none"> <li>FPD: H1 16</li> <li>LPD: H2 16</li> <li>Est. topline results: H2 16</li> </ul>



# PT009 (ICS/LABA)

## COPD & Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design (G = Glycopyrronium, F = Formoterol fumarate)	Endpoints	Status
Phase II (BFF Dose-ranging) NCT02196077	Moderate to severe COPD	N = 180	<ul style="list-style-type: none"> <li>BFF MDI 320/9.6 µg BiD</li> <li>BFF MDI 160/9.6 µg BiD</li> <li>BFF MDI 80/9.6 µg BiD</li> <li>BD MDI 320 µg BiD</li> <li>FF MDI 9.6 µg BiD</li> </ul> Randomized, 4-period, 5-treatment incomplete-block and crossover  Estimated time from FSFV to DBL is approximately 7 months. US	<ul style="list-style-type: none"> <li>Forced expiratory volume in 1 second area under the curve from 0 to 12 hours (FEV<sub>1</sub> AUC<sub>0-12</sub>)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: Q3 14</li> <li>Topline results: Q2 15*</li> </ul> * Clinically completed



# PT010 (LABA/LAMA/ICS) COPD & Asthma

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III (Long-term BMD and Ocular Safety)  NCT02536508	Moderate to very severe COPD	N = 500	Treatments ( 52-week Treatment Period) <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6 µg</li> <li>GFF MDI 14.4/9.6 µg</li> <li>BFF MDI 320/9.6 µg</li> <li>Symb TBH 400/12 µg</li> </ul> Estimated time from FSFV to DBL TBD, Country US Study design to be confirmed	Bone Mineral Density Sub-study Endpoint: <ul style="list-style-type: none"> <li>Change from baseline in BMD of the lumbar spine measured using DXA scans of L1-L4 at Week 52</li> </ul> Ocular Sub-study Safety Endpoint: <ul style="list-style-type: none"> <li>Change from baseline in LOCS III at Week 52</li> </ul>	<ul style="list-style-type: none"> <li>FSD: Q3 15</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>
Phase III (Exacerbation study) ETHOS  NCT02465567	Moderate to very severe COPD	N = 10,000	Treatments ( 1-year Treatment Period) <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6 µg</li> <li>BGF MDI 160/14.4/9.6 µg</li> <li>BFF MDI 320/9.6 µg</li> <li>GFF MDI 14.4/9.6 µg</li> </ul> Randomized, double-blind, multi-centre and parallel-group  Estimated time from FSFV to DBL is approximately 3 years. Multi-country	<ul style="list-style-type: none"> <li>Rate of moderate or severe COPD exacerbations</li> <li>Time to first moderate or severe COPD exacerbation</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2018</li> </ul>
Phase III (Lung function study) KRONOS  NCT02497001	Moderate to very severe COPD	N = 1,800	Treatments ( 24-week Treatment Period) <ul style="list-style-type: none"> <li>BGF MDI 320/14.4/9.6 µg</li> <li>GFF MDI 14.4/9.6 µg</li> <li>BFF MDI 320/9.6 µg</li> <li>Symb TBH 400/12 µg</li> </ul> Randomized, double-blind, parallel-group, and chronic dosing and multi-centre  Estimated time from FSFV to DBL is approximately 2 years. Multi-country	Co-Primary Endpoints (EU): <ul style="list-style-type: none"> <li>FEV1 area under curve from 0 to 4 hours (AUC0-4) over 24 weeks (BGF MDI vs BFF MDI and BGF MDI vs Symbicort TBH)</li> <li>Change from baseline in morning pre-dose trough FEV1 over 24 weeks (BGF MDI vs GFF MDI)</li> <li>Transition dyspnea index (TDI) focal score over 24 weeks (BGF MDI vs BFF MDI and BGF MDI vs GFF MDI)</li> </ul> Primary Endpoint (Japan): <ul style="list-style-type: none"> <li>Change from baseline in morning pre-dose trough FEV1 over 24 weeks (BGF MDI vs BFF MDI, BGF MDI vs GFF MDI)</li> </ul> Primary Endpoint (US): <ul style="list-style-type: none"> <li>FEV1 area under curve from 0 to 4 hours (AUC0-4) at Week 24 (BGF MDI vs BFF MDI)</li> <li>Change from baseline in morning pre-dose trough FEV1 at Week 24 (MDI vs GFF MDI)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2017</li> </ul>



# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II (BD Dose-ranging in Asthma)  NCT02105012	Adult mild to moderate persistent asthma	N = 150	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> BD MDI 320 µg BiD</li> <li>• <b>Arm 2:</b> BD MDI 160 µg BiD</li> <li>• <b>Arm 3:</b> BD MDI 80 µg BiD</li> <li>• <b>Arm 4:</b> BD MDI 40 µg BiD</li> <li>• <b>Arm 5:</b> Placebo MDI BiD</li> </ul> Randomized, 4-period, 5-treatment incomplete-block and crossover  4 week Estimated time from FSFV to DBL is approximately 18 months. US	<ul style="list-style-type: none"> <li>• Change from baseline in morning pre-dose trough forced expiratory volume in one second (FEV1)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q1 15</li> <li>• Topline results: Q3 15</li> </ul> * Clinically completed
Phase II  NCT02433834	Intermittent asthma/mild to moderate persistent asthma	N = 200	Treatment (18-week Treatment Period) <ul style="list-style-type: none"> <li>• GP MDI 28.8 µg BiD</li> <li>• GP MDI 14.4 µg BiD</li> <li>• GP MDI 7.2 µg BiD</li> <li>• GP MDI 3.6 µg BiD</li> <li>• Severent® Diskus® 50µg BiD</li> <li>• Placebo MDI</li> </ul> Randomized, double-blind, chronic-dosing, placebo controlled, incomplete block, cross over, multi-centre, dose-ranging study  Estimated time from FSFV to DBL is approximately 11 months. US	<ul style="list-style-type: none"> <li>• Peak change from baseline in FEV1 within 3 hours post-dosing on Day 15</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: Q4 15</li> <li>• Topline results: H1 16</li> </ul>



# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I (BGF PK study)  NCT02189304	Healthy volunteers	N = 72	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> BGF MDI 320/14.4/9.6 µg</li> <li>• <b>Arm 2:</b> BFF MDI (320/9.6 µg)</li> <li>• <b>Arm 3:</b> Symbicort Turbuhaler® 400/12 µg</li> </ul> Randomized, double-blind, single-dose, 3-period, 3-treatment and crossover  Estimated time from FSFV to DBL is approximately 3 months. US	<ul style="list-style-type: none"> <li>• Overall safety</li> <li>• PK parameters AUC<sub>0-12</sub> and C<sub>max</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q4 14*</li> </ul> * Clinically completed
Phase I (BGF PK in Japanese Subjects)  NCT02197975	Japanese healthy volunteers	N = 20	Treatment (2-week Treatment Period) <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> BGF MDI 320/14.4/9.6 µg</li> <li>• <b>Arm 2:</b> BGF MDI 160/14.4/9.6 µg</li> <li>• <b>Arm 3:</b> Placebo MDI</li> </ul> Randomized, double-blind, placebo-controlled, 2-period, ascending-dose and crossover  Estimated time from FSFV to DBL is approximately 8 weeks. Japan	<ul style="list-style-type: none"> <li>• Overall safety</li> <li>• PK parameters AUC<sub>0-12</sub> and C<sub>max</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q4 14*</li> </ul> * Clinically completed
Phase I (GFF PK in Japanese Subjects )  NCT02196714	Japanese healthy volunteers	N = 24	Treatment (4-day Treatment Period) <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> GFF MDI 14.4/9.6 µg</li> <li>• <b>Arm 2:</b> GFF MDI 28.8/9.6 µg</li> <li>• <b>Arm 2:</b> GP MDI 14.4 µg</li> <li>• <b>Arm 2:</b> GP MDI 28.8 µg</li> </ul> Randomized, double-blind, single-dose, 4-Period, 4-treatment and crossover  Estimated time from FSFV to DBL is approximately 13 weeks. Japan	<ul style="list-style-type: none"> <li>• Overall safety</li> <li>• PK parameters AUC<sub>0-12</sub> and C<sub>max</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: Q3 14</li> <li>• Topline results: Q4 14*</li> </ul> * Clinically completed



# Benralizumab (IL-5R $\alpha$ mAb)

## Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III CALIMA NCT01914757	Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 12 – 75yrs	N = 1,026 HD + ~200 MD	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q8w SC</li> <li>• <b>Arm 2:</b> 30 mg Q4w SC</li> <li>• <b>Arm 3:</b> Placebo SC</li> </ul> 56-week study Global study – 11 countries	<ul style="list-style-type: none"> <li>• Annual asthma exacerbation rate</li> <li>• Assess pulmonary function, asthma symptoms, other asthma control metrics, ER/ED hospitalization visits, PK, and IM</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• Est. completion: H2 16</li> </ul>
Phase III SIROCCO NCT01928771	Severe asthma, inadequately controlled despite background controller medication HD ICS + LABA $\pm$ chronic OCS Age 12 – 75 yrs	N = 1,134	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q8w SC</li> <li>• <b>Arm 2:</b> 30 mg Q4w SC</li> <li>• <b>Arm 3:</b> Placebo SC</li> </ul> 48-week study Global study – 17 countries	<ul style="list-style-type: none"> <li>• Annual asthma exacerbation rate</li> <li>• Assess pulmonary function, asthma symptoms, other asthma control metrics, ER/ED hospitalization visits, PK, and IM</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• Est. completion: H2 16</li> </ul>
Phase III ZONDA NCT02075255	Severe asthma, inadequately controlled on HD ICS plus long-acting $\beta$ 2 agonist and chronic oral corticosteroid therapy Age 18 – 75 yrs	N = 210	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q8w SC</li> <li>• <b>Arm 2:</b> 30 mg Q4w SC</li> <li>• <b>Arm 3:</b> Placebo SC</li> </ul> 46-week study Global study – 12 countries	<ul style="list-style-type: none"> <li>• Reduction of oral corticosteroid dose</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• Est. completion: H2 16</li> </ul>



# Benralizumab (IL-5R $\alpha$ mAb)

## Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III BISE NCT02322775	Asthmatic with FEV1 (50-90% predicted) on low to medium dose inhaled corticosteroid Age 18 – 75 yrs	N = 200	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q4w SC</li> <li>• <b>Arm 3:</b> Placebo SC</li> </ul> 12-week study Global study – 6 countries	<ul style="list-style-type: none"> <li>• Pulmonary function (FEV1)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• Est. completion: H1 16</li> </ul>
Phase III BORA NCT02258542	Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 12 – 75yrs	N = 2,550	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q4w SC</li> <li>• <b>Arm 2:</b> 30 mg Q8w SC*</li> </ul> * Placebo administered at select interim visits to maintain blind between treatment arms  56-week (adults) 108-week (adolescents) Global study	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• Est. completion: 2018</li> </ul>
Phase III GREGALE NCT02417961	Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 18 – 75yrs	N = 120	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q4w SC</li> </ul> 28-week (adults) Global study – 2 countries	<ul style="list-style-type: none"> <li>• Functionality, Reliability, and Performance of a Pre-filled Syringe With Benralizumab Administered at Home</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• Est. completion: H2 16</li> </ul>



# Benralizumab (IL-5R $\alpha$ mAb)

## COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III TERRANOVA NCT02155660	Moderate to very severe Chronic Obstructive Pulmonary Disease (COPD) with exacerbation history	N = 2,168	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 10 mg Q8w SC</li> <li>• <b>Arm 2:</b> 30 mg Q4w SC</li> <li>• <b>Arm 3:</b> 100 mg Q8w SC</li> <li>• <b>Arm 4:</b> Placebo SC</li> </ul> 48-week study Global study – 23 countries	<ul style="list-style-type: none"> <li>• Rate of COPD exacerbation</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• Est. completion: 2018</li> </ul>
Phase III GALATHEA NCT02138916	Moderate to very severe Chronic Obstructive Pulmonary Disease (COPD) with exacerbation history	N = 1,626	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q4w SC</li> <li>• <b>Arm 2:</b> 100 mg Q8w SC</li> <li>• <b>Arm 3:</b> Placebo SC</li> </ul> 48-week study Global study – 17 countries	<ul style="list-style-type: none"> <li>• Rate of COPD exacerbation</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• Est. completion: 2018</li> </ul>



# Tralokinumab (IL-13 mAb)

## Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III STRATOS 1  NCT02161757	Adults with uncontrolled severe asthma	N = 1,140	<u>Cohort 1:</u> • <b>Arm 1:</b> Tralokinumab dose regimen 1, SC • <b>Arm 2:</b> Placebo SC <u>Cohort 2:</u> • <b>Arm 1:</b> Tralokinumab dose regimen 2, SC • <b>Arm 2:</b> Placebo SC  2:1 randomisation in both cohorts  Global study – 15 countries	Primary: • Asthma exacerbation rate reduction Key Secondary: • Effect of tralokinumab on measures of pulmonary function (FEV1), asthma symptoms (Asthma Daily Diary), asthma control (ACQ-6) and asthma related QoL (AQLQ (S) +12)	• FPD: Q3 14 • LPD: H1 16 • Est. completion date: 2017 • Est. topline results: 2017
Phase III STRATOS 2  NCT02194699	Adults with uncontrolled severe asthma	N = 770	• <b>Arm 1:</b> Tralokinumab SC • <b>Arm 2:</b> Placebo SC  1:1 randomisation  Global study – 13 countries including Japan	Primary: • Asthma exacerbation rate reduction Key Secondary: • Effect of tralokinumab on measures of pulmonary function (FEV1), asthma symptoms (Asthma Daily Diary), asthma control (ACQ-6) and asthma related QoL (AQLQ (S) +12)	• FPD: Q1 15 • LPD: H2 16 • Est. completion date: 2017 • Est. topline results: 2017
Phase III TROPOS  NCT02281357	Adults with oral corticosteroid dependent asthma	N = 120	• <b>Arm 1:</b> Tralokinumab SC • <b>Arm 2:</b> Placebo SC  1:1 randomisation  Global studies - 6 countries	Primary: • % Change in OCS dose Key Secondary: • Proportion of subjects achieving final daily OCS dose ≤5 mg • Proportion of subjects achieving ≥50% reduction in OCS dose	• FPD: Q1 15 • LPD: H2 16 • Est. completion date: 2017 • Est. topline results: 2017
Phase II MESOS  NCT02449473	Adults with uncontrolled asthma	N = 80	• <b>Arm 1:</b> Tralokinumab SC • <b>Arm 2:</b> Placebo SC  1:1 randomisation  3 countries	Primary: • Change in number of airway submucosal eosinophils Secondary: • Change in blood eosinophils levels • Change in eosinophil cationic protein as a measure of activated eosinophils in blood and sputum	• FPD: Q3 15 • LPD: 2017 • Est. completion date: 2018 • Est. topline results: 2018



# Tralokinumab (IL-13 mAb)

## Idiopathic Pulmonary Fibrosis (IPF)

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT01629667	Adults with Idiopathic Pulmonary Fibrosis	N = 176	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Tralokinumab high dose 800mg IV</li> <li><b>Arm 2:</b> Tralokinumab low dose 400mg IV</li> <li><b>Arm 3:</b> Placebo IV</li> </ul> <p>High dose: low dose: placebo (1:1:1)</p> <p>Global study – 6 countries</p>	<ul style="list-style-type: none"> <li>Change from baseline in percent-predicted forced vital capacity at week 52</li> </ul> <p>Key Secondary Endpoints:</p> <ul style="list-style-type: none"> <li>No. of patients with disease progression</li> <li>Safety and tolerability</li> <li>Tralokinumab serum concentration</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q1 15</li> <li>Interim analysis: Q3 15</li> <li>Terminated</li> </ul>
Phase II NCT02036580	Japanese adults with Idiopathic Pulmonary Fibrosis	N = 20	<p><u>Cohort 1:</u></p> <ul style="list-style-type: none"> <li><b>Arm 1:</b> Tralokinumab Low dose 400mg IV</li> <li><b>Arm 2:</b> Placebo IV</li> </ul> <p><u>Cohort 2:</u></p> <ul style="list-style-type: none"> <li><b>Arm 1:</b> Tralokinumab High dose 800mg IV</li> <li><b>Arm 2:</b> Placebo IV</li> </ul> <p>8:2 randomisation in both cohorts</p> <p>Japan only study</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul> <p>Key Secondary Endpoints:</p> <ul style="list-style-type: none"> <li>Tralokinumab serum concentration</li> <li>Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>LPD: Q4 14</li> <li>Completion date: Q4 15</li> <li>Terminated</li> </ul>



# Tralokinumab (IL-13 mAb)

## Atopic dermatitis

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT02347176	Adults with atopic dermatitis	N = 204	<ul style="list-style-type: none"> <li>Arm 1: Tralokinumab dose 45mg SC</li> <li>Arm 2: Tralokinumab dose 150mg SC</li> <li>Arm 3: Tralokinumab dose 300mg SC</li> <li>Arm 4: Placebo SC</li> </ul> Global study – 6 countries	<ul style="list-style-type: none"> <li>Change from baseline in SCORAD at week 12</li> </ul> Key Secondary Endpoints: <ul style="list-style-type: none"> <li>Percentage of subjects achieving IGA of 0 or 1</li> <li>Change from baseline in EASI</li> <li>Percentage of subjects achieving EASI50 and SCORAD50</li> <li>Change from baseline in puritis</li> <li>Safety and tolerability</li> <li>Tralokinumab serum concentration</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q4 15</li> <li>Est. completion date: H1 16</li> <li>Est. topline results: H1 16</li> </ul>



# Anifrolumab (type I IFN receptor mAb)

## Systemic Lupus Erythematosus (SLE)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III NCT02446912	Moderate to severe Systemic Lupus Erythematosus (SLE) TULIP SLE 1	N = 450	<ul style="list-style-type: none"> <li>Arm 1: 300 mg IV MEDI-546 Q4W for 48 weeks</li> <li>Arm 2: 150 mg IV MEDI-546 Q4W for 48 weeks</li> <li>Arm 3: placebo IV Q4W for 48 weeks</li> </ul>	Response in SLE responder index at week 52	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2018</li> <li>Est. topline results: 2018</li> </ul>
Phase III NCT02446899	Moderate to severe Systemic Lupus Erythematosus (SLE) TULIP SLE 2	N = 360	<ul style="list-style-type: none"> <li>Arm 1: 300 mg IV MEDI-546 Q4W for 48 weeks</li> <li>Arm 2: 150 mg IV MEDI-546 Q4W for 48 weeks</li> </ul>	Response in SLE responder index at week 52	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2018</li> <li>Est. topline results: 2018</li> </ul>
Phase II NCT01438489	Moderate to severe SLE patients	N = 307 (final)	<ul style="list-style-type: none"> <li>Arm 1: 300 mg IV MEDI-546 Q4W for 48 weeks</li> <li>Arm 2: 1000 mg IV MEDI-546 Q4W for 48 weeks</li> <li>Arm 3: placebo IV Q4W for 48 weeks</li> </ul>	Response in SLE responder index at 6 months	<ul style="list-style-type: none"> <li>FPD: Q1 12</li> <li>Topline results: Q3 14</li> </ul>
Phase II NCT01753193	Moderate to severe SLE patients	N = 218	<ul style="list-style-type: none"> <li>Arm 1: MEDI-546, IV Q4W for 104 weeks</li> </ul>	Open-label extension to evaluate long-term safety and tolerability	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>Est. topline results: 2017</li> </ul>
Phase II NCT01559090	Japanese SLE patients	N = 17	Open-label, dose escalation study: <ul style="list-style-type: none"> <li>Arm 1: 100mg IV q4 weeks for 48 weeks then 300mg IV q4wks for 104 weeks</li> <li>Arm 2: 300mg IV q4 weeks for 48 weeks then 300mg IV q4wks for 104 weeks</li> <li>Arm 3: 1000mg IV q4 weeks for 48 weeks then 1000mg IV q4wks for 104 weeks</li> </ul>	Safety, tolerability, PK/PD	<ul style="list-style-type: none"> <li>Topline results: Q1 15</li> </ul>
Phase I NCT02601625	Healthy volunteers	N= 30	<ul style="list-style-type: none"> <li>Arm 1: 300mg SC single dose</li> <li>Arm 2: 300mg IV single dose</li> <li>Arm 3: 600 mg SC single dose</li> </ul>	Safety, tolerability, PK/PD	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Est. topline results: H2 16</li> </ul>



# Anifrolumab (type I IFN receptor mAb)

## Lupus Nephritis (LN)

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT02547922	Active Proliferative Lupus Nephritis (TULIP-LN1)	N = 150	<ul style="list-style-type: none"> <li><b>Arm 1:</b> 900 mg IV Q4W for 12 weeks then 300 mg IV MEDI-546 Q4W for 36 weeks</li> <li><b>Arm 2:</b> 300 mg IV MEDI-546 Q4W for 48 weeks</li> <li><b>Arm 3:</b> placebo IV Q4W for 48 weeks</li> </ul>	Response in proteinuria at week 52	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2018</li> <li>Est. topline results: 2018</li> </ul>



# Brodalumab (IL-17R mAb)

## Psoriasis

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III AMAGINE-1 NCT01708590	Moderate to severe plaque psoriasis	N = 661	<ul style="list-style-type: none"> <li>Arm 1: 210 mg brodalumab SC</li> <li>Arm 2: 140 mg brodalumab SC</li> <li>Arm 3: placebo SC</li> </ul>	<ul style="list-style-type: none"> <li>PASI at wk 12</li> <li>Static physician's global assessment (sPGA) at wk 12</li> </ul>	Completed - Partnered
Phase III AMAGINE-2 NCT01708603	Moderate to severe plaque psoriasis	N = 1,800	<ul style="list-style-type: none"> <li>Arm 1: 210 mg brodalumab SC</li> <li>Arm 2: 140 mg brodalumab SC</li> <li>Arm 3: 45 or 90 mg ustekinumab SC</li> <li>Arm 4: placebo SC</li> </ul>	<ul style="list-style-type: none"> <li>PASI at wk 12</li> <li>Static physician's global assessment (sPGA) at wk 12</li> </ul>	Completed - Partnered
Phase III AMAGINE-3 NCT01708629	Moderate to severe plaque psoriasis	N = 1,881	<ul style="list-style-type: none"> <li>Arm 1: 210 mg brodalumab SC</li> <li>Arm 2: 140 mg brodalumab SC</li> <li>Arm 3: 45 or 90 mg ustekinumab SC</li> <li>Arm 4: placeboSC</li> </ul>	<ul style="list-style-type: none"> <li>PASI at wk 12</li> <li>Static physician's global assessment (sPGA) at wk 12</li> </ul>	Completed - Partnered



# Roxadustat (HIF-PHI)

## Chronic Kidney Disease (CKD)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III ANDES NCT01750190	Anaemia in Chronic Kidney Disease patients not receiving dialysis	N = 600	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Placebo</li> </ul> Global study – 15 countries	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>Est. completion: 2017</li> </ul> Sponsored by FibroGen
Phase III ALPS NCT01887600		N = 600	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Placebo</li> </ul> Global study – 16 countries	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>Est. completion: H1 16</li> </ul> Sponsored by Astellas
Phase III DOLOMITES NCT02021318		N = 570	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Darbepoetin alfa</li> </ul> Global study – 17 countries	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>Est. completion: 2017</li> </ul> Sponsored by Astellas
Phase III OLYMPUS NCT02174627		N = 2,600	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Placebo</li> </ul> Global study – 24 countries	MACE	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>Est. completion: 2017</li> </ul> Sponsored by AstraZeneca
Phase III ROCKIES NCT02174731	Anaemia in CKD in patients receiving dialysis	N = 1,425	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Epoetin alfa</li> </ul> Global study – 18 countries	MACE	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>Est. completion: 2017</li> </ul> Sponsored by AstraZeneca
Phase III SIERRAS NCT02273726		N = 600	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Epoetin alfa</li> </ul> Global study – 1 country	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: 2017</li> </ul> Sponsored by FibroGen
Phase III PYRENEES NCT02278341		N = 750	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Erythropoiesis Stimulating Agent</li> </ul> Global study – 19 countries	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: 2017</li> </ul> Sponsored by Astellas
Phase III HIMALAYAS NCT02052310		N = 750	<ul style="list-style-type: none"> <li>Arm 1: Roxadustat</li> <li>Arm 2: Epoetin alfa</li> </ul> Global study – 18 countries	Haemoglobin response	<ul style="list-style-type: none"> <li>FPD: Q4 13</li> <li>Est. completion: 2017</li> </ul> Sponsored by FibroGen



# Tremelimumab (CTLA-4 mAb)

## Mesothelioma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II DETERMINE  NCT01843374	Patients with unresectable pleural or peritoneal malignant mesothelioma 2L or 3L treatment	N = 564	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tremelimumab IV</li> <li>• <b>Arm 2:</b> Placebo</li> <li>• US, EU, and Asia</li> <li>• 19 Countries</li> </ul>	<ul style="list-style-type: none"> <li>• Primary: Overall survival (OS)</li> </ul> Secondary: <ul style="list-style-type: none"> <li>• Durable disease control rate by treatment arm</li> <li>• Length of progression-free survival by treatment arm</li> <li>• Overall response rate by treatment arm</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 13</li> <li>• LPD: Q4 14</li> <li>• Topline results: H1 16</li> <li>• Est. completion date: H1 16</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb)

## Non-small cell lung cancer (NSCLC)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III ADJUVANT  NCT02273375  Partnered with NCIC CTG	Adjuvant NSCLC patients IB (≥4cm) – IIIA resected NSCLC (incl. EGFR/ALK pos)	N = 1,100	<ul style="list-style-type: none"> <li>• Arm 1: MEDI4736 mg/kg IV Q4W x 12 mos</li> <li>• Arm 2: Placebo</li> </ul> Global Study	<ul style="list-style-type: none"> <li>• DFS</li> <li>• OS</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• Est. completion: 2020</li> </ul>
Phase III PACIFIC  NCT02125461	Unresectable Stage III NSCLC patients following platinum-based concurrent chemo-radiation therapy	N = 702	<ul style="list-style-type: none"> <li>• Arm 1: MEDI4736 IV Q2W</li> <li>• Arm 2: placebo</li> </ul> Global study	<ul style="list-style-type: none"> <li>• Progression Free Survival (PFS)</li> <li>• Overall Survival (OS)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: H1 16</li> <li>• Est. completion: 2017</li> </ul>
Phase II/III Lung Master Protocol  NCT02154490  Partnered with NCI, FNIH, and SWOG	Stage IV squamous NSCLC patients  Biomarker-targeted 2L therapy	N = 140 ; 100 Durvalumab treated (4736 substudy only);	Umbrella study with 5 arms based on biomarker expression <ul style="list-style-type: none"> <li>• Substudy A: MEDI4736 (non-match for other biomarker driven substudies) IVQ2W single arm MEDI4736 PhII only</li> <li>• Substudy B: PI3K Inhibitor vs. docetaxel</li> <li>• Substudy C: CDK4/6 inhibitor vs. docetaxel</li> <li>• Substudy D: AZD4547 (FGFR inhibitor) vs. docetaxel</li> <li>• Substudy E: C-MET/HGFR Inhibitor + erlotinib vs. Erlotinib (Substudy is closed)</li> </ul>	Arm 1 <ul style="list-style-type: none"> <li>• ORR, PDL1 +</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• Est. completion: 2022</li> </ul>
Phase II ATLANTIC  NCT02087423	Stage IIIB-IV NSCLC patients  PD-L1+ve patients 3L	N = 293	<ul style="list-style-type: none"> <li>• Arm 1: MEDI4736 IV Q2W (EFGR/ALK WT)</li> <li>• Arm 2: MEDI4736 IV Q2W (EFGR/ALK M+)</li> <li>• Arm 3: MEDI4736 IV Q2W (EFGR/ALK WT) (90% PD-L1 - expression)</li> </ul> Global study – 18 countries	<ul style="list-style-type: none"> <li>• Objective Response Rate</li> <li>• Secondary endpoints include duration of response, progression free survival and overall survival</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 14</li> <li>• LPD: Q2 15</li> <li>• First data: Q4 15</li> <li>• Est. completion: H2 16</li> <li>• Filing not expected</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb)

## SCCHN and other solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II HAWK  NCT02207530	SCCHN 2L PD-L1 positive	N = 112	<ul style="list-style-type: none"> <li>Single-arm: MEDI4736 IVQ2W</li> </ul>	<ul style="list-style-type: none"> <li>ORR</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H1 16</li> <li>Est. completion: H2 16</li> </ul>
Phase I  NCT02301130  Partnered with KHK	Solid tumours	N = 108	<ul style="list-style-type: none"> <li>Dose Escalation: N=36, 3 cohorts receiving Treatment A (mogamulizumab+MEDI4736) and 3 cohorts receiving Treatment B (mogamulizumab+treme), in parallel</li> <li>Dose Expansion: N=72, Multiple solid tumour types (NSCLC, Head and Neck, Pancreatic), Treatment A or B (12 subjects per treatment per disease type, in parallel)</li> </ul>	<ul style="list-style-type: none"> <li>Safety and Tolerability</li> <li>MTD</li> <li>ORR, DoR, DCR, PFS, OS</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: Q4 15</li> <li>Est. completion: H2 16</li> </ul>
Phase I  NCT01938612	Solid tumours (all-comers)	N = 118	<ul style="list-style-type: none"> <li>Dose Escalation: 3 cohorts at Q2W and 1 cohort at Q3W</li> <li>Dose Expansion: Multiple solid tumour types</li> </ul> <p>Study conducted in Japan</p>	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q4 14</li> <li>Est. completion: H1 16</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb) + tremelimumab (CTLA-4 mAb)

## Solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III ARCTIC NCT02352948	Stage IIIB-IV 3L NSCLC patients who have not be tested positive for EGFR/Alk mutation	N = 480	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736+tremelimumab (PD-L1 –ve patients)</li> <li>Arm 2: Standard of Care</li> <li>Arm 3: tremelimumab (PD-L1 –ve patients)</li> <li>Arm 4: MEDI4736 (PD-L1 –ve patients)</li> </ul>	<ul style="list-style-type: none"> <li>Progression Free Survival (PFS)</li> <li>Overall Survival (OS)</li> <li>Safety</li> </ul>	Combination therapy <ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. completion: 2017 (PFS, OS)</li> </ul>
Phase III MYSTIC NCT02453282	NSCLC 1L	N = 675	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736</li> <li>Arm 2: MEDI4736 + tremelimumab</li> <li>Arm 3: Standard of care</li> </ul>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival</li> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase III NEPTUNE	NSCLC 1L	N = 800	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736 + tremelimumab</li> <li>Arm 2: Standard of care</li> </ul>	<ul style="list-style-type: none"> <li>Overall Survival</li> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2017</li> <li>Est. completion: 2018</li> </ul>
Phase III EAGLE	SCCHN 2L	N = 720	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736 + tremelimumab</li> <li>Arm 2: MEDI4736</li> <li>Arm 3: SoC</li> </ul>	<ul style="list-style-type: none"> <li>Overall Survival</li> <li>Progression Free Survival</li> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2017</li> <li>Est. completion: 2018</li> </ul>
Phase III KESTREL NCT02551159	SCCHN 1L	N = 628	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736</li> <li>Arm 2: MEDI4736 + tremelimumab</li> <li>Arm 3: Standard of care</li> </ul>	<ul style="list-style-type: none"> <li>Progression Free Survival (PFS)</li> <li>Overall Survival (OS)</li> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2017</li> <li>Est. completion: 2018</li> </ul>
Phase III DANUBE NCT02516241	Bladder 1L cis eligible and ineligible	N = 525	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736 + tremelimumab</li> <li>Arm 2: MEDI4736</li> <li>Arm 3: SoC</li> </ul>	<ul style="list-style-type: none"> <li>Progression free Survival</li> <li>Overall Survival</li> <li>Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2017</li> <li>Est. completion: 2018</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb) + tremelimumab (CTLA-4 mAb) Solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II CONDOR NCT02319044	SCCHN 2L PD-L1 negative	N = 240	<ul style="list-style-type: none"> <li>• Arm 1: MEDI4736</li> <li>• Arm 2: Tremelimumab</li> <li>• Arm 3: Tremelimumab +MEDI4736</li> </ul>	<ul style="list-style-type: none"> <li>• ORR</li> <li>• Safety</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: H1 16</li> <li>• Est. completion: 2017</li> </ul>
Phase II ALPS NCT02558894	Metastatic Pancreatic Ductal Carcinoma 2L	N = 130	<ul style="list-style-type: none"> <li>• Arm 1: MEDI4736 + tremelimumab</li> <li>• Arm 2: MEDI4736</li> </ul>	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Objective Response rate</li> <li>• Pharmacokinetics</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: 2017</li> <li>• Est. completion: 2017</li> </ul>
Phase I combination in advanced solid tumours in Japanese patients NCT02141347	Solid tumors (treme Phase I)	N = 22	<ul style="list-style-type: none"> <li>• Tremelimumab + MEDI4736</li> <li>• Dose Escalation study</li> <li>• Tremelimumab Q4W/Q12W 3-10mg/kg</li> <li>• Tremelimumab Q4W/Q12W X mg/kg + MEDI4736 Q4W X mg/kg</li> </ul>	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Optimal biologic dose</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q2 15</li> <li>• Est. completion: Q3 15</li> </ul>



# Cediranib (VEGF inhibitor)

## Ovarian cancer

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III ICON 6  NCT00532194	Patients with platinum-sensitive relapsed ovarian cancer	N = 486	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Placebo</li> <li>• <b>Arm 2:</b> concurrent cediranib</li> <li>• <b>Arm 3:</b> concurrent and maintenance cediranib</li> </ul>	<ul style="list-style-type: none"> <li>• Progression Free Survival</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 07</li> <li>• Completed</li> </ul>



# Moxetumomab pasudotox (CD22 mAb)

## Haematological malignancies

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III PLAIT  NCT01829711	Adults with relapsed or refractory hairy cell leukemia	N = 77	<ul style="list-style-type: none"> <li>Multicentre, single-arm, open-label study<sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>Primary: Rate of durable CR: CR maintained for &gt; 180 days</li> <li>Efficacy: CR rate, ORR, Duration of CR and ORR, time to response (TTR), PFS</li> <li>Safety and tolerability</li> <li>PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>
Phase I  NCT00586924	Adults with relapsed refractory HCL	N = 49	<ul style="list-style-type: none"> <li>Open Label dose escalation study</li> </ul>	<ul style="list-style-type: none"> <li>MTD and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 07</li> <li>LPD: Q1 14</li> <li>Topline results : Q2 15 (completed)</li> </ul>



# Selumetinib (AZD6244) (MEK-inhibitor)

## Solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III SELECT-1  NCT01933932	2L KRAS <sup>m</sup> positive NSCLC	N = 500	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>Arm 2:</b> Placebo BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> </ul> <p>Global study – 26 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival is a secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 13</li> <li>LPD: H1 16</li> <li>Est. topline results: H2 16</li> </ul>
Phase III ASTRA  NCT01843062	Differentiated thyroid cancer	N = 304	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Selumetinib 75mg BiD 5 weeks duration + RAI 100mCi<sup>a</sup></li> <li><b>Arm 2:</b> Placebo BiD 5 weeks duration + RAI 100mCi<sup>a</sup></li> </ul> <p>Global study – 8 countries</p> <p><sup>a</sup> Single dose of 100mCi <sup>131</sup>I administered following 4 weeks of selumetinib (or placebo).</p>	<ul style="list-style-type: none"> <li>Complete remission (CR) rate at 18 months post-RAI</li> <li>Clinical remission rate at 18 m post RAI (per SoC)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: H1 16</li> <li>Est. topline results: 2017</li> </ul>
Phase II SELECT-2  NCT01750281	2L KRAS <sup>m</sup> negative NSCLC	N = 225	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>Arm 2:</b> Selumetinib 75mg BiD + docetaxel 60 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>Arm 3:</b> Placebo BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> </ul> <p>Global study – 7 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival is a secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>LPD: Q4 15</li> <li>Est. topline results: H1 16</li> </ul>
Phase II NCT01362803 (current Ph I) – partnered (NCI)	Pediatric NF1 <sup>1</sup>	N = minimum of 50 symptomatic pts	<ul style="list-style-type: none"> <li><b>Single Arm:</b> Selumetinib 25mg/m<sup>2</sup> BID with 2 strata:               <ul style="list-style-type: none"> <li>Stratum 1: PN related morbidity present at enrolment</li> <li>Stratum 2: No PN related morbidity present at enrolment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Complete partial and complete response rate measured by volumetric MRI;</li> <li>Duration of response and functional outcomes/QoL</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>
Phase I NCT02586987	Advanced solid tumours	N = 40	<ul style="list-style-type: none"> <li><b>Dose escalation study:</b> Starting dose Selumetinib 50mg bd 1 week on/1 week off - MEDI4736 20mg/kg Q4 – after 7 days of selumetinib dosing.</li> <li>Note: No escalation in MEDI4736 dose; Selumetinib escalation with 25 mg bd increment/ dose cohort</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>PK of Selumetinib and MEDI4736 and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>



# Acalabrutinib (ACP-196)

## Haematological malignancies

Study phase	Patient population	Number of patients	Design	Endpoint(s)	Status
Phase III	Previously treated patients with high risk CLL	N = 500	<ul style="list-style-type: none"> <li><b>Arm A:</b> acalabrutinib</li> <li><b>Arm B:</b> ibrutinib</li> </ul>	PFS Secondary endpoints include comparison of incidence of infections, RTs and atrial fibrillation	FPD: Q4 15
Phase III	Patients with previously untreated CLL	N = 510	<ul style="list-style-type: none"> <li><b>Arm A:</b> obinutuzumab + Chlorambucil</li> <li><b>Arm B:</b> acalabrutinib + obinutuzumab</li> <li><b>Arm C:</b> acalabrutinib</li> </ul>	PFS Secondary endpoints include IRC assessed ORR, TTNT, and OS	FPD: Q3 15
Phase II	Previously treated patients with MCL	N = 117	<ul style="list-style-type: none"> <li>Acalabrutinib monotherapy</li> </ul>	ORR Secondary endpoints include safety, DOR, PFS, and OS	FPD: Q1 15
Phase II	Patients with WM	N = 88	<ul style="list-style-type: none"> <li>Acalabrutinib monotherapy</li> </ul>	ORR Secondary endpoints include IRC assessed ORR, DOR, and PFS	FPD: Q3 14
Phase II	Patients with advanced or metastatic pancreatic cancer	N = 76	<ul style="list-style-type: none"> <li><b>Arm A:</b> acalabrutinib</li> <li><b>Arm B:</b> acalabrutinib+ pembrolizumab</li> </ul>	Safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation) Secondary endpoints include disease control rate (DCR), ORR, DOR, PFS, and OS	FPD: Q2 15
Phase II	Patients with platinum-refractory metastatic bladder cancer	N = 74	<ul style="list-style-type: none"> <li><b>Arm A:</b> pembrolizumab</li> <li><b>Arm B:</b> acalabrutinib+ pembrolizumab</li> </ul>	Safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation) Secondary endpoints include BOR and ORR, DOR, PFS, and OS	FPD: Q2 15



# Acalabrutinib (ACP-196)

## Haematological malignancies

Study phase	Patient population	Number of patients	Design	Endpoint(s)	Status
Phase II	Patients with advanced head and neck squamous cell carcinoma	N = 74	<ul style="list-style-type: none"> <li>• <b>Arm A:</b> pembrolizumab</li> <li>• <b>Arm B:</b> acalabrutinib+ pembrolizumab</li> </ul>	Safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation) Secondary endpoints include ORR, DCR, DOR, PFS, and OS	FPD: Q2 15
Phase II	Patients with advanced NSCLC	N = 74	<ul style="list-style-type: none"> <li>• <b>Arm A:</b> pembrolizumab</li> <li>• <b>Arm B:</b> acalabrutinib+ pembrolizumab</li> </ul>	Safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation) Secondary endpoints include disease control rate (DCR), ORR, DOR, PFS, and OS	FPD: Q2 15
Phase II	Patients with recurrent ovarian cancer	N = 76	<ul style="list-style-type: none"> <li>• <b>Arm A:</b> acalabrutinib</li> <li>• <b>Arm B:</b> acalabrutinib+ pembrolizumab</li> </ul>	Safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation) Secondary endpoints include BOR and ORR, DOR, PFS, and OS	FPD: Q4 15
Phase II	Patients with previously untreated metastatic pancreatic cancer	N = 120	<ul style="list-style-type: none"> <li>• <b>Arm A:</b> acalabrutinib+ Nab-Paclitaxel+ Gemcitabine</li> <li>• <b>Arm B:</b> Nab-Paclitaxel+ Gemcitabine</li> </ul>	ORR, DOR, PFS, OS, change in CA 19-9 antigen Secondary endpoints include safety (TEAEs, SAEs, DLTs, AEs of clinical interest, or AEs leading to discontinuation)	FPD: Q4 15
Phase I/II	Patients with CLL, SLL, PLL	N = 286	<ul style="list-style-type: none"> <li>• Dose escalation study of in multiple disease settings including TN, RR, and RT</li> </ul>	Safety, PK, PD Secondary endpoints include ORR, DOR, and PFS	FPD: Q1 14



# CAZ AVI (BLI/cephalosporin SBI)

## Serious infections

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase III RECAPTURE-1 NCT01595438	Hospitalised adults with complicated urinary tract infections	N = 563	<ul style="list-style-type: none"> <li><b>Arm 1:</b> CAZ-AVI 2000/500mg IV plus either 500 mg of oral ciprofloxacin or 800 mg/160 mg of oral sulfamethoxazole/trimethoprim</li> <li><b>Arm 2:</b> Doripenem 500 mg IV plus either 500 mg of oral ciprofloxacin or 800 mg/160 mg of oral sulfamethoxazole/trimethoprim</li> </ul> Global study – 26 countries	<ul style="list-style-type: none"> <li>Per patient microbiological response at TOC in patients with a cUTI and a Gram-negative pathogen (i.e. mMITT)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q3 14</li> <li>Topline results: Q3 15</li> </ul>
Phase III RECAPTURE-2 NCT01599806	Hospitalised patients with complicated urinary tract infections	N = 583	<ul style="list-style-type: none"> <li><b>Arm 1:</b> CAZ-AVI 2000/500mg IV plus either 500 mg of oral ciprofloxacin or 800 mg/160 mg of oral sulfamethoxazole/trimethoprim</li> <li><b>Arm 2:</b> Doripenem 500 mg IV plus either 500 mg of oral ciprofloxacin or 800 mg/160 mg of oral sulfamethoxazole/trimethoprim</li> </ul> Global study – 25 countries	<ul style="list-style-type: none"> <li>Per patient microbiological response at TOC in patients with a cUTI and a Gram-negative pathogen (i.e. mMITT)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q3 14</li> <li>Topline results: Q3 15</li> </ul>
Phase III REPRISE NCT01644643	Patients with complicated urinary tract infections and complicated intra-abdominal infections	N = 345	<ul style="list-style-type: none"> <li><b>Arm 1:</b> CAZ-AVI 2000/500mg plus Metronidazole IV</li> <li><b>Arm 2:</b> Best available therapy</li> </ul> Global study – 30 countries	<ul style="list-style-type: none"> <li>Patients with clinical cure at the Test of Cure visit in the microbiological intent to treat analysis set</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>LPD: Q3 14</li> <li>Topline results: Q2 15</li> </ul>
Phase III RECLAIM-3 NCT01726023	Hospitalised patients with complicated intra-abdominal infections	N = 486	<ul style="list-style-type: none"> <li><b>Arm 1:</b> CAZ-AVI 2000/500mg plus Metronidazole IV</li> <li><b>Arm 2:</b> Meropenem IV</li> </ul> Asia-focused study – 3 countries (China, Vietnam & Korea)	<ul style="list-style-type: none"> <li>Clinical Cure at the TOC visit in the MITT analysis set</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>LPD: Q1 15</li> <li>Topline results: Q3 15</li> </ul>
Phase III REPROVE NCT01808092	Hospitalised patients with nosocomial pneumonia infections, including hospital acquired pneumonia (HAP) and ventilator associated pneumonia (VAP)	N = 1,000	<ul style="list-style-type: none"> <li><b>Arm 1:</b> CAZ-AVI 2000/500mg IV</li> <li><b>Arm 2:</b> Meropenem IV</li> </ul> Global study – 24 countries	<ul style="list-style-type: none"> <li>Proportion of patients with clinical cure at the TOC visit in the cMITT and CE analysis sets (co-primary analyses)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>LPD: Q4 15</li> <li>Est. topline results: H1 16</li> </ul>



# AZD3293 (BACE inhibitor)

## Alzheimer's disease

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

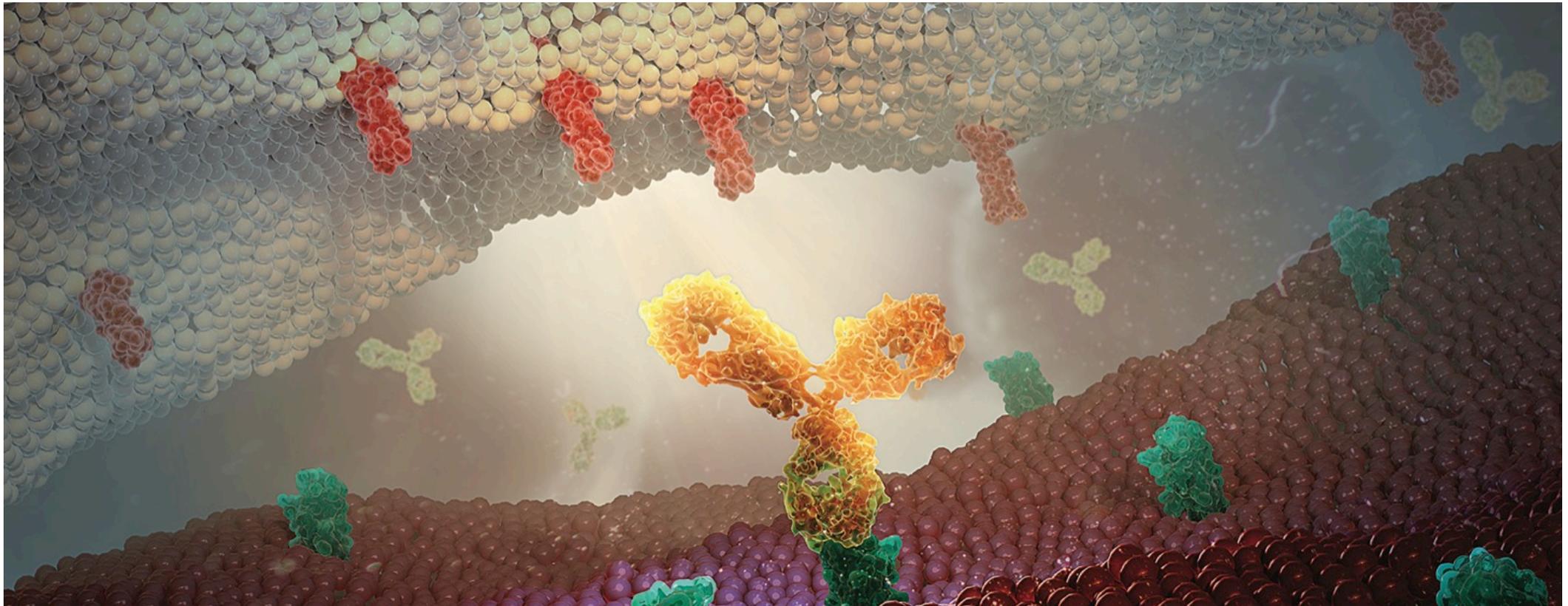
Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II/III AMARANTH  NCT02245737	Alzheimer's disease patients	N = 2,202	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD3293 20 mg once daily</li> <li>• <b>Arm 2:</b> AZD3293 50 mg once daily</li> <li>• <b>Arm 3:</b> placebo once daily</li> </ul> 24-month treatment duration Global study – approx. 15 countries	<ul style="list-style-type: none"> <li>• Change in Clinical Dementia Rating Sum of Boxes (CDR-SB)</li> <li>• Changes in Cognitive (ADAS-Cog 13) and functional (ADCS-ADL) scales</li> <li>• Changes in biomarkers and imaging assays</li> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• LPD: 2017</li> <li>• Est. topline results: 2019</li> </ul>



# AstraZeneca

AstraZeneca   
IMED Biotech Unit

## Early development - IMED



# AZD7594 (inhaled SGRM)

## Asthma/COPD

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT02479412	Patients with mild to moderate asthma	N = 48	<p><b>Sequence 1</b> Placebo once daily for 14 days, 58 µg AZD7594 once daily for 14 days and 250 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 2</b> Placebo once daily for 14 days, 250 µg AZD7594 once daily for 14 days and 800 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 3</b> Placebo once daily for 14 days, 800 µg AZD7594 once daily for 14 days and 58 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 4</b> 58 µg AZD7594 once daily for 14 days, Placebo once daily for 14 days and 800 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 5</b> 58 µg AZD7594 once daily for 14 days, 800 µg AZD7594 once daily for 14 days and Placebo once daily for 14 days</p> <p><b>Sequence 6</b> 250 µg AZD7594 once daily for 14 days, Placebo once daily for 14 days and 58 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 7</b> 250 µg AZD7594 once daily for 14 days, 58 µg AZD7594 once daily for 14 days and Placebo once daily for 14 days</p> <p><b>Sequence 8</b> 800 µg AZD7594 once daily for 14 days, Placebo once daily for 14 days and 250 µg AZD7594 once daily for 14 days</p> <p><b>Sequence 9</b> 800 µg AZD7594 once daily for 14 days, 250 µg AZD7594 once daily for 14 days and Placebo once daily for 14 days</p>	<ul style="list-style-type: none"> <li>Forced expiratory volume in one second (FEV1)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>Ongoing</li> </ul>
Phase I NCT01636024	Healthy subjects	N = 73	<p><b>SAD/MAD</b> A Phase I, Single Centre, Double-blind, Randomised, Placebo controlled, Parallel-group Study to Assess the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics After Single and Multiple Ascending Inhaled Doses of AZD7594 in Healthy Male Volunteers - Suspension inhaled via Spira nebuliser</p> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>Completed</li> </ul>



# AZD7624 (p38 inhibitor)

## COPD

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIa NCT02238483	COPD	N = 212	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD7624, 1.0mg</li> <li>• <b>Arm 2:</b> placebo</li> <li>• Inhaled (nebulised) administration</li> </ul> <p>Study conducted in US, EU, South Africa &amp; South America</p>	<ul style="list-style-type: none"> <li>• Effect on rate of exacerbations and lung function compared to placebo</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• LPD: H1 16</li> <li>• Est. topline results: H1 16</li> </ul>
Phase Ib LPS NCT01937338	Healthy subjects	N = 30	<ul style="list-style-type: none"> <li>• 2-way cross-over RCT</li> <li>• Single administration of 1200µg of AZD7624 or placebo at 05 hours prior to lipopolysaccharide (LPS) challenge.</li> <li>• Inhaled (nebulised) administration</li> </ul> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>• Effect on neutrophils in induced sputum after oral inhalation of LPS, compared to placebo</li> </ul>	<ul style="list-style-type: none"> <li>• FSD: Q4 13</li> <li>• Completed</li> </ul>
Phase I NCT01754844	Healthy subjects	N = 48	<p><b>SAD</b></p> <ul style="list-style-type: none"> <li>• Five different dose levels investigated vs placebo</li> <li>• Inhaled (nebulised) administration</li> </ul> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability following inhaled administration with single ascending dose</li> </ul>	<ul style="list-style-type: none"> <li>• FSD: Q1 13</li> <li>• Completed</li> </ul>
Phase I NCT01817855	Healthy subjects and COPD	N = 47	<p><b>MAD</b></p> <ul style="list-style-type: none"> <li>• Different dose levels investigated vs placebo in healthy volunteers and patients with COPD</li> <li>• Inhaled (nebulised) administration</li> </ul> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability in healthy subjects and patients with COPD following administration of multiple ascending inhaled doses</li> </ul>	<ul style="list-style-type: none"> <li>• FSD: Q3 13</li> <li>• Completed</li> </ul>



# AZD7986 (DPP1 inhibitor)

## COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02303574	Healthy subjects	N = 152	<b>Part 1 (SAD)</b> <ul style="list-style-type: none"> <li>Five different dose levels investigated vs placebo</li> <li>oral administration</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability and PK following oral administration with single ascending dose</li> <li>Preliminary assessment of the effect of food on the single dose PK parameters of AZD7986</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Completed</li> </ul>
			<b>Part 2 (MAD)</b> <ul style="list-style-type: none"> <li>Three different dose levels investigated vs placebo in healthy volunteers</li> <li>oral administration</li> </ul> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>Safety and tolerability &amp; PK in healthy subjects following administration of multiple ascending oral doses</li> <li>NE activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H1 16</li> <li>Est. completion: H1 16</li> </ul>



# AZD8999 (MABA1)

## Asthma/COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02059434	Part 1: Mild Asthmatic  Part 2: Moderate to severe COPD	N (Part 1) = 17  N (Part 2) = 38	<p><b>Part 1</b> SAD study with 6 dose levels - 5 µg, 20 µg, 50 µg, 100 µg, 200 µg, and up to 400 µg</p> <p><b>Part 2</b> Comprises 5 treatment periods of 36 hours each separated by a washout period of at least 7 to 14 days (one exception per patient of up to 28 days would be acceptable).</p> <ul style="list-style-type: none"> <li>• AZD8999 100 µg once daily (double-blind)</li> <li>• AZD8999 400 µg once daily (double-blind)</li> <li>• Indacaterol 150 µg once daily (open-label)</li> <li>• Tiotropium 18 µg once daily (open-label)</li> <li>• Placebo (double-blind)</li> </ul> <p>Global Study – 1 country</p>	<p><b>Part 1 Endpoints:</b></p> <ul style="list-style-type: none"> <li>• To assess the safety and tolerability of single doses of AZD8999 administered by inhalation to mild persistent asthmatic male subjects</li> <li>• To evaluate the pharmacodynamics (PD) (bronchodilation) of single doses of AZD8999 in mild persistent asthmatic male subjects</li> </ul> <p><b>Part 2 Endpoints:</b></p> <ul style="list-style-type: none"> <li>• To assess the safety and tolerability of single doses of AZD8999 administered by inhalation to moderate to severe COPD subjects</li> <li>• To evaluate the pharmacodynamics (PD) (bronchodilation) of single doses of AZD8999 in moderate to severe COPD subjects</li> </ul>	<p>Part 1</p> <ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• LPD: Q1 14</li> </ul> <p>Part 2</p> <ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q3 14</li> </ul> <p>Study completed</p>



# AZD8871 (MABA2)

## Asthma/COPD

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I CTs.gov Identifier: In progress	Part 1: Mild Asthmatic  Part 2: Moderate to severe COPD	N (Part 1) = 16  N (Part 2) = 40	<p><b>Part 1</b> SAD study with 6 planned dose levels - 50 µg, 100 µg, 300 µg, 600 µg, 1200 µg, and up to 1800 µg</p> <p><b>Part 2</b> Comprises 5 treatment periods of 36 hours each separated by a washout period of at least 7 to 14 days (one exception per patient of up to 28 days would be acceptable).</p> <ul style="list-style-type: none"> <li>• AZD8871 dose A once daily (double-blind)</li> <li>• AZD8871 dose B once daily (double-blind)</li> <li>• Indacaterol 150 µg once daily (open-label)</li> <li>• Tiotropium 18 µg once daily (open-label)</li> <li>• Placebo (double-blind)</li> </ul> <p>Global Study – 1 country</p>	<p><b>Part 1 Endpoints:</b></p> <ul style="list-style-type: none"> <li>• To assess the safety and tolerability of single doses of AZD8871 administered by inhalation to mild persistent asthmatic male subjects</li> <li>• To evaluate the pharmacodynamics (PD) (bronchodilation) of single doses of AZD8871 in mild persistent asthmatic male subjects</li> </ul> <p><b>Part 2 Endpoints:</b></p> <ul style="list-style-type: none"> <li>• To assess the safety and tolerability of single doses of AZD8871 administered by inhalation to moderate to severe COPD subjects</li> <li>• To evaluate the pharmacodynamics (PD) (bronchodilation) of single doses of AZD8871 in moderate to severe COPD subjects</li> </ul>	<p>Part 1</p> <ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: H1 16</li> </ul> <p>Part 2</p> <ul style="list-style-type: none"> <li>• FPD: H1 16</li> <li>• LPD: H2 16</li> </ul> <p>Est. completion date: 2017</p>



# AZD9412 (Inhaled IFN-beta)

## Asthma

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIa INEXAS NCT02491684	Asthma	N = 220	<ul style="list-style-type: none"><li>• <b>Arm 1:</b> 24 µg (metered dose) AZD9412 once daily for 14 days</li><li>• <b>Arm 2:</b> Placebo once daily for 14 days</li><li>• Inhaled nebulised administration</li></ul> <p>Conducted in Argentina, Australia, Colombia, France, Spain, South Korea and UK.</p>	<ul style="list-style-type: none"><li>• Proportion of patients with a severe asthma exacerbation during 14 days of treatment</li></ul>	<ul style="list-style-type: none"><li>• FPD: Q3 15</li><li>• LPD: H2 16</li><li>• Est. topline results: H2 16</li></ul>



# RDEA3170 (SURI, URAT1 inhibitor)

## Gout and hyperuricemia development programme

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT01927198	Monotherapy study in subjects with gout	N = 160	<ul style="list-style-type: none"> <li>Arm A: Placebo</li> <li>Arm B: RDEA3170 5 mg QD</li> <li>Arm C: RDEA3170 10 mg QD</li> <li>Arm D: RDEA3170 12.5 mg QD</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy and Safety at Week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q4 13</li> <li>Study complete</li> </ul>
Phase II NCT02078219	Monotherapy study in Japanese patients with gout or asymptomatic hyperuricemia	N = 200	<ul style="list-style-type: none"> <li>Arm A: Placebo</li> <li>Arm B: RDEA3170 5 mg QD</li> <li>Arm C: RDEA3170 10 mg QD</li> <li>Arm D: RDEA3170 12.5 mg QD</li> <li>Arm E: Open-label Allopurinol 100mg BID</li> </ul>	<ul style="list-style-type: none"> <li>To compare the efficacy of RDEA3170 monotherapy at Week 16 with placebo and allopurinol</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>LPD: Q3 14</li> <li>Study complete</li> </ul>
Phase II NCT02246673	Combination therapy study with febuxostat in subjects with gout	N = 60	<ul style="list-style-type: none"> <li>Arm A: RDEA3170 2.5 mg QD</li> <li>Arm B: RDEA3170 5.0 mg QD</li> <li>Arm C: RDEA3170 10 mg QD</li> <li>Arm D: RDEA3170 15 mg QD</li> <li>Arm E: Sequential doses of RDEA3170 10, 15 and 20 mg QD in combination with 40 mg QD febuxostat</li> </ul> <p>*Arms A-D include combination with 40 mg QD febuxostat for 7 days followed by combination with 80 mg QD febuxostat for 7 days</p>	<ul style="list-style-type: none"> <li>To assess the PK and PD profiles of RDEA3170 administered with febuxostat</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: Q2 15</li> <li>Est. completion: H1 16</li> </ul>
Phase II NCT02317861	Combination study with febuxostat for treating gout or asymptomatic hyperuricemia in Japanese patients	N = 92	<ul style="list-style-type: none"> <li>Arm A: RDEA3170 2.5 mg QD + 10mg or 20mg QD febuxostat</li> <li>Arm B: RDEA3170 5.0 mg QD + 10mg or 20mg QD febuxostat</li> <li>Arm C: RDEA3170 5.0 mg QD + 20mg or 40mg QD febuxostat</li> <li>Arm D: RDEA3170 10 mg QD + 20mg or 40mg QD febuxostat</li> <li>Arm E: Benzbromarone 50 mg QD</li> </ul>	<ul style="list-style-type: none"> <li>To assess the PD, PK and safety profiles of RDEA3170 administered with febuxostat</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: Q2 15</li> <li>Est. completion: H1 16</li> </ul>



# RDEA3170 (SURI, URAT1 inhibitor)

## Gout and hyperuricemia

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT02498652	Combination therapy study with allopurinol in subjects with gout	N = 40	<ul style="list-style-type: none"> <li>• <b>Arm A:</b> Placebo</li> <li>• <b>Arm B:</b> RDEA3170 2.5 mg QD</li> <li>• <b>Arm C:</b> RDEA3170 5.0 mg QD</li> <li>• <b>Arm D:</b> RDEA3170 7.5 mg QD</li> <li>• <b>Arm E:</b> RDEA3170 10 mg QD</li> <li>• <b>Arm F:</b> RDEA3170 15 mg QD</li> <li>• <b>Arm G:</b> RDEA3170 20 mg QD</li> </ul> *All arms include combination with 300 mg QD allopurinol. Placebo group also includes combination with 300 mg BID allopurinol or 600 mg QD allopurinol	<ul style="list-style-type: none"> <li>• To assess the PK and PD profiles of RDEA3170 administered with allopurinol</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• LPD: Q4 15</li> <li>• Est. completion: H1 16</li> </ul>
Phase I NCT02608710	Pharmacokinetic and Pharmacodynamic study in healthy adult male subjects	N = 40	<b>Part 1:</b> Single doses of RDEA3170 at 4.5 mg, 6.0 mg, or 12 mg <b>Part 2:</b> Multiple doses of RDEA3170 at 12 mg QD for 7 days <b>Part 3:</b> Food effect study with single doses of RDEA3170 at 6.0 mg	<ul style="list-style-type: none"> <li>• To assess the PK, PD and food effect profiles of RDEA3170</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: Q4 15</li> <li>• Est. completion: H1 16</li> </ul>



# AZD9567 (oSGRM)

## Rheumatoid Arthritis

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of subjects	Design	Endpoints	Status
Phase I NCT02512575	Healthy Volunteers	N = 72	SAD study with 6 dose levels - 2 µg, 10 µg, 40 µg, 100 µg, 200 µg, and up to 400 µg  Global Study – 1 country	<ul style="list-style-type: none"> <li>A Phase I, Randomized, Single-Blind, Placebo-Controlled Study To Assess The Safety, Tolerability, Pharmacokinetics And Pharmacodynamics Of Single Ascending Oral Doses Of AZD9567 In Healthy subjects</li> </ul>	Part <ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Est. top-line results: H2 16</li> </ul>



# AZD9977 (mineralocorticoid receptor modulator)

## Diabetic kidney disease

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02484729	Healthy subjects	N = up to 88	<b>Part A: Single Ascending Dose (SAD) study</b> <ul style="list-style-type: none"> <li>Up to 8 different dose levels investigated vs placebo</li> <li>Oral administration</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>PK parameters</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: Q4 15</li> <li>Terminated</li> </ul>
			<b>Part B: Cross-over study to assess regional absorption</b> <ul style="list-style-type: none"> <li>Oral administration using IntelliCap® and an oral solution</li> </ul> Study conducted in the UK	<ul style="list-style-type: none"> <li>PK parameters</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: Q4 15</li> <li>Terminated</li> </ul>
Phase I NCT02532998	Healthy subjects	N = up to 24	<b>Adaptive cross-over study with 4-6 treatment periods</b> <ul style="list-style-type: none"> <li>Comparators include eplerenone and placebo</li> <li>Fludrocortisone used as challenge agent</li> <li>Oral administration</li> </ul> Study conducted in the UK	<ul style="list-style-type: none"> <li>Effects on urinary electrolyte excretion</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: Q4 15</li> <li>Terminated</li> </ul>
Phase I NCT02560363	Healthy subjects	N = up to 12	<b>Part A: Adaptive cross over study with 3 or 4 treatment periods</b> <ul style="list-style-type: none"> <li>Assessment of 3 or 4 formulations</li> <li>Oral administration</li> </ul> Study conducted in the UK	<ul style="list-style-type: none"> <li>PK parameters</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Terminated</li> </ul>
			<b>Part B: Cross over study with 2 treatment periods</b> <ul style="list-style-type: none"> <li>Oral administration</li> </ul> Study conducted in the UK	<ul style="list-style-type: none"> <li>PK parameters</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Terminated</li> </ul>



# AZD4901 (NK3 Receptor Antagonist)

## Phase II clinical development programme

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIa NCT01872078	Polycystic ovary syndrome patients with amenorrhea or oligomenorrhea	N = 56	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD4901 20 mg QD</li> <li>• <b>Arm 2:</b> AZD4901 20 mg BiD</li> <li>• <b>Arm 3:</b> AZD4901 40 mg BiD</li> <li>• <b>Arm 4:</b> placebo</li> </ul> 28 day dosing period Study sites in US, UK, Germany	<ul style="list-style-type: none"> <li>• Change from baseline at day 7 in Luteinizing Hormone AUC(0-8)</li> </ul> Secondary endpoints: <ul style="list-style-type: none"> <li>• Change from baseline in free and total testosterone at day 7 &amp; day 28</li> </ul>	<ul style="list-style-type: none"> <li>• Completed: Q4 14</li> <li>• Divested to Millendo Therapeutics, Inc. Agreement announced January 2016.</li> </ul>



# AZD4076 (anti-miR 103/107)

## Non-alcoholic Steatohepatitis (NASH)

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02612662	Healthy subjects	N = up to 48	<b>Single Ascending Dose (SAD) study</b> <ul style="list-style-type: none"> <li>Up to 6 different dose levels investigated vs placebo</li> <li>Sc injection</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>PK parameters</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>



# AZD1775 (WEE-1)

## Solid tumours, ovarian cancer and non-small cell lung cancer

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT01357161 Partnered	p53 mutant PSR ovarian cancer	N = 120	<ul style="list-style-type: none"> <li><b>Arm 1:</b> carbo/paclitaxel + AZD1775 225mg</li> <li><b>Arm 2:</b> carbo/paclitaxel + placebo</li> </ul> <p>Global study 10 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Secondary endpoint: Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: H2 16</li> <li>Est. completion: H2 16</li> <li>Note: Data collection for primary outcome measure completed Q4 2014</li> </ul>
Phase II NCT02272790	p53 mutant PR ovarian cancer	N = 173	<ul style="list-style-type: none"> <li><b>Arm 1:</b> chemotherapy + AZD1775 225mg</li> <li><b>Arm 2:</b> chemotherapy</li> </ul> <p>Global study</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Secondary endpoint: Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase I/II NCT02482311	p53 mutant advanced solid tumours	N = 132	<ul style="list-style-type: none"> <li><b>Monotherapy</b></li> </ul> <p>Safety Run-in (part A, N=12); solid tumours Expansions into specific tumour types, inc ovarian cancer (failed PARP-inhibitor), triple negative breast cancer (TNBC) and squamous non-small cell lung cancer (SqNSCLC)</p> <p>Conducted in US, Canada</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Secondary endpoints: Progression Free Survival and Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase I NCT02610075	p53 mutant advanced solid tumours	N = 18	<ul style="list-style-type: none"> <li><b>Monotherapy</b></li> </ul> <p>Dose escalation study to determine MTD</p> <p>Conducted in US</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase I NCT02511795	p53 mutant advanced solid tumours	N = 36	<ul style="list-style-type: none"> <li><b>Dose escalation study (AZD1775 + olaparib)</b></li> </ul> <p>Conducted in US</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: H1 16</li> <li>Est. completion: H1 16</li> </ul>
Phase I NCT02617277	p53 mutant advanced solid tumours	N = 18	<ul style="list-style-type: none"> <li><b>Dose escalation study (AZD1775 + MEDI4736)</b></li> </ul> <p>Conducted in US</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase I NCT02341456	p53 mutant advanced solid tumours	N = 18	<ul style="list-style-type: none"> <li><b>Dose escalation study (AZD1775 + carboplatin + paclitaxel)</b></li> </ul> <p>Conducted in Australia, Japan and Republic of Korea</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H2 16</li> <li>Est. completion: H2 16</li> </ul>



# Savolitinib (AZD6094) (MET)

## Papillary renal cell and other cancers

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT02127710	Papillary renal cell cancer	N = 90	<ul style="list-style-type: none"> <li>Single arm study: AZD6094 600mg QD</li> </ul> Conducted in UK, Spain, US, Canada	<ul style="list-style-type: none"> <li>Overall Response Rate</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q4 15</li> <li>Est. completion: H1 16</li> </ul>
Phase I NCT01773018 Partnered	Advanced cancer (all-comers)	N = 50	<ul style="list-style-type: none"> <li>Dose escalation study</li> </ul> Conducted in Australia	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 12</li> <li>LPD: Q3 15</li> <li>Est. completion: H1 16</li> </ul>
Phase I NCT01985555 Partnered	Advanced cancer (all comers)	N = 70	<ul style="list-style-type: none"> <li>Dose escalation study</li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase I NCT02252913 Partnered	Advanced gastric cancer (all-comers)	N = 50	<ul style="list-style-type: none"> <li>Dose escalation study</li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: H1 16</li> <li>Est. completion: H2 16</li> </ul>



# AZD2014 (TORC 1/2)

## Breast and squamous NSCLC cancer

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIa STORK NCT02403895	Relapsed or refractory squamous non-small cell lung cancer (at least one prior therapy)	N = 40	Open label  Single arm – patient are divided in two groups Group A - intensive PK Group B – sparse PK  Dose: intermittent AZD2014 50mg BID (3 days on + 4 days off) + weekly paclitaxel 80 mg/m <sup>2</sup>  Multicentre: EU and US study sites	<ul style="list-style-type: none"> <li>Primary: ORR according to RECIST 1.1 by Investigator assessment</li> <li>Secondary: Number of patients experiencing adverse events (AE) and Serious Adverse Events (SAEs) including chemistry, haematology, vital signs and ECG variables</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H2 16</li> <li>Est. completion: 2017</li> </ul>
Phase II MANTA NCT02216786  Partnered	2nd line ER+ metastatic breast cancer	N = 316	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Fulvestrant</li> <li><b>Arm 2:</b> Fulvestrant + AZD2014 50mg BD continuous dosing</li> <li><b>Arm 3:</b> Fulvestrant + AZD2014 125mg BD two days on, 5 off</li> <li><b>Arm 4:</b> Fulvestrant + everolimus</li> </ul> The study will be conducted in Europe	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Secondary endpoint: Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: H1 16</li> <li>Est. completion: 2017</li> </ul>
Phase I NCT02398747	Japanese Patients with Advanced Solid Malignancies	N = 18	Open label  Monotherapy and combination with paclitaxel cohorts	<ul style="list-style-type: none"> <li>Safety and tolerability of AZD2014 monotherapy and in combination with paclitaxel</li> <li>PK</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. completion: 2017</li> </ul>



# AZD3759 (EGFRm BBB)

## Lung cancer with lung and/or brain metastases

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I BLOOM  NCT02228369	EGFRm+ NSCLC	N = 47	<ul style="list-style-type: none"> <li>MAD</li> <li>Expansion in LM patients at RP2D with AZD3759</li> <li>Expansion in 12 LM patients at 160mg with AZD9291</li> </ul> Study conducted 4 countries	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: LM expansion at RP2D H2 16</li> <li>AZD9291 LM expansion</li> <li>Est. topline results: Q4 15</li> </ul>



# AZD4547 (FGFR)

## Solid tumours

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
<b>Phase II/III Lung Master Protocol</b>  <b>NCT02154490</b>  Partnered with NCI and SWOG	Stage IIIB-IV NSCLC patients  Biomarker-targeted 2L therapy	N = 318 (AZD4547 arm only)	5-Arm study based on biomarker expression <ul style="list-style-type: none"> <li><b>Arm 1:</b> MEDI4736/Unmatched biomarker IVQ2W</li> <li><b>Arm 2:</b> AZD4547 (FGFR inhibitor)</li> <li><b>Arm 3:</b> CDK4/6 inhibitor</li> <li><b>Arm 4:</b> PI3K Inhibitor</li> <li><b>Arm 5:</b> HGFR Inhibitor</li> </ul>	<ul style="list-style-type: none"> <li>Progression Free Survival (PFS)</li> <li>Overall Survival (OS)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: 2022 (final data collection for primary outcome measure Ph III)</li> </ul>
<b>Phase II GLOW</b>  <b>NCT01202591</b>	Female ER+ breast cancer patients whose disease has progressed following treatment with one prior endocrine therapy	N = 40	<ul style="list-style-type: none"> <li><b>Part A:</b> AZD4547 in ascending multiple doses in combination with 25mg exemestane</li> <li><b>Part B:</b> <ul style="list-style-type: none"> <li><b>Arm 1:</b> AZD4547 (dose from part A) + fulvestrant</li> <li><b>Arm 2:</b> placebo + fulvestrant</li> </ul> </li> </ul> Patients with FGFR1 polysomy (30 patients) or FGFR1 amplification (60 patients)	<ul style="list-style-type: none"> <li><b>Part A:</b> MTD of AZD4547 in combination with 25mg exemestane in three schedules of AZD4547</li> <li><b>Part B Interim analysis:</b> Tumour size analysis on 30 FGFR amplified patients</li> <li><b>Part B Final analysis:</b> Progression Free Survival</li> </ul>	<ul style="list-style-type: none"> <li>LPD: Q2 14</li> <li>Completed: Q1 15</li> </ul>
<b>Phase II SHINE</b>  <b>NCT01457846</b>	Advanced gastro-oesophageal cancer	N = 71	<ul style="list-style-type: none"> <li><b>Arm 1</b> (FGFR2 polysomy): AZD4547 vs paclitaxel randomized 1:1 (30 to 80 patients)</li> <li><b>Arm 2</b> (FGFR 2 low gene amplification: AZD4547 vs paclitaxel randomized 3:2 (25 to 80 patients)</li> <li><b>Arm 3</b> (FGFR2 high gene amplification: AZD4547 vs paclitaxel randomized 3:2 (25 to 80 patients)</li> </ul>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Key Secondary: Overall survival/Tumour size</li> </ul>	<ul style="list-style-type: none"> <li>Recruitment closed after interim analysis: Q2 13</li> <li>Completed: Q1 15</li> </ul>
<b>Phase I</b>  <b>NCT01213160</b>	Advanced cancer who have failed standard therapy or for whom no standard therapy exists	N = 33	<ul style="list-style-type: none"> <li><b>Part A:</b> AZD4547 in ascending multiple doses given bd and od (c. 30 patients)</li> <li><b>Part B:</b> AZD4547 in patients whose tumours have FGFR amplification (c. 8 patients)</li> </ul> Conducted in Japan	<ul style="list-style-type: none"> <li><b>Part A:</b> MTD and Recommended dose for Parts B and C</li> <li><b>Part B:</b> Safety and tolerability and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>Completed: Q2 13</li> </ul>



# AZD4547 (FGFR)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT00979134	Advanced cancer who have failed standard therapy or for whom no standard therapy exists	N = 94	<ul style="list-style-type: none"> <li><b>Part A:</b> Ascending oral doses of AZD4547 to define maximum tolerated dose (MTD) and /or continuous, tolerable recommended dose (RD)</li> <li><b>Part B:</b> Dose expansion phase at RD defined in Part A</li> <li><b>Part C:</b> Expansion phase in patients with FGFR1 and FGFR2 amplified tumours at the RD defined from Part A</li> </ul>	<ul style="list-style-type: none"> <li><b>Part A:</b> MTD and Recommended dose for Parts B and C</li> <li><b>Part B and C:</b> Safety and tolerability, PK and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>Completed: Q1 14</li> </ul>
Phase I NCT02546661	2 <sup>nd</sup> + line Muscle Invasive Metastatic Bladder Cancer in patients who have failed prior therapy	N = 40	<ul style="list-style-type: none"> <li>BISCAY - A multi-drug biomarker-directed study of monotherapy AZD4547 and combination therapy AZD4547 + Durvalumab</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability of the combination</li> <li>PK and preliminary anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD Q4 2015</li> <li>Est. completion: 2016</li> </ul>



# AZD9496 (SERD)

## Breast cancer

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02248090	ER+ Breast Cancer	N ~150	<ul style="list-style-type: none"> <li>This is a Phase I open label multicentre study of AZD9496 administered orally in patients with advanced ER+ HER2 negative breast cancer. The study design allows an escalation of dose with intensive safety monitoring to ensure the safety of patients. The study will determine the maximum tolerated dose. In addition, expansion cohort(s) at potential therapeutic dose(s) in patients with or without ESR1 mutations will be enrolled to further determine the safety, tolerability, pharmacokinetics and biological activity of AZD9496</li> </ul>	<ul style="list-style-type: none"> <li>Primary Outcome Measures: Safety and tolerability</li> <li>Secondary Outcome Measures: Single and multiple dose pharmacokinetics of AZD9496</li> <li>4<math>\beta</math>-hydroxycholesterol concentration in blood</li> <li>Anti-tumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: 2017</li> </ul>



# AZD5312 (ISIS-AR)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02144051	Advanced solid tumours with androgen receptor pathway as a potential factor	N = 90	<p><b>Part A: Dose escalation</b></p> <ul style="list-style-type: none"> <li>AZD5312 in ascending multiple doses given iv (c. 30 patients)</li> </ul> <p><b>Part B: Dose expansion</b></p> <ul style="list-style-type: none"> <li>AZD5312 at recommended dose from Part A, given iv</li> <li><b>Arm 1:</b> Prostate cancer patients who have received a second generation antihomonal therapy (eg. abiraterone, enzalutamide) but have not responded (n=20). AZD5312 at RP2D</li> <li><b>Arm 2:</b> Prostate cancer patients who have initially responded to a second generation anti-homonal therapy, but later relapsed (n=20)</li> <li><b>Arm 3:</b> Non-mCRPC patient population (eg. breast, bladder, ovarian) expansion, where AR pathway may be a potential factor (n=20)</li> </ul>	<ul style="list-style-type: none"> <li><b>Part A:</b> MTD and Recommended dose for Parts B. Safety and tolerability and preliminary anti-tumour activity</li> <li><b>Part B</b> (prostate patients) Response rate, blood PSA, circulating tumour cell enumeration, disease progression</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>Est. completion: H1 16</li> </ul>



# AZD5363 (AKT)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIb NCT01625286	ER+ breast cancer receiving 1 <sup>st</sup> treatment with paclitaxel in the advanced setting	N = 100	<ul style="list-style-type: none"> <li><b>Arm 1:</b> AZD5363 + paclitaxel</li> <li><b>Arm 2:</b> Paclitaxel alone</li> </ul> Two strata: PIK3CA mutation positive vs Mutation not detected	<ul style="list-style-type: none"> <li>Progression Free survival (PFS)</li> <li>Response rate (ORR) &amp; overall survival are secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>Est. primary completion: 2017</li> <li>Est. completion: 2018</li> </ul>
Phase I NCT01226316	Breast and gynaecological cancers with PK pathway mutation	N = 20 per arm	Monotherapy AZD5363 480mg BD 4 days on 3 days off <ul style="list-style-type: none"> <li><b>Part C arm 1:</b> Breast with PIK3CA mutation</li> <li><b>Part C arm 2:</b> Gynaecological with PIK3CA mutation</li> <li><b>Part D arm 1:</b> Breast with AKT-1 mutation</li> <li><b>Part D arm 2:</b> Gynaecological with AKT-1 mutation</li> <li><b>Part D arm 3:</b> other tumours with AKT-1 mutation</li> </ul> Possible expansion up to 120 patients per arm	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Response Rate (ORR)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>Est. primary completion: Q4 15</li> <li>Part C Arms 1 &amp; 2 completed</li> <li>Part D Arms 1, 2 &amp; 3 ongoing</li> </ul>
Phase I NCT01895946	All-comers solid tumours	N = min 12-24	<ul style="list-style-type: none"> <li>Comparison of PK between new tablet and original capsule formulation and preliminary assessment of food effect on tablet PK</li> <li>AZD5363 monotherapy 480mg bd 4 days on 3 days off</li> <li>12 pts for each of formulation switch and food effect</li> </ul>	<ul style="list-style-type: none"> <li>PK</li> </ul>	<ul style="list-style-type: none"> <li>Tablet-capsule comparison completed in Q3 14 &amp; formulations declared comparable</li> <li>Food effect cohort completed in Q2 15</li> </ul>



# AZD6738 (ATR)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02264678	Solid tumours	N = 160	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD6738 + carboplatin</li> <li>• <b>Arm 2:</b> AZD6738 dose escalation AZD6738 + olaparib</li> </ul> Study conducted in North America, Europe and South Korea	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Pharmacokinetics and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 14</li> <li>• Est. completion: 2017</li> </ul>



# AZD8186 (PI3Kb/d)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT01884285	Advanced CRPC/SqNSCLC/TNBC and patients with known PTEN-deficient tumours	N = 96	<ul style="list-style-type: none"> <li><b>Part A:</b> AZD8186 monotherapy in ascending intermittent doses in 2 schedules</li> <li><b>Part B:</b> AZD8186 monotherapy at recommended dose and schedule(s) from Part A in PTEN deficient patients with advanced cancer</li> </ul> Study conducted in Canada, US & UK	<ul style="list-style-type: none"> <li><b>Part A:</b> PK, MTD and Recommended dose and schedule(s) for Part B</li> <li><b>Part B:</b> Safety and tolerability and preliminary assessment of antitumour activity (POM)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>Est. completion: 2017</li> </ul>



# AZD8835 (PI3K $\alpha/\delta$ inhibitor)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02260661	Women with estrogen receptor positive HER-2 negative advanced breast cancer with and without PIK3CA mutations	N = 100	<ul style="list-style-type: none"> <li><b>Part A:</b> AZD8835 single agent dose escalation</li> <li><b>Part B:</b> AZD8835 single agent dose expansion</li> <li><b>Part C:</b> AZD8835 in combination with fulvestrant dose escalation</li> <li><b>Part D:</b> AZD8835 (at maximum tolerated dose or recommended phase II dose) in combination with fulvestrant dose expansion</li> </ul> Study to be conducted in US & UK	<ul style="list-style-type: none"> <li>MTD and recommended Phase II dose of oral AZD8835 as a single agent and in combination with fulvestrant.</li> <li>Safety and tolerability profile of oral AZD8835 as a single agent and in combination with fulvestrant</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>Est. completion: 2017</li> </ul>



# AZD9150 (STAT3)

## Solid and Haematological Cancers

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase Ib/II NCT02499328	SCCHN	N = 147	<b>Dose Escalation advanced solid and haematological cancers</b> <ul style="list-style-type: none"> <li>• Arm A1: AZD9150/MEDI4736</li> <li>• Arm A2 : AZD5069/MEDI4736</li> </ul> <b>Dose Expansion 2L SCCHN:</b> <ul style="list-style-type: none"> <li>• Arm B1: AZD9150</li> <li>• Arm B2: AZD5069</li> <li>• Arm B3: AZD9150/MEDI4736</li> <li>• Arm B4: AZD5069/MEDI4736</li> </ul>	<ul style="list-style-type: none"> <li>• Safety/Efficacy Study</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• LPD: 2017</li> <li>• Est. completion: 2019</li> </ul>

\* clinicaltrials.gov being updated



# AZD0156 (ATM)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02588105	Solid tumours	N = 90	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD0156 + olaparib</li> <li>• <b>Arm 2:</b> AZD0156 + irinotecan</li> </ul> <p>Study conducted in North America, Europe and South Korea</p>	<ul style="list-style-type: none"> <li>• Safety, tolerability, pharmacokinetics and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• Est. completion: 2018</li> </ul>



# AZD2811 (AURN)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02579226	Solid tumours	N = 72	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD2811 dose escalation</li> <li>• <b>Arm 2:</b> AZD2811 dose expansion AZD2811 + irinotecan</li> </ul> Study conducted in North America	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Pharmacokinetics and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• Est. completion: 2017</li> </ul>



# ATM AVI

## Infections

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT01689207	Healthy volunteers		<ul style="list-style-type: none"> <li>Randomized, double-blind, 3-part study in healthy young and elderly volunteers given Aztreonam and Avibactam alone and in combination</li> </ul>	<ul style="list-style-type: none"> <li>Safety/tolerability</li> <li>Pharmacokinetics (secondary)</li> </ul>	<ul style="list-style-type: none"> <li>FPD Q4 12</li> <li>LPD: Q4 14</li> <li>Completion: Q4 15</li> </ul>
		N = 12	<ul style="list-style-type: none"> <li><b>Part A:</b> single 1 hour IV infusions</li> </ul>		
		N = 56	<ul style="list-style-type: none"> <li><b>Part B:</b> single IV infusion on Days 1 and 11 and multiple (every 6 hr) IV infusions on Days 2-10. Various dose regimens of Aztreonam-Avibactam are being tested.</li> </ul>		
		N = 24	<ul style="list-style-type: none"> <li><b>Part C:</b> multiple (every 6 hr) IV infusions Days 1-10 in healthy young and elderly volunteers</li> </ul>		
		(Total dosed = 94) (Total enrolled = 124)	Single centre in UK		



# AZD8108 (NMDA)

## Phase I clinical development programme

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02248818	Healthy volunteers	N = 40	<ul style="list-style-type: none"><li>• Randomized, double-blind, placebo-controlled</li><li>• Part 1 SAD 3 dosage-level cohorts</li><li>• Part 2 MAD 2 dosage-level cohorts</li></ul> US only study, one site	<ul style="list-style-type: none"><li>• Safety and tolerability</li></ul> Additional endpoints: <ul style="list-style-type: none"><li>• Pharmacokinetics</li><li>• Pharmacodynamics</li></ul>	<ul style="list-style-type: none"><li>• FPD: Q4 14</li><li>• LPD: Q3 15</li><li>• Est. topline results: H1 16</li></ul>



# AZD3241 (MPO)

## Multiple System Atrophy

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT01527695	Parkinson's disease patients	N = 24	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD3241 600 mg BID for 8 weeks</li> <li>• <b>Arm 2:</b> Placebo</li> </ul> <p>randomisation 3:1 active to placebo. 3 sites in Sweden and Finland</p>	<ul style="list-style-type: none"> <li>• Microglia activation represented by [11C]PBR28 binding</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>• PD symptoms measured by UPDRS</li> <li>• Plasma MPO activity</li> </ul>	• Study completed
Phase II NCT01603069	Parkinson's disease patients	N = 51	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD3241 300 mg BID for 12 weeks</li> <li>• <b>Arm 2:</b> AZD3241 600 mg BID for 12 weeks</li> <li>• <b>Arm 3:</b> Placebo</li> </ul> <p>randomisation 1:1:1 across arms 13 sites in US</p>	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>• PD symptoms measured by UPDRS</li> <li>• Plasma MPO activity</li> </ul>	• Study completed
Phase II NCT02388295	Multiple System Atrophy (MSA)	N = 54	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> AZD3241 300 mg BID for 12 weeks</li> <li>• <b>Arm 2:</b> AZD3241 600 mg BID for 12 weeks</li> <li>• <b>Arm 3:</b> Placebo</li> </ul> <p>randomisation 1:1:1 across arms 8 sites in US 9 sites in Europe</p>	<ul style="list-style-type: none"> <li>• Microglia activation represented by [11C]PBR28 binding</li> <li>• AEs, labs, vital signs, ECGs</li> </ul> <p>Secondary endpoints:</p> <ul style="list-style-type: none"> <li>• MSA symptoms measured by UMSARS and MSA QoL</li> <li>• Plasma MPO activity</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 15</li> <li>• LPD: H2 16</li> <li>• Est. topline results: H2 16</li> </ul>
Phase I NCT00729443	Healthy subjects	N = 46	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> SAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> <p>1 site in Sweden</p>	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	• Study completed
Phase I NCT01457807	Healthy subjects	N = 18	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> MAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> <p>1 site in UK</p>	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	• Study completed
Phase I NCT00914303	Healthy subjects	N = 59	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> MAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> <p>1 site in Sweden</p>	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	• Study completed

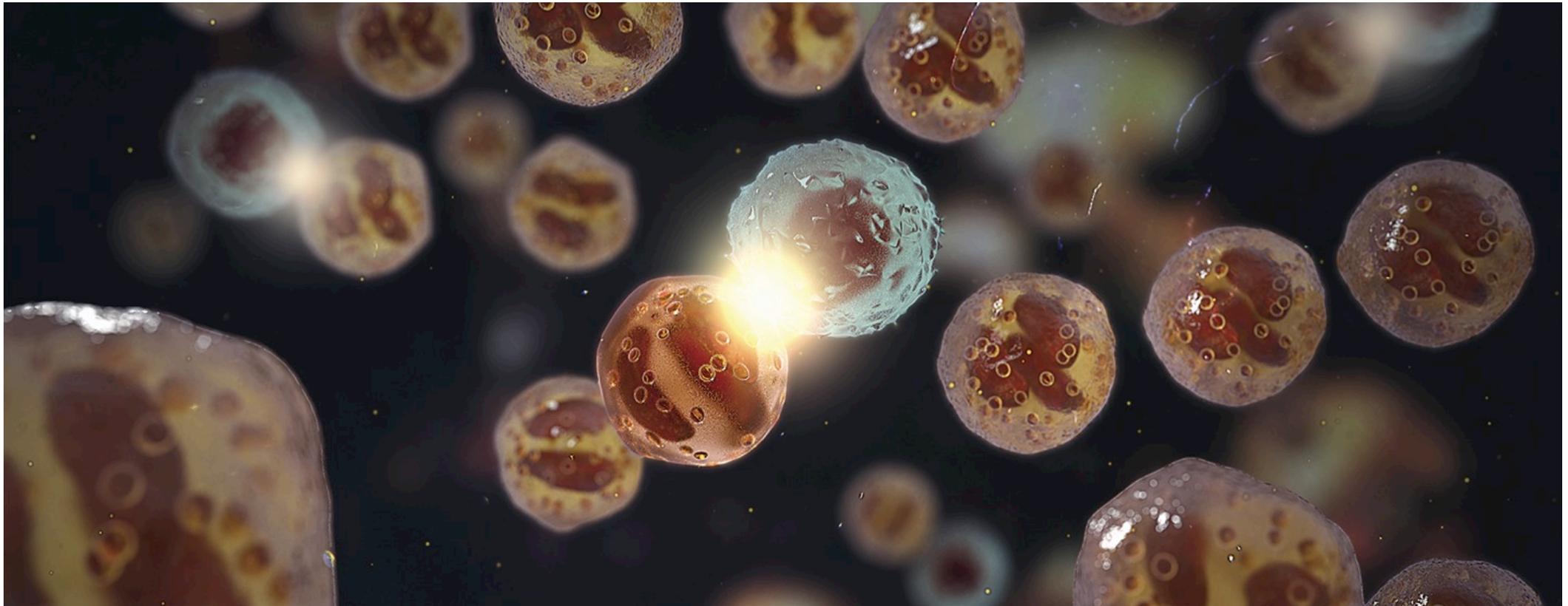


# MedImmune



A member of the AstraZeneca Group

## Early development - MedImmune



# MEDI7836 (IL-13 mAb)

## Asthma

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02388347	Healthy volunteers	N = 32	<ul style="list-style-type: none"><li>• <b>Arm 1:</b> 30 mg MEDI7836 (n = 6) or placebo (n = 2) as a single SC dose</li><li>• <b>Arm 2:</b> 105 mg MEDI7836 (n = 6) or placebo (n = 2) as a single SC dose</li><li>• <b>Arm 3:</b> 300 mg MEDI7836 (n = 6) or placebo (n = 2) as a single SC dose</li><li>• <b>Arm 4:</b> 600 mg MEDI7836 (n = 6) or placebo (n = 2) as a single SC dose</li></ul>	<ul style="list-style-type: none"><li>• Safety and tolerability</li></ul>	<ul style="list-style-type: none"><li>• FPD: Q1 15</li><li>• LPD: Q3 15</li><li>• Est. topline results: H1 16</li></ul>



# MEDI9929 (TSLP mAb)

## Asthma

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Design	Endpoints	Status
Phase II <b>PATHWAY</b> NCT02054130 Partnered	Adult subjects with inadequately controlled, severe asthma	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Placebo</li> <li><b>Arm 2:</b> Low dose MEDI9929 70mg SC</li> <li><b>Arm 3:</b> Medium dose MEDI9929 210mg SC</li> <li><b>Arm 4:</b> High dose MEDI9929 280mg SC</li> </ul>	<ul style="list-style-type: none"> <li>Reduction in the annualized asthma exacerbation rate (AER) measured at Week 52</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q4 15</li> <li>Est. topline results: H2 16</li> </ul>
Phase II NCT02525094 Partnered	Adult subjects with moderate-to-severe atopic dermatitis	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Placebo</li> <li><b>Arm 2:</b> Dose of MEDI9929 SC</li> </ul>	<ul style="list-style-type: none"> <li>50% reduction from baseline in the Eczema Area and Severity Index measured at Week 12</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H2 16</li> <li>Est. topline results: H2 16</li> </ul>



# MEDI5872 (B7RP-1 mAb)

## Systemic Lupus Erythematosus (SLE)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase IIa NCT02334306 Partnered	Primary Sjögren's syndrome	N = 42	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI5872 210 mg SC QW for 3 weeks and then Q2W for 9 weeks</li> <li>• <b>Arm 2:</b> placebo SC QW for 3 weeks and then Q2W for 9 weeks</li> </ul> Global study – 5 countries	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Change in the ESSDAI score from baseline to Day 99</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• LPD: 2017</li> <li>• Est. topline results: H1 16</li> </ul>
Phase I NCT01683695 Partnered	SLE and lupus related inflammatory arthritis	N = 40	<b>Dose escalation study:</b> <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI5872 SC</li> <li>• <b>Arm 2:</b> placebo SC</li> </ul> Global study – 8 countries	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Lupus Arthritis Response Rate</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 12</li> <li>• LPD: Q4 15</li> <li>• Est. topline results: H1 16</li> </ul>



# Mavrilimumab (GMCSF mAb)

## Rheumatoid arthritis (RA)

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II EARTH Explorer 2 NCT01715896	RA patients who have failed 1 or 2 anti-TNF for efficacy, intolerance or safety, OR Inadequate response to DMARDs	N = 138	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Mavrilimumab SC</li> <li><b>Arm 2:</b> golimumab</li> </ul> Global study (ex-US) on MTX background; 17 countries	<ul style="list-style-type: none"> <li>ACR 20/50/70 at wk 24</li> <li>DAS28 remission</li> <li>Function (HAQ-DI)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>LPD: Q3 14</li> <li>Topline results: Q4 14</li> </ul>
Phase I NCT02213315	Healthy Japanese subjects	N = 24	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Mavrilimumab medium dose SC</li> <li><b>Arm 2:</b> Mavrilimumab high dose SC</li> <li><b>Arm 3:</b> Placebo SC</li> </ul> UK Study; Japanese subjects	<ul style="list-style-type: none"> <li>Pharmacokinetic profile</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: Q3 14</li> <li>Topline results: Q4 14</li> </ul>



# Other biologics

## Inflammation

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
Anti- $\alpha 4\beta 7$ mAb Abrilumab (MEDI7183)	Phase II NCT01694485 Partnered	Moderate to severe ulcerative colitis	N = 359	<ul style="list-style-type: none"> <li>Arm 1: MEDI7183 dose level 1, SC</li> <li>Arm 2: MEDI7183 dose level 2, SC</li> <li>Arm 3: MEDI7183 dose level 3, SC</li> <li>Arm 4: MEDI7183 dose level 4, SC</li> <li>Arm 5: Matching Placebo, SC</li> </ul> <p>Global study - 19 countries</p>	<ul style="list-style-type: none"> <li>Remission at week 8 (Mayo Score)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q2 15</li> <li>Topline results: Q3 15</li> </ul>
	Phase II NCT01696396 Partnered	Moderate to severe Crohn's disease	N = 252	<ul style="list-style-type: none"> <li>Arm 1: MEDI7183 low dose, SC</li> <li>Arm 2: MEDI7183 medium dose, SC</li> <li>Arm 3: MEDI7183 high dose, SC</li> <li>Arm 4: Matching Placebo, SC</li> </ul> <p>Global study - 12 countries</p>	<ul style="list-style-type: none"> <li>Remission at week 8 (CDAI &lt; 150)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>LPD: Q4 14</li> <li>Topline results: Q2 15</li> </ul>
	Phase II NCT01959165 Partnered	Japanese subjects with moderate to severe ulcerative colitis	N = 48	<ul style="list-style-type: none"> <li>Arm 1: MEDI7183 low dose, 21mg SC</li> <li>Arm 2: MEDI7183 medium dose, 70mg SC</li> <li>Arm 3: MEDI7183 high dose, 210mg SC</li> <li>Arm 4: Matching Placebo, SC</li> </ul>	<ul style="list-style-type: none"> <li>Remission at week 8 (Mayo Score)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 13</li> <li>LPD: Q2 15</li> <li>Est. topline results: Q4 15</li> </ul>
Anti-IL-23 mAb MEDI2070	Phase II NCT01714726 Partnered	Patients with moderate to severe Crohn's disease	N = 121	<ul style="list-style-type: none"> <li>Arm 1: MEDI2070, 700mg IV (210mg SC for OLE)</li> <li>Arm 2: Placebo, IV</li> </ul> <p>Global study - 9 countries</p>	<ul style="list-style-type: none"> <li>CDAI response at Week 8 defined by either a CDAI score of &lt; 150 or a CDAI reduction from baseline of at least 100 points</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 13</li> <li>LPD: Q1 14</li> <li>Topline results: Q2 14</li> </ul>
	Phase II NCT02574637 Partnered	Patients with moderate to severe Crohn's disease	N = 342	<ul style="list-style-type: none"> <li>Arm 1: MEDI2070 High dose</li> <li>Arm 2: MEDI2070 High-Med dose</li> <li>Arm 3: MEDI2070 Low-Med dose</li> <li>Arm 4: MEDI2070 Low dose</li> <li>Arm 5: Placebo</li> </ul>	<ul style="list-style-type: none"> <li>The primary endpoint is Crohn's Disease Activity Index (CDAI) clinical remission at Week 8, defined by a CDAI score of &lt;150.</li> </ul>	<ul style="list-style-type: none"> <li>FPD: H1 16</li> <li>LPD: 2019</li> <li>Topline results: 2018</li> </ul>



# Other biologics

## Autoimmunity

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
Anti-CD19 mAb (MEDI-551)	Phase II/III NCT02200770	Adults with Neuromyelitis Optica and Neuromyelitis Optica Spectrum Disorders (NMO/NMOSD)	N = 212 (est.)	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI-551500mg IV</li> <li>• <b>Arm 2:</b> placebo IV</li> <li>• Open-label extension 300mg</li> </ul> Global study 26 Countries	<ul style="list-style-type: none"> <li>• <b>Primary:</b> Time to attack</li> <li>• <b>Secondary:</b> Attack rate, safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: 2017</li> <li>• Est. topline results: 2018</li> </ul>
Anti-CD40L (MEDI4920)	Phase I NCT02151110	Healthy adults	N = 56	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 3 mg MEDI4920 (n = 2) or placebo (n = 1) as a single IV dose</li> <li>• <b>Arm 2:</b> 10 mg MEDI4920 (n = 2) or placebo (n = 1) as a single IV dose</li> <li>• <b>Arm 3:</b> 30 mg MEDI4920 (n = 3) or placebo (n = 2) as a single IV dose</li> <li>• <b>Arm 4:</b> 100 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>• <b>Arm 5:</b> 300 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>• <b>Arm 6:</b> 1000 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>• <b>Arm 7:</b> 2000 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> </ul>	<ul style="list-style-type: none"> <li>• Safety, tolerability, and pharmacokinetics, anti-drug antibody, inhibition of T-cell dependent antibody response</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q4 15</li> <li>• Topline results: H1 16</li> </ul>



# Other biologics

## Cardiovascular & metabolic disease

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
rhLCAT MEDI6012	Phase IIa NCT02601560	Adults with stable coronary artery disease and low HDL	N = 56	• SAD in stable coronary artery disease (CAD) patients	<ul style="list-style-type: none"> <li>• Safety profile in terms of adverse events (AE), vital signs, ECG, telemetry, lab variables, immunogenicity and physical examination</li> <li>• Changes in baseline adjusted post dose HDL-C</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: H1 16</li> <li>• Est. topline results: H1 16</li> </ul>
rhLCAT MEDI6012	Phase I NCT01554800	Adults with stable coronary artery disease and low HDL	N = 16	• SAD IV	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Changes in total HDL</li> <li>• Change in Cholesteryl Ester</li> </ul>	• Completed by Alphacore
rh-Factor II MEDI8111	Phase I NCT01958645	Healthy male subjects	N = 12	• SAD IV administration UK study site	<ul style="list-style-type: none"> <li>• Safety profile in terms of adverse events (AE), vital signs, ECG, telemetry, lab variables, immunogenicity and physical examination</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 13</li> <li>• LPD: Q4 14</li> <li>• Completed: Q4 14</li> </ul>
GLP-1-Glu MEDI0382	Phase I NCT02394314	Healthy male subjects	N = 64	• SAD SC administration Germany	<ul style="list-style-type: none"> <li>• Safety profile in terms of adverse events (AE), vital signs, ECG, telemetry, lab variables, nausea, immunogenicity and physical examination</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: Q4 15</li> <li>• Topline results: Q4 15</li> </ul>
MEDI4166	Phase I NCT02524782	Adults with T2DM	N =124	SAD/MAD SC administration	Part A <ul style="list-style-type: none"> <li>• Safety/tolerability following SC dosing of 4166</li> </ul> Part B <ul style="list-style-type: none"> <li>• Characterize the effect of multiple-ascending SC doses on glucose metabolism following an MMTT as measured by glucose AUC</li> <li>• Characterize the effect of multiple-ascending SC doses on LDL-c levels</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: H2 16</li> <li>• Est. topline results: H2 16</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb) + Iressa (gefitinib) Non-small cell lung cancer (NSCLC)

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02088112	NSCLC (Escalation phase)  EGFR M+ NSCLC naïve to EGFR-TKI therapy (Expansion phase)	N = 36	<b>Escalation phase</b> Standard 3+3 design with 28 days DLT period • Gefitinib (QD) + MEDI4736 IV  <b>Expansion phase</b> • Gefitinib (QD) + MEDI4736 IV recommended dose  Global study – 3 countries	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Optimal biologic dose for the combination</li> <li>• Secondary endpoints include tumour response (CR, PR, SD, PD), Objective response rate, disease control rate, progression-free survival, immunogenicity, pharmacokinetics, pharmacodynamics</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: Q2 15</li> <li>• Est. topline results: 2017</li> </ul>



# Other biologics

## Immuno-oncology

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
PD-L1 (durvalumab, MEDI4736)	Phase I/II NCT01693562	Solid tumours	N = 1,038	<ul style="list-style-type: none"> <li><b>Dose Escalation:</b> 5 cohorts at Q2W and 1 cohort at Q3W</li> <li><b>Dose Expansion:</b> 16 tumour type cohorts at the Q2W</li> </ul> MTD defined during dose escalation; one cohort at 20mg Q4W  Global study – 8 countries	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose</li> <li>Secondary endpoints include PK, immunogenicity and antitumour activity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 12</li> <li>LPD: Q4 15</li> <li>Est. topline results: H2 16</li> </ul>
PD-L1, azacitidine (MEDI4736, Vidaza)	Phase I NCT02117219	Myelodysplastic syndrome	N = 41	Dose-escalation and dose-expansion study <ul style="list-style-type: none"> <li><b>Arm 1:</b> MEDI4736 IV</li> </ul> Global study – 4 countries	<ul style="list-style-type: none"> <li>Safety and tolerability of monotherapy and combination</li> <li>Secondary endpoints include duration of response, progression free survival and overall survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q2 15</li> <li>Est. topline results: 2017</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb) + Tafenlar (dabrafenib)/ Mekinist (trametinib) Melanoma

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I/II NCT02027961	Metastatic or unresectable melanoma  BRAF mutation+ (Cohort A)  BRAF wild type (Cohorts B&C)	N = 69	<b>Dose Escalation:</b> <ul style="list-style-type: none"> <li><b>Cohort A</b> dabrafenib 150mg BID/ trametinib 2mg QD/ MEDI4736 IV</li> <li><b>Cohort B</b> trametinib 2mg QD/ MEDI4736 IV</li> <li><b>Cohort C</b> trametinib 2mg QD/ MEDI4736 IV</li> </ul> <b>Dose Expansion:</b> <ul style="list-style-type: none"> <li>Each cohort will be expanded at the MTD to enroll a total of 20 subjects per cohort</li> </ul> Global study – 2 countries	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> <li>Secondary endpoints include Objective Response and Disease Control, Duration of Response, Progression-free Survival and Overall Survival, Pharmacokinetics and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 14</li> <li>LPD: Q2 15</li> <li>Est. topline results: 2017</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb) + tremelimumab (CTLA-4 mAb) Solid tumours

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase Ib/II NCT02340975	Gastric or GEJ adenocarcinoma	N = 174	<ul style="list-style-type: none"> <li><b>Arm A:</b> durvalumab + tremelimumab 2L</li> <li><b>Arm B:</b> durvalumab 2L</li> <li><b>Arm C:</b> tremelimumab 2L</li> <li><b>Arm D:</b> durvalumab + tremelimumab 3L</li> </ul> US and ROW study centres	<ul style="list-style-type: none"> <li>Safety &amp; tolerability, ORR, PFS</li> <li>Secondary endpoints include DCR, OS, DoR, PD-L1 Expression</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. topline results: 2017</li> </ul>
Phase Ib/II NCT02519348	Hepatocellular Carcinoma	N = 129	<ul style="list-style-type: none"> <li><b>Arm A:</b> durvalumab + tremelimumab</li> <li><b>Arm B:</b> durvalumab 2L</li> <li><b>Arm C:</b> tremelimumab 2L</li> </ul>	<ul style="list-style-type: none"> <li>Safety &amp; tolerability, ORR, PFS</li> <li>Secondary endpoints include DCR, OS, DoR, PD-L1 Expression</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2018</li> <li>Est. topline results: 2018</li> </ul>
Phase Ib NCT02000947	NSCLC (Immunotx naïve and Immunotx pretreated patient cohorts)	N = 388	<ul style="list-style-type: none"> <li><b>Dose Escalation:</b> minimum 5 cohorts exploring various time Q4W and MEDI4736 IV Q4W dose combinations, higher dose levels and alternate Q2 schedule added with amendment</li> <li><b>Dose Expansion:</b> MTD for the combination in escalation to be explored in expansion</li> </ul> North American study centres, exploration of ex-US countries for expansion into EU and ROW	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> <li>Secondary endpoints include Antitumour activity, PK and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 13</li> <li>LPD: H2 16</li> <li>Est. topline results: 2018</li> </ul>
Phase I NCT02261220	Solid tumours (Basket study)	N = 392	<ul style="list-style-type: none"> <li><b>Dose Exploration:</b> 2 cohorts exploring various Q4W treme and MEDI4736 dose combinations and 2 cohorts exploring various Q2W treme and MEDI4736 dose combinations</li> <li><b>Dose Expansion:</b> MTD for the combination in escalation to be explored in expansion cohorts specific for each of 7 tumour types</li> </ul> North American study centres	<ul style="list-style-type: none"> <li>Safety &amp; tolerability</li> <li>Optimal biologic dose for the combination</li> <li>Secondary endpoints include Antitumour activity, PK/PD and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>
Phase I NCT02262741	SCCHN	N = 69	<ul style="list-style-type: none"> <li><b>Arm A:</b> treatment-naïve, PD-L1+, combo</li> <li><b>Arm B:</b> treatment-naïve, PD-L1-, combo</li> <li><b>Arm C:</b> PD1/PDL1 refractory, combo</li> </ul> North American study centres	<ul style="list-style-type: none"> <li>Safety &amp; tolerability</li> <li>Secondary endpoints include OR, DC, DoR, PFS, OS, PK/PD, immunogenicity and biomarkers</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: H1 16</li> <li>Est. topline results: 2017</li> </ul>



# MEDI0562 (OX40 mAb)

## Advanced malignancies

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02318394	Advanced malignancies	N = 50	<b>Dose-escalation phase</b> <ul style="list-style-type: none"> <li>MEDI0562 IV</li> </ul> <b>Dose-expansion phase</b> <ul style="list-style-type: none"> <li>MEDI0562 IV recommended dose</li> <li>US-only study centres</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> <li>Determination of MTD</li> <li>Secondary endpoints include preliminary antitumour activity, pharmacokinetics, biomarker activity, and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>



# MEDI6383 (OX40 fusion protein) + durvalumab (MEDI4736; PD-L1 mAb)

## Advanced malignancies

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02221960	Advanced malignancies	N = 212	<b>Dose-escalation phase</b> <ul style="list-style-type: none"> <li>MEDI6383 IV</li> <li>MEDI6383 IV + MEDI4736 IV</li> </ul> <b>Dose—expansion phase</b> <ul style="list-style-type: none"> <li>MEDI6383 IV recommended dose</li> <li>MEDI6383 IV + MEDI4736 IV recommended dose</li> </ul> US-only study centres	<ul style="list-style-type: none"> <li>Safety</li> <li>Determination of MTD</li> <li>Secondary endpoints include preliminary antitumour activity, pharmacokinetics, Biomarker activity, and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: H2 16</li> <li>Est. topline results: 2017</li> </ul>



# MEDI0680 (PD-1 mAb) + durvalumab (MEDI4736)

## Advanced malignancies

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02118337	Advanced malignancies	N = 150	<b>Dose-escalation phase</b> • MEDI4736 IV + MEDI0680 IV  <b>Dose-expansion phase at selected dose from dose-escalation phase</b> • MEDI4736 IV + MEDI0680 IV recommended dose	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Determination of MTD</li> <li>• Secondary endpoints include tumour response such as objective response rate, disease control rate, progression-free survival, duration of response, overall survival, immunogenicity, pharmacokinetics, pharmacodynamics</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LPD: 2017</li> <li>• Est. topline results: 2018</li> </ul>



# MEDI9447 (CD73 mAb) + Durvalumab (MEDI4736; PD-L1 mAb) Advanced malignancies

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02503774	Advanced malignancies	N = 132	<b>Dose-escalation phase</b> <ul style="list-style-type: none"> <li>MEDI9447 IV</li> <li>MEDI9447 IV + Durvalumab IV</li> </ul> <b>Dose—expansion phase</b> <ul style="list-style-type: none"> <li>MEDI9447 IV recommended dose</li> <li>MEDI9447 IV recommended dose + Durvalumab IV</li> </ul> US and Australian study centres	<ul style="list-style-type: none"> <li>Safety</li> <li>Determination of MTD</li> <li>Secondary endpoints include PK/PD, preliminary antitumour activity, pharmacokinetics, Pharmacodynamics, and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 15</li> <li>LPD: 2018</li> <li>Est. topline results: 2018</li> </ul>



# MEDI1873 (GITR agonist)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02583165	Adult subjects with select advanced solid tumours	N = 42	<b>Dose-escalation phase</b> • MEDI1873 IV US study centres	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Determination of MTD</li> <li>• Secondary endpoints include PK/PD, preliminary antitumour activity, pharmacokinetics, Pharmacodynamics, and immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: H2 16</li> <li>• Est. topline results: 2019</li> </ul>



# MEDI9197 (TLR7/8 agonist)

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02556463	Advanced solid tumour malignancies readily accessible for injection	N = 45	<b>Dose-escalation phase</b> • MEDI9197 IT  US study centres- Ex US under evaluation	<ul style="list-style-type: none"> <li>• Safety</li> <li>• Determination of MTD</li> <li>• Secondary endpoints include:               <ul style="list-style-type: none"> <li>– Objective response, disease control and duration of response .</li> <li>– Intratumoural and systemic PK and PD profiles/relationships</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q4 15</li> <li>• LPD: 2017</li> <li>• Est. topline results: 2018</li> </ul>



# MEDI4276 (HER2 ADC mAb)

## Advanced malignancies

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02576548	Advanced HER2+ metastatic breast and gastric cancer	Dose escalation N = 21-36  Dose expansion N = 80	<ul style="list-style-type: none"> <li>First –time-in-human Phase 1, multicenter, open–label, single-arm, dose-escalation, and dose expansion study for adult subjects</li> </ul>	<ul style="list-style-type: none"> <li>Primary: Safety</li> <li>Secondary endpoints include antitumour activity, overall response, disease control, PFS, OS and change from baseline tumour size</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: 2017</li> <li>Est. topline results: 2017</li> </ul>



# MEDI-551 (CD19 mAb)

## Haematological malignancies

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase II NCT01453205	Adults with relapsed or refractory B-cell diffuse large B-cell Lymphoma (DLBCL)	N = 170	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI-551 dose level 1 and ICE/DHAP</li> <li>• <b>Arm 2:</b> MEDI-551 dose level 2 and ICE/DHAP</li> <li>• <b>Arm 2:</b> Rituxan + ICE/DHAP</li> </ul> Open-label study	<ul style="list-style-type: none"> <li>• ORR, including Complete Response (CR) or Partial Response (PR)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 12</li> <li>• LPD: H1 16</li> <li>• Est. topline results: 2018</li> </ul>
Phase I NCT01957579	Adults with relapsed or refractory B-cell malignancies	N = 18	<ul style="list-style-type: none"> <li>• Dose-escalation study IV</li> </ul> Conducted in Japan	<ul style="list-style-type: none"> <li>• MTD and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 11</li> <li>• LPD: Q3 15</li> <li>• Topline results: Q3 15 (completed)</li> </ul>



# Other biologics

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
Anti-IGF ligand mAb (MEDI-573)	Phase I/II NCT01446159	Patients with HR+ HER2-, 1L, metastatic breast cancer taking aromatase inhibitors	N = 176	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI-573 IV and Aromatase Inhibitor</li> <li>• <b>Arm 2:</b> Aromatase Inhibitor alone</li> </ul> Open label study	<ul style="list-style-type: none"> <li>• Progression Free Survival</li> <li>• Retrospective evaluation of predictive biomarker +ve subgroups</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 12</li> <li>• LPD: Q2 13</li> <li>• Est. topline results: 2017</li> </ul>
Anti-Ang2 mAb (MEDI3617)	Phase I NCT01248949	Solid tumours and ovarian cancer	N = 25	• MEDI3617 Dose Escalation	• Safety and tolerability	<ul style="list-style-type: none"> <li>• FPD: Q4 10</li> <li>• LPD: Q2 15</li> <li>• Topline results: Q3 15 (completed)</li> </ul>
			N = 16	• MEDI3617 + bevacizumab dose escalation, administered Q3W, IV (US only)		
			N = 13	• MEDI3617 + paclitaxel dose escalation, IV (US only)		
			N = 7	• MEDI3617 + carboplatin + paclitaxel dose escalation, IV (US only)		
			N = 27	• MEDI3617 + bevacizumab dose escalation, administered Q2W, IV (US only)		
			N = 17	• MEDI3617 single-agent expansion in ovarian cancer patients, IV (US only)		
			N = 15	<ul style="list-style-type: none"> <li>• MEDI3617 + bevacizumab dose expansion in recurrent malignant glioma</li> <li>• US-only study centres</li> </ul>		



# Other biologics

## Solid tumours

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
Anti-CEA BiTE mAb (MEDI-565)	Phase I	Adults with gastrointestinal (GI) adenocarcinoma with no available standard or curative treatments.	N = 51 max	• Dose-escalation (3+3), IV	• MTD and safety profile	• FPD: Q1 11 • LPD Q3 14 • Topline results: Q1 15 completed
	NCT01284231 Partnered	Refractory pancreatic, colorectal and gastro-esophageal cancers	N = 60 max, 20 in each cohort	• Dose expansion study, IV		
Anti-DLL4 mAb (MEDI0639)	Phase I	Adults with advanced solid tumours including SCLC	N = up to 28	• Dose-escalation study (3+3); IV	• MTD and safety profile	• FPD: Q2 12 • LPD: Q2 15 • Est. topline results: H2 16



# Other biologics

## Infections

Lifecycle management  
Late-stage development  
Early development - IMED  
Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
Anti-Staph AT (MEDI4893)	Phase II EudraCT 2014-001097-34	Intubated ICU	N = 462	<ul style="list-style-type: none"> <li>Placebo-controlled, single-dose, dose-ranging</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy and Safety</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: 2017</li> <li>Est. topline results: 2018</li> </ul>
RSV sF+GLA-SE (MEDI7510)	Phase IIb NCT02508194	Adults ≥ 60 yrs	N = 1900	<ul style="list-style-type: none"> <li>Randomized, Double-blind Study</li> <li>Route of administration: intramuscular</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Est topline results: H2 16</li> </ul>
	Phase Ib NCT02289820		N = 264	<ul style="list-style-type: none"> <li>Double blind, randomized, placebo and active controlled cohort escalation study</li> <li>Route of administration: intramuscular</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Humoral and cell-mediated immune responses</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q1 15</li> <li>Topline results: Q2 15</li> </ul>
	Phase Ia NCT02115815		N = 144	<ul style="list-style-type: none"> <li>Double blind, randomized, placebo and active controlled cohort escalation study</li> <li>Route of administration: intramuscular</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Humoral and cell-mediated immune responses</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q2 14</li> <li>Topline results: Q4 14</li> </ul>
Anti-RSV mAb-YTE (MEDI8897)	Phase Ib/IIa NCT02290340	32-35 WK GA infants	N = 89	<ul style="list-style-type: none"> <li>Randomized, Double-blind, Placebo-controlled, Dose-escalation Study</li> <li>Route of administration: IM</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate Safety, Tolerability, PK and ADA</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q3 15</li> <li>Topline results: Q4 15</li> </ul>
	Phase Ia NCT02114268	Healthy adults	N = 136	<ul style="list-style-type: none"> <li>Randomized, Double-blind, Placebo-controlled, Dose-escalation Study</li> <li>Route of administration: IV and IM</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate Safety, Tolerability, PK and ADA</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: Q2 14</li> <li>Topline results: Q4 14</li> </ul>
Anti-influenza A mAb (MEDI8852)	Phase Ib/IIa NCT02603952	Adults	N = 160	<ul style="list-style-type: none"> <li>Randomized, Partial Double-blind, Single Dose, Active-controlled, Dose Ranging Study</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate Safety in Adults with Acute, Uncomplicated Influenza</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 15</li> <li>LPD: H1 16</li> <li>Est. topline results: H1 16</li> </ul>
	Phase I NCT02350751	Healthy adults	N = 40	<ul style="list-style-type: none"> <li>Double-blind, Single-dose, Placebo-controlled, Dose-escalation Study</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate the Safety and Pharmacokinetics</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q1 15</li> <li>Topline results: Q2 15</li> </ul>
Anti-Pseudomonas a. mAb (MEDI3902)	Phase I NCT02255760	Healthy adults	N = 56	<ul style="list-style-type: none"> <li>Randomized, Double-blind, Placebo-Controlled, Dose-Escalation Study</li> <li>Route of administration: intravenous</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate the Safety, Tolerability, and Pharmacokinetics</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: Q1 15</li> <li>Topline results: Q2 15</li> </ul>



# Vaccine biologics

## Influenza vaccines

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Compound	Study phase	Patient population	Number of patients	Design	Endpoints	Status
MEDI3250 <i>FluMist</i>	Phase III NCT02269488	Children 2 to 6 years of age	N = 100	<ul style="list-style-type: none"> <li>Open-label</li> <li>Route of administration: intranasal</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: Q1 15</li> <li>Topline results: Q1 15 (completed)</li> </ul>
MEDI3250 <i>FluMist Quadrivalent</i>	Phase III NCT02269475	Children 7 through 18 years of age	N = 1,008	<ul style="list-style-type: none"> <li>Randomize, double-blind placebo-controlled</li> <li>Route of administration: intranasal</li> </ul>	<ul style="list-style-type: none"> <li>Efficacy assessed by incidence of laboratory-confirmed influenza-like illness in the two treatment arms</li> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LPD: Q4 14</li> <li>Topline results: Q2 15 (completed)</li> </ul>



# MEDI1814 (amyloid beta mAb)

## Alzheimer's disease

Lifecycle management  
 Late-stage development  
 Early development - IMED  
 Early development - MedImmune

Study phase	Patient population	Number of patients	Design	Endpoints	Status
Phase I NCT02036645	Alzheimer's disease & healthy elderly	N = 121	<ul style="list-style-type: none"> <li>SAD &amp; MAD</li> <li>Up to 10 iv cohorts are planned vs placebo</li> <li>2 SC cohorts are planned vs placebo</li> </ul> US only	<ul style="list-style-type: none"> <li>Safety, tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 14</li> <li>LPD: H2 16</li> <li>Est. topline results: H2 16</li> </ul>



# Clinical Trials Appendix

## Q4 2015 Update

AstraZeneca   
What science can do

