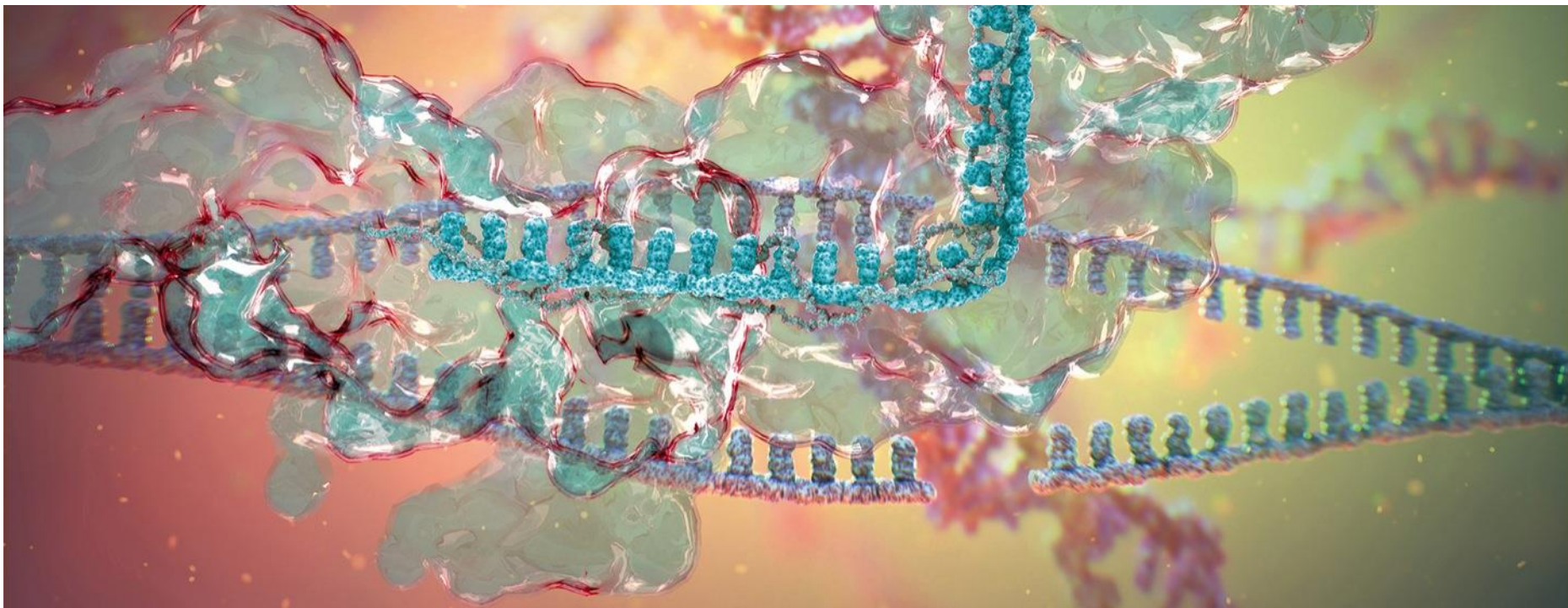


# Clinical Trials Appendix

## Q3 2015 Update



The following information about AstraZeneca clinical studies in Phases I-IV has been created with selected information from [clinicaltrials.gov](https://clinicaltrials.gov) to facilitate understanding of key aspects of our clinical programmes and is correct to the best of our knowledge as of 30 September 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](https://clinicaltrials.gov) are updated on a continuous basis as projects progress. For the most up to date information on our clinical programmes please visit [clinicaltrials.gov](https://clinicaltrials.gov).



# List of abbreviations

<b>AEs</b>	Adverse Events
<b>ASA</b>	Acetylsalicylic Acid
<b>BiD</b>	Twice Daily
<b>CE</b>	Clinically Evaluable
<b>cMITT</b>	Clinical Modified Intent-To-Treat population
<b>DLT</b>	Dose Limiting Toxicity
<b>FEV</b>	Forced Expiratory Volume
<b>FPD</b>	First Patient Dosed
<b>HIF-PHI</b>	Hypoxia-inducible factor prolyl hydroxylase inhibitor
<b>ICS</b>	Inhaled Corticosteroid
<b>IM</b>	Intra-muscular
<b>IR</b>	Immediate Release
<b>IV</b>	Intra-venous
<b>LABA</b>	Long Acting Beta Agonist
<b>LAMA</b>	Long Acting Muscarinic Agonist

<b>LCM</b>	Lifecycle Management
<b>LPD</b>	Last Patient Dosed
<b>MAD</b>	Multiple Ascending Dose Study
<b>MDI</b>	Metered Dose Inhaler
<b>MITT</b>	Modified Intent-To-Treat population
<b>mMITT</b>	Microbiological Modified Intent-To-Treat population
<b>MTD</b>	Maximum Tolerated Dose
<b>MTX</b>	Methotrexate
<b>NME</b>	New Molecular Entity
<b>OLE</b>	Open Long Term Extension
<b>ORR</b>	Objective Response Rate
<b>OS</b>	Overall Survival
<b>PARP</b>	Poly ADP ribose polymerase
<b>PFS</b>	Progression Free Survival
<b>Q2W</b>	Every Other Week

<b>Q3W</b>	Every Three Weeks
<b>Q4W</b>	Every Four Weeks
<b>Q8W</b>	Every Eight Weeks
<b>QD</b>	Once Daily
<b>SAD</b>	Single Ascending Dose Study
<b>SC</b>	Sub-cutaneous
<b>TiD</b>	Three Times a Day
<b>TOC</b>	Test of Cure
<b>XR</b>	Extended Release



# Movement since Q2 2015 update

New to Phase I	New to Phase II	New to Pivotal Study	New to Registration
<p><b>NMEs</b>  <b>AZD9977</b>  MCR diabetic kidney disease  <b>MEDI9447</b>  CD73 solid tumours</p>	<p><b>NMEs</b>  <b>AZD5069+durvalumab<sup>#</sup></b>  CXCR2+PD-L1 SCCHN  <b>AZD9150<sup>#</sup>+durvalumab<sup>#</sup></b>  STAT3+PD-L1 SCCHN  <b>AZD7594</b>  inhaled SGRM asthma/COPD  <b>MEDI7510</b>  RSV sF+GLA SE RSV in elderly</p> <p>} Count as single project</p>	<p><b>Additional indications</b>  <b>AZD9291<sup>#</sup>+durvalumab CAURAL<sup>1</sup></b>  EGFR+PD-L1 2L+ NSCLC  <b>durvalumab<sup>#</sup>+tremelimumab MYSTIC</b>  PD-L1+CTLA-4 1L NSCLC</p>	<p><b>NMEs</b>  <b>PT003</b>  COPD</p>
Removed from Phase I	Removed from Phase II	Removed from Phase III	Removed from Registration
<p><b>NMEs</b>  <b>MEDI-551<sup>#</sup>+MEDI0680</b>  DLBCL  <b>MEDI6469<sup>#</sup></b>  mOX40 solid tumours  <b>MEDI6469<sup>#</sup>+tremelimumab</b>  mOX40+CTLA-4 solid tumours  <b>durvalumab<sup>#</sup>+MEDI6469<sup>#</sup></b>  PD-L1+mOX40 solid tumours  <b>MEDI6469<sup>#</sup>+rituximab</b>  mOX40+CD20 solid tumours</p>	<p><b>NMEs</b>  <b>AZD5213</b>  NHE3 Tourette's/neuropathic pain  <b>sifalimumab<sup>#</sup></b>  IFN<math>\alpha</math> SLE</p> <p><b>Additional indications</b>  <b>MEDI-551<sup>#</sup></b>  CD19 CLL  <b>moxetumomab pasudotox<sup>#</sup></b>  CD22 pALL</p>	<p><b>Additional indications</b>  <b>brodalumab</b>  IL-17R psoriatic arthritis<sup>#</sup></p>	<p><b>NME</b>  <b>Caprelsa<sup>†</sup></b>  medullary thyroid cancer</p> <p><b>Line Extensions</b>  <b>Bydureon DCP</b>  Type 2 diabetes<sup>2</sup>  <b>Caprelsa<sup>†</sup></b>  differentiated thyroid cancer  <b>Entocort</b>  Crohn's/ulcerative colitis<sup>†</sup></p>

<sup>#</sup> Partnered

<sup>†</sup> Divested

4 <sup>1</sup> CAURAL recruitment on temporary hold; <sup>2</sup> Now launched in all major regions;



# Q3 New Molecular Entity (NME)<sup>1</sup> Pipeline

RIA CVMD Oncology Infection, Neuroscience, Gastrointestinal

## Phase I

30 New Molecular Entities

Small molecule	Large molecule
AZD1419# TLR9 asthma	MEDI4920 CD40L-Tn3 pSS
AZD7986 DPP1 COPD	MEDI5872# BTRN1 SLE
AZD8999 MABA asthma/COPD	MEDI7638 IL-13 asthma
AZD8977 MCR diabetic kidney disease	MEDI0382 GLP-1/gliucagon diabetes/obesity
AZD3759 or AZD9291 BLOOM EGFR NSCLC brain mets	MEDI0612 LCAT ACS
AZD5312# androgen receptor prostate	MEDI8111 Rh-FactorII Trauma/bleeding
AZD6738 ATR solid tumours	MEDI0562# hOX40 solid tumours
AZD8186 PI3K $\beta$ solid tumours	MEDI0639# DLL4 solid tumours
AZD8835 PI3K $\alpha$ solid tumours	MEDI0680 PD-1 solid tumours
AZD9156# STAT3 haems & solids	MEDI9517# ANG-2 solid tumours
AZD9496 SERD ER+ breast	MEDI666# CEA/BITE GI tumours
ATM AVI# BL/BLI SBI	MEDI6383# Ox40 FP solid tumours
AZD8108 NMDA suicidal ideation	MEDI9447 CD73 solid tumours
	MEDI1814 amyloid $\beta$ Alzheimers
	MEDI3902 Psi/PrV pseudomonas
	MEDI-550 pandemic influenza virus vaccine
	MEDI8852 influenza A treatment

## Phase II

25 New Molecular Entities

Small molecule	Large molecule
AZD7594 Inhaled SGRM asthma	AZD9412# Inhaled BIFN asthma/COPD
abediterol (AZD0548) LABA asthma/COPD	mavrilimumab# GM-CSFR rheumatoid arthritis
AZD7624 Inhaled p38 inhibitor COPD	MEDI2079# IL-23 Crohns
RDEA3170 URAT-1 hyperuricemia/gout	MEDI-551# CD19 neuromyelitis optica
AZD4901# PCOS	abrilumab# o487 Crohns/ulcerative colitis
AZD1775# Wee-1 ovarian	MEDI9929# TSLP asthma/atopic dermatitis
AZD2014 mTOR 1/2 solid tumours	MEDI-551# CD19 DLBCL
AZD4547 FGFR solid tumours	MEDI-573# IGF metastatic breast cancer
AZD5363# AKT breast cancer	susatoxumab (MEDI4893) staph alpha toxin SSI
bayoflitinib# MET pRCC	MEDI7540 sF+GLA-SE RSV prevention
AZD3241 MPO Multiple System Atrophy	MEDI897# RSV passive prophylaxis
AZD3283# BACE Alzheimer's	
AZD5847 oxazolindione TB	
CXL# BLI/cephalosporin MRSA	

## Phase III

10 New Molecular Entities

Small molecule	Large molecule
PT010 LABALAMA/ICS COPD	anifrolumab# TULIP IFN $\alpha$ R SLE
roxadustat# HIFPH anaemia CKD/ESRD	benralizumab# IL-5R severe asthma
selumetinib# SELECT-1 MEK 2L KRAS+ NSCLC	brodalumab# IL-17R psoriasis
	tralokinumab IL-13 severe asthma
	durvalumab# ATLANTIC† PD-L1 3L NSCLC
	moxetumomab# CD22 HCL
	tremelimumab DETERMINE† CTLA-4 mesothelioma

## Applications Under Review

5 New Molecular Entities

Small molecule	Large molecule
PT003 PINNACLE LABALAMA COPD	lesinurad URAT-1 gout
AZD9291 AURA, AURA 2 EGFR T790M NSCLC+2L	cediranib ICON 6 VEGF PSR ovarian
CAZ AVI# BLI/cephalosporin SBI/cIA/cUTI	

<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; † Registrational Phase II/III study



# Q3 Lifecycle Management (LCM)<sup>1</sup> Pipeline

RIA CVMD Oncology Infection, Neuroscience, Gastrointestinal

## Phase I

1 Project

Small molecule Large molecule

durvalumab#  
PD-L1 solid tumours

## Phase II

7 Projects

Small molecule Large molecule

PT010  
LABA/LAMA/ICS asthma

tralokinumab  
IL-13 IFF

Epanova#Favixiga/Foxiga  
NASH

tralokinumab  
IL-13 atopic dermatitis

Lynparza  
PARP prostate cancer

durvalumab#  
PD-L1 solid tumours

selumetinib#  
MEK 2L KRAS wt NSCLC

## Phase III

27 Projects

Small molecule Large molecule Large molecule

Symbicort BAI  
asthma/COPD

AZD9291 FLAURA  
EGFR 1L adv. EGFRin NSCLC

benralizumab#  
IL-5R COPD

Symbicort SYGMA  
as needed in mild asthma

Faslodex FALCON  
estrogen receptor 1L adv. breast

brodalumab#  
IL-17R psoriatic arthritis

Brinto/Brintique EUCLID  
PAD outcomes

Lynparza GOLD  
PARP 2L gastric cancer

durvalumab# PACIFIC  
PD-L1 Stage3 NSCLC

Brinto/Brintique HESTIA  
paeds w/ sickle cell

Lynparza OlympiAD  
PARP gBRCA metastatic breast

durvalumab# HAWK#  
PD-L1 2L SCCHN

Brinto/Brintique SOCRATES  
stroke outcomes

Lynparza POLO  
PARP pancreatic cancer

Brinto/Brintique THEMIS  
diabetes & CAD outcomes

Lynparza SOLO-1  
PARP 1L BRCAm ovarian

Bydureon w/ly suspension  
Type 2 diabetes

Lynparza SOLO-2  
PARP >2L BRCAm PSR ovarian

Bydureon EXSCEL  
outcomes

Lynparza SOLO-3  
PARP BRCAm PSR ovarian

Epanova STRENGTH  
outcomes

Lynparza OlympiA  
PARP gBRCA adjuvant TNBC

Favixiga/Foxiga  
Type 1 diabetes

selumetinib# A STRA  
MEK 2L diff. thyroid

Favixiga/Foxiga DECLARE  
outcomes

linaclotide# (CN only)  
IBS-c

Nexium (CN only)  
stress ulcer prophylaxis

## Applications Under Review

2 Projects

Small molecule Large molecule

saxa+dapa FDC  
diabetes

Large molecule

CAZ Aviv#  
BLiucephalosporin HAPVAP

## Oncology Combinations

### Phase I

8 Projects

AZD9291 combo# TATTON  
EGFR+PD-L1/MEK/MT NSCLC

durvalumab# sequencing  
PD-L1 after EGFR/MEK/GTLA-4 NSCLC

durvalumab#+dabrafenib+trametinib Y  
PD-L1+BRAF+MEK melanoma

durvalumab#+hessa  
PD-L1+EGFR NSCLC

durvalumab#+MEDI0680  
PD-L1+PD-1 solid tumours

durvalumab#+MEDI3393#  
PD-L1+Ox40 agonist solid tumours

durvalumab#+tremelimumab  
PD-L1+CTLA-4 solid tumours

MEDI-551#rituximab  
CD19+CD20 haems

### Phase II

2 Projects

AZD5069+durva# or AZD9150#+durva#  
(CXCR2 or STAT3)+PD-L1 SCCHN

durvalumab#+tremelimumab  
PD-L1+CTLA-4 gastric cancer

### Phase III

4 Projects

AZD9291+durva# CAURAL  
EGFR T790M NSCLC>2L

durvalumab#+tremelimumab ARCTIC  
PD-L1+CTLA-4 3L NSCLC

durvalumab#+tremelimumab CONDOR#  
PD-L1+CTLA-4 2L SCCHN

durvalumab#+tremelimumab MYSTIC  
PD-L1+CTLA-4 1L NSCLC

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

# Partnered; † Registrational Phase II/III study; ‡ MedImmune-sponsored study in collaboration with Novartis

Note: durvalumab+tremelimumab KESTREL 1L SCCHN study dosed first patient October 2015



# 2015-2017: 14-16 NME & LCM submissions

LCM submission opportunities					durvalumab + tremelimumab 3L NSCLC
					durvalumab stage III NSCLC
					AZD9291 (EGFR T790) 1L NSCLC
				durvalumab + tremelimumab 2L SCCHN	Lynparza pancreatic cancer
			Faslodex 1L metastatic breast cancer	durvalumab 2L SCCHN	Lynparza 1L BRCAm ovarian cancer
	Brilinta prior MI ✓	saxa/dapa FDC type 2 diabetes ✓	Brilinta stroke	Lynparza BRCAm metastatic breast cancer	Forxiga type 1 diabetes (EU)
		Bydureon autoinjector	lesinurad FDC gout	Lynparza BRCAm PSR ovarian cancer (SOLO-2)	Brilinta peripheral arterial disease
NME submission opportunities	CAZ AVI (CEPH/BLI) serious infections ✓	cediranib (VEGFR) ovarian cancer (EU) ✓			
	brodalumab (IL-17R) psoriasis	selumetinib (MEK) uveal melanoma ✗	roxadustat (HIF) CKD / ESRD (China)	tremelimumab (CTLA-4) mesothelioma	selumetinib (MEK) 2L KRASm NSCLC
	PT003 (LAMA/LABA) COPD ✓	AZD9291 (EGFR T790) 2L NSCLC ✓	benralizumab (IL-5R) severe asthma	durvalumab (PD-L1) 3L NSCLC	AZD6094 MET (cMET) papillary renal cell carcinoma
	2015		2016		2017



# Immuno-oncology

## Major trials I

Tumour type	Line of therapy	Treme (CTLA-4 mAb)	Combo durva + treme	Durva (PD-L1 mAb)
Mesothelioma	Second line	<b>DETERMINE</b> Phase II		
NSCLC	Adjuvant			<b>ADJUVANT</b> Phase III
	Stage III un-resectable			<b>PACIFIC</b> Phase III
	First line  EGFRm+		<b>MYSTIC</b> Phase III (PFS) <b>NEPTUNE</b> Phase III (OS)	<b>MYSTIC</b> Phase III (PFS) <b>+ CTx</b> Phase III <b>+ Iressa</b> Phase III
	Second line T790M			<b>CAURAL</b> <b>+ AZD9291</b> Phase III
	Third line  PD-L1+	<b>ARCTIC</b> Phase III	<b>ARCTIC</b> Phase III	<b>ARCTIC</b> Phase III <b>ATLANTIC</b> Ph II/single arm





# Immuno-oncology

## Major trials II

Tumour type	Line of therapy	Treme (CTLA-4 mAb)	Combo durva + treme	Durva (PD-L1 mAb)	Combo durva + OX40	OX40	CD73	Combo durva + CD73	TLR7/8
SCCHN	Second line PD-L1- PD-L1+	CONDOR Phase II	EAGLE Phase III CONDOR Phase II	EAGLE Phase III CONDOR HAWK Phase II					
Gastric	Second/third line	NAME TBD Phase II	NAME TBD Phase II	NAME TBD Phase II					
Pancreas	Second line		ALPS Phase II						
Bladder	First line		DANUBE Phase III	DANUBE Phase III					
Melanoma	-			+ BRAFi, MEKi Phase I/II					
Other advanced cancer	-			+ MEDI0680 (PD-1) Phase I	MEDI6383 (fusion protein) Phase I	MEDI0562 (mAb) MEDI6383 (fusion protein) Phase I	MEDI9447 Phase 1	MEDI9447 Phase 1	MEDI9197 Phase 1



## Lifecycle management (new uses of existing medicines)



# Symbicort (ICS/LABA)

## Mild asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients in need of GINA step 2 treatment	Phase III SYGMA1  NCT02149199	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> <p>Global study – 19 countries</p>	<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>
Patients in need of GINA step 2 treatment	Phase III SYGMA2  NCT02224157	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> <p>Global study – 25 countries</p>	<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)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with COPD	Phase IV NCT02375724 Partnered: Menarini	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 acclidinium 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>LSD: Q3 15</li> <li>Estimated completion date: H1 16</li> </ul>
Patients with moderate to very severe COPD	Phase IV ASCENT NCT01966107 Partnered: Forest/Actavis	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 acclidinium 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>LSD: H2 16</li> <li>Estimated completion date: 2018</li> </ul>
Patients with stable moderate and severe COPD	Phase IV NCT02153489 Partnered: Almirall	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>LSD: Q1 15</li> <li>Estimated completion date: Q3 15</li> </ul>



# Duaklir (LAMA/LABA)

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

## Chronic Obstructive Pulmonary Disease (COPD)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with moderate to COPD	Phase IV ACTIVATE  NCT02424344  CO-FUNDED: Menarini	N = 268	<ul style="list-style-type: none"><li>• <b>Arm 1:</b> Acclidinium/formoterol FDC 400/12 µg</li><li>• <b>Arm 2:</b> Placebo to acclidinium/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>• LSD: Q4 15</li><li>• Estimated completion date: H2 16</li></ul>



# Brilinta/Brilique (ADP receptor antagonist)

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

## Cardiovascular

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with prior MI	Phase III PEGASUS  NCT01225562	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>
Patients with PAD	Phase III EUCLID  NCT01732822	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>
Patients with stroke or TIA	Phase III SOCRATES  NCT01994720	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>
Patients with type 2 diabetes and coronary artery disease without a previous history of MI or stroke	Phase III THEMIS  NCT01991795	N = 19,000	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Ticagrelor 90 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 – approx. 40 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>
Japanese healthy volunteers	Phase III (BE)  NCT02436577	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: Q4 15</li> </ul>
Caucasian healthy volunteers	Phase III (BE)  NCT02400333	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: Q4 15</li> </ul>



# Epanova (omega-3 carboxylic acids)

## Hypertriglyceridaemia

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 DiM Liver fat >5.5%	Phase II EFFECT II  NCT02279407	N = 80	<ul style="list-style-type: none"> <li>Arm 1: Epanova 4g QD</li> <li>Arm 2: Placebo (olive oil)</li> <li>Arm 3: Epanova 4gm + dapagliflozin 10 mg QD</li> <li>Arm 4: dapagliflozin 10 mg</li> </ul> <p>Local study – 1 country</p>	<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>Est. topline results: Q4 15</li> </ul>
Pancreatic Exocrine Insufficiency (PEI) in patients with type 2 diabetes	Phase I PRECISE  NCT02370537	N = 66	<ul style="list-style-type: none"> <li>Arm 1: Epanova® 4g single dose</li> <li>Arm 2: Omacor® 4 g single dose</li> </ul> <p>Global study – 6 countries in Europe</p>	<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>
Healthy volunteers	Phase I Microsphere bioavailability  NCT02359045	N = 40 Part A N = 42 Part B	<ul style="list-style-type: none"> <li>Arm 1: D1400147 4g</li> <li>Arm 2: D14000136 4g</li> <li>Arm 3: D14000137 4g</li> <li>Arm 4: Epanova 4g</li> </ul> <p>Local study – 1 country</p>	<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>Est. topline results: Q4 15</li> </ul>
Healthy male volunteers	Phase I Japanese food interaction  NCT02372344	N = 42	<ul style="list-style-type: none"> <li>Epanova 4 g X 3 separate occasions (fasting, before meal, and after meal)</li> </ul> <p>Local study – 1 country</p>	<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>Est. topline results: Q4 15</li> </ul>
Japanese patients with hypertriglyceridemia	Phase III Japanese Long-term Safety  NCT02463071	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> <p>Global study – 1 country</p>	<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>
Overweight patients with hypertriglyceridemia	Phase II EFFECT I  NCT02354976	N = 75	<ul style="list-style-type: none"> <li>Epanova 4 g vs. Placebo vs. Fenofibrate 200 mg daily for 12 weeks</li> </ul> <p>Global study – 1 country</p>	<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>



# Epanova (omega-3 carboxylic acids)

## Hypertriglyceridaemia

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Severe hyper-triglyceridaemia	Phase III EVOLVE II  NCT02009865	N = 162	<ul style="list-style-type: none"> <li>Arm 1: Epanova 2g QD</li> <li>Arm 2: Placebo (olive oil)</li> </ul> <p>Global study – 7 countries</p>	<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>Topline results: Q2 15</li> </ul>
Patients with hypertriglyceridaemia and high CVD risk	Phase III STRENGTH (CVOT)  NCT02104817	N = 13,000	<ul style="list-style-type: none"> <li>Arm 1: Epanova 4g QD + statin</li> <li>Arm 2: Placebo (corn oil) + statin</li> </ul> <p>Global study – 22 countries</p>	<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>
Healthy male Japanese and Caucasian subjects	Phase I SAD/MAD  NCT02209766	N = 18	<ul style="list-style-type: none"> <li>Arm 1: (Japanese): Epanova 2g vs. Placebo QD</li> <li>Arm 2: (Japanese): Epanova 4g vs Placebo QD</li> <li>Arm 3: (Caucasian): Epanova 4g vs Placebo</li> </ul> <p>Local study – 1 country</p>	<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>Topline results: Q2 15</li> </ul>
Patients with a history of pancreatitis	Phase I  NCT02189252	N = 16	<ul style="list-style-type: none"> <li>Arm 1: Epanova 4g →Lovaza 4g QD</li> <li>Arm 2: Lovaza 4g →Epanova 4 g QD</li> <li>Arm 3: Epanova 2g →Lovaza 4g QD</li> <li>Arm 4: Lovaza 4g →Epanova 2g QD</li> </ul> <p>Global study – 2 countries</p>	<ul style="list-style-type: none"> <li>Plasma concentration vs. time curve (AUC0-t)</li> <li>[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>Est. topline results: Q4 15</li> </ul>





# Onglyza (DPP-4 inhibitor)

## Type 2 Diabetes

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 diabetes mellitus	Phase III NCT02104804	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 2QD</b> + insulin + Met</li> </ul> <p>Study in China</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>Change from baseline in HbA1C at 24 weeks</li> </ul> <p>Secondary:</p> <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: H2 16</li> </ul>
Type 2 diabetes mellitus	Phase III NCT02273050	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> <p>Study in China</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>The change in HbA1c from baseline to week 24 (prior to rescue)</li> </ul> <p>Secondary</p> <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: H1 16</li> <li>Est. topline results: 2017</li> </ul>



# Farxiga/Forxiga (SGLT-2 inhibitor)

## Diabetes

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 diabetes mellitus with high risk for CV event	Phase III/IV DECLARE  NCT01730534	N = 17276	<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>
Japanese patients with type 2 diabetes with inadequate glycemic control on insulin	Phase IV  NCT02157298	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>• Est. topline results: (Short Term part of study) Q3 15</li> <li>• Est. completion date: H1 16</li> </ul>
Asian subjects with type 2 diabetes who have inadequate glycemic control on insulin	Phase III  NCT02096705  Partnered: BMS	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: H2 16</li> </ul>
Patients with Type 2 diabetes and moderate renal impairment	Phase III DERIVE  NCT02413398	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>



# Farxiga/Forxiga (SGLT-2 inhibitor)

## Diabetes

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 1 diabetes mellitus	Phase III DEPICT 1 NCT02268214  Partnered: BMS	N = 768	<ul style="list-style-type: none"> <li>Arm 1: Forxiga 5 mg QD 52 weeks + insulin</li> <li>Arm 2: Forxiga 10 mg QD 52 weeks + insulin</li> <li>Arm 3: 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>
Type 1 diabetes mellitus	Phase III DEPICT 2 NCT02460978  Partnered: BMS	N = 768	<ul style="list-style-type: none"> <li>Arm 1: Forxiga 5 mg QD 52 weeks + insulin</li> <li>Arm 2: Forxiga 10 mg QD 52 weeks + insulin</li> <li>Arm 3: 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: 2017</li> </ul>



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

## Diabetes

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 diabetes mellitus	Phase III NCT01619059	N = 280	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Saxa 5mg + Dapa 10 mg + Met IR</li> <li><b>Arm 2:</b> Placebo + Dapa 10 mg + Met IR</li> </ul> Global study – 9 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 from baseline in 2h MTT at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>Completed : Q2 15</li> </ul>
Type 2 diabetes mellitus	Phase III NCT01646320	N = 280	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Dapa 10 mg + Saxa 5 mg + Met IR</li> <li><b>Arm 2:</b> Placebo + Saxa 5 mg + Met IR</li> </ul> Global study – 8 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 from baseline in FPG at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q4 12</li> <li>Completed : Q2 15</li> </ul>
Type 2 diabetes mellitus	Phase III NCT02284893	N = 420	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Saxa 5 mg + Dapa 10 mg + Met IR/XR</li> <li><b>Arm 2:</b> Sitagliptin 100 mg + Met IR/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>
Type 2 diabetes mellitus	Phase III NCT02419612	N = 440	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Saxa 5 mg + Dapa 10 mg + Met IR/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>

\*studies performed by BMS



# Bydureon (GLP-1 receptor agonist)

## Type 2 Diabetes

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 diabetes	Phase III DURATION-NEO 1  NCT01652716  Partnered	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> <p>On a background of diet &amp; exercise alone or with stable regimen of oral antidiabetes US only</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: Q1 13</li><li>• Completed: Q3 14</li></ul>
Type 2 diabetes	Phase III DURATION-NEO 2  NCT01652729  Partnered	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> <p>On a background of diet &amp; exercise alone or with stable regimen of oral antidiabetes US only</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: Q1 13</li><li>• Completed : Q3 14</li></ul>



# Bydureon (GLP-1 receptor agonist)

## Type 2 Diabetes

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Type 2 diabetes	Phase IV EXSCEL  NCT01144338  Partnered	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> <p>On a background of standard of care medication, different degree of CV risk</p> <p>Global study</p>	<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>
Type 2 diabetes	Phase III DURATION 7  NCT02229383	N = 440	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> <i>Bydureon</i> once weekly 2 mg SC + Titrated Basal Insulin</li> <li>• <b>Arm 2:</b> Placebo + Titrated Basal Insulin</li> </ul> <p>Double-blind 1:1 randomization Background therapy with or without Metformin</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: H2 16</li> <li>• Est. completion: H2 16</li> </ul>
Type 2 diabetes	Phase III DURATION 8  NCT02229396	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 randomization 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
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)	Phase III FALCON  NCT01602380	N ~450	<ul style="list-style-type: none"> <li>Arm 1: Faslodex 500 mg monthly IM + an additional dose on d14 (+ oral placebo)</li> <li>Arm 2: 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
PSR BRCAm ovarian cancer	Phase III SOLO-2  NCT01874353	N = 264	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 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>
1L maintenance BRCAm ovarian cancer	Phase III SOLO-1  NCT01844986	N = 344	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 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: H2 16</li> </ul>
PSR gBRCAm ovarian cancer 3+ Line	Phase III SOLO-3  NCT02282020	N = 411	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Lynparza 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>
2L gastric cancer (all patients with a co-primary sub population)	Phase III GOLD  NCT01924533	N = 525	<ul style="list-style-type: none"> <li><b>Arm 1:</b> paclitaxel + Lynparza until progression</li> <li><b>Arm 2:</b> paclitaxel + placebo</li> </ul> Lynparza 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
BRCAm metastatic breast cancer	Phase III OlympiAD  NCT02000622	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> <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: Q2 14</li> <li>LPD: Q4 15</li> <li>Est. topline results: H1 16</li> </ul>
BRCAm adjuvant breast cancer	Phase III OlympiA  NCT02032823	N = 1,320	<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> <p>Global study partnership with BIG and NCI/NRG</p>	<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>
Pancreas gBRCA	Phase III POLO  NCT02184195	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> <p>Global study</p>	<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>
Metastatic castration resistant prostate CA	Phase II  NCT01972217	N = 170	<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> <p>Global study</p>	<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>



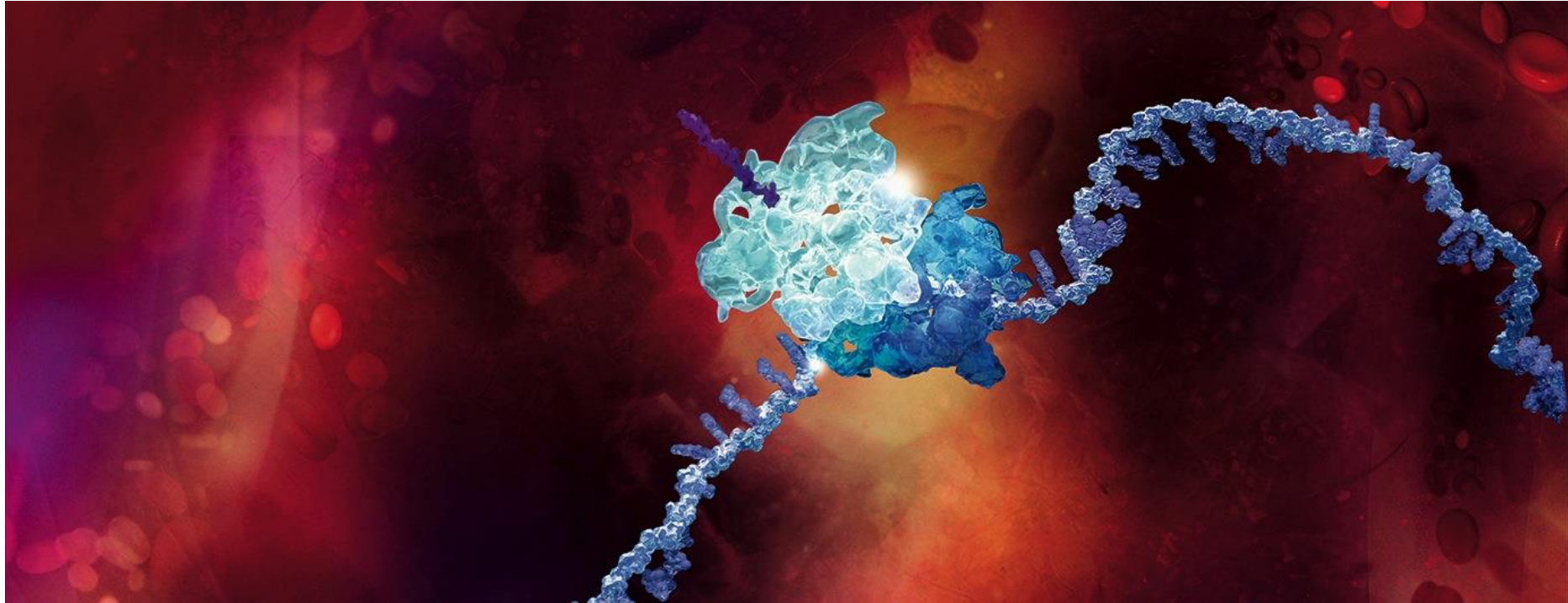
# Nexium, Linaclotide

## Gastrointestinal

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
<i>Nexium</i>	Seriously ill patients with at least one major risk factor for stress ulcer related bleeding (Stress Ulcer Prophylaxis, SUP)	Phase III NCT02157376	N = 300	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Nexium</i> 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: H2 16</li> </ul>
<i>Linaclotide</i>	IBS-C	Phase III NCT01880424	N = 800	<ul style="list-style-type: none"> <li><b>Arm 1:</b> <i>Linaclotide</i> 290µg QD</li> <li><b>Arm 2:</b> placebo</li> </ul> <p>Participating countries China, Australia, New Zealand, USA and Canada</p>	<ul style="list-style-type: none"> <li>12-week abdominal pain/abdominal discomfort response</li> <li>12-week IBS degree of relief response</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 13</li> <li>LPD: Q2 15</li> <li>Completion: Q3 15</li> </ul>



## Late-stage development



# Lesinurad (SURI, URAT1 inhibitor)

## Gout

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Gout previously enrolled in Phase II RDEA594-203 study	Phase II RDEA594-203 Open-label Extension  NCT01001338	N = 87	• lesinurad 200, 400, or 600 mg QD All patients: SOC allopurinol QD	• Assess the long-term efficacy and safety of lesinurad in combination with allopurinol	• FPD: Q1 11 • Study ongoing
Gout previously enrolled in studies CLEAR 1 & 2	Phase III CLEAR Extension  NCT01808131	N = 717	• lesinurad 200 or 400 mg QD All patients: SOC allopurinol QD	• Assess the long-term efficacy and safety of lesinurad in combination with allopurinol	• FPD: Q1 13 • Study ongoing
Gout previously enrolled in CRYSTAL study	Phase III CRYSTAL Extension  NCT01808144	N = 196	• lesinurad 200 or 400 mg QD All patients: febuxostat 80 mg QD	• Assess the long-term efficacy and safety of lesinurad in combination with febuxostat	• FPD: Q1 13 • Study ongoing



# Brodalumab (IL-17R mAb)

## Psoriasis & psoriatic arthritis

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Moderate to severe plaque psoriasis	Phase III AMAGINE-1  NCT01708590	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
Moderate to severe plaque psoriasis	Phase III AMAGINE-2  NCT01708603	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
Moderate to severe plaque psoriasis	Phase III AMAGINE-3  NCT01708629	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: 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
Adult subjects with psoriatic arthritis	Phase III AMVISION-1  NCT02029495	N = 630	<ul style="list-style-type: none"> <li>Arm 1: 210mg brodalumab SC</li> <li>Arm 2: 140 mg brodalumab SC</li> <li>Arm 3: placebo SC</li> </ul>	Primary: <ul style="list-style-type: none"> <li>ACR20 response at wk 16</li> </ul> Secondary: <ul style="list-style-type: none"> <li>Radiographic assessment of joints</li> <li>PASI 75, HAQ-DI and PSI</li> </ul>	Partnered
Adult subjects with psoriatic arthritis	Phase III AMVISION-2  NCT02024646	N = 495	<ul style="list-style-type: none"> <li>Arm 1: 210mg 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>ACR20 response at wk 16</li> </ul>	Partnered
Moderate to severe psoriatic arthritis	Phase II  NCT01516957	N = 156	<ul style="list-style-type: none"> <li>Arm 1: 280 mg brodalumab SC</li> <li>Arm 2: 210 mg brodalumab SC</li> <li>Arm 3: 140 mg brodalumab SC</li> <li>Arm 4: placebo SC</li> </ul>	<ul style="list-style-type: none"> <li>ACR20 response at wk 12</li> </ul>	Partnered



# PT003 (LABA/LAMA)

## COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Moderate to severe COPD	Phase IIIb (Dose Indicator Study)  NCT02268396	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	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	<ul style="list-style-type: none"> <li>FPD: Q4 14</li> <li>LSI: Q4 14</li> <li>Topline results: Q1 15*</li> </ul> * Clinically completed
Moderate to severe COPD	Phase III (Spacer Study)  NCT02454959	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>, AUC<sub>0-12</sub>, AUC<sub>0-t</sub>, 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>LSI: Q3 15</li> <li>Est. topline results: Q3 15</li> </ul>
Moderate to very severe COPD	Phase III (Asia Pacific study)  NCT02343458	N = 1,614	Treatments (24-week Treatment Period) <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> <ul style="list-style-type: none"> <li>US/China: Trough FEV<sub>1</sub> at Week 24 of treatment</li> <li>EU/Hybrid: Co-primary= Trough FEV<sub>1</sub> over Week 24 of treatment and TDI score over 24 weeks</li> </ul> Randomized, Double-Blind, Chronic-Dosing , Placebo-Controlled, Parallel-Group and Multi-centre  Estimated time from FSFV to DBL is approximately 20 months. US, UK, Germany, Costa Rica, Hungary, Poland, Russia, South Korea, Taiwan, China, Japan	<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 FEV<sub>1</sub> 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 FEV<sub>1</sub> 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 FEV<sub>1</sub> 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>LSI: H1 16</li> <li>Est. topline results: 2017</li> </ul>



# PT003 (LABA/LAMA)

## COPD

Patient population	Study phase	Number of patients	Design (G = Glycopyrronium, F = Formoterol fumarate)	Endpoints	Status
Moderate to severe COPD	Phase IIIb (24 Hr Lung Function Placebo)  NCT02347085	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	FEV1 AUC0-24 on Day 29	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LSI: Q1 15</li> <li>Est. topline results: Q3 15</li> </ul> * Clinically completed
Moderate to severe COPD	Phase IIIb (24 Hr Lung Function Active)  NCT02347072	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	FEV1 AUC0-24 on Day 29	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LSI: Q2 15</li> <li>Est. topline results: Q3 15</li> </ul> * Clinically completed



# PT009 (ICS/LABA)

## COPD & Asthma

Patient population	Study phase	Number of patients	Design (G = Glycopyrronium, F = Formoterol fumarate)	Endpoints	Status
Moderate to severe COPD	Phase II (BFF Dose-ranging)  NCT02196077	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: Q2 14</li> <li>LSI: Q3 14</li> <li>Topline results: Q2 15*</li> </ul> *Clinically completed





# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adult mild to moderate persistent asthma	Phase II (BD Dose-ranging in Asthma)  NCT02105012	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 (FEV<sub>1</sub>)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q2 14</li> <li>• LSI: Q4 14*</li> <li>• Topline results: Q3 15</li> </ul> * Clinically completed
Healthy volunteers	Phase I (BGF PK study)  NCT02189304	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>• LSI: Q3 14</li> <li>• Topline results: Q4 14*</li> </ul> * Clinically completed
Moderate to very severe COPD	Phase III (Exacerbation study) ETHOS  NCT02465567	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 MDL 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>• LSI: 2017</li> <li>• Est. topline results: 2018</li> </ul>



# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Intermittent asthma/mild to moderate persistent asthma	Phase II NCT02433834	N = 200	<p>Treatment (18-week Treatment Period)</p> <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> <p>Randomized, double-blind, chronic-dosing, placebo controlled, incomplete block, cross over, multi-centre, dose-ranging study</p> <p>Estimated time from FSFV to DBL is approximately 11 months. US</p>	Peak change from baseline in FEV1 within 3 hours post-dosing on Day 15	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LSI: Q4 15</li> <li>Topline results: H1 16</li> </ul>
Moderate to very severe COPD	Phase III (Lung function study) KRONOS NCT02497001	N = 1,800	<p>Treatments ( 24-week Treatment Period)</p> <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> <p>Randomized, double-blind, parallel-group, and chronic dosing and multi-centre</p> <p>Estimated time from FSFV to DBL is approximately 2 years. Multi-country</p>	<p>Co-Primary Endpoints (EU):</p> <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> <p>Primary Endpoint (Japan):</p> <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> <p>Primary Endpoint (US):</p> <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>LSI: 2017</li> <li>Est. topline results: 2017</li> </ul>



# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Moderate to very severe COPD	Phase III (Long-term BMD and Ocular Safety)  NCT02536508	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>LSI: 2017</li> <li>Est. topline results: 2017</li> </ul>
Japanese healthy volunteers	Phase I (BGF PK in Japanese Subjects)  NCT02197975	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>LSI: Q3 14</li> <li>Topline results: Q4 14*</li> </ul> * Clinically completed



# PT010 (LABA/LAMA/ICS)

## COPD & Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Japanese healthy volunteers	Phase I (GFF PK in Japanese Subjects )  NCT02196714	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>• LSI: Q3 14</li> <li>• Topline results: Q4 14*</li> </ul> * Clinically completed



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

## Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 12 – 75yrs	Phase III CALIMA  NCT01914757	N = 1026 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: H1 16</li> </ul>
Severe asthma, inadequately controlled despite background controller medication HD ICS + LABA $\pm$ chronic OCS Age 12 – 75 yrs	Phase III SIROCCO  NCT01928771	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: H1 16</li> </ul>
Severe asthma, inadequately controlled on high dose inhaled corticosteroid plus long-acting $\beta$ 2 agonist and chronic oral corticosteroid therapy Age 18 – 75 yrs	Phase III ZONDA  NCT02075255	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 – 7 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: H1 16</li> </ul>



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

## Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Asthmatic with FEV1 (50-90% predicted) on low to medium dose inhaled corticosteroid Age 18 – 75 yrs	Phase III BISE  NCT02322775	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	<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>
Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 12 – 75yrs	Phase III BORA  NCT02258542	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: 2017</li> </ul>
Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 18 – 75yrs	Phase III GREGALE  NCT02417961	N = 120	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> 30 mg Q4w SC</li> </ul> 28-week (adults) Global study	<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: H1 16</li> </ul>



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

## COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Moderate to very severe Chronic Obstructive Pulmonary Disease (COPD) with exacerbation history	Phase III TERRANOVA  NCT02155660	N = 2,168	<ul style="list-style-type: none"><li>• Arm 1: 10 mg Q8w SC</li><li>• Arm 2: 30 mg Q4w SC</li><li>• Arm 3: 100 mg Q8w SC</li><li>• Arm 4: Placebo SC</li></ul> 48-week study Global study – 15 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: 2017</li></ul>
Moderate to very severe Chronic Obstructive Pulmonary Disease (COPD) with exacerbation history	Phase III GALATHEA  NCT02138916	N = 1,626	<ul style="list-style-type: none"><li>• Arm 1: 30 mg Q4w SC</li><li>• Arm 2: 100 mg Q8w SC</li><li>• Arm 3: Placebo SC</li></ul> 48-week study Global study – 21 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: 2017</li></ul>



# Tralokinumab (IL-13 mAb)

## Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adults with uncontrolled severe asthma	Phase III STRATOS 1  NCT02161757	N = 1,140	<p><u>Cohort 1:</u></p> <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab dose regimen 1, SC</li> <li>• <b>Arm 2:</b> Placebo SC</li> </ul> <p><u>Cohort 2:</u></p> <ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab dose regimen 2, SC</li> <li>• <b>Arm 2:</b> Placebo SC</li> </ul> <p>2:1 randomisation in both cohorts</p> <p>Global study – 15 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>• Asthma exacerbation rate reduction</li> </ul> <p>Key Secondary:</p> <ul style="list-style-type: none"> <li>• 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)</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 14</li> <li>• LPD: H1 16</li> <li>• Est. topline results: 2017</li> </ul>
Adults with uncontrolled severe asthma	Phase III STRATOS 2  NCT02194699	N = 770	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab SC</li> <li>• <b>Arm 2:</b> Placebo SC</li> </ul> <p>1:1 randomisation</p> <p>Global study – 13 countries including Japan</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>• Asthma exacerbation rate reduction</li> </ul> <p>Key Secondary:</p> <ul style="list-style-type: none"> <li>• 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)</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>
Adults with oral corticosteroid dependent asthma	Phase III TROPOS  NCT02281357	N = 120	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab SC</li> <li>• <b>Arm 2:</b> Placebo SC</li> </ul> <p>1:1 randomisation</p> <p>Global studies - 6 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>• % Change in OCS dose</li> </ul> <p>Key Secondary:</p> <ul style="list-style-type: none"> <li>• Proportion of subjects achieving final daily OCS dose ≤5 mg</li> <li>• Proportion of subjects achieving ≥50% reduction in OCS dose</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>
Adults with uncontrolled asthma	Phase II MESOS  NCT02449473	N = 80	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab SC</li> <li>• <b>Arm 2:</b> Placebo SC</li> </ul> <p>1:1 randomisation</p> <p>3 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>• Change in number of airway submucosal eosinophils</li> </ul> <p>Secondary:</p> <ul style="list-style-type: none"> <li>• Change in blood eosinophils levels</li> <li>• Change in eosinophil cationic protein as a measure of activated eosinophils in blood and sputum</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q3 15</li> <li>• LPD: 2017</li> <li>• Est. topline results: 2018</li> </ul>





# Tralokinumab (IL-13 mAb)

## Idiopathic Pulmonary Fibrosis (IPF)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adults with Idiopathic Pulmonary Fibrosis	Phase II NCT01629667	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>• Est. topline results: H1 16</li> </ul>
Japanese adults with Idiopathic Pulmonary Fibrosis	Phase II NCT02036580	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 800mgIV</li> <li>• <b>Arm 2:</b> Placebo IV</li> </ul> <p>8:2 randomisation in both cohorts 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>• Est. topline results: Q4 15</li> </ul>

\* As per protocol amendment, primary endpoint is modified from Change from baseline in percent-predicted forced vital capacity at Week 72 to Week 52 in April 2015



# Tralokinumab (IL-13 mAb)

## Atopic dermatitis

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adults with atopic dermatitis	Phase II NCT02347176	N = 204	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Tralokinumab dose 45mg SC</li> <li>• <b>Arm 2:</b> Tralokinumab dose 150mg SC</li> <li>• <b>Arm 3:</b> Tralokinumab dose 300mg SC</li> <li>• <b>Arm 4:</b> Placebo SC</li> </ul> <p>Global study – 6 countries</p>	<ul style="list-style-type: none"> <li>• Change from baseline in SCORAD at week 12</li> </ul> <p>Key Secondary Endpoints:</p> <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. topline results: H1 16</li> </ul>



# Anifrolumab (type I IFN receptor mAb)

## Systemic Lupus Erythematosus (SLE)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Moderate to severe Systemic Lupus Erythematosus (SLE) Tulip SLE 1	Phase III NCT02446912	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>Est. topline results: 2018</li> </ul>
Moderate to severe Systemic Lupus Erythematosus (SLE) Tulip SLE 2	Phase III NCT02446899	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>Est. topline results: 2018</li> </ul>
Moderate to severe SLE patients	Phase II NCT01438489	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>
Moderate to severe SLE patients	Phase II NCT01753193	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>
Japanese SLE patients	Phase II NCT01559090	N = 17	<p>Open-label, dose escalation study:</p> <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>



# Roxadustat (HIF-PHI)

## Chronic Kidney Disease (CKD)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anaemia in Chronic Kidney Disease patients not receiving dialysis	Phase III ANDES NCT02446912	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>Est. topline results: 2018</li> </ul>
Anaemia in Chronic Kidney Disease patients not receiving dialysis	Phase III ANDES NCT01750190	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> <li>Sponsored by FibroGen</li> </ul>
	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> <li>Sponsored by Astellas</li> </ul>
	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> <li>Sponsored by Astellas</li> </ul>
	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> <li>Sponsored by AstraZeneca</li> </ul>
Anaemia in CKD in patients receiving dialysis	Phase III ROCKIES NCT02174731	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> <li>Sponsored by AstraZeneca</li> </ul>
	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> <li>Sponsored by FibroGen</li> </ul>
	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> <li>Sponsored by Astellas</li> </ul>
Anaemia in newly initiated dialysis patients	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> <li>Sponsored by FibroGen</li> </ul>



# AZD9291 (Highly selective, irreversible EGFR TKI)

## Non-small cell lung cancer (NSCLC)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	Phase III AURA3  NCT02151981	N = 410	<ul style="list-style-type: none"> <li>Arm 1: AZD9291 80mg QD</li> <li>Arm 2: pemetrexed 500mg/m2 + carboplatin AUC5 or pemetrexed 500mg/m2 + cisplatin 75mg/m2 (2:1 randomization)</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>
Advanced EGFRm NSCLC 1L	Phase III FLAURA  NCT02296125	N = 650	<ul style="list-style-type: none"> <li>Arm 1: AZD9291 80mg</li> <li>Arm 2: 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>
Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	Phase II AURA2  NCT02094261	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>
Advanced EGFRm NSCLC TKI failure +/- primary resistance mutation T790M	Phase I/II AURA  NCT01802632	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>
Advanced EGFRm NSCLC TKI failure	Phase Ib TATTON  NCT02143466	N ~ 90	<ul style="list-style-type: none"> <li>Arm 1: AZD9291 + MEDI4736</li> <li>Arm 2: AZD9291 + AZD6094</li> <li>Arm 3: 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>
Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	Phase III CAURAL  NCT02454933	N = 350	<ul style="list-style-type: none"> <li>Arm 1: AZD9291 (80mg QD) + MEDI4736 1(0mg/kg q2w (IV) infusion)</li> <li>Arm 2: 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>
Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	Phase II AURA17  NCT02442349	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>



# AZD9291 (Highly selective, irreversible EGFR TKI)

## Non-small cell lung cancer (NSCLC)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adjuvant EGFRm NSCLC,	Phase III ADAURA  NCT02511106	N = 700	<ul style="list-style-type: none"> <li>Arm 1: AZD9291 80mg QD following complete tumour resection, with or without chemotherapy</li> <li>Arm 2: 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 expected: Q4 15</li> <li>Est. completion: 2022</li> </ul>
EGFRm NSCLC, CNS disease	Phase I BLOOM  NCT02228369	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> Study conducted in South Korea and Taiwan	<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>



# Tremelimumab (CTLA-4 mAb)

## Mesothelioma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with unresectable pleural or peritoneal malignant mesothelioma	Phase II DETERMINE NCT01843374	N = 564	<ul style="list-style-type: none"> <li>Arm 1: Tremelimumab IV</li> <li>Arm 2: Placebo</li> </ul>	<ul style="list-style-type: none"> <li>Overall survival (OS)</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 13</li> <li>LPD: Q4 14</li> <li>First data: H2 15</li> <li>Est. completion date: H1 16</li> </ul>
Patients with unresectable pleural or peritoneal malignant mesothelioma 2L or 3L treatment	Phase II DETERMINE NCT01843374	N = 564	<ul style="list-style-type: none"> <li>Arm 1: Tremelimumab IV</li> <li>Arm 2: 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>Est. completion date: H1 16</li> </ul>



# Durvalumab (MEDI4736; PD-L1 mAb)

## Non-small cell lung cancer (NSCLC)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adjuvant NSCLC patients IB (≥4cm) – IIIA resected NSCLC (incl. EGFR/ALK pos)	Phase III ADJUVANT  NCT02273375  Partnered with NCIC CTG	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>mRFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: 2018</li> <li>Est. completion: 2020</li> </ul>
Unresectable Stage III NSCLC patients following platinum-based concurrent chemo-radiation therapy	Phase III PACIFIC  NCT02125461	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>
Stage IIIB-IV NSCLC patients PD-L1+ve patients 3L	Phase II ATLANTIC  NCT02087423	N = 188	<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: H2 15</li> <li>Est. completion: 2016</li> </ul>
Stage IV squamous NSCLC patients  Biomarker-targeted 2L therapy	Phase II/III Lung Master Protocol  NCT02154490  Partnered with NCI, FNHI, and SWOG	N = 140 ; 100 Durvalumab treated (4736 substudy only);	Umbrella study with 5 arms based on biomarker expression <ul style="list-style-type: none"> <li>Arm 1: MEDI4736 (non-match for other biomarker driven substudies) IVQ2W single arm MEDI4736 PhII only</li> <li>Arm 2: PI3K Inhibitor vs. docetaxel</li> <li>Arm 3: CDK4/6 inhibitor vs. docetaxel</li> <li>Arm 4: AZD4547 (FGFR inhibitor) vs. docetaxel</li> <li>Arm 5: 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: Q3 14</li> <li>LPD: Q4 15 (Phase II)</li> <li>Est. completion: H1 16 (Phase II)</li> </ul>
Stage IIIB-IV NSCLC patients	Phase III Sequencing Study  NCT02179671	N = 72	<ul style="list-style-type: none"> <li>Arm 1: Iressa initially then switch to MEDI4736 IVQ2W</li> <li>Arm 2: AZD9291 then switch to MEDI4736</li> <li>Arm 3: Selumetinib + Docetaxel then switch to MEDI4736</li> <li>Arm 4: tremelimumab then switch to MEDI4736</li> </ul>	<ul style="list-style-type: none"> <li>Complete Response Rate</li> <li>ORR, Disease Control Rate</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q3 14</li> <li>LPD: Q2 15</li> <li>Est. completion: H2 16</li> </ul>





# Durvalumab (MEDI4736; PD-L1 mAb)

## SCCHN and other solid tumours

Patient population	Study phase	Number of patients	Design	Endpoints	Status
SCCHN 2L therapy	Phase II HAWK  NCT02207530	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: Q4 15</li> <li>Est. completion: H2 16</li> </ul>
Solid tumours	Phase I  NCT02301130  Partnered with KHK	N = 108	<ul style="list-style-type: none"> <li><b>Dose Escalation: N=36</b>, 3 cohorts receiving Treatment A (mogamulizumab+MEDI4736) and 3 cohorts receiving Treatment B (mogamulizumab+treme), in parallel</li> <li><b>Dose Expansion: N=72</b>, 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>
Solid tumours (all-comers)	Phase I  NCT01938612	N = 118	<ul style="list-style-type: none"> <li><b>Dose Escalation:</b> 3 cohorts at Q2W and 1 cohort at Q3W</li> <li><b>Dose Expansion:</b> 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Stage IIIB-IV 3L NSCLC patients who have not been tested positive for EGFR/AIK mutation	Phase III ARCTIC  NCT02352948	N = 900	<b>Substudy A</b> <ul style="list-style-type: none"> <li>Arm 1: MEDI4736 IV Q2W (PD-L1+ patients)</li> <li>Arm 2: Standard of Care</li> </ul> <b>Substudy B</b> <ul style="list-style-type: none"> <li>Arm 3: MEDI4736+tremelimumab (PD-L1 –ve patients)</li> <li>Arm 4: Standard of Care</li> <li>Arm 5: tremelimumab (PD-L1 –ve patients)</li> <li>Arm 6: 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>	Monotherapy arm <ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LPD: H1 16</li> <li>Est. completion: 2017 (PFS)</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)</li> </ul>
NSCLC 1L	Phase III MYSTIC  NCT02453282	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>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>
NSCLC 1L	Phase III NEPTUNE	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>
SCCHN 2L	Phase II CONDOR  NCT02319044	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>
SCCHN 1L	Phase III KESTREL  NCT02551159	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>



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

## Solid tumours

Patient population	Study phase	Number of patients	Design	Endpoints	Status
SCCHN 2L	Phase III EAGLE	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>
Patients with Metastatic Pancreatic Ductal Carcinoma	Phase II ALPS  NCT02558894	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>Est. completion: 2019</li> </ul>
Bladder	Phase III DANUBE  NCT02516241	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>
Urothelial Bladder Cancer Triple-negative Breast Cancer Pancreatic Ductal-Adenocarcinoma	Phase II  NCT02527434	N = 96	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736 + tremelimumab</li> <li>Arm 2: MEDI4736</li> <li>Arm 3: tremelimumab</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> <li>Objective Response rate</li> <li>Duration of Response</li> </ul>	<ul style="list-style-type: none"> <li>FPD: H1 16</li> <li>Est. completion: 2018</li> </ul>
Solid tumours (treme Phase I)	Phase I combination in advanced solid tumours in Japanese patients  NCT02141347	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>
Patients with with metastatic or recurrent gastric or gastroesophageal junction adenocarcinoma	Phase II  NCT02340975	N = 174	<ul style="list-style-type: none"> <li>Arm 1: MEDI4736 + tremelimumab</li> <li>Arm 2: MEDI4736</li> <li>Arm 3: tremelimumab</li> <li>Arm 4: MEDI4736 + tremelimumab</li> </ul>	<ul style="list-style-type: none"> <li>Objective response rate</li> <li>Progression free survival</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q2 15</li> <li>LSD: H2 16</li> <li>Est. completion: 2017</li> </ul>



# Cediranib (VEGF inhibitor)

## Ovarian cancer

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with platinum-sensitive relapsed ovarian cancer	Phase III NCT00532194	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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adults with relapsed or refractory hairy cell leukemia	Phase III NCT01829711	N = 77	<ul style="list-style-type: none"> <li>Multicentre, single-arm, open-label study</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>
Adults with relapsed refractory HCL	Phase I NCT00586924	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 : Q1 15</li> </ul>



# Selumetinib (AZD6244) (MEK-inhibitor)

## Solid tumours

Patient population	Study phase	Number of patients	Design	Endpoints	Status
2L KRASm positive NSCLC	Phase III SELECT-1  NCT01933932	N = 634	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m2 IV on day 1 of each 21 day cycle</li> <li><b>Arm 2:</b> Placebo BiD + docetaxel 75 mg/m2 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>
2L KRASm negative NSCLC	Phase II SELECT-2  NCT01750281	N = 265	<ul style="list-style-type: none"> <li><b>Arm 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m2 IV on day 1 of each 21 day cycle</li> <li><b>Arm 2:</b> Selumetinib 75mg BiD + docetaxel 60 mg/m2 IV on day 1 of each 21 day cycle</li> <li><b>Arm 3:</b> Placebo BiD + docetaxel 75 mg/m2 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>
Differentiated thyroid cancer	Phase III ASTRA  NCT01843062	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>
Pediatric NF1 <sup>1</sup>	Phase II  NCT01362803 (current Ph I) – partnered (NCI)	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>

<sup>1</sup> Clintrials.gov to be updated with Phase II study, currently showing reference to Phase I



# CAZ-AVI (BLI/cephalosporin SBI)

## Serious infections

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Hospitalised adults with complicated urinary tract infections	Phase III RECAPTURE-1  NCT01595438	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>
Hospitalised patients with complicated urinary tract infections	Phase III RECAPTURE-2  NCT01599806	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>
Patients with complicated urinary tract infections and complicated intra-abdominal infections	Phase III REPRISE  NCT01644643	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>
Hospitalised patients with complicated intra-abdominal infections	Phase III RECLAIM-3  NCT01726023	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>
Hospitalised patients with nosocomial pneumonia infections, including hospital acquired pneumonia (HAP) and ventilator associated pneumonia (VAP)	Phase III REPROVE  NCT01808092	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)

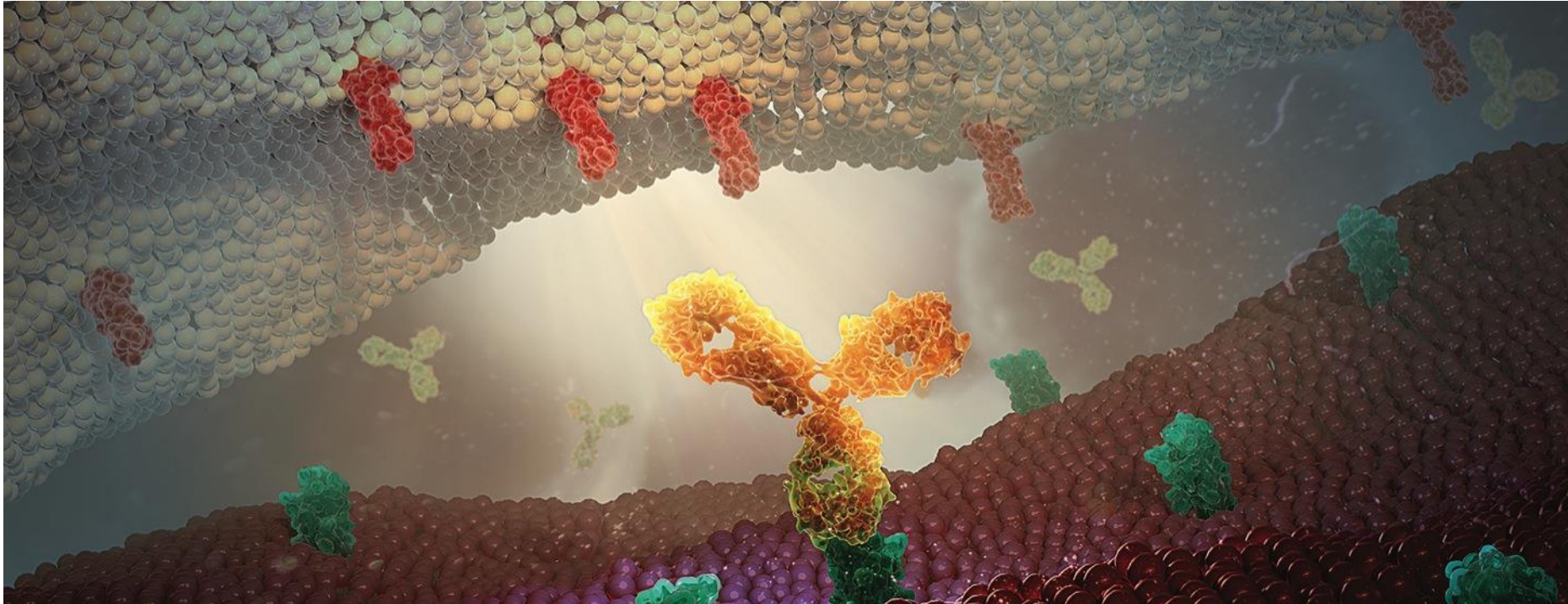
## Alzheimer's disease

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Alzheimer's disease patients	Phase II/III AMARANTH  NCT02245737	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>





## Early development - IMED



# AZD7594 (inhaled SGRM)

## Asthma/COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Patients with mild to moderate asthma	Phase II NCT02479412	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 12</li></ul>



# AZD7624 (p38 inhibitor)

## COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy subjects	Phase I NCT01754844	N = 48	<b>SAD</b> <ul style="list-style-type: none"> <li>Five different dose levels investigated vs placebo</li> <li>Inhaled (nebulised) administration</li> </ul> Study conducted in the UK	<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>FPD: Q1 13</li> <li>Completed</li> </ul>
Healthy subjects and COPD	Phase I NCT01817855	N = 47	<b>MAD</b> <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> Study conducted in the UK	<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>FPD: Q3 13</li> <li>Completed</li> </ul>
Healthy subjects	Phase Ib LPS NCT01937338	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 0.5 hours prior to lipopolysaccharide (LPS) challenge.</li> <li>Inhaled (nebulised) administration</li> </ul> Study conducted in the UK	<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>FPD: Q4 13</li> <li>Completed</li> </ul>
COPD	Phase IIa NCT02238483	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> Study conducted in US, EU, South Africa & South America	<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: Q4 15</li> <li>Est. topline results: H1 16</li> </ul>



# AZD7986 (DPP1 inhibitor)

## COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy subjects	Phase I  NCT02303574	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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
<b>Part 1: Mild Asthmatic</b>  <b>Part 2: Moderate to severe COPD</b>	<b>Phase I</b>  <b>NCT02059434</b>	N (Part 1) = 17  N (Part 2) = 38	<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  <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).  <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> Global Study – 1 country	<b>Part 1 Endpoints:</b> <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> <b>Part 2 Endpoints:</b> <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>	<b>Part 1</b> <ul style="list-style-type: none"> <li>FSD: Q4 13</li> <li>LSD: Q1 14</li> </ul> <b>Part 2</b> <ul style="list-style-type: none"> <li>FSD: Q2 14</li> <li>LSD: Q3 14</li> </ul> Estimated completion date: Q4 15



# AZD8871 (MABA2)

## Asthma/COPD

Patient population	Study phase	Number of patients	Design	Endpoints	Status
<b>Part 1: Mild Asthmatic</b>  <b>Part 2: Moderate to severe COPD</b>	<b>Phase I</b>  <b>CTs.gov Identifier:</b> <b>In progress</b>	N (Part 1) = 16  N (Part 2) = 40	<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  <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).  <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> Global Study – 1 country	<b>Part 1 Endpoints:</b> <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> <b>Part 2 Endpoints:</b> <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>	<b>Part 1</b> <ul style="list-style-type: none"> <li>FSD: Q4 15</li> <li>LSD: H1 16</li> </ul> <b>Part 2</b> <ul style="list-style-type: none"> <li>FSD: Q2 15</li> <li>LSD: H1 16</li> </ul> Estimated completion date: 2017



# RDEA3170 (SURI, URAT1 inhibitor)

## Gout and hyperuricemia development programme

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Monotherapy study in subjects with gout	Phase II NCT01927198	N = 160	<ul style="list-style-type: none"> <li><b>Arm A:</b> Placebo</li> <li><b>Arm B:</b> RDEA3170 5 mg QD</li> <li><b>Arm C:</b> RDEA3170 10 mg QD</li> <li><b>Arm D:</b> 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>
Monotherapy study in Japanese patients with gout or asymptomatic hyperuricemia	Phase II NCT02078219	N = 200	<ul style="list-style-type: none"> <li><b>Arm A:</b> Placebo</li> <li><b>Arm B:</b> RDEA3170 5 mg QD</li> <li><b>Arm C:</b> RDEA3170 10 mg QD</li> <li><b>Arm D:</b> RDEA3170 12.5 mg QD</li> <li><b>Arm E:</b> 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>
Combination therapy study with febuxostat in subjects with gout	Phase II NCT02246673	N = 60	<ul style="list-style-type: none"> <li><b>Arm A:</b> RDEA3170 2.5 mg QD</li> <li><b>Arm B:</b> RDEA3170 5.0 mg QD</li> <li><b>Arm C:</b> RDEA3170 10 mg QD</li> <li><b>Arm D:</b> RDEA3170 15 mg QD</li> <li><b>Arm E:</b> 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: Q4 15</li> </ul>
Combination study with febuxostat for treating gout or asymptomatic hyperuricemia in Japanese patients	Phase II NCT02317861	N = 92	<ul style="list-style-type: none"> <li><b>Arm A:</b> RDEA3170 2.5 mg QD + 10mg or 20mg QD febuxostat</li> <li><b>Arm B:</b> RDEA3170 5.0 mg QD + 10mg or 20mg QD febuxostat</li> <li><b>Arm C:</b> RDEA3170 5.0 mg QD + 20mg or 40mg QD febuxostat</li> <li><b>Arm D:</b> RDEA3170 10 mg QD + 20mg or 40mg QD febuxostat</li> <li><b>Arm E:</b> 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: Q4 15</li> </ul>



# RDEA3170 (SURI, URAT1 inhibitor)

## Gout and hyperuricemia

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Combination therapy study with allopurinol in subjects with gout	Phase II  NCT02498652	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> <p>*All arms include combination with 300 mg QD allopurinol. Placebo group also includes combination with 300 mg BID allopurinol or 600 mg QD allopurinol</p>	<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>





# AZD9977 (mineralocorticoid receptor modulator)

## Diabetic kidney disease

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy subjects	Phase I NCT02484729	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>Est. completion: H1 16</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> <p>Study conducted in the UK</p>	<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>Est. completion: H1 16</li> </ul>
Healthy subjects	Phase I NCT02532998	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> <p>Study conducted in the UK</p>	<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>Est. completion: H1 16</li> </ul>
Healthy subjects	Phase I NCT02560363	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> <p>Study conducted in the UK</p>	<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: Q1 16</li> <li>Est. completion: H1 16</li> </ul>
			<b>Part B: Cross over study with 2 treatment periods</b> <ul style="list-style-type: none"> <li>Oral administration</li> </ul> <p>Study conducted in the UK</p>	<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: Q1 16</li> <li>Est. completion: H1 16</li> </ul>



# AZD4901 (NK3 Receptor Antagonist)

## Phase II clinical development programme

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Polycystic ovary syndrome patients with amenorrhea or oligomenorrhea	Phase IIa NCT01872078	N = 56	<ul style="list-style-type: none"> <li>Arm 1: AZD4901 20 mg QD</li> <li>Arm 2: AZD4901 20 mg BiD</li> <li>Arm 3: AZD4901 40 mg BiD</li> <li>Arm 4: placebo</li> </ul> <p>28 day dosing period</p> <p>Study sites in US, UK, Germany</p>	<ul style="list-style-type: none"> <li>Change from baseline at day 7 in Luteinizing Hormone AUC(0-8)</li> </ul> <p>Secondary endpoints:</p> <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> </ul>



# AZD1775 (WEE-1)

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
p53 mutant advanced solid tumours	Phase III NCT02482311	N = 132	<ul style="list-style-type: none"> <li>• <b>Monotherapy</b></li> </ul> Conducted in US	<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>
p53 mutant advanced solid tumours	Phase I NCT02511795	N = 36	<ul style="list-style-type: none"> <li>• <b>Dose escalation study (AZD1775 + olaparib)</b></li> </ul> Conducted in US	<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>
p53 mutant advanced solid tumours	Phase I NCT01357161	N = 18	<ul style="list-style-type: none"> <li>• <b>Dose escalation study (AZD1775 + carboplatin + paclitaxel)</b></li> </ul> Conducted in Australia, Japan and Republic of Korea	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 15</li> <li>• LPD: H1 16</li> <li>• Est. completion: H2 16</li> </ul>
p53 mutant PSR ovarian cancer	Phase II NCT01357161 Partnered	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> Global study 9 countries	<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: Q3 14</li> <li>• Completed Q1 15</li> </ul>
p53 mutant PR ovarian cancer	Phase II NCT02272790	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> 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: Q1 15</li> <li>• LPD: H2 16</li> <li>• Est. completion: 2017</li> </ul>
Previously untreated Stage IV non-squamous NSCLC with TP53 mutations	Phase II NCT02087241	N = 22	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> carboplatin + pemetrexed + AZD1775 225 mg BiD</li> <li>• <b>Arm 2:</b> carboplatin + pemetrexed + placebo</li> </ul> Conducted in US	<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 14</li> <li>• LPD: Q2 15</li> <li>• Completed: Q2 15</li> </ul>
Previously treated NSCLC with TP53 mutations	Phase II NCT02087176	N = 48	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> docetaxel + AZD1775 225 mg BiD</li> <li>• <b>Arm 2:</b> docetaxel+ placebo</li> </ul> 20-25 patient run in for safety and efficacy Conducted in US	<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 14</li> <li>• LPD: Q2 15</li> <li>• Completed: Q2 15</li> </ul>



# Savolitinib (AZD6094) (MET)

## Papillary renal cell and other cancers

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



# AZD2014 (TORC 1/2)

## Breast and squamous NSCLC cancer

Patient population	Study phase	Number of patients	Design	Endpoints	Status
2nd line ER+ metastatic breast cancer	Phase II MANTA  NCT02216786  Partnered	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> <p>The study will be conducted in Europe</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: Q2 14</li> <li>• LPD: H1 16</li> <li>• Est. completion: 2017</li> </ul>
Relapsed or refractory squamous non-small cell lung cancer (at least one prior therapy)	Phase IIa STORK  NCT02403895	N = 40	<p>Open label</p> <p>Single arm – patient are divided in two groups          Group A - intensive PK          Group B – sparse PK</p> <p>Dose: intermittent AZD2014 50mg BID (3 days on + 4 days off) + weekly paclitaxel 80 mg/m<sup>2</sup></p> <p>Multicentre: EU and US study sites</p>	<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>
Japanese Patients with Advanced Solid Malignancies	Phase I  NCT02398747	N = 18	<p>Open label</p> <p>Monotherapy and combination with paclitaxel cohorts</p>	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
EGFRm+ NSCLC	Phase I NCT02228369	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 in South Korea and Taiwan	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Stage IIIB-IV NSCLC patients Biomarker-targeted 2L therapy	<b>Phase II/III Lung Master Protocol</b>  <b>NCT02154490</b>  Partnered with NCI and SWOG	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>
Female ER+ breast cancer patients whose disease has progressed following treatment with one prior endocrine therapy	<b>Phase II GLOW</b>  <b>NCT01202591</b>	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> <p>Patients with FGFR1 polysomy (30 patients) or FGFR1 amplification (60 patients)</p>	<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>
Advanced gastro-oesophageal cancer	<b>Phase II SHINE</b>  <b>NCT01457846</b>	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>
Advanced cancer who have failed standard therapy or for whom no standard therapy exists	<b>Phase I</b>  <b>NCT01213160</b>	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> <p>Conducted in Japan</p>	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced cancer who have failed standard therapy or for whom no standard therapy exists	Phase I NCT00979134	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>





# AZD9496 (SERD)

## Breast cancer

Patient population	Study phase	Number of patients	Design	Endpoints	Status
ER+ Breast Cancer	Phase I  NCT02248090	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 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced solid tumours with androgen receptor pathway as a potential factor	Phase I NCT02144051	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> </ul> <ul style="list-style-type: none"> <li><b>Arm 1:</b> Prostate cancer patients who have received a second generation antihormonal 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-hormonal 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 (prostate patients):</b> 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
ER+ breast cancer receiving 1 <sup>st</sup> treatment with paclitaxel in the advanced setting	Phase IIb NCT01625286	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> <p>Two strata: PIK3CA mutation positive vs Mutation not detected</p>	<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. study completion: 2018</li> </ul>
Breast and gynaecological cancers with PIK pathway mutation	Phase I NCT01226316	N = 20 per arm	<p>Monotherapy AZD5363 480mg BD 4 days on 3 days off</p> <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> <p>Possible expansion up to 120 patients per arm</p>	<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>
All-comers solid tumours	Phase I NCT01895946	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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Solid tumours	Phase I NCT02264678	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> <p>Study conducted in North America, Europe and South Korea</p>	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced CRPC/SqNSCLC/TNBC and patients with known PTEN-deficient tumours	Phase I NCT01884285	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> <p>Study conducted in Canada, US &amp; UK</p>	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Women with estrogen receptor positive HER-2 negative advanced breast cancer with and without PIK3CA mutations	Phase I NCT02260661	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)

## Haematological malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
SCCHN	Phase Ib/II NCT02499328	N = 147	<b>Dose Escalation advanced solid malignancies</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



Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
ATM-AVI (Aztreonam- Avibactam)	Healthy volunteers	Phase I  NCT01689207		<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: Q3 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy volunteers	Phase I NCT02248818	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: Q4 15</li> </ul>



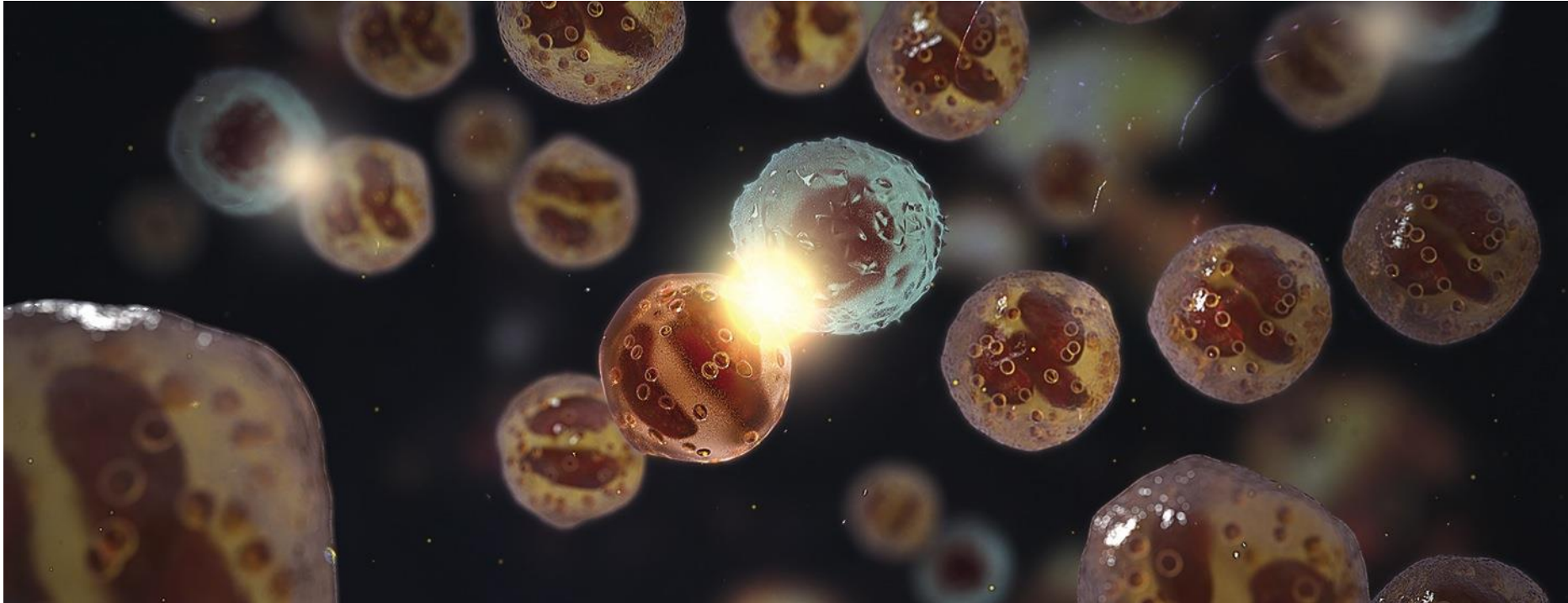
# AZD3241 (MPO)

## Multiple System Atrophy

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy subjects	Phase I NCT00729443	N = 46	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> SAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> 1 site in Sweden	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	<ul style="list-style-type: none"> <li>• Study completed</li> </ul>
Healthy subjects	Phase I NCT01457807	N = 18	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> MAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> 1 site in UK	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	<ul style="list-style-type: none"> <li>• Study completed</li> </ul>
Healthy subjects	Phase I NCT00914303	N = 59	<ul style="list-style-type: none"> <li>• <b>Active ArmS:</b> MAD</li> <li>• <b>Comparator Arm:</b> placebo</li> </ul> 1 site in Sweden	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> <li>• PK</li> </ul>	<ul style="list-style-type: none"> <li>• Study completed</li> </ul>
Parkinson's disease patients	Phase II NCT01527695	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> Placebo0</li> </ul> Randomization 3:1 active to placebo. 3 sites in Sweden and Finland	<ul style="list-style-type: none"> <li>• Microglia activation represented by [11C]PBR28 binding</li> </ul> Secondary endpoints: <ul style="list-style-type: none"> <li>• PD symptoms measured by UPDRS</li> <li>• Plasma MPO activity</li> </ul>	<ul style="list-style-type: none"> <li>• Study completed</li> <li>• Poster presented at Movement Disorders Society meeting June 2014</li> </ul>
Parkinson's disease patients	Phase II NCT01603069	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> Randomization 1:1:1 across arms 13 sites in US	<ul style="list-style-type: none"> <li>• AEs, labs, vital signs, ECGs</li> </ul> Secondary endpoints: <ul style="list-style-type: none"> <li>• PD symptoms measured by UPDRS</li> <li>• Plasma MPO activity</li> </ul>	<ul style="list-style-type: none"> <li>• Study completed</li> <li>• Poster presented at Movement Disorders Society meeting June 2014</li> </ul>
Multiple System Atrophy (MSA)	Phase II NCT02388295	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> Randomization 1:1:1 across arms 8 sites in US 9 sites in Europe	<ul style="list-style-type: none"> <li>• Microglia activation represented by [11C]PBR28 binding</li> <li>• AEs, labs, vital signs, ECGs</li> </ul> Secondary endpoints: <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>



## Early development - MedImmune



# MEDI7836 (IL-13 mAb)

## Asthma

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Healthy volunteers	Phase I NCT02388347	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: Q4 15</li></ul>



# MEDI9929 (TSLP mAb)

## Asthma

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adult subjects with inadequately controlled, severe asthma	Phase II PATHWAY  NCT02054130  Partnered	N = 552	<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>
Adult subjects with moderate-to-severe atopic dermatitis	Phase II  NCT02525094  Partnered	N = 100	<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)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
SLE and lupus related inflammatory arthritis	Phase I NCT01683695 Partnered	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>
Primary Sjögren's syndrome	Phase IIa NCT02334306 Partnered	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: 2017</li> </ul>



# Mavrilimumab (GMCSF mAb)

## Rheumatoid arthritis (RA)

Patient population	Study phase	Number of patients	Design	Endpoints	Status
RA patients who have failed 1 or 2 anti-TNF for efficacy, intolerance or safety, OR Inadequate response to DMARDs	Phase II EARTH Explorer 2  NCT01715896	N = 138	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Mavrilimumab SC</li> <li>• <b>Arm 2:</b> golimumab</li> </ul> <p>Global study (ex-US) on MTX background; 17 countries</p>	<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>
Eligible RA patients from Explorer 1 & 2	Phase II EARTH Explorer X  NCT01712399	N = 400	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> Mavrilimumab 100mg SC</li> </ul> <p>Open label extension of EARTH Explorer 1 &amp; 2</p> <p>Global study (ex-US) on MTX background; 23 countries</p>	<ul style="list-style-type: none"> <li>• Safety and exploratory efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FPD: Q1 13</li> <li>• OLE, Est. topline results: Q4 15</li> </ul>
Healthy Japanese subjects	Phase I  NCT02213315	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> <p>UK Study; Japanese subjects</p>	<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

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anti- $\alpha$ 4 $\beta$ 7 mAb Abrilumab (MEDI7183)	Moderate to severe ulcerative colitis	Phase II NCT01694485  Partnered	N = 359	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI7183 dose level 1, SC</li> <li>• <b>Arm 2:</b> MEDI7183 dose level 2, SC</li> <li>• <b>Arm 3:</b> MEDI7183 dose level 3, SC</li> <li>• <b>Arm 4:</b> MEDI7183 dose level 4, SC</li> <li>• <b>Arm 5:</b> Matching Placebo, SC</li> </ul> Global study - 19 countries	<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>
	Moderate to severe Crohn's disease	Phase II NCT01696396  Partnered	N = 252	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI7183 low dose, SC</li> <li>• <b>Arm 2:</b> MEDI7183 medium dose, SC</li> <li>• <b>Arm 3:</b> MEDI7183 high dose, SC</li> <li>• <b>Arm 4:</b> Matching Placebo, SC</li> </ul> Global study - 12 countries	<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>
	Japanese subjects with moderate to severe ulcerative colitis	Phase II NCT01959165  Partnered	N = 48	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI7183 low dose, 21mg SC</li> <li>• <b>Arm 2:</b> MEDI7183 medium dose, 70mg SC</li> <li>• <b>Arm 3:</b> MEDI7183 high dose, 210mg SC</li> <li>• <b>Arm 4:</b> 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	Patients with moderate to severe Crohn's disease	Phase II NCT01714726  Partnered	N = 121	<ul style="list-style-type: none"> <li>• <b>Arm 1:</b> MEDI2070, 700mg IV (210mg SC for OLE)</li> <li>• <b>Arm 2:</b> Placebo, IV</li> </ul> Global study - 9 countries	<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>





# Other biologics

## Autoimmunity

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anti-CD19 mAb (MEDI-551)	Adults with Neuromyelitis Optica and Neuromyelitis Optica Spectrum Disorders (NMO/NMOSD)	Phase II/III NCT02200770	N = 212 (est.)	<ul style="list-style-type: none"> <li>Arm 1: MEDI-551500mg IV</li> <li>Arm 2: placebo IV</li> <li>Open-label extension 300mg</li> </ul> <p>Global study 26 Countries</p>	<ul style="list-style-type: none"> <li>Primary: Time to attack</li> <li>Secondary: 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)	Healthy adults	Phase I NCT02151110	N = 56	<ul style="list-style-type: none"> <li>Arm 1: 3 mg MEDI4920 (n = 2) or placebo (n = 1) as a single IV dose</li> <li>Arm 2: 10 mg MEDI4920 (n = 2) or placebo (n = 1) as a single IV dose</li> <li>Arm 3: 30 mg MEDI4920 (n = 3) or placebo (n = 2) as a single IV dose</li> <li>Arm 4: 100 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>Arm 5: 300 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>Arm 6: 1000 mg MEDI4920 (n = 8) or placebo (n = 2) as a single IV dose</li> <li>Arm 7: 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: Q4 15</li> </ul>



# Other biologics

## Cardiovascular & metabolic disease

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
rhLCAT (MEDI6012)	Adults with stable coronary artery disease and low HDL	Phase I NCT01554800	N = 16	<ul style="list-style-type: none"> <li>SAD IV</li> </ul>	<ul style="list-style-type: none"> <li>Safety</li> <li>Changes in total HDL</li> <li>Change in Cholesteryl Ester</li> </ul>	<ul style="list-style-type: none"> <li>Completed by Alphacore</li> </ul>
rh-Factor II (MEDI8111)	Healthy male subjects	Phase I NCT01958645	N = 12	<ul style="list-style-type: none"> <li>SAD IV administration</li> <li>UK study site</li> </ul>	<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)	Healthy male subjects	Phase I NCT02394314	N = 64	<ul style="list-style-type: none"> <li>SAD SC administration</li> <li>Germany</li> </ul>	<ul style="list-style-type: none"> <li>Safety profile in terms of adverse events (AE), vital signs, ECG, telemetry, lab variables, nausea, immunogenicity and physical examination</li> </ul>	<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q4 15</li> <li>Est. topline results: Q3 15</li> </ul>



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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
<b>NSCLC</b> (Escalation phase)  <b>EGFR M+ NSCLC naïve to EGFR-TKI therapy</b> (Expansion phase)	<b>Phase I</b>  <b>NCT02088112</b>	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

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
PD-L1 (durvalumab, MEDI4736)	Solid tumours	Phase III  NCT01693562	N = 918	<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 MTD defined during dose escalation; one cohort at 20mg Q4W</li> </ul> <p>Global study – 8 countries</p>	<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 (MEDI4736)	Myelodysplastic syndrome	Phase I  NCT02117219	N = 41	<p>Dose-escalation and dose-expansion study</p> <ul style="list-style-type: none"> <li><b>Arm 1:</b> MEDI4736 IV</li> </ul> <p>Global study – 4 countries</p>	<ul style="list-style-type: none"> <li>Safety and tolerability</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 (40 pts)</li> <li>Est. topline results: 2017</li> </ul>



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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Metastatic or unresectable melanoma  BRAF mutation+ (Cohort A)  BRAF wild type (Cohorts B&C)	Phase III  NCT02027961	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: H1 16</li> </ul>



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

## Solid tumours

Patient population	Study phase	Number of patients	Design	Endpoints	Status
NSCLC (Immunotx naïve and Immunotx pretreated patient cohorts)	Phase Ib  NCT02000947	N = 388	<ul style="list-style-type: none"> <li><b>Dose Escalation:</b> minimum 5 cohorts exploring various treme 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> <p>North American study centres, exploration of ex-US countries for expansion into EU and ROW</p>	<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>
Solid tumours (Basket study)	Phase I  NCT02261220	N = 233	<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> <p>North American study centres</p>	<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: H1 16</li> <li>Est. topline results: 2017</li> </ul>
SCCHN	Phase I  NCT02262741	N = 68	<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> <p>North American study centres</p>	<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>
Gastric or GEJ adenocarcinoma	Phase Ib/II  NCT02340975	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> <p>US and ROW study centres</p>	<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: 2018</li> </ul>



# MEDI0562 (OX40 agonist)

## Advanced malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced malignancies	Phase I NCT02318394	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 agonist) + durvalumab (MEDI4736; PD-L1 mAb)

## Advanced malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced malignancies	Phase I NCT02221960	N = 212	<p><b>Dose-escalation phase</b></p> <ul style="list-style-type: none"> <li>MEDI6383 IV</li> <li>MEDI6383 IV + MEDI4736 IV</li> </ul> <p><b>Dose—expansion phase</b></p> <ul style="list-style-type: none"> <li>MEDI6383 IV recommended dose</li> <li>MEDI6383 IV + MEDI4736 IV recommended dose</li> </ul> <p>US-only study centres</p>	<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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced malignancies	Phase I NCT02118337	N = 150	<b>Dose-escalation phase</b> <ul style="list-style-type: none"><li>MEDI4736 IV + MEDI0680 IV</li></ul> <b>Dose-expansion phase at selected dose from dose-escalation phase</b> <ul style="list-style-type: none"><li>MEDI4736 IV + MEDI0680 IV recommended dose</li></ul>	<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: Q3 15</li><li>Est. topline results: 2017</li></ul>



# MEDI0562 (OX40 agonist)

## Advanced malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced malignancies	Phase I NCT02318394	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>



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

## Advanced malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced malignancies	Phase I NCT02503774	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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adult subjects with select advanced solid tumours	Phase I NCT02583165	N = 42	<b>Dose-escalation phase</b> <ul style="list-style-type: none"> <li>MEDI1873 i.V.</li> </ul> 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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Advanced solid tumour malignancies readily accessible for injection	Phase I NCT02556463	N = 45	<b>Dose-escalation phase</b> <ul style="list-style-type: none"> <li>MEDI9197 IT</li> </ul> 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>



# MEDI-551 (CD19 mAb)

## Haematological malignancies

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Adults with relapsed or refractory B-cell diffuse large B-cell lymphoma (DLBCL)	Phase II NCT01453205	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>
Adults with relapsed or refractory B-cell malignancies	Phase I NCT01957579	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>• Est. topline results: H2 16</li> </ul>



# Other biologics

## Solid tumours

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anti-IGF ligand mAb (MEDI-573)	Patients with HR+ HER2-, 1L, metastatic breast cancer taking aromatase inhibitors	Phase III NCT01446159	N = 176	<ul style="list-style-type: none"> <li>Arm 1: MEDI-573 IV and Aromatase Inhibitor</li> <li>Arm 2: 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: H2 16</li> </ul>
Anti-Ang2 mAb (MEDI3617)	Solid tumours and ovarian cancer	Phase I NCT01248949	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>Est. topline results: Q4 15</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

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anti-CEA BiTE mAb (MEDI-565)	Adults with gastrointestinal (GI) adenocarcinoma with no available standard or curative treatments.  Refractory pancreatic, colorectal and gastro-esophageal cancers	Phase I	N = 51 max	• Dose-escalation (3+3), IV	• MTD and safety profile	• FPD: Q1 11 • LPD: Q3 14 • Est. topline results: Q4 15
		NCT01284231  Partnered	N = 60 max, 20 in each cohort	• Dose expansion study, IV		
Anti-DLL4 mAb (MEDI0639)	Adults with advanced solid tumours including SCLC	Phase I	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

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
Anti-Staph AT (MEDI4893)	Intubated ICU	Phase II EudraCT 2014-001097-34	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: H2 16</li> <li>Est. topline results: 2017</li> </ul>
RSV sF+GLA-SE (MEDI7510)	Adults ≥ 60 yrs	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: Q3 14</li> </ul>
		Phase Ib NCT02289820	N = 264			<ul style="list-style-type: none"> <li>FPD: Q1 15</li> <li>LPD: Q1 15</li> <li>Topline results: Q2 15</li> </ul>
Anti-RSV mAb-YTE (MEDI8897)	Healthy adults	Phase Ia NCT02114268	N = 136	<ul style="list-style-type: none"> <li>Arm 1: MEDI8897 IV &amp; IM</li> <li>Arm 2: Placebo</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: Q2 15</li> </ul>
	32-35 WK GA infants	Phase Ib/Ia NCT02290340	N = 90	<ul style="list-style-type: none"> <li>Arm 1: MEDI8897 IM</li> <li>Arm 2: Placebo</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>Est. topline results: H1 16</li> </ul>
Anti-Pseudomonas a. mAb (MEDI3902)	Healthy adults	Phase I NCT02255760	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>
Anti-influenza A mAb (MEDI8852)	Healthy adults	Phase I NCT02350751	N = 40	<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: Q1 15</li> <li>LPD: Q1 15</li> <li>Topline results: Q2 15</li> </ul>



# Vaccine biologics

## Influenza vaccines

Compound	Patient population	Study phase	Number of patients	Design	Endpoints	Status
MEDI3250 <i>FluMist</i>	Children 2 to 6 years of age	Phase III NCT02269488	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>Est. topline results: Q4 15</li></ul>
MEDI3250 <i>FluMist</i>	Children 7 through 18 years of age	Phase III NCT02269475	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>Est. topline results: Q4 15</li></ul>



# MEDI1814 (amyloid beta mAb)

## Alzheimer's disease

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

Patient population	Study phase	Number of patients	Design	Endpoints	Status
Alzheimer's disease & healthy elderly	Phase I NCT02036645	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: 2017</li></ul>

