

# Clinical Trials Appendix

## Q4 2014 Results Update

The following information about ongoing AstraZeneca clinical studies in Phases I-IV has been created with selected information from [clinicaltrials.gov](http://clinicaltrials.gov) to facilitate understanding of key aspects of our clinical programmes and is correct to the best of our knowledge as of 31 December 2014, unless otherwise specified.

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

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



# Movement since Q3 2014 update

New to Phase I	New to Phase II	New to Pivotal Study	New to Registration
<p><b><u>NMEs</u></b>  <b>AZD3759</b>            EGFR TK EGFRm lung cancer  <b>AZD8108</b>            NMDA suicidal ideation  <b>AZD8835</b>            PI3Ka solid tumours  <b>AZD8999*</b>            MABA COPD  <b>AZD9496</b>            SERD ER+ breast cancer  <b>MEDI-551+MEDI0680</b>            CD19+PD-1 DLBCL  <b>MEDI6469+tremelimumab</b>            mOX40+CTLA4 solid tumours</p>	<p><b><u>NMEs</u></b>  <b>AZD0548*</b>            LABA asthma/COPD  <b>AZD0914</b>            GyrAR serious bacterial infection  <b>AZD3293</b>            B-secretase Alzheimer's  <b>AZD7624</b>            P38 COPD  <b>MEDI4893</b>            S. aureus toxin HAP/serious Staph</p>	<p><b><u>Additional indications</u></b>  <b>AZD9291</b>            EGFR TK 1L advanced NSCLC  <b>MEDI4736**</b>            PD-L1 adjuvant NSCLC (ADJUVANT)  <b>MEDI4736**</b>            PD-L1 3L NSCLC mono sub-study (ARCTIC)</p> <p><b><u>Line extensions</u></b>  <b>Brilinta/Brilique</b>            Paeds w/ sickle cell (HESTIA)  <b>Epanova</b>            CV outcomes (STRENGTH)  <b>Farxiga/Forxiga</b>            Type 1 diabetes  <b>Symbicort</b>            as needed mild asthma (SYGMA-1)</p>	<p><b><u>NMEs</u></b>  <b>lesinurad</b>            SURI gout</p>
Removed from Phase I	Removed from Phase II	Removed from Phase III	Removed from Registration
<p><b><u>NMEs</u></b>  <b>AZD1979</b>            MCH obesity  <b>AZD6423</b>            NMDA suicidal ideation</p>			<p><b>Movantik/Moventig*</b>            OIC  <b>Lynparza*</b>            BRCAm PSR ovarian</p>

\*New business development; \*Approved Q4 2014; \*\*New in Q1 2015



# Q4 2014 NME<sup>†</sup> Pipeline

## Phase 1 (38 New Molecular Entities<sup>†</sup>)

Small molecule	Large molecule
<b>AZD3759</b> EGFR EGFRm lung	<b>MEDI0639</b> DLL-4 solid tumours
<b>AZD5312</b> Androgen prostate	<b>MEDI0680</b> PD-1 solid tumours
<b>AZD6738</b> ATR CLL, H&N	<b>MEDI-565</b> CEA BITE GI tumours
<b>AZD8186</b> PI3K $\beta$ solid tumours	<b>MEDI3617</b> ANG-2 solid tumours
<b>AZD8835</b> PI3K $\alpha$ solid tumours	<b>MEDI6094 (volitinib)</b> Ox40 solid tumours
<b>AZD9150</b> STAT3 haems + solids	<b>MEDI6469</b> mOX40 solid tumours
<b>AZD9496</b> SERD ER+ breast	<b>MEDI4920</b> CD40L-Tn3 Primary Sjögren's Syndrome
<b>AZD1419</b> TLR9 asthma	<b>MEDI5872</b> B7RP1 SLE
<b>AZD7594</b> Inhaled SGRM asthma, COPD	<b>MEDI6012</b> LCAT ACS
<b>AZD8999</b> MABA asthma, COPD	<b>MEDI8111</b> Rh-Factor II trauma/bleeding
<b>AZD8108</b> NMDA suicidal ideation	<b>MEDI1814</b> Amyloid $\beta$ Alzheimer's
<b>ATM AVI</b> BLU/BLI SBI	<b>MEDI-550</b> pandemic influenza virus vaccine
	<b>MEDI3902</b> Palivivir pseudomonas
	<b>MEDI7510</b> RSV sF+GLA-SE RSV prevention
	<b>MEDI8897</b> RSV Mab Y1E passive RSV prophylaxis
	<b>PRVV (MEDI-559)</b> paediatric RSV vaccine
<b>Oncology combinations (Phase 1)</b>	
<b>AZD9291+MEDI4736/selumetinib/volitinib</b> EGFR + PD-L1/MEK/MET NSCLC	<b>MEDI4736+MEDI6469</b> PD-L1+mOX40 solid tumours
<b>MEDI4736 TATTON</b> PD-L1 after EGFR/MEK/CTLA-4 NSCLC	<b>MEDI4736+treme</b> PD-L1+CTLA-4 solid tumours
<b>MEDI4736+dabrafenib+trematenib<sup>‡</sup></b> PD-L1+BRAF+MEK melanoma	<b>MEDI6469+treme</b> mOX40+CTLA-4 solid tumours
<b>MEDI4736+Iressa</b> PD-L1+EGFR NSCLC	<b>MEDI-551+MEDI0680</b> CD19+PD-1 haems
<b>MEDI4736+MEDI0680</b> PD-L1+PD-1 solid tumours	<b>MEDI-551+rituximab</b> CD19+CD20 haems

## Phase 2 (28 New Molecular Entities<sup>†</sup>)

Small molecule	Large molecule
<b>AZD1775</b> Wee-1 ovarian, 1L NSCLC	<b>MEDI-551</b> CD19 CLL, DLBCL
<b>AZD2014</b> TORK solid tumours	<b>MEDI-573</b> IGF metastatic breast cancer
<b>AZD4547</b> FGFR solid tumours	<b>anifrolumab</b> IFN $\alpha$ R SLE
<b>AZD5363</b> AKT breast cancer	<b>AZD9412</b> Inhaled BIFN asthma, COPD
<b>AZD6094 (volitinib)</b> MET solid tumours	<b>mavrilimumab</b> GM-CSFR rheumatoid arthritis
<b>AZD0548</b> LABA asthma, COPD	<b>MEDI2070</b> IL-23 Crohn's
<b>AZD2115</b> MABA (dual) COPD	<b>MEDI7183</b> $\alpha$ 4 $\beta$ 7 Crohn's, ulcerative colitis
<b>AZD7624</b> Inhaled p38 inhibitor COPD	<b>MEDI9929</b> TSLP asthma
<b>PT010</b> LABA/LAMA/ICS COPD	<b>sifalimumab</b> IFN $\alpha$ SLE
<b>RDEA3170</b> URAT1 gout	
<b>AZD4901</b> hormone modulator PCOS	
<b>AZD1722 (tenapanor)</b> NHE3 inhibitor ESRD-PiCKD	
<b>AZD3241</b> NPO Multiple System Atrophy	
<b>AZD3293</b> BSECDR Alzheimer's	
<b>AZD5213</b> H3R Tourette's, neuropathic pain	
<b>AZD0914</b> GHyR/R serious infection	
<b>MEDI4893</b> staph alpha toxin SSI	
<b>AZD5847</b> osazolidinone TB	
<b>CXL</b> BLU/cephalosporin MRSA	



## Phase 3 / Registration (13 New Molecular Entities<sup>†</sup>)

Small molecule	Large molecule
<b>AZD9291<sup>‡</sup></b> EGFRm T790M NSCLC	<b>MEDI4736</b> PD-L1 NSCLC
<b>selumetinib</b> MEK liver metastases	<b>moxetumomab</b> CD22 HCL
<b>lesinurad</b> URAT1 gout	<b>tremelimumab<sup>‡</sup></b> CTLA-4 mesothelioma
<b>PT003</b> LABA/LAMA COPD	<b>brodalumab</b> IL-17R psoriasis, psoriatic arthritis
<b>PT001</b> LAMA COPD	<b>benralizumab</b> IL-5R severe asthma, COPD
<b>roxadustat (AZD9941)</b> HIF anaemia CKD/ESRD	<b>tralokinumab</b> IL-13 severe asthma
<b>CAZ AVI</b> BLU/cephalosporin SBI	

## New approvals (1 New Molecular Entity<sup>†</sup>)

Small molecule	Large molecule
<b>Lynparza</b> PARP BRCA ovarian, gastric, breast	

### Terminations in Q4 2014

AZD1979 (obesity) in P1, AZD6423 (suicidal ideation) in P1

<sup>†</sup> Includes significant combination programs. Parallel and LCM indications that are in the same phase as the lead indication are listed in a single box for each asset. Those in earlier phases are excluded (see LCM chart for these entries)

<sup>‡</sup> Registrational P2/3 study

<sup>‡</sup> MedImmune-sponsored study in collaboration with GlaxoSmithKline

Pipeline information correct as of 31<sup>st</sup> December 2014



# 2015-2016: 14-16 NME & LE submissions

LE submission opportunities				<b>MEDI4736 + tremelimumab</b> 2L SCCHN
			<b>Faslodex</b> 1L metastatic breast cancer	<b>MEDI4736</b> 2L SCCHN
			<b>Brilinta</b> stroke	<b>Lynparza</b> BRCAm metastatic breast cancer
		<b>saxa/dapa FDC</b> type 2 diabetes	<b>brodalumab*</b> psoriatic arthritis	<b>Lynparza</b> BRCAm PSR ovarian cancer (SOLO-2)
	<b>Brilinta</b> prior MI	<b>Bydureon</b> autoinjector	<b>lesinurad FDC</b> gout	<b>Caprelsa</b> differentiated thyroid cancer
NME submission opportunities	<b>CAZ AVI (CEPH/BLI)</b> serious infections	<b>cediranib (VEGFR)</b> ovarian cancer (EU)		<b>AZD6094 MET (cMET)</b> papillary renal cell carcinoma
	<b>brodalumab* (IL-17R)</b> psoriasis	<b>selumetinib (MEK)</b> uveal melanoma	<b>roxadustat (HIF)</b> CKD / ESRD (China)	<b>tremelimumab (CTLA-4)</b> mesothelioma
	<b>PT003 (LAMA/LABA)</b> COPD	<b>AZD9291 (EGFR)</b> 2L NSCLC	<b>benralizumab (IL-5R)</b> severe asthma	<b>MEDI4736 (PD-L1)</b> 3L NSCLC
	2015		2016	



**AstraZeneca**

**Clinical trials – Approved medicines  
Q4 2014 Results Update**



# Symbicort (ICS/LABA)

## Mild asthma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Patients in need of GINA step 2 treatment	Phase III SYGMA1  NCT02149199	N = 3750	<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>FSI: Q3 14</li> <li>LSI: Q3 15</li> <li>Est completion date: Q4 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
Patients in need of GINA step 2 treatment	Phase III SYGMA2  NCT02224157	N = 4114*	<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>FSI: Q4 14</li> <li>LSI: Q4 15</li> <li>Est completion date: Q1 17</li> <li>Est external presentation: Beyond planning horizon</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.



# Epanova (prescription grade Omega-3 free fatty acid EPA+DHA)

## Hypertriglyceridaemia development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Severe hypertriglyceridaemia	Phase III EVOLVE II  NCT02009865	N = 162	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Epanova 2g QD</li> <li>• <b>ARM 2:</b> Placebo (olive oil)</li> </ul> <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>• FSI: Q4 13</li> <li>• LSI: Q4 14</li> <li>• Est completion date: 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>• <b>ARM 1:</b> Epanova 4g QD + statin</li> <li>• <b>ARM 2:</b> 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>• FSI: Q4 14</li> <li>• Est completion date: H2 19</li> </ul>
Healthy Male Japanese and Caucasian subjects	Phase I  SAD/MAD  NCT02209766	N = 18	<ul style="list-style-type: none"> <li>• <b>ARM 1: (Japanese):</b> Epanova 2g vs Placebo QD</li> <li>• <b>ARM 2: (Japanese):</b> Epanova 4g vs Placebo QD</li> <li>• <b>ARM 3: (Caucasian):</b> Epanova 4g vs Placebo</li> </ul> <p>Global 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>• FSI: Q3 14</li> <li>• LSI: Q4 14</li> <li>• Est completion date: Q2 15</li> </ul>
Patients with a history of pancreatitis	Phase I  NCT02189252	N = 24	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Epanova 4g → Lovaza 4g QD</li> <li>• <b>ARM 2:</b> Lovaza 4g → Epanova 4g QD</li> <li>• <b>ARM 3:</b> Epanova 2g → Lovaza 4g QD</li> <li>• <b>ARM 4:</b> Lovaza 4g → Epanova 2g QD</li> </ul> <p>Global study – 2 countries</p>	<ul style="list-style-type: none"> <li>• Plasma concentration vs. time curve (AUC<sub>0-τ</sub>) [Time Frame: 0 to 24 hours (AUC<sub>0-24</sub>) ]</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 14</li> <li>• LSI: Q2 15</li> <li>• Est completion date: Q3 15</li> </ul>



# Epanova (prescription grade Omega-3 free fatty acid EPA+DHA)

## Hypertriglyceridaemia development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Type 2 DiM Liver fat >5.5%	Phase II EFFECT II  NCT02279407	N = 100	<ul style="list-style-type: none"><li>• <b>ARM 1:</b> Epanova 4g QD</li><li>• <b>ARM 2:</b> Placebo (olive oil)</li><li>• <b>ARM 3:</b> Epanova 4gm + dapaglifozin 10 mg QD</li><li>• <b>ARM 4:</b> dapaglifozin 10 mg</li></ul> Global study – 1 country	<ul style="list-style-type: none"><li>• Reduction in liver fat content (%) at the end of 12 weeks</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q1 15</li><li>• LSI: Q2 15</li><li>• Est completion date: Q4 15</li></ul>





# Onglyza (DPP-IV inhibitor)

## Type 2 Diabetes development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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</li> <li><b>ARM 2:</b> Placebo QD +insulin or Placebo QD + 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>FSI: Q2 14</li> <li>LSI: Q4 15</li> <li>Est primary completion date: Q2 16</li> <li>Est study completion date: Q2 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>FSI: Q4 14</li> <li>LSI: Q2 16</li> <li>Est primary completion date: Q4 16</li> <li>Est study completion date: Q4 16</li> </ul>



# Forxiga/Farxiga (SGLT-2 inhibitor)

## Diabetes development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Type 2 diabetes mellitus with high risk for CV event	Phase III/IV <b>DECLARE</b>  NCT01730534	N = 17150	<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> <p>Global study – 33 countries</p>	<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>FSI: Q2 13</li> <li>LSI: Q2 16</li> <li>Est completion date: Q2 19</li> <li>Est external presentation: 2020</li> </ul>
Type 1 diabetes mellitus	Phase III  NCT02268214  Partnered (BMS)	N = 768	<p><b>Arm 1:</b> Forxiga 5 mg QD 52 weeks + insulin <b>Arm 2:</b> Forxiga 10 mg QD 52 weeks + insulin <b>Arm 3:</b> Placebo QD 52 weeks + insulin</p> <p>Global study – 17 countries</p>	<p><u>Primary endpoint</u></p> <ul style="list-style-type: none"> <li>Adjusted Mean Change From Baseline in Haemoglobin A1C (HbA1c) at Week 24</li> </ul> <p><u>Secondary endpoints</u></p> <ul style="list-style-type: none"> <li>Percent change in total daily insulin dose</li> <li>Percent change in body weight</li> <li>Change in the mean value of 24-hour glucose readings obtained from continuous Glucose Monitoring (CGM)</li> </ul> <p><u>Safety:</u></p> <ul style="list-style-type: none"> <li>Proportion of subjects with hypoglycemia events and the frequency and severity of the hypoglycemia events</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>LSI: Q1 16</li> <li>Est primary completion date: Q4 16</li> <li>Est study completion date: Q2 17</li> <li>Est. external presentation: Beyond planning horizon</li> </ul>



# Forxiga/Farxiga (SGLT-2 inhibitor)

## Diabetes development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Asian Subjects With Type 2 Diabetes Who Have Inadequate Glycemic Control on Insulin	Phase III NCT02096705 Partnered (BMS)	N = 260	ARM 1: Forxiga 10 mg QD for 24 weeks + background Insulin ARM 2: Placebo QD for 24 weeks + background Insulin  Asian study	<ul style="list-style-type: none"> <li>Change from baseline in HbA1c at week 24</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 14</li> <li>LSI: Q2 15</li> <li>Est primary completion date: Q4 15</li> </ul>
Japanese Patients With Type 2 Diabetes With Inadequate Glycemic Control on Insulin	Phase IV NCT02157298	N = 224	ARM 1: Forxiga 5mg ARM 2: Placebo  Japan study	<ul style="list-style-type: none"> <li>Change from baseline in HbA1c at week 16</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>LSI: Q4 14</li> <li>Est primary completion date: Q1 15</li> </ul>



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

## FDC Type 2 Diabetes development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status*
Type 2 Diabetes Mellitus	Phase III NCT01619059	N = 280	<ul style="list-style-type: none"> <li>ARM 1: Saxa 5mg + Dapa 10 mg + Met IR</li> <li>ARM 2: Placebo + Dapa 10 mg + Met IR</li> </ul> <p>Global study – 9 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>Mean change from baseline in HbA1C at week 24</li> </ul> <p>Secondary:</p> <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>FSI: Q2 12</li> <li>Primary completion date: Q2 14</li> <li>Est study completion date: Q1 15</li> <li>Est external presentation: 2015</li> </ul>
Type 2 Diabetes Mellitus	Phase III NCT01646320	N = 280	<ul style="list-style-type: none"> <li>ARM 1: Dapa 10 mg + Saxa 5 mg + Met IR</li> <li>ARM 2: Placebo + Saxa 5 mg + Met IR</li> </ul> <p>Global study – 8 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>Mean change from baseline in HbA1C at week 24</li> </ul> <p>Secondary:</p> <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>FSI: Q3 12</li> <li>Primary completion date: Q3 14</li> <li>Est study completion date: Q1 15</li> <li>Est external presentation: 2015</li> </ul>
Type 2 Diabetes Mellitus	Phase III NCT02284893	N= 420	<ul style="list-style-type: none"> <li>ARM 1: Saxa 5 mg + Dapa 10 mg + Met IR/XR</li> <li>ARM 2: Sitagliptin 100 mg + Met IR/XR</li> </ul> <p>Global study – 6 countries</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>Mean change from baseline in HbA1C at week 24</li> </ul> <p>Secondary:</p> <ul style="list-style-type: none"> <li>The proportion of subjects achieving a therapeutic glycaemic response at week 24 defined as HbA1C&lt;7%</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>Est primary completion date: Q3 16</li> <li>Est study completion date: Q1 17</li> </ul>



# Bydureon (GLP-1 receptor antagonist)

## Type 2 Diabetes development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	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</p> <p>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>• FSI: Q1 13</li> <li>• Completion date: Q3 14</li> <li>• External presentation: Q2 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</p> <p>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>• FSI: Q1 13</li> <li>• Completion date: Q3 14</li> <li>• Est external presentation: Q2 15</li> </ul>



# Bydureon/exenatide (GLP-1 receptor antagonist)

## Type 2 Diabetes development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Type 2 Diabetes	Phase IV <b>EXSCEL</b>  NCT01144338  Partnered	N = 14000	<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>• FSI: Q2 10</li> <li>• LSI: Q2 15</li> <li>• Est completion: 2018</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Type 2 Diabetes	Phase III <b>DURATION 7</b>  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</p> <p>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>• FSI: Q3 14</li> <li>• LSI: Q2 16</li> <li>• Est completion: 2016</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Type 2 Diabetes	Phase III <b>DURATION 8</b>  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</p> <p>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>• FSI: Q3 14</li> <li>• LSI: Q2 16</li> <li>• Est completion: 2017</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>



# Brilinta/Brilique (ADP receptor antagonist)

## PARTHENON development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Patients with prior MI	Phase III PEGASUS  NCT01225562	N = 21000	<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>• FSI: Q4 10</li> <li>• LSI: Q2 13</li> <li>• Completion date: Q1 15</li> <li>• Est. external presentation: Q1 15 (ACC)</li> </ul>
Patients with PAD	Phase III EUCLID  NCT01732822	N = 13500	<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>• FSI: Q3 12</li> <li>• LSI: Q1 14</li> <li>• Est. completion date: Q3 16</li> <li>• Est. external presentation: 2017</li> </ul>
Patients with Stroke or TIA	Phase III SOCRATES  NCT01994720	N = 9600	<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>• FSI: Q1 14</li> <li>• Est. completion date: Q4 15</li> <li>• Est. external presentation: 2016</li> </ul>
Patients with Type 2 Diabetes and Coronary Artery Disease without a previous history of MI or Stroke	Phase III THEMIS  NCT01991795	N = 17000	<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>• FSI: Q1 14</li> <li>• Est. completion date: Q1 17</li> <li>• Est. external presentation: Beyond planning horizon</li> </ul>



# Faslodex (oestrogen receptor antagonist)

## Breast cancer development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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>• <b>ARM 1:</b> Faslodex 500 mg monthly IM + an additional dose on d14 (+ oral placebo)</li><li>• <b>ARM 2:</b> Arimidex 1 mg (+ placebo injection)</li></ul> Global study – 21 countries	<ul style="list-style-type: none"><li>• Progression Free Survival (PFS)</li><li>• Overall Survival is a secondary endpoint</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q4 12</li><li>• LSI: Q3 14</li><li>• Est primary completion date: Q2 16</li><li>• Est external presentation: 2016</li></ul>





## Thyroid cancer development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Differentiated thyroid cancer refractory or unsuitable for radioiodine therapy	Phase III NCT01876784	N = 227	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Vandetanib 300 mg oral dose QD</li> <li>• <b>ARM 2:</b> Placebo</li> </ul> <p>Global study – 12 countries</p>	<ul style="list-style-type: none"> <li>• Progression Free Survival</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 13</li> <li>• LSI: Q4 14</li> <li>• Est completion date: Q2 17</li> <li>• Est external presentation: Q4 17</li> </ul>
Unresectable locally advanced or metastatic medullary thyroid carcinoma	Phase I/II NCT01661179	N = 10	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Vandetanib 300mg oral dose QD</li> </ul> <p>Japanese patients</p>	<ul style="list-style-type: none"> <li>• Frequency and severity of adverse events</li> <li>• Secondary end point objective response rate</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 12</li> <li>• LSI: Q2 13</li> <li>• Est completion date: Q3 14</li> </ul>



# Lynparza (PARP inhibitor)

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Primary Endpoint	Status
PSR BRCAm ovarian cancer	Phase III SOLO-2  NCT01874353	N = 264	<ul style="list-style-type: none"> <li><b>ARM 1:</b> <i>Lynparza</i> tablets 300 mg BiD as maintenance therapy until progression</li> <li><b>ARM 2:</b> placebo tablets BiD</li> </ul> <p>Global study</p>	<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>FSI: Q3 13</li> <li>LSI: Q4 14</li> <li>Est primary completion: Q3 15</li> <li>Primary external presentation: 2016</li> </ul>
1 <sup>st</sup> line maintenance BRCAm ovarian cancer	Phase III SOLO-1  NCT01844986	N = 344	<ul style="list-style-type: none"> <li><b>ARM 1:</b> <i>Lynparza</i> tablets 300 mg BiD maintenance therapy for 2 years or until disease progression</li> <li><b>ARM 2:</b> placebo</li> </ul> <p>Global study</p>	<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>FSI: Q3 13</li> <li>LSI: Q1 15</li> <li>Est primary completion: Q3 16</li> <li>Primary external presentation: 2017</li> </ul>
PSR gBRCAm ovarian cancer 3+ Line	Phase III SOLO3  NCT02282020	N = 411	<ul style="list-style-type: none"> <li><b>ARM 1:</b> <i>Lynparza</i> 300 mg BiD to progression</li> <li><b>ARM 2:</b> Physician's choice (single agent chemotherapy)</li> </ul> <p>Global study</p>	<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>FSI: Q1 15</li> <li>LSI: Q2 2017</li> <li>Est primary completion: Q4 2017</li> </ul>
2 <sup>nd</sup> line gastric cancer (all patients with a co-primary sub population)	Phase III GOLD  NCT01924533	N = 500	<ul style="list-style-type: none"> <li><b>ARM 1:</b> paclitaxel + <i>Lynparza</i> until progression</li> <li><b>ARM 2:</b> paclitaxel + placebo</li> </ul> <p><i>Lynparza</i> dose 100mg BiD throughout paclitaxel dose cycle &amp; 300 mg BiD post cycle</p> <p>Asian study</p>	<ul style="list-style-type: none"> <li>Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 13</li> <li>LSI: Q3 15</li> <li>Est primary completion: Q3 16</li> <li>Est primary external presentation: 2017</li> </ul>



# Lynparza (PARP inhibitor) continued...

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Primary Endpoint	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>Overall Survival is a secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>LSI: Q4 15</li> <li>Est primary completion: Q2 16</li> <li>Primary external presentation: 2017</li> </ul>
BRCAm adjuvant breast cancer	Phase III OlympiA  NCT02032823	N = 1320	<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 Distance Disease Free Survival and Overall Survival</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>LSI: Q1 18</li> <li>Est primary completion: Q1 20</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>FSI: Q4 14</li> <li>LSI: Q4 15</li> <li>Est primary completion: Q2 16</li> <li>Est primary external presentation: 2016</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>FSI: Q3 14</li> <li>LSI: Q3 2017</li> <li>Est primary completion date: Q2 16</li> </ul>



## Serious infections development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Patients with complicated skin and soft tissue infections (cSSTI)	Phase III <b>COVERS</b>  NCT01499277	N = 765 <i>(801 actually screened)</i>	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Ceftaroline fosamil 600 mg q 8 hrs</li> <li><b>ARM 2:</b> Vancomycin plus aztreonam</li> </ul>	<ul style="list-style-type: none"> <li>NI in Clinical Cure rate at the Test of Cure (TOC) visit in both the modified Intent-To-Treat (MIIT) and the Clinically Evaluable (CE) analysis sets</li> <li>Secondary endpoints include clinical response at End of Treatment (EOT) visit and microbiological response at TOC and EOT</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 12</li> <li>LSI: Q2 14</li> <li>Completion: Q2 14</li> <li>Ext presentation: Q2 15</li> </ul>
Patients with complicated skin and soft tissue infections (cSSTI)	Phase III <b>COVERS MRSA Expansion</b>  NCT02202135	N = 4	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Ceftaroline fosamil 600 mg q 8 hrs</li> <li><b>ARM 2:</b> Vancomycin plus aztreonam</li> </ul>	<ul style="list-style-type: none"> <li>Assess clinical Cure rate at the Test of Cure (TOC) visit in both the modified Intent-To-Treat (MIIT) and the Clinically Evaluable (CE) analysis sets</li> <li>Secondary endpoints include clinical response at End of Treatment (EOT) visit and microbiological response at TOC and EOT</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>LSI: Q4 14</li> <li>Completion: Q1 15</li> <li>Ext presentation: 2016</li> </ul>
Patients with Community-Acquired Pneumonia (CAP) in Asia	Phase III <b>CAP</b>  NCT01371838	N = 692 <i>(848 actually screened)</i>	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Ceftaroline fosamil 600 mg q 12 hrs</li> <li><b>ARM 2:</b> Ceftriaxone 2 g q 24 hrs</li> </ul>	<ul style="list-style-type: none"> <li>NI in Clinical Cure rate at the Test of Cure (TOC) visit in Clinically Evaluable (CE) population</li> <li>Secondary endpoints include clinical response at End of Treatment (EOT) visit and microbiological response at EOT</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 11</li> <li>LSI: Q2 13</li> <li>Completion: Q2 13</li> <li>Ext presentation: Q2 14</li> </ul>



# FluMist Quadrivalent

## Vaccine development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Healthy children Age 7-18 years	Phase III NCT02269475	N = 1008	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> One or two doses of MEDI3250</li> <li>• <b>ARM 2:</b> Placebo</li> </ul> <p>Nasal administration</p> <p>Japan only</p>	<ul style="list-style-type: none"> <li>• Efficacy</li> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• LSI: Q4 14</li> <li>• Est completion: Q1 15</li> <li>• Est external presentation: Q4 15</li> </ul>
Healthy children Age 2-6 years	Phase III NCT02269488	N =100	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> One or two doses of MEDI3250</li> </ul> <p>Nasal administration</p> <p>Japan only</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• LSI: Q1 15</li> <li>• Est. completion: Q1 15</li> <li>• Est. external presentation: Q4 15</li> </ul>



# Gastrointestinal

## Phase III development programmes

Compound	Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
<i>Nexium</i>	Refractory RE	Phase III ROSE  NCT01669811	N = 280	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Nexium 20 mg BiD</li> <li>• <b>ARM 2:</b> Nexium 20 mg QD</li> </ul> <p>Japan-only study</p>	<ul style="list-style-type: none"> <li>• Healing of refractory RE</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 12</li> <li>• LSI: Q1 14</li> <li>• Completion date: Q2 14</li> <li>• Est external presentation: DDW (May 2015)</li> </ul>
<i>Nexium</i>	Seriously ill patients (Stress Ulcer Prophylaxis, SUP)	Phase III  NCT02157376	N=300	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Nexium 30 min intermittent infusions given for max.14 days</li> <li>• <b>ARM 2:</b> Cimetidine(Tagamet) 30 min bolus infusion + continuous infusion for max. 14 days</li> </ul> <p>China-only study</p>	<ul style="list-style-type: none"> <li>• Proportion of patients with upper GI bleeding</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 14</li> <li>• LSI: Q3 16</li> <li>• Est completion date: Q3 16</li> <li>• Est external presentation: 2018</li> </ul>
Entocort	Crohn's disease (mild to moderate)	Phase III  NCT01514240	N = 110	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Entocort 9 mg QD</li> <li>• <b>ARM 2:</b> Mesalazine 1 g TD</li> </ul> <p>Japan-only study</p>	<ul style="list-style-type: none"> <li>• Remission defined by a CDAI score of <math>\leq 150</math></li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 12</li> <li>• LSI: Q2 14</li> <li>• Completion date: Q3 14</li> <li>• Est external presentation: 2016</li> </ul>
Linaclotide	IBS-C	Phase III  NCT01880424	N = 800	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Linaclotide 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>• FSI: Q3 13</li> <li>• LSI: Q1 15</li> <li>• Est completion date: Q2 15</li> <li>• Est external presentation: 2016</li> </ul>



**AstraZeneca**

**Late stage development programmes  
Q4 2014 Results Update**



# Lesinurad (SURI)

## Gout development programme

Patient Population	Phase Study	# of patients	Design	Primary endpoint	Status
Gout with Inadequate Hypouricemic Response to Allopurinol	Phase III CLEAR 1  NCT01510158	N = 600	<ul style="list-style-type: none"> <li>ARM 1: Placebo</li> <li>ARM 2: lesinurad 200 mg QD</li> <li>ARM 3: lesinurad 400 mg QD</li> </ul> All arms: SOC allopurinol QD	<ul style="list-style-type: none"> <li>Proportion of subjects with an sUA level that is &lt; 6.0 mg/dL by Month 6</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 12</li> <li>LSI: Q3 13</li> <li>Study complete, press release issued</li> <li>Ext presentation: Q4 14 (ACR)</li> </ul>
Gout with Inadequate Hypouricemic Response to Allopurinol	Phase III CLEAR 2  NCT01493531	N = 600	<ul style="list-style-type: none"> <li>ARM 1: Placebo</li> <li>ARM 2: lesinurad 200 mg QD</li> <li>ARM 3: lesinurad 400 mg QD</li> </ul> All arms: SOC allopurinol QD	<ul style="list-style-type: none"> <li>Proportion of subjects with an sUA level that is &lt; 6.0 mg/dL by Month 6</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 11</li> <li>LSI: Q2 13</li> <li>Study complete, press release issued</li> <li>Ext presentation: Q4 14 (ACR)</li> </ul>
Tophaceous Gout	Phase III CRYSTAL  NCT01510769	N = 315	<ul style="list-style-type: none"> <li>ARM 1: Placebo</li> <li>ARM 2: lesinurad 200 mg QD</li> <li>ARM 3: lesinurad 400 mg QD</li> </ul> All arms: febuxostat 80 mg QD	<ul style="list-style-type: none"> <li>Proportion of subjects with an sUA level that is &lt; 5.0 mg/dL by Month 6</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 12</li> <li>LSI: Q2 13</li> <li>Study complete, press release issued</li> <li>Est external presentation: Q2 15 (EULAR)</li> </ul>
Gout with Intolerance or Contraindication to a Xanthine Oxidase Inhibitor	Phase III LIGHT  NCT01508702	N = 200	<ul style="list-style-type: none"> <li>Arm 1: Placebo</li> <li>Arm 2: lesinurad 400 mg QD</li> </ul>	<ul style="list-style-type: none"> <li>Proportion of subjects with an sUA level that is &lt; 6.0 mg/dL at Month 6</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 12</li> <li>LSI: Q2 13</li> <li>Study complete, press release issued</li> <li>Est external presentation: Q2 15 (EULAR)</li> </ul>
Gout previously enrolled LIGHT study	Phase III LIGHT Ext  NCT01650246	N = 143	All arms: open-label lesinurad 400 mg QD	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of lesinurad monotherapy.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>LSI: Q1 14</li> <li>Study complete</li> <li>Est external presentation: Q2 15 (EULAR)</li> </ul>
Gout previously enrolled in studies CLEAR 1 & 2	Phase III CLEAR Ext NCT01808131	N ≤ 200	<ul style="list-style-type: none"> <li>ARM 1: lesinurad 200 mg QD</li> <li>ARM 2: lesinurad 400 mg QD</li> </ul> All arms: SOC allopurinol QD	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of lesinurad in combination with allopurinol.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 13</li> <li>LSI: Q2 14</li> <li>Study ongoing</li> </ul>
Gout previously enrolled in CRYSTAL study	Phase III CRYSTAL Ext NCT01808144	N ≤ 315	<ul style="list-style-type: none"> <li>ARM 1: lesinurad 200 mg QD</li> <li>ARM 2: lesinurad 400 mg QD</li> </ul> All arms: febuxostat 80 mg QD	<ul style="list-style-type: none"> <li>Assess the long-term efficacy and safety of lesinurad in combination with febuxostat.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 13</li> <li>LSI: Q2 14</li> <li>Study ongoing</li> </ul>



# Anti-IL-17RA (brodalumab)

## Psoriasis & psoriatic arthritis development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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>	<ul style="list-style-type: none"> <li>Completed</li> <li>OLE Ongoing</li> </ul>
Moderate to severe plaque psoriasis	Phase III AMAGINE-2  NCT01708603	N = 1800	<ul style="list-style-type: none"> <li>ARM 1: 210 mg brodalumab SC</li> <li>ARM 2: 140 mg brodalumab SC</li> <li>ARM 3: 45 or 90 mg ustekinumab SC</li> <li>ARM 4: placeboSC</li> </ul>	<ul style="list-style-type: none"> <li>PASI at wk 12</li> <li>Static physician's global assessment (sPGA) at wk 12</li> </ul>	<ul style="list-style-type: none"> <li>Completed</li> <li>OLE Ongoing</li> </ul>
Moderate to severe plaque psoriasis	Phase III AMAGINE-3  NCT01708629	N = 1881	<ul style="list-style-type: none"> <li>ARM 1: 210 mg brodalumab SC</li> <li>ARM 2: 140 mg brodalumab SC</li> <li>ARM 3: 45 or 90 mg ustekinumab SC</li> <li>ARM 4: placeboSC</li> </ul>	<ul style="list-style-type: none"> <li>PASI at wk 12</li> <li>Static physician's global assessment (sPGA) at wk 12</li> </ul>	<ul style="list-style-type: none"> <li>Completed</li> <li>OLE Ongoing</li> </ul>
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>	<ul style="list-style-type: none"> <li>Completed</li> <li>OLE ongoing</li> <li>Externally presented</li> </ul>
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>	<p><b>Primary:</b></p> <ul style="list-style-type: none"> <li>ACR20 response at wk 16</li> </ul> <p><b>Secondary:</b></p> <ul style="list-style-type: none"> <li>Radiographic assessment of joints</li> <li>PASI 75, HAQ-DI and PSI</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 14</li> <li>Recruitment Ongoing</li> <li>Est primary completion: Q1 16</li> </ul>
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>	<ul style="list-style-type: none"> <li>FSI: Q1 14</li> <li>Recruitment Ongoing</li> <li>Est primary completion: Q1 16</li> </ul>



# LABA/LAMA (PT003) & LAMA (PT001)

## COPD development program

Patient Population	Phase Study	# of patients	Design G = Glycopyrronium, F = Formoterol fumarate	Endpoint(s)	Status
Moderate to Very Severe COPD	Phase III <b>PINNACLE 1</b>  NCT01854645	N = 2054	Treatment (24-week Treatment Period) <ul style="list-style-type: none"> <li><b>ARM 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li><b>ARM 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li><b>ARM 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li><b>ARM 4:</b> Open-label tiotropium bromide inhalation powder 18 µg QD</li> <li><b>ARM 5:</b> Placebo MDI BiD</li> </ul> <p>Multicenter, randomized, double-blind, parallel-group, chronic dosing, placebo- and active- controlled Estimated time from FSFV to DBL is approximately 21 months. US, Australia, New Zealand</p>	<ul style="list-style-type: none"> <li>Change from baseline in morning pre-dose trough FEV<sub>1</sub></li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 13</li> <li>LSI: Q3 14*</li> <li>Est completion: Q1 15</li> <li>Est external presentation: 2016</li> </ul> <p>* Clinically completed</p>
Moderate to Very Severe COPD	Phase III <b>PINNACLE 2</b>  NCT01854658	N = 1614	Treatment (24-week Treatment Period) <ul style="list-style-type: none"> <li><b>ARM 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li><b>ARM 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li><b>ARM 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li><b>ARM 4:</b> Placebo MDI BiD</li> </ul> <p>Multicenter, randomized, double-blind, parallel group, chronic dosing and placebo-controlled Estimated time from FSFV to DBL is approximately 20 months. US</p>	<ul style="list-style-type: none"> <li>Change from baseline in morning pre-dose trough FEV<sub>1</sub></li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 13</li> <li>LSI: Q3 14*</li> <li>Est completion: Q2 15</li> </ul> <p>* Clinically completed</p>
Moderate to Very Severe COPD	Phase III <b>PINNACLE 3</b>  NCT01970878	N = 850	Treatment (28-week Treatment Period) <ul style="list-style-type: none"> <li><b>ARM 1:</b> GFF MDI (PT003) 14.4/9.6 µg BiD</li> <li><b>ARM 2:</b> GP MDI (PT001) 14.4 µg BiD</li> <li><b>ARM 3:</b> FF MDI (PT005) 9.6 µg BiD</li> <li><b>ARM 4:</b> Open-label tiotropium bromide inhalation powder QD</li> </ul> <p>Multi-center, randomized, double-blind, parallel-group and active-controlled Estimated time from FSFV to DBL is approximately 16 months. US, Australia, New Zealand</p>	<ul style="list-style-type: none"> <li>Overall safety, tolerability and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>LSI: Q3 14*</li> <li>Est completion: Q2 15</li> </ul> <p>* Clinically completed</p>

# LABA/LAMA (PT003) & LAMA (PT001)

## COPD development program continued

Patient Population	Phase Study	# of patients	Design G = Glycopyrronium, F = Formoterol fumarate	Endpoint(s)	Status
Moderate to Severe COPD	<b>Phase IIIb (Dose Indicator Study)</b>  NCT02268396	125	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-center  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 ( $\pm 20$ actuations) with number of actuations reported by subject .	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>LSI: Q4 14</li> <li>Est completion: Q1 15</li> </ul>
Moderate to Severe COPD	<b>Phase III (Spacer Study)</b>	N=60	Treatments ( 2 week treatment Period) <ul style="list-style-type: none"> <li>GFF MDI 28.8/9.6 µg with a spacer</li> <li>GFF MDI 28.8/9.6 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 28.8/9.6 µg with Aerochamber Plus VHC relative to GFF 28.8/9.6 µg w/o Aerochamber Plus VHC on Day 8</li> <li>PK parameters at all doses will include Cmax, AUC0-12, AUC0-t, tmax, Other PD/PK parameters may be calculated, as appropriate</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 15</li> <li>LSI: Q2 15</li> <li>Est completion: Q3 15</li> </ul>
Moderate to very Severe COPD	<b>Phase III (Asia Pacific study)</b>  NCT02343458	N= 1614	<ul style="list-style-type: none"> <li>Treatments (24-week Treatment Period)</li> <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> <li>US/China: Trough FEV1 at Week 24 of treatment</li> <li>EU/Hybrid: Co-primary= Trough FEV1 at Week 24 of treatment and TDI score over 24 weeks</li> </ul> Randomized, Double-Blind, Chronic-Dosing , Placebo-Controlled, Parallel-Group and Multi-Center  Estimated time from FSFV to DBL is approximately 20 months. EU, US, China, Japan and more countries TBD	<ul style="list-style-type: none"> <li>For the US/China approach, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 at Week 24 of treatment.</li> <li>For the Japan approach, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 over Weeks 12 to 24 of treatment.</li> <li>For the EU and Hybrid approaches, the primary endpoint will be the change from baseline in morning pre-dose trough FEV1 over 24 weeks of treatment.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 15</li> <li>LSI: Q2 16</li> <li>Est completion: Q4 16</li> </ul>



# LABA/LAMA (PT003) & LAMA (PT001)

## COPD development program continued

Patient Population	Phase Study	# of patients	Design G = Glycopyrronium, F = Formoterol fumarate	Endpoint(s)	Status
moderate to severe COPD	<b>Phase IIIb</b> <b>NCT02347085</b>	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-center 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>FSI: Q1 15</li> <li>LSI: Q2 15</li> <li>Est completion: Q3 15</li> </ul>
moderate to severe COPD	<b>Phase IIIb</b> <b>NCT02347072</b>	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>FSI: Q1 15</li> <li>LSI: Q2 15</li> <li>Est completion: Q4 15</li> </ul>



# Anti-IL-5R $\alpha$ (benralizumab)

## Asthma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Severe asthma, inadequately controlled despite background controller medication, MD & HD ICS + LABA $\pm$ chronic OCS Age 12 – 75yrs	Phase III <b>CALIMA</b>  NCT01914757	N = 1026 HD + up to 250 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>• FSI: Q4 13</li> <li>• Est completion: Q1 16</li> </ul>
Severe asthma, inadequately controlled despite background controller medication HD ICS + LABA $\pm$ chronic OCS Age 12 – 75 yrs	Phase III <b>SIROCCO</b>  NCT01928771	N = 1134	<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>• FSI: Q4 13</li> <li>• Est completion: Q1 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 <b>ZONDA</b>  NCT02075255	N = 120	<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>• FSI: Q3 14</li> <li>• Est completion: Q1 16</li> </ul>



# Anti-IL-5R $\alpha$ (benralizumab)

## Asthma development programme (continued)

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Asthmatic with FEV1 (50-90% predicted) on low to medium dose inhaled corticosteroid Age 18 – 75 yrs	Phase III 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> <p>12-week study Global study</p>	<ul style="list-style-type: none"> <li>• Pulmonary function (FEV1)</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 15</li> <li>• Est completion: Q1 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= 2550	<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> <p>* placebo administered at select interim visits to maintain blind between treatment arms</p> <p>56-week (adults) 108-week (adolescents) Global study</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• Est completion: Q4 17</li> </ul>



# Anti-IL-5R $\alpha$ (benralizumab)

## COPD development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD) with Exacerbation History	Phase III <b>TERRANOVA</b>  <b>NCT02155660</b>	N = 2324	<ul style="list-style-type: none"><li>• <b>ARM 1:</b> 10 mg Q8w SC</li><li>• <b>ARM 2:</b> 30 mg Q4w SC</li><li>• <b>ARM 3:</b> 100 mg Q8w SC</li><li>• <b>ARM 4:</b> Placebo SC</li></ul> 48-week study Global study – 15 countries	<ul style="list-style-type: none"><li>• Rate of COPD exacerbation</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q3 14</li></ul>
Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD) with Exacerbation History	Phase III <b>GALATHEA</b>  <b>NCT02138916</b>	N = 1743	<ul style="list-style-type: none"><li>• <b>ARM 1:</b> 30 mg Q4w SC</li><li>• <b>ARM 2:</b> 100 mg Q8w SC</li><li>• <b>ARM 3:</b> Placebo SC</li></ul> 48-week study Global study – 21 countries	<ul style="list-style-type: none"><li>• Rate of COPD exacerbation</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q3 14</li></ul>



# Tralokinumab (anti-IL-13)

## Asthma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Adults with Uncontrolled Severe Asthma	Phase III <b>STRATOS 1</b>  NCT02161757	N = 1140	<u>Cohort 1:</u> <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> <u>Cohort 2:</u> <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> 2:1 randomisation in both cohorts Global study – 14 countries	Primary endpoint: <ul style="list-style-type: none"> <li>• Annual asthma exacerbation rate</li> </ul> Key Secondary Endpoints: <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>• FSI: Q3 14</li> <li>• Est primary completion: Q2 17</li> </ul>
Adults with Uncontrolled Severe Asthma	Phase III <b>STRATOS 2</b>  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> 1:1 randomisation Global study – 11 countries including Japan	Primary endpoint: <ul style="list-style-type: none"> <li>• Annual asthma exacerbation rate</li> </ul> Key Secondary Endpoints: <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>• FSI: Q4 14</li> <li>• Est primary completion: Q3 17</li> </ul>
Adults with Oral Corticosteroid Dependent Asthma	Phase III <b>TROPOS</b>  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> 1:1 randomisation 5 countries	Primary endpoint: <ul style="list-style-type: none"> <li>• % Change in OCS dose</li> </ul> Key Secondary Endpoints: <ul style="list-style-type: none"> <li>• Proportion of subjects achieving final daily OCS dose <math>\leq 5</math> mg</li> <li>• Proportion of subjects achieving <math>\geq 50\%</math> reduction in OCS dose</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: 1Q15</li> <li>• Est primary completion: Q2 17</li> </ul>





# Roxadustat (HIF-PHI)

## Phase III CKD programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Anaemia in Chronic Kidney Disease Patients Not Receiving Dialysis	Phase III ANDES NCT01750190	N = 450-600	<ul style="list-style-type: none"> <li>ARM 1: Roxadustat</li> <li>ARM 2: Placebo</li> </ul> Global study – 16 countries	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by FibroGen</li> <li>FSI: Q4 12</li> <li>Est completion: Q1 16</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 – 14 countries	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by Astellas</li> <li>FSI: Q2 13</li> <li>Est completion: Q2 16</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	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by Astellas</li> <li>FSI: Q1 14</li> <li>Est completion: Q3 17</li> </ul>
	Phase III OLYMPUS NCT02174627	N = 2600	<ul style="list-style-type: none"> <li>ARM 1: Roxadustat</li> <li>ARM 2: Placebo</li> </ul> Global study – 26 countries	<ul style="list-style-type: none"> <li>MACE</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by AstraZeneca</li> <li>FSI: Q2 14</li> <li>Est completion: Q1 17</li> </ul>
Anaemia in CKD in Patients Receiving Dialysis	Phase III ROCKIES NCT02174731	N = 1425	<ul style="list-style-type: none"> <li>ARM 1: Roxadustat</li> <li>ARM 2: Epoetin alfa</li> </ul> Global study – 20 countries	<ul style="list-style-type: none"> <li>MACE</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by AstraZeneca</li> <li>FSI Q2 14</li> <li>Est completion Q1 17</li> </ul>
	Phase III SIERRAS NCT02273726	N = 1200	<ul style="list-style-type: none"> <li>ARM 1: Roxadustat</li> <li>ARM 2: Epoetin alfa</li> </ul> Global study – 4 countries	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by FibroGen</li> <li>FSI Q4 14</li> <li>Est completion Q4 16</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 – 14 countries	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by Astellas</li> <li>FSI Q4 14</li> <li>Est completion Q1 17</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 – 21 countries	<ul style="list-style-type: none"> <li>Haemoglobin response</li> </ul>	<ul style="list-style-type: none"> <li>Sponsored by FibroGen</li> <li>FSI Q4 13</li> <li>Est completion Q2 16</li> </ul>



# AZD9291 (Highly selective, irreversible EGFR TKI)

## NSCLC development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Advanced EGFRm NSCLC TKI failure +/- primary resistance mutation T790M	Phase III 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>	<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>FSI: Q1 13</li> <li>Enrolment complete (N=201 in extension portion)</li> <li>Next external presentation: Q2 15 (ELCC) final Phase I data</li> <li>Est external presentation: Q3 15 (WCLC)</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> <p>Global study – 5 countries</p>	<ul style="list-style-type: none"> <li>ORR</li> <li>PFS and OS secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>Enrolment complete (N=210)</li> <li>Est external presentation: Q3 15 (WCLC)</li> </ul>
Advanced EGFRm NSCLC TKI failure and primary resistance mutation T790M	Phase III AURA3  NCT02151981	N= 610	<ul style="list-style-type: none"> <li><b>ARM 1:</b> AZD9291 80mg QD</li> <li><b>ARM2:</b> pemetrexed 500mg/m2 + carboplatin AUC5 or pemetrexed 500mg/m2 + cisplatin 75mg/m2 (2:1 randomization)</li> </ul>	<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>FSI: Q3 14</li> <li>Enrolment open (N=60 enrolled)</li> <li>Est completion: Q2 16</li> <li>Est external presentation: TBD</li> </ul>
Advanced EGFRm NSCLC 1L	Phase III FLAURA  NCT02296125	N=650	<ul style="list-style-type: none"> <li><b>ARM1:</b> AZD9291 80mg</li> <li><b>ARM2:</b> erlotinib 150mg or gefitinib 250mg (dealers choice); 1:1 randomisation</li> </ul>	<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>FSI: Q1 15</li> <li>Enrolment open</li> <li>Est completion: 2017</li> <li>Est external presentation: TBD</li> </ul>
Advanced EGFRm NSCLC TKI failure	Phase Ib TATTON  NCT02143466	N~90	<ul style="list-style-type: none"> <li><b>ARM 1:</b> AZD9291 + MEDI4736</li> <li><b>ARM 2:</b> AZD9291 + AZD6094</li> <li><b>ARM 3:</b> AZD9291 + selumetinib</li> </ul>	<ul style="list-style-type: none"> <li>Safety, Tolerability, Pharmacokinetics and Preliminary Anti-tumour Activity</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 14</li> <li>Est completion: Q3 15</li> <li>Est external presentation: TBD</li> </ul>



# Selumetinib (AZD6244, ARRY142886) (MEK-inhibitor)

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
2nd Line KRAS <sup>m</sup> positive NSCLC	Phase III <b>SELECT-1</b>  NCT01933932	N = 634	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>ARM 2:</b> Placebo BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> </ul> <p>Global study – 26 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival is a secondary endpoint.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 13</li> <li>LSI: Q1 16</li> <li>Est completion: Q3 16</li> <li>Est. external presentation: Beyond planning horizon</li> </ul>
Metastatic Uveal Melanoma	Phase III <b>SUMIT</b>  NCT01974752	N = 128	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Selumetinib 75 mg BiD + dacarbazine 1000 mg/m<sup>2</sup> day 1 of every 21 day cycle</li> <li><b>ARM 2:</b> Placebo BiD + dacarbazine 1000 mg/m<sup>2</sup> day 1 of every 21 day cycle</li> </ul> <p>3:1 Randomisation Global study – 10 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>LSI: Q1 15</li> <li>Est completion: Q2 15</li> <li>Est external presentation: 2015</li> </ul>
Pediatric NF1 <sup>1</sup>	Phase II  NCT01362803 (current Ph I)	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>FSI: Q2 15</li> <li>LSI: Q4 15</li> <li>Est completion: Q4 2016</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Selumetinib (AZD6244, ARRY142886) (MEK-inhibitor)

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
2nd Line KRAS <sup>m</sup> negative NSCLC	Phase II <b>SELECT-2</b>  NCT01750281	N = 265	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Selumetinib 75mg BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>ARM 2:</b> Selumetinib 75mg BiD + docetaxel 60 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> <li><b>ARM 3:</b> Placebo BiD + docetaxel 75 mg/m<sup>2</sup> IV on day 1 of each 21 day cycle</li> </ul> <p>Global study – 7 countries</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival is a secondary endpoint.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 13</li> <li>LSI: Q4 14</li> <li>Est completion date: Q4 15</li> <li>Est external presentation: 2015</li> </ul>
Differentiated Thyroid Cancer	Phase III <b>ASTRA</b>  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>FSI: Q3 13</li> <li>LSI: Q2 15</li> <li>Est completion date: Q1 17</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Anti-PD-L1 (MEDI4736)

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Stage IIIB-IV NSCLC patients  PD-L1+ve Patients	<b>Phase II ATLANTIC</b>  NCT02087423	N = 188	<ul style="list-style-type: none"> <li>• <b>Cohort 1:</b> MEDI4736 IV Q2W (EGFR/ALK WT)</li> <li>• <b>Cohort 2:</b> MEDI4736 IV Q2W (EGFR/ALK M+)</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>• FSI: Q1 14</li> <li>• LSI: Q2 15</li> <li>• Est completion date: Q3 15</li> <li>• Est external presentation: 2016</li> </ul>
Unresectable Stage III NSCLC patients following platinum-based concurrent chemo-radiation therapy	<b>Phase III PACIFIC</b>  NCT02125461	N = 702	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> MEDI4736 IV Q2W</li> <li>• <b>ARM 2:</b> 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>• FSI: Q2 14</li> <li>• LSI: Q3 16</li> <li>• Est completion date: Q2 17</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Stage IIIB-IV 3L NSCLC patients who have not been tested positive for EGFR/Alk mutation	<b>Phase III ARCTIC</b>  NCT02352948	N =900	<p><b>Substudy A</b></p> <ul style="list-style-type: none"> <li>• <b>ARM 1:</b> MEDI4736 IV Q2W (PD-L1+ patients) vs</li> <li>• <b>ARM 2:</b> Standard of Care</li> </ul> <p><b>Substudy B</b></p> <ul style="list-style-type: none"> <li>• <b>ARM 3:</b> MEDI4736+tremelimumab (PD-L1 –ve patients) vs</li> <li>• <b>ARM 4:</b> Standard of Care</li> <li>• <b>ARM 5:</b> tremelimumab (PD-L1 –ve patients)</li> <li>• <b>ARM 6:</b> MEDI4736 (PD-L1 –ve patients)</li> <li>• Dose and Schedule for Combination Arm under discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Progression Free Survival (PFS)</li> <li>• Overall Survival (OS)</li> </ul>	<p><u>Monotherapy arm</u></p> <ul style="list-style-type: none"> <li>• FSI: Q1 15*</li> <li>• LSI: Q2 16</li> <li>• Est completion date: Q1 17 (PFS)</li> </ul> <p><u>Combination therapy</u></p> <ul style="list-style-type: none"> <li>• Planned FSI: Q2 15</li> <li>• LSI: Q316</li> <li>• Est completion date: Q3 17 (PFS)</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>



# Anti-PD-L1 (MEDI4736) continued...

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
<p>Stage IV Squamous NSCLC patients</p> <p>Biomarker-Targeted Second-Line Therapy</p>	<p><b>Phase II/III Lung Master Protocol</b></p> <p><b>NCT02154490</b></p> <p>Partnered with NCI, FNIH, and SWOG</p>	N = 400 (4736 substudy only)	<p>Umbrella study with 5 substudies based on biomarker expression</p> <ul style="list-style-type: none"> <li><b>Substudy A:</b> MEDI4736 (non-match for other biomarker driven substudies) IVQ2W vs. docetaxel</li> <li><b>Substudy B:</b> PI3K Inhibitor vs. docetaxel</li> <li><b>Substudy C:</b> CDK4/6 inhibitor vs. docetaxel</li> <li><b>Substudy D:</b> AZD4547 (FGFR inhibitor) vs. docetaxel</li> <li><b>Substudy E:</b> C-MET/HGFR Inhibitor + erlotinib vs. Erlotinib (Substudy is closed)</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>FSI: Q3 14</li> <li>LSI: Q3 15 (Phase II)</li> <li>Est completion date: Q1 16 (Phase II)</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
<p>Stage IIIB-IV NSCLC patients</p>	<p><b>Phase I/II Sequencing Study</b></p> <p><b>NCT02179671</b></p>	N = 72	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Iressa initially then switch to MEDI4736 IVQ2W</li> <li><b>ARM 2:</b> AZD9291 then switch to MEDI4736</li> <li><b>ARM 3:</b> Selumetinib + Docetaxel then switch to MEDI4736</li> <li><b>ARM 4:</b> 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>FSI: Q3 14</li> <li>LSI: Q2 15</li> <li>Est completion date: Q3 16</li> <li>Est external presentation: 2016</li> </ul>
<p>Adjuvant NSCLC patients IB (≥4cm) – IIIA Resected NSCLC (incl. EGFR/ALK pos)</p>	<p><b>Phase III ADJUVANT</b></p> <p><b>NCT02273375</b></p> <p>Partnered with NCIC CTG</p>	N=1100	<ul style="list-style-type: none"> <li><b>Arm 1:</b> MEDI4736 10mg/kg IV Q2W x 6 mos followed by MEDI4736 20 mg/kg IV Q4W x 6 mos</li> <li><b>Arm 2:</b> Placebo</li> </ul>	<ul style="list-style-type: none"> <li>mRFS</li> <li>OS</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 15*</li> <li>LSI: Q1 18</li> <li>Est completion date: Q3 20</li> <li>Est external publication: Beyond planning horizon</li> </ul>



# Anti-PD-L1 (MEDI4736) continued...

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Solid Tumors (Treme Phase I)	Phase 1 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>FSI: Q2 14</li> <li>LSI: Q2 15</li> <li>Est completion: Q3 15</li> <li>Est external publication: Q4 15</li> </ul>
SCCHN	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>Planned FSI: Q1 15</li> <li>LSI: Q3 15</li> <li>Est completion: Q1 17</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
SCCHN	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> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 15</li> <li>LSI: Q1 16</li> <li>Est completion: Q4 17 (DBL)</li> </ul>



# Anti-PD-L1 (MEDI4736) continued...

## Solid tumours development programmes

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Solid tumours	Phase I Partnered with KHK NCT02301130	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>FSI: Q4 14</li> <li>LSI: Q4 15</li> <li>Est completion: Q3 16 (DBL)</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>FSI: Q3 13</li> <li>LSI: Q4 14</li> <li>Est completion: Q2 16</li> </ul>





# Anti-CTLA-4 (tremelimumab)

## Mesothelioma development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Patients with unresectable pleural or peritoneal malignant mesothelioma	Phase II  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>• FSI: Q2 13</li><li>• LSI: Q4 14</li><li>• Est completion date: Q4 15</li></ul>



# Moxetumomab Pasudotox (anti-CD22)

## Haematological malignancies development

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
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>FSI: Q2 07</li> <li>LSI: Q1 14</li> <li>Est completion: Q1 15</li> <li>Est external presentation: Q4 15 (ASH)</li> </ul>
Adults with relapsed or refractory HCL	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>FSI: Q1 13</li> <li>Est completion: Q3 16</li> <li>Est external communication: Beyond planning horizon</li> </ul>
Children, Adolescents and Young Adults with refractory ALL or NHL	Phase I  NCT00659425	N = 55	<ul style="list-style-type: none"> <li>Multicentre, Dose Escalation Study</li> </ul>	<ul style="list-style-type: none"> <li>To estimate MTCD</li> <li>To characterize tolerability and safety profile</li> <li>To study clinical PK</li> <li>To observe anti-tumor activity</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 08</li> <li>LSI: Q2 14</li> <li>Est completion: Q4 15</li> <li>Est external presentation: Q2 15 (EHA)</li> </ul>
Pediatrics with relapsed or refractory pALL or lymphoblastic lymphoma of B-cell origin	Phase II  NCT02227108	N = 76	<ul style="list-style-type: none"> <li>Multicentre, Single-arm, Open label study</li> </ul>	<ul style="list-style-type: none"> <li>Primary: CRc rate (CR + CRi)</li> <li>Efficacy: MRD negative CRc rate, ORR (CR, CRi, PR), rate of eligibility for stem cell transplant, DCOR, DOR, PFS and OS</li> <li>Safety and tolerability</li> <li>Evaluate PK</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 14</li> <li>LSI: Q2 16</li> <li>Est completion: Q4 17</li> <li>Est external communication: Beyond planning horizon</li> </ul>



# CAZ AVI (BLI/cephalosporin SBI)

## Serious infections development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Hospitalised patients with complicated intra-abdominal infections	Phase III <b>RECLAIM-1</b>  NCT01499290	N = 493	<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> <p>Global study – 20 countries</p>	Co primary of: (i) clinical response at TOC (MITT) (ii) clinical response at TOC (i.e. clinically evaluable)	<ul style="list-style-type: none"> <li>FSI: Q1 12</li> <li>LSI: Q2 14</li> <li>Completion: Q3 14</li> <li>Status: Completed</li> <li>External presentation: Q2 15</li> </ul>
Hospitalised patients with complicated intra-abdominal infections	Phase III <b>RECLAIM-2</b>  NCT01500239	N = 577	<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> <p>Global study – 21 countries</p>	Co primary of: (i) clinical response at TOC (MITT) (ii) clinical response at TOC (i.e. clinically evaluable)	<ul style="list-style-type: none"> <li>FSI: Q2 12</li> <li>LSI: Q2 14</li> <li>Completion: Q3 14</li> <li>Status: Completed</li> <li>External presentation: Q2 15</li> </ul>
Hospitalised Adults With complicated urinary tract Infections	Phase III <b>RECAPTURE-1</b>  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> <p>Global study – 26 countries</p>	Per patient microbiological response at TOC in patients with a cUTI and a Gram-negative pathogen (i.e. mMITT)	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>LSI: Q3 14</li> <li>Est completion: Q2 15</li> <li>Est external presentation: Q3 15</li> </ul>
Hospitalised patients with complicated urinary tract infections	Phase III <b>RECAPTURE-2</b>  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> <p>Global study – 25 countries</p>	Per patient microbiological response at TOC in patients with a cUTI and a Gram-negative pathogen (i.e. mMITT)	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>LSI: Q3 14</li> <li>Est completion date: Q2 15</li> <li>Est external presentation: Q3 15</li> </ul>



# CAZ AVI (BLI/cephalosporin SBI)

## Serious infections development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Patients with complicated urinary tract infections and complicated intra-abdominal infections	Phase III <b>REPRISE</b>  NCT01644643	N = 333	<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> <p>Global study – 30 countries</p>	<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>FSI: Q1 13</li> <li>LSI: Q3 14</li> <li>Est completion date: Q2 15</li> <li>Est external presentation: 2015</li> </ul>
Hospitalised patients with complicated intra-abdominal infections	Phase III <b>RECLAIM-3</b>  NCT01726023	N = 416	<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> <p>Asia-focused study – 3 countries (China, Vietnam &amp; Korea)</p>	<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>FSI: Q1 13</li> <li>LSI: Q1 15</li> <li>Est completion date: Q1 15</li> <li>Est external presentation: 2015</li> </ul>
Hospitalised patients with nosocomial pneumonia infections, including hospital acquired pneumonia (HAP) and ventilator associated pneumonia (VAP)	Phase III <b>REPROVE</b>  NCT01808092	N =1660	<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> <p>Global study – 24 countries</p>	<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>FSI: Q2 13</li> <li>LSI: Q2 16</li> <li>Est completion date: Q3 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# BACE (AZD3293)

## Alzheimer's Disease development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Alzheimer's Disease Patients	Phase II/III <b>AMARANTH</b>  NCT02245737	N=1551	<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>• FSI: Q3 14</li><li>• Est completion date: Q2 19</li></ul>



## Early development programmes Q4 2014 Results Update



# LABA/LAMA/ICS (PT010)

## COPD & Asthma development program

Patient Population	Phase Study	# of patients	Design (B/BD)= Budesonide, FF = Formoterol fumarate)	Endpoint(s)	Status
Moderate to Severe COPD	Phase II NCT02196077	N = 160	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> BFF MDI 320/9.6 µg BiD</li> <li>• <b>ARM 2:</b> BFF MDI 160/9.6 µg BiD</li> <li>• <b>ARM 3:</b> BFF MDI 80/9.6 µg BiD</li> <li>• <b>ARM 4:</b> BD MDI 320 µg BiD</li> <li>• <b>ARM 5:</b> 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>• FSI: Q2 14</li> <li>• LSI: Q3 14*</li> <li>• Est completion: Q2 15</li> <li>* Clinically completed</li> </ul>
Adult Mild to Moderate Persistent Asthma	Phase II 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 weeEstimated 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>• FSI: Q2 14</li> <li>• LSI: Q4 14*</li> <li>• * Clinically completed</li> </ul>
Healthy volunteers	Phase I 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>• FSI: Q3 14</li> <li>• LSI: Q3 14*</li> <li>• Est completion: Q4 14</li> <li>* Clinically completed</li> </ul>



# LABA/LAMA/ICS (PT010)

## COPD & Asthma development program continued

Patient Population	Phase Study	# of patients	Design (B/BD)= Budesonide, FF = Formoterol fumarate)	Endpoint(s)	Status
Japanese Healthy Volunteers	<b>Phase I</b> <b>NCT02197975</b>	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<sup>0-12</sup> and C<sub>max</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 14</li> <li>• LSI: Q3 14*</li> <li>• Est completion: Q4 14</li> </ul> * Clinically completed
Japanese Healthy Volunteers	<b>Phase I</b> <b>NCT02196714</b>	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<sup>0-12</sup> and C<sub>max</sub></li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 14</li> <li>• LSI: Q3 14*</li> <li>• Est completion: Q4 14</li> </ul> * Clinically completed
Moderate to Very Severe COPD	<b>Phase III (Exacerbation study)</b>	N =10000	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-center 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> <li>• Overall Safety</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 15</li> <li>• LSI: Q2 17</li> <li>• Est completion: Q2 18</li> </ul>





# LABA/LAMA/ICS (PT010)

## COPD & Asthma development program continued

Patient Population	Phase Study	# of patients	Design (B/BD)= Budesonide, FF = Formoterol fumarate)	Endpoint(s)	Status
Moderate to Very Severe COPD	<b>Phase III (Lung function study)</b>	N = 1800	<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-center</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>• FSI: Q3 15</li> <li>• LSI: Q4 16</li> <li>• Est completion: Q2 17</li> </ul>
Moderate to Very Severe COPD	<b>Phase III (Long-term safety Extension for Japan)</b>	N =320	<p>Treatments (28-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, chronic dosing, and multi-center</p> <p>Estimated time from FSFV to DBL is approximately 26 months. Japan</p>	<ul style="list-style-type: none"> <li>• Change from baseline in morning pre-dose trough FEV1 over 52 weeks of treatment</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 16</li> <li>• LSI: TBD</li> <li>• Est completion: Q3 17</li> </ul>



# LABA/LAMA/ICS (PT010)

## COPD & Asthma development program continued

Patient Population	Phase Study	# of patients	Design (B/BD)= Budesonide, FF = Formoterol fumarate)	Endpoint(s)	Status
Moderate to Very Severe COPD	<b>Phase III</b>  (Long-term BMD and Ocular Safety)	N = TBD	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 TBD  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>• FSI: TBD</li><li>• LSI: TBD</li><li>• Est completion: TBD</li></ul>



# MABA (AZD2115)

## COPD clinical development program

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Healthy subjects	Phase I NCT01283984	N = 72	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> SAD AZD2115 as nebulised solution</li> <li>• <b>ARM 2:</b> Placebo</li> </ul>	<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>• FSI: Q1 11</li> <li>• Completed</li> <li>• Est external presentation: Q1 15</li> </ul>
Healthy subjects	Phase I NCT01445782	N = 36	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> SAD and MAD AZD2115 as nebulised solution</li> <li>• <b>ARM 2:</b> Placebo</li> </ul> <p>Conducted in UK.</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability following administration of multiple ascending inhaled doses</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 11</li> <li>• Completed</li> <li>• Est external presentation: Q1 15</li> </ul>
COPD	Phase IIa MISTRAL NCT01498081	N = 39	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD2115, 25 µg (iNeb)</li> <li>• <b>ARM 2:</b> AZD2115, 80 µg (iNeb)</li> <li>• <b>ARM 3:</b> AZD2115, 240 µg (iNeb)</li> <li>• <b>ARM 4:</b> indacaterol, 150 µg</li> <li>• <b>ARM 5:</b> indacaterol, 150 µg + tiotropium, 18 µg</li> <li>• <b>ARM 6:</b> placebo</li> </ul> <p>Conducted in Sweden and Poland.</p>	<ul style="list-style-type: none"> <li>• Peak and trough FEV1</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 12</li> <li>• Completed</li> <li>• Est external presentation: 2016</li> </ul>
COPD	Phase IIa NCT02109406	N = 30	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD2115, 50 µg BID (pMDI)</li> <li>• <b>ARM 2:</b> AZD2115, 100 µg BID (pMDI)</li> <li>• <b>ARM 3:</b> placebo</li> </ul> <p>Multiple-dose and 3-way crossover</p> <p>Conducted in US.</p>	<ul style="list-style-type: none"> <li>• FEV1 AUC(0-12) relative to baseline following chronic dosing on Day 15</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 14</li> <li>• Completed</li> <li>• Est external presentation: 2016</li> </ul>



# p38 inhibitor (AZD7624)

## COPD development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Healthy subjects	Phase I NCT01754844	N = 40	<b>SAD</b> <ul style="list-style-type: none"> <li>Five different dose levels investigated vs placebo</li> <li>Inhaled (nebulised) administration</li> </ul> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>Safety and tolerability following inhaled administration with single ascending dose</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 13</li> <li>Completed</li> <li>Est publication: 2015</li> </ul>
Healthy subjects and COPD	Phase I NCT01817855	N = 44	<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> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>Safety and tolerability in healthy subjects and patients with COPD following administration of multiple ascending inhaled doses</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 13</li> <li>Completed</li> <li>Est publication: 2015</li> </ul>
Healthy subjects	Phase Ib LPS NCT01937338	N = 60	<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> <p>Study conducted in the UK</p>	<ul style="list-style-type: none"> <li>Effect on neutrophils in induced sputum after oral inhalation of LPS, compared to placebo</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>Completed</li> <li>Est publication: 2015</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> <p>Study conducted in US, EU, South Africa &amp; South America</p>	<ul style="list-style-type: none"> <li>Effect on rate of exacerbations and lung function compared to placebo</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>LSI: Q4 15</li> <li>Est. publication: 2016</li> </ul>



# DPP1 inhibitor (AZD7986)

## COPD development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Healthy subjects and COPD	Phase I NCT02303574	N= up to 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> <li>NE activity</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>LSI: Q2 15</li> <li>Ongoing</li> <li>Est publication: 2016</li> </ul>
			<b>Part 2 (MAD)</b> <ul style="list-style-type: none"> <li>Three different dose levels investigated vs placebo in healthy volunteers and patients with COPD</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>FSI: Q2 15</li> <li>LSI: Q3 15</li> <li>Est completion: Q3 15</li> <li>Est publication: 2016</li> </ul>



# URAT1 (RDEA3170)

## Gout development programme

Patient Population	Phase Study	# of patients	Design	Primary endpoint	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>	• Efficacy and Safety at Week 24	<ul style="list-style-type: none"> <li>• FSI: Q3 13</li> <li>• LSI: Q4 13</li> <li>• Study complete</li> <li>• Est external presentation: H2 15</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>	• To compare the efficacy of RDEA3170 monotherapy at Week 16 with placebo and Allopurinol.	<ul style="list-style-type: none"> <li>• FSI: Q1 14</li> <li>• LSI: Q3 14</li> <li>• Est completion: Q2 15</li> <li>• Est external presentation: H2 15</li> </ul>
Combination therapy study with febuxostat in Subjects with Gout	Phase II NCT02246673	N = 200	<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> </ul> <p>*All arms include combination with 40 mg QD febuxostat for 7 days followed by combination with 80 mg QD febuxostat for 7 days</p>	• To assess the PK and PD profiles of RDEA3170 administered with febuxostat	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• LSI: Q1 15</li> <li>• Est completion: Q2 15</li> </ul>
Combination study with Febuxostat for Treating Gout or Asymptomatic Hyperuricemia in Japanese Patients	Phase II NCT02317861	N = 60	<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> </ul>	• To assess the PD and safety profiles of RDEA3170 administered with febuxostat	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• LSI: Q1 15</li> <li>• Est completion: Q2 15</li> </ul>



# Tenapanor/AZD1722 (NHE3 inhibitor)

## Phase II development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
End Stage Renal Disease (ESRD) patients on hemodialysis (HD) with Hyperphosphatemia	Phase IIb  NCT02081534	N = 150	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD1722, 1 mg BiD</li> <li>• <b>ARM 2:</b> AZD1722, 3 mg BiD</li> <li>• <b>ARM 3:</b> AZD1722, 10 mg BiD</li> <li>• <b>ARM 4:</b> AZD1722, 30 mg BiD</li> <li>• <b>ARM 5:</b> AZD1722, 3 mg OD</li> <li>• <b>ARM 6:</b> AZD1722, 30 mg OD</li> <li>• <b>ARM 7:</b> Placebo</li> </ul> <p>Conducted in the US, UK, Slovakia, Poland</p>	<ul style="list-style-type: none"> <li>• <b>Change in serum phosphate levels</b></li> <li>• Dose response relationship of AZD1722 on serum phosphate levels</li> <li>• Number of patients reaching serum phosphate goal levels vs placebo</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 14</li> <li>• LSI: Q3 14</li> <li>• Est completion: Q1 15</li> <li>• Est external presentation: Q4 15</li> </ul>
Patients with ESRD on HD	Phase IIa  NCT01764854	N = 86	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD1722, starting dose 45 mg BiD, down titration based on tolerability</li> <li>• <b>ARM 2:</b> Placebo</li> </ul> <p>Conducted in the US</p>	<ul style="list-style-type: none"> <li>• <b>Reduction in mean weekly interdialytic weight gain (IDWG)</b></li> <li>• Effect of AZD1722 on IDWG after weekly intervals of treatment</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 13</li> <li>• LSI: Q4 13</li> <li>• Completion: Q1 14</li> <li>• Est external presentation: Q1 16</li> </ul>
Patients with Chronic Kidney Disease (CKD), Type 2 Diabetes and Albuminuria	Phase IIa  NCT01847092	N = 140	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD1722, starting dose 15 mg BiD, dose escalation based on tolerability (max 60 mg BiD)</li> <li>• <b>ARM 2:</b> Placebo</li> </ul> <p>Conducted in the US, Germany</p>	<ul style="list-style-type: none"> <li>• <b>Changes in Urine Albumin to Creatinine Ratio (UACR)</b></li> <li>• Effects on UACR, eGFR, blood pressure, p-NT-proBNP, s-cardiac troponin, u-aldosterone, p-renin activity, and bioimpedance.</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 13</li> <li>• LSI: Q4 14</li> <li>• Completion date: Q2 15</li> <li>• Est external presentation: Q4 15</li> </ul>
Patients with constipation predominant Irritable Bowel Syndrome (IBS-C)	Phase IIb  NCT01923428	N = 360	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> AZD1722, 5 mg BiD</li> <li>• <b>ARM 2:</b> AZD1722, 20 mg BiD</li> <li>• <b>ARM 3:</b> AZD1722, 50 mg BiD</li> <li>• <b>ARM 4:</b> Placebo</li> </ul> <p>Conducted in the US</p>	<ul style="list-style-type: none"> <li>• <b>Percent overall responder for both CSBM and abdominal pain</b></li> <li>• Percent Complete Spontaneous Bowel Movement (CSBM) responders</li> <li>• Percent abdominal pain responders</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 13</li> <li>• LSI: Q2 14</li> <li>• Completed, PR issued by Ardelyx</li> <li>• Est external presentation: Q2 15</li> </ul>



# WEE-1 (AZD1775)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
p53 mutant PSR ovarian cancer	<b>Phase II</b>  NCT01357161	N = 120	<ul style="list-style-type: none"> <li><b>ARM 1:</b> carbo/paclitaxel + AZD1775 225mg</li> <li><b>ARM 2:</b> carbo/paclitaxel + placebo</li> </ul> <p>Global study 9 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>FSI: Q4 12</li> <li>LSI: Q3 14</li> <li>Est completion: Q1 15</li> <li>Est external presentation: Q2 16 (ASCO)</li> </ul>
p53 mutant PR ovarian Cancer	<b>Phase II</b>  NCT02272790	N = 177	<ul style="list-style-type: none"> <li><b>ARM 1:</b> chemotherapy + AZD1775 225mg</li> <li><b>ARM 2:</b> chemotherapy</li> </ul> <p>Global study</p>	<ul style="list-style-type: none"> <li>Progression Free Survival</li> <li>Overall Survival is a secondary endpoint.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 15</li> <li>LSI: Q4 15</li> <li>Est completion: Q2 16</li> <li>Est external presentation: Q2 17 (ASCO)</li> </ul>
Previously Untreated Stage IV Non-Squamous NSCLC with TP53 mutations	<b>Phase II</b>  NCT02087241	N = 130	<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> <p>Conducted in US</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>FSI: Q1 14</li> <li>LSI: Q1 16</li> <li>Est completion: Q4 16</li> <li>Est external presentation: Q2 17 (ASCO)</li> </ul>
Previously Treated NSCLC with TP53 mutations	<b>Phase II</b>  NCT02087176	N = 135	<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> <p>20-25 patient run in for safety and efficacy Conducted in US</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>FSI: Q1 14</li> <li>LSI: Q3 15</li> <li>Est completion: Q2 16</li> <li>Est external presentation: Q2 17 (ASCO)</li> </ul>





# TORC 1/2 (AZD2014)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
2 <sup>nd</sup> line ER+ Metastatic Breast Cancer	Phase II <b>MANTA</b>  NCT02216786  Partnered*	N = 300	<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>• Overall Survival is a secondary endpoint</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 14</li> <li>• LSI: Q4 15</li> <li>• Est completion: Q2 17</li> <li>• Est external presentation: Q4 17</li> </ul>
Advanced Solid Malignancies	Phase I  NCT01026402	N = 135	<ul style="list-style-type: none"> <li>• SAD and MAD with dose expansion. Continuous and intermittent dosing.</li> </ul> <p>Sites in UK</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability of AZD2014</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 09</li> <li>• LSI: Q2 14</li> <li>• Est completion: Q3 14</li> <li>• External presentation: Q2 12 (ASCO)</li> </ul>
ER+ Advanced Metastatic Breast Cancer	Phase I  NCT01597388	N = 92	<ul style="list-style-type: none"> <li>• SAD and MAD. Continuous and intermittent dosing schedules in combination with fulvestrant</li> </ul> <p>Sites in US</p>	<ul style="list-style-type: none"> <li>• Safety and tolerability of AZD2014 in combination with fulvestrant</li> <li>• Determination of steady state PK profile of AZD2014 in combination with fulvestrant</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 12</li> <li>• LSI: Q1 15</li> <li>• Est completion: Q3 15</li> <li>• External presentation: Q4 14 (SABCS)</li> </ul>



# FGFR (AZD4547)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Advanced cancer who have failed standard therapy or for whom no standard therapy exists	<b>Phase I</b>  NCT01213160	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> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Female ER+ Breast cancer patients whose disease has progressed following treatment with one prior endocrine therapy	<b>Phase II</b> <b>GLOW</b>  NCT01202591	N = 900	<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>• Recruitment closed Q2 14</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Advanced gastro-oesophageal cancer	<b>Phase II</b> <b>SHINE</b>  NCT01457846	N = 71	<ul style="list-style-type: none"> <li>• <b>Stratum A</b> (FGFR2 polysomy): AZD4547 vs paclitaxel randomised 1:1 (30 to 80 patients)</li> <li>• <b>Stratum B</b> (FGFR 2 low gene amplification: AZD4547 vs paclitaxel randomised 3:2 (25 to 80 patients)</li> <li>• <b>Stratum C</b> (FGFR2 high gene amplification: AZD4547 vs paclitaxel randomised 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>• Est external presentation: Q4 14</li> </ul>
Stage IIIB-IV NSCLC patients  Biomarker-Targeted Second-Line Therapy	<b>Phase II/III Lung Master Protocol</b>  NCT02154490  Partnered with NCI and SWOG	N = 318 (AZD4547 arm only)	<p>5-Arm study based on biomarker expression</p> <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>• FSI: Q4 14</li> <li>• Est completion date: Q2 22 (final data collection for primary outcome measure Ph III)</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>



# FGFR (AZD4547) continued

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Advanced cancer who have failed standard therapy or for whom no standard therapy exists	<b>Phase I</b>  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><li>• Est external presentation: Beyond planning horizon</li></ul>



# ISIS-AR (AZD5312)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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> <p>• <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</p> <p>• <b>Arm 2:</b> Prostate cancer patients who have initially responded to a second generation anti-hormonal therapy, but later relapsed (n=20).</p> <p>• <b>Arm 3:</b> Non-mCRPC patient population (eg. breast, bladder, ovarian) expansion, where AR pathway may be a potential factor (n=20).</p>	<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>FSI: Q2 14</li> <li>Est completion: Q2 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# AKT (AZD5363)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Breast and Gynaecological cancers with PIK pathway mutation	Phase I  NCT01226316	N = 20 per arm	Monotherapy AZD5363 480mg BD 4 days on 3 days off <ul style="list-style-type: none"> <li>• <b>Part C arm 1:</b> Breast with PIK3CA mutation</li> <li>• <b>Part C arm 2:</b> Gynaecological with PIK3CA mutation</li> <li>• <b>Part D arm 1:</b> Breast with AKT-1 mutation</li> <li>• <b>Part D arm 2:</b> Gynaecological with AKT-1 mutation</li> <li>• <b>Part D arm 3:</b> other tumours with AKT-1 mutation</li> </ul> Possible expansion up to 120 patients per arm	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> <li>• Response Rate (ORR)</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 13</li> <li>• Est completion: Q4 15</li> </ul>
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> Two strata: PIK3CA mutation positive vs Mutation not detected	<ul style="list-style-type: none"> <li>• Progression Free survival (PFS)</li> <li>• Response rate (ORR) &amp; overall survival are secondary endpoints</li> </ul>	<ul style="list-style-type: none"> <li>• Est completion: Q4 16</li> <li>• Est external presentation: Q2 15 (Part A dose escalation)</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>• Assessment of food effect ongoing with est completion: Q2 15</li> </ul>



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

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Women With Estrogen Receptor Positive HER-2 Negative Advanced Breast Cancer with and without PIK3CA mutations	<b>Phase I</b>  <b>NCT02260661</b>	N = 100	<b>Part A:</b> AZD8835 single agent dose escalation  <b>Part B:</b> AZD8835 single agent dose expansion  <b>Part C:</b> AZD8835 in combination with fulvestrant dose escalation  <b>Part D:</b> AZD8835 (at maximum tolerated dose or recommended phase II dose) in combination with fulvestrant dose expansion  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>• FSI: Q4 14</li><li>• Est completion: Q4 17</li><li>• Est external presentation: Beyond planning horizon</li></ul>



# MET (Savolitinib/AZD6094 )

## Phase I/II development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Advanced Cancer (All comers)	Phase I NCT01773018	N = 50	<ul style="list-style-type: none"> <li>• <b>Dose escalation study</b></li> </ul> Conducted in Australia	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 12</li> <li>• LSI: Q3 15</li> <li>• Est completion: Q4 15</li> <li>• Est external presentation: Q2 15 (AACR)</li> </ul>
Advanced Cancer (All comers)	Phase I NCT01985555	N =70	<ul style="list-style-type: none"> <li>• <b>Dose escalation study</b></li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 13</li> <li>• LSI: Q2 15</li> <li>• Est completion: Q4 15</li> <li>• Est external presentation: Q2 15 (AACR)</li> </ul>
Advanced Gastric Cancer (All comers)	Phase I NCT02252913	N =50	<ul style="list-style-type: none"> <li>• <b>Dose escalation study</b></li> </ul> Conducted in China	<ul style="list-style-type: none"> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q4 14</li> <li>• LSI: Q2 16</li> <li>• Est completion: Q4 16</li> </ul>
Papillary Renal Cell Cancer	Phase II NCT02127710	N =75	<ul style="list-style-type: none"> <li>• <b>Single arm study:</b> AZD6094 600mg QD</li> </ul> Conducted in UK, US, Canada	<ul style="list-style-type: none"> <li>• Overall Response Rate</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 14</li> <li>• LSI: Q2 15</li> <li>• Est completion: Q4 15</li> <li>• Est external presentation: Q2 16 (ASCO)</li> </ul>



# ATR (AZD6738)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Solid tumours	Phase I  NCT02264678	N = 119	• <b>MAD</b>  North America – 1 site Europe – 3 sites	• Safety and tolerability • Efficacy	• FSI: Q4 14 • Est completion: Q4 2016 • Est external presentation: 2017





# PI3Kb/d (AZD8186)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Advanced CRPC/SqNSCLC/TNBC and patients with known PTEN-deficient tumours	<b>Phase I</b>  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>• FSI: Q2 13</li><li>• Est completion: Q2 17</li><li>• Est external presentation: Q2 15 (AACR)</li></ul>



# STAT3 (AZD9150)

## Haematological malignancies development

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
HCC	<b>Phase I</b>  NCT01839604	N =64	<ul style="list-style-type: none"><li>• Dose-escalation and dose-expansion study</li><li>• IV</li></ul> Study conducted in Japan, Korea, Taiwan and Hong Kong	<ul style="list-style-type: none"><li>• Safety and tolerability .</li><li>• Recommended phase II dose and schedule</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q2 13</li><li>• Est completion: Q2 15</li><li>• Est external presentation: Q4 14</li></ul>
DLBCL	<b>Phase I/II*</b> <b>Partnered ISIS</b>  NCT01563302	N = 55	<ul style="list-style-type: none"><li>• Dose-escalation and dose-expansion study</li><li>• IV</li></ul> Study conducted in US	<ul style="list-style-type: none"><li>• Safety and tolerability .</li><li>• Recommended phase II dose and schedule</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q1 12</li><li>• Est completion: Q2 15</li><li>• Est external presentation: Q2 15</li></ul>



# EGFRM BBB (AZD3759)

## Lung cancer with LM and/or brain metastases

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
EGFRm+ NSCLC	<b>Phase I</b>  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>• FSI: Q4 14</li><li>• Est completion: Q4 16</li></ul>



# Infection early development

## Serious infections development programme

Compound	Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
ATM-AVI (Aztreonam-Avibactam)	Healthy volunteers	<b>Phase I</b> <b>NCT01689207</b>	N = 12  N = 56  N = 35	<ul style="list-style-type: none"> <li>Randomised, double-blind, 3-part study in healthy young and elderly volunteers given Aztreonam and Avibactam alone and in combination</li> <li><b>Part A:</b> single 1 hour IV infusions</li> <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> <li><b>Part C:</b> multiple (every 6 hr) IV infusions Days 1-10 in healthy young and elderly volunteers</li> </ul> <p>Single centre in UK</p>	<ul style="list-style-type: none"> <li>Safety/tolerability</li> <li>Pharmacokinetics (secondary)</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>LSI: Q1 15</li> <li>Est completion date: Q2 15</li> <li>Est presentation: Q3 15 (ICAAC)</li> </ul>
GyrAR (AZD0914)	Patients with uncomplicated gonorrhoea	<b>Phase II</b> <b>NCT02257918</b>  Partnered	N = 180	<ul style="list-style-type: none"> <li><b>Arm 1:</b> AZD0914 single oral dose 2000mg</li> <li><b>Arm 2:</b> AZD0914 single oral dose 3000mg</li> <li><b>Arm 3:</b> Ceftriaxone single IM dose 500mg</li> </ul> <p>Multi centre, US</p>	<p>Primary:</p> <ul style="list-style-type: none"> <li>Microbiological cure</li> </ul> <p>Secondary:</p> <ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>Est completion: Q2 15</li> <li>Est presentation: 2016</li> </ul>



# MPO (AZD3241)

## Parkinson's Disease development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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> Placebo</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>



# Histamine H3 receptor inverse agonist (AZD5213)

## Phase II clinical development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Tourette's Disorder	Phase IIa  NCT01904773	N = 18	<ul style="list-style-type: none"> <li><b>Part 1:</b> Single blind to determine tolerability and PK in adolescent age group (age ≥12 to &lt;18).</li> <li><b>Part 2:</b> Randomized, double-blind, six-period, three-treatment, cross-over                             <ul style="list-style-type: none"> <li><b>ARM 1:</b> AZD5213 low dose</li> <li><b>ARM 2:</b> AZD5213 high dose</li> <li><b>ARM 3:</b> Placebo</li> </ul> </li> </ul> <p>US only study, 9 sites</p>	<ul style="list-style-type: none"> <li>Improvement in Total Tic Severity Score (TTS) on the Yale Global Tic Severity Scale (YGTSS) at the last day of receiving treatment.</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>LSI: Q3 14</li> <li>Est completion: Q2 15</li> <li>Est external presentation: 2015</li> </ul>
Painful Diabetic Neuropathy	Phase IIa  NCT01928381	N = 32	<ul style="list-style-type: none"> <li><b>Part 1:</b> Training to improve reliability to assess pain.</li> <li><b>Part 2:</b> Randomized, double-blind, three-period, three-treatment, cross-over                             <ul style="list-style-type: none"> <li><b>ARM 1:</b> AZD5213 + Pregabalin</li> <li><b>ARM 2:</b> Pregabalin</li> <li><b>ARM 3:</b> Placebo</li> </ul> </li> </ul> <p>US only study, 9 sites</p>	<ul style="list-style-type: none"> <li>Significant change on average severity of pain (BPI-DPN).</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>LSI: Q4 14</li> <li>Est completion: Q2 15</li> <li>Est external presentation: 2015</li> </ul>



# NMDA (AZD8108)

## Phase I clinical development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Healthy Volunteers	<b>Phase I</b>  NCT02248818	N = 56	<ul style="list-style-type: none"><li>Randomized, double-blind, placebo-controlled</li></ul> Part 1 SAD 3 dosage-level cohorts Part 2 MAD 3 dosage-level cohorts  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>FSI Q4 14</li><li>LSI Q2 15</li><li>Est completion date Q2 15</li><li>Est. external presentation 2015</li></ul>



# NK3 Receptor Antagonist (AZD4901)

## Phase II clinical development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Polycystic Ovary Syndrome patients with amenorrhea or oligomenorrhea	<b>Phase IIa</b>  <b>NCT01872078</b>	N = 56	<ul style="list-style-type: none"><li>• <b>ARM 1:</b> AZD4901 20 mg QD</li><li>• <b>ARM 2:</b> AZD4901 20 mg BiD</li><li>• <b>ARM 3:</b> AZD4901 40 mg BiD</li><li>• <b>ARM 4:</b> placebo</li></ul> 28 day dosing period  Study sites in US, UK, Germany	<ul style="list-style-type: none"><li>• Change from baseline at day 7 in Luteinizing Hormone AUC(0-8)</li></ul> Secondary endpoints: <ul style="list-style-type: none"><li>• Change from baseline in free and total testosterone at day 7 &amp; day 28</li></ul>	<ul style="list-style-type: none"><li>• Completed: Q4 14</li><li>• External presentation: Q1 15 (ENDO) and Q2 15 (ESHRE)</li></ul>





# MedImmune

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## Early development programmes Q4 2014 Results Update



# Anti-IL-17RA (brodalumab)

## Asthma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Moderate to severe inadequately controlled high reversibility asthma	Phase II NCT01902290	N = 566	<ul style="list-style-type: none"><li>ARM 1: 210 mg brodalumab SC</li><li>ARM 2: placebo SC</li></ul>	<ul style="list-style-type: none"><li>Change in ACQ at wk 24</li></ul>	<ul style="list-style-type: none"><li>FSI: Q2 13</li><li>Est completion date: Q1 16</li></ul>



# Tralokinumab (anti-IL-13)

## IPF development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Adults with Idiopathic Pulmonary Fibrosis	Phase II NCT01629667	N = 186	<ul style="list-style-type: none"> <li><b>ARM 1:</b> Tralokinumab high dose IV</li> <li><b>ARM 2:</b> Tralokinumab low dose 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 72</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>FSI: Q4 12</li> <li>Est completion date: Q2 16</li> <li>Est external presentation: Beyond planning horizon</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 high dose 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 low dose IV</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>FSI: Q1 14</li> <li>Est completion date: Q4 15</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Tralokinumab (anti-IL-13)

## Atopic Dermatitis development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Adults with Atopic Dermatitis	Phase II  NCT02347176	N = 186	<ul style="list-style-type: none"><li>• <b>ARM 1:</b> Tralokinumab dose 1 SC</li><li>• <b>ARM 2:</b> Tralokinumab dose 2 SC</li><li>• <b>ARM 3:</b> Tralokinumab dose 3 SC</li><li>• ARM4: Placebo SC</li></ul> Global study – 6 countries	<ul style="list-style-type: none"><li>• Change from baseline in EASI at week 12</li></ul> Key Secondary Endpoints: <ul style="list-style-type: none"><li>• Percentage of subjects achieving IGA of 0 or 1</li><li>• Change from baseline in SCORAD</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>• FSI: Q1 15</li><li>• Est completion date: Q2 16</li></ul>



# Anti-TSLP (MEDI9929)

## Asthma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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 SC</li><li>• <b>ARM 3:</b> Medium dose MEDI9929 SC</li><li>• <b>ARM 4:</b> High dose MEDI9929 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>• FSI: Q2 13</li><li>• LSI: Q3 15</li><li>• Est completion date: Q3 16</li><li>• Est external presentation: Beyond planning horizon</li></ul>



# Sifalimumab (anti-interferon $\alpha$ )

## SLE development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Moderate-severe SLE patients	Phase II NCT01283139	N = 433 (final)	<ul style="list-style-type: none"> <li><b>ARM 1:</b> 200 mg IV MEDI-545 Q2W for 4 wks then Q4W for 44 wks</li> <li><b>ARM 2:</b> 600 mg IV MEDI-545 Q2W for 4 wks then Q4W for 44 wks</li> <li><b>ARM 3:</b> 1200 mg IV MEDI-545 Q2W for 4 wks then Q4W for 44 wks</li> <li><b>ARM 4:</b> placebo IV Q2W for 4 wks then Q4W for 44 wks</li> </ul>	<ul style="list-style-type: none"> <li>Proportion of subjects achieving a response in an SLE responder index at 12 months</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 11</li> <li>Completed</li> <li>External presentation: Q4 14 (ACR)</li> </ul>
SLE, DM or PM patients	Phase II NCT00979654	N = 260	<ul style="list-style-type: none"> <li>600 mg IV Medi-545</li> </ul> <p>Open label study</p>	<ul style="list-style-type: none"> <li>Evaluate long-term safety and tolerability of multiple IV doses of MEDI-545</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 10</li> <li>Est completion: Q1 15</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Anifrolumab (anti-type I IFN receptor)

## SLE development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Moderate-severe SLE patients	Phase II NCT01438489	N = 307 (final)	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> 300 mg IV MEDI-546 Q4W for 48 weeks</li> <li>• <b>ARM 2:</b> 1000 mg IV MEDI-546 Q4W for 48 weeks</li> <li>• <b>ARM 3:</b> placebo IV Q4W for 48 weeks</li> </ul>	<ul style="list-style-type: none"> <li>• Response in SLE responder index at 6 months</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 12</li> <li>• Est completion: Q3 14</li> <li>• Est external presentation: 2015</li> </ul>
Moderate-severe SLE patients	Phase II NCT01753193	N = 240	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> MEDI-546, IV Q4W for 104 weeks</li> </ul>	<ul style="list-style-type: none"> <li>• Open-label extension to evaluate long-term safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 13</li> <li>• Est completion: Q3 17</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Japanese SLE patients	Phase II NCT01559090	N = 17	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> <ul style="list-style-type: none"> <li>• Stage I: 100mg IV MEDI-546, single dose and multiple doses Q4W for 48 wks.</li> <li>• Stage II: 300mgIV, multiple doses Q4W for 104 wks</li> </ul> </li> <li>• <b>ARM 2:</b> <ul style="list-style-type: none"> <li>• Stage I: 300mg IV MEDI-546, single dose and multiple doses Q4W for 48 wks.</li> <li>• Stage II: 300mgIV, multiple doses Q4W for 104 wks</li> </ul> </li> <li>• <b>ARM 3:</b> <ul style="list-style-type: none"> <li>• Stage I: 1000mg IV MEDI-546, single dose and multiple doses Q4W for 48 wks.</li> <li>• Stage II: 1000mgIV, multiple doses Q4W for 104 wks</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Safety profile of MEDI-546: adverse events, vital signs, clinical laboratory assessments and ECGs</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q2 12</li> <li>• Est completion: Q3 14</li> <li>• External presentation: Q4 14 (ACR)</li> </ul>



# Anti-B7RP-1 (MEDI5872)

## SLE development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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>• FSI: Q2 12</li> <li>• Est completion date: Q2 16</li> <li>• Est external publication: Beyond planning horizon</li> </ul>
Primary Sjögren's Syndrome	Phase 2a  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>• FSI: Q1 15</li> <li>• Est completion date: Q1 15</li> <li>• Est external publication: Beyond planning horizon</li> </ul>





# Mavrilimumab (anti-GMCSF)

## RA development programme

Patient Population	Phase study	# of patients	Design	Endpoint(s)	Status
RA patients with an inadequate response to DMARDs	Phase II EARTH Explorer 1  NCT01706926	N = 326 (final)	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Mavrilimumab low dose SC</li> <li>• <b>ARM 2:</b> Mavrilimumab medium dose SC</li> <li>• <b>ARM 3:</b> Mavrilimumab high dose SC</li> <li>• <b>ARM 4:</b> Placebo</li> </ul> Global study (ex-US) on MTX background; 16 countries	<ul style="list-style-type: none"> <li>• DAS28 response at wk12</li> <li>• ACR 20 at wk 24</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 12</li> <li>• LSI: Q2 13</li> <li>• Completed: Q1 14</li> <li>• External presentation: Q4 14 (ACR)</li> </ul>
RA patients who have failed 1 or 2 anti-TNF for efficacy, intolerance or safety, OR an inadequate response to DMARDs	Phase II EARTH Explorer 2  NCT01715896	N = 138 (final)	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Mavrilimumab SC</li> <li>• <b>ARM 2:</b> golimumab</li> </ul> Global study (ex-US) on MTX background; 17 countries	<ul style="list-style-type: none"> <li>• ACR 20/50/70 at wk 24</li> <li>• DAS28 remission</li> <li>• Function (HAQ-DI)</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 13</li> <li>• LSI: Q2 14</li> <li>• Est completion: Q4 14</li> <li>• Est external presentation: Q4 15 (ACR)</li> </ul>
Eligible RA patients from Explorer 1 & 2	Phase II EARTH Explorer X  NCT01712399	N = 400 Projected	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Mavrilimumab SC</li> </ul> Open label extension of Explorer 1 & 2  Global study (ex-US) on MTX background; 23 countries	<ul style="list-style-type: none"> <li>• Safety and exploratory efficacy</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q1 13</li> <li>• OLE, Est completion date: Q4 15</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>
Healthy Japanese Subjects	Phase I  NCT02213315	N = 24 (final)	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> Mavrilimumab medium dose SC</li> <li>• <b>ARM 2:</b> Mavrilimumab high dose SC</li> <li>• <b>ARM 3:</b> Placebo SC</li> </ul> UK Study; Japanese subjects	<ul style="list-style-type: none"> <li>• Pharmacokinetic profile</li> <li>• Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>• FSI: Q3 14</li> <li>• LSI: Q3 14</li> <li>• Est completion: Q4 14</li> <li>• Est external presentation: Q4 15</li> </ul>



# Autoimmunity biologics early development

## Phase I/II clinical development programmes

Compound	Patient population	Phase study	# of patients	Design	Endpoint(s)	Status
Anti-CD19 mAb (MEDI-551)	Adults with Neuromyelitis Optica and Neuromyelitis Optica Spectrum Disorders (NMO/NMOSD)	Phase II/III NCT02200770	N = 212	<ul style="list-style-type: none"> <li>ARM 1: MEDI-551 IV</li> <li>ARM 2: placebo IV</li> <li>Open-label extension</li> </ul> <p>Global study</p>	<ul style="list-style-type: none"> <li><b>Primary:</b> Time to attack</li> <li><b>Secondary:</b> Attack rate, safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 15</li> <li>LSI: Q3 17</li> <li>Est completion: Q1 18</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
	Adults with Multiple sclerosis	Phase I NCT01585766	N = 28	<ul style="list-style-type: none"> <li>SAD (IV/SC)</li> </ul> <p>Global study</p>	<ul style="list-style-type: none"> <li>Safety, PK</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 12</li> <li>LSI: Q3 14</li> <li>Est completion date: Q1 15</li> <li>External data presentation: 2015</li> </ul>
Anti-CD40L (MEDI4920)	Healthy Adults	Phase I NCT02151110	N = 56	<ul style="list-style-type: none"> <li>Dose-escalation study, 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>FSI: Q2 14</li> <li>Est completion date: Q4 15</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Cardiovascular biologics early development

## Phase I clinical development programme

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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> </ul> <p>UK study site</p>	<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>FSI: Q4 13</li> <li>LSI: Q4 14</li> <li>Est completion date: Q4 14</li> </ul>



# Immuno-oncology portfolio

## Monotherapy early development programme

Compound	Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
PD-1 (MEDI0680)	Solid tumours	Phase Ia  NCT02013804	N = 72	<ul style="list-style-type: none"> <li>Dose Escalation (3+3) &amp; Expansion Study</li> <li>Study amended to explore Q2W schedule and doses &gt; 10mg/kg</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>LSI: Q2 15 (escalation)</li> <li>LSI: Q1 16 (expansion)</li> <li>Est completion date: Q3 16</li> <li>Est external presentation: Q2 15 (ASCO)</li> </ul>
PD-L1 (MEDI4736)	NSCLC, SCCHN HCC, pancreas, TNBCBC, gastro-esophageal, uveal melanoma, cutaneous melanoma, bladder, ovarian, GBM, SCLC, HPV/EBV+ anogenital, nasopharyngeal, MSI-High tumours	Phase I/II  NCT01693562	N = 802	<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 tumor 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 antitumor activity</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q3 12</li> <li>LSI: Q2 15</li> <li>Est completion: Q2 16</li> <li>Est external presentations: Q2 15 (ASCO)</li> <li>Further potential update: Q3 15 (ESMO)</li> </ul>
PD-L1 (MEDI4736)	Myelodysplastic syndrome	Phase I  NCT02117219	N = 70	<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>FSI: Q2 14</li> <li>LSI: Q2 15 (40 pts)</li> <li>LSI: Q4 15 (70 pts)</li> <li>Est completion date: Q4 15</li> <li>Est external presentation: Q4 15 (ASH)</li> </ul>



# Anti-PD-L1 (MEDI4736) + *Iressa* (gefitinib)

## NSCLC development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
<b>NSCLC (Escalation phase)</b>  <b>EGFR M+ NSCLC naïve to EGFR-TKI therapy (Expansion phase)</b>	<b>Phase I</b>  <b>NCT02088112</b>	N = 47	<b>Escalation phase</b> Standard 3+3 design with 28 days DLT period <ul style="list-style-type: none"> <li>Gefitinib (QD) + MEDI4736 IV</li> </ul> <b>Expansion phase</b> <ul style="list-style-type: none"> <li>Gefitinib (QD) + MEDI4736 IV recommended dose</li> </ul> Global study – 3 countries	<ul style="list-style-type: none"> <li>Safety</li> <li>Optimal biologic dose for the combination</li> </ul> <ul style="list-style-type: none"> <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>FSI: Q2 14</li> <li>LSI: Q1 15</li> <li>Est completion date: Q4 17</li> <li>Est external communication: Beyond planning horizon</li> </ul>



# Anti-PD-L1 (MEDI4736) + dabrafenib/trametinib (GSK)

## Melanoma development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
<p>Metastatic or unresectable melanoma</p> <p>BRAF mutation+ (Cohort A)</p> <p>BRAF Wild Type (Cohorts B&amp;C)</p>	<p>Phase I/II</p> <p>NCT02027961</p>	N = 69	<p><b>Dose Escalation:</b></p> <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> <p><b>Dose Expansion:</b></p> <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> <p>Global study – 2 countries</p>	<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>FSI: Q1 14</li> <li>LSI: Q4 15</li> <li>Est completion date: Q4 16</li> <li>Est external communication: Beyond planning horizon</li> </ul>



# Anti-PD-L1 (MEDI4736) + Anti-CTLA-4 (tremelimumab)

## Solid tumours development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
NSCLC (Immunotx naïve and Immunotx pretreated patient cohorts)	Phase Ib  NCT02000947	N = 301	<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 1-2 ex-US countries for expansion</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>FSI: Q4 13</li> <li>LSI: Q3 15</li> <li>Est completion date: Q4 17</li> <li>Est external presentation: Q2 15 (ASCO)</li> </ul>
Soft tissue sarcoma (STS), triple-negative breast cancer (TNBC), Bladder, small-cell lung cancer (SCLC), HPV+ anogenital cancers [Basket study]	Phase I  NCT02261220	N = 210	<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 5 tumour types</li> </ul> <p>US-only 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>FSI: Q4 14</li> <li>LSI: Q1 16</li> <li>Est completion date: Q1 17</li> <li>Est external presentation: Q3 15 (ESMO)</li> </ul>
SCCHN	Phase I  NCT02262741	N = 164	<ul style="list-style-type: none"> <li><b>Cohort A:</b> treatment-naïve, PD-L1+, combo tx</li> <li><b>Cohort B:</b> treatment-naïve, PD-L1-, combo tx</li> <li><b>Cohort C:</b> 2L-4L, PD-L1+, combo tx</li> <li><b>Cohort D:</b> 2L-4L, PD-L1+, treme only</li> </ul> <p>Global study – 5 countries</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>FSI: Q4 14</li> <li>LSI: Q1 16</li> <li>Est completion date: Q1 17</li> <li>Est external presentation: Q2 15 (ASCO)</li> </ul>



# Anti-PD-L1 (MEDI4736) + Anti-PD-1 (MEDI0680)

## Advanced malignancies development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	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></ul> <ul style="list-style-type: none"><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>FSI: Q2 14</li><li>LSI: Q3 15</li><li>Est completion date: Q4 16</li><li>Est external presentation: Q2 15 (ASCO)</li></ul>





# Murine Anti-OX40 (MEDI6469) + combinations

## Advanced malignancies development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Advanced malignancies	Phase I/II  NCT02205333	N = 212	<b>Dose-escalation phase</b> <ul style="list-style-type: none"><li>• MEDI6469 IV monotherapy</li><li>• MEDI6469 IV + MEDI4736 IV</li><li>• MEDI6469 IV + tremelimumab IV</li><li>• MEDI6469 IV + rituximab IV</li></ul>	<ul style="list-style-type: none"><li>• Determination of MTD</li><li>• Safety</li> <li>• Secondary endpoints include antitumour activity, pharmacokinetics, and immunogenicity</li></ul>	<ul style="list-style-type: none"><li>• FSI: Q3 14</li><li>• LSI: Q2 16</li><li>• Est completion date: Q3 16</li><li>• Est external communication: Beyond planning horizon</li></ul>



# OX40 agonist (MEDI6383)

## Advanced malignancies development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Advanced malignancies	Phase I  NCT02221960	N = 116	<b>Dose-escalation phase</b> <ul style="list-style-type: none"><li>MEDI6383 IV</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>FSI: Q3 14</li><li>LSI: Q3 16</li><li>Est completion date: Q4 16</li><li>Est external communication: Beyond planning horizon</li></ul>



# OX40 agonist (MEDI0562)

## Advanced malignancies development programme

Patient Population	Phase Study	# of Patients	Design	Endpoint(s)	Status
Advanced malignancies	Phase I NCT02318394	N = 50	<b>Dose-escalation phase</b> <ul style="list-style-type: none"><li>MEDI0562 IV</li></ul>	<ul style="list-style-type: none"><li>Safety</li><li>Determination of MTD</li> <li>Secondary endpoints include preliminary antitumor activity, pharmacokinetics, biomarker activity, and immunogenicity</li></ul>	<ul style="list-style-type: none"><li>FSI: Planned Q1 15</li><li>LSI: Q3 16</li><li>Est completion date: Q1 17</li><li>Est external communication: Beyond planning horizon</li></ul>



# Anti-CD19 (MEDI-551)

## Haematological malignancies development programme

Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Adults with relapsed or refractory B-cell chronic lymphocytic leukemia (CLL)	Phase II NCT01466153	N = 180	<ul style="list-style-type: none"> <li><b>ARM 1:</b> MEDI-551 IV (dose-level 1) and Bendamustine</li> <li><b>ARM 2:</b> MEDI-551 IV (dose-level 2) and Bendamustine</li> <li><b>ARM 3:</b> Rituxan and Bendamustine</li> </ul> <p>Open label study</p>	<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>FSI: Q1 12</li> <li>Est completion: Q1 16</li> <li>Est external presentation: Q4 15 (ASH)</li> </ul>
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> <p>Open label study</p>	<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>FSI: Q1 12</li> <li>Est completion: Q4 18</li> <li>Est external communication: Beyond planning horizon</li> </ul>
Adults with relapsed or refractory B-cell malignancies	Phase I/II NCT00983619	N = 193	<ul style="list-style-type: none"> <li><b>Arm A:</b> MEDI-551 IV dose escalation study and expansion (FL/CLL/DLBCL/MM)</li> <li><b>Arm B:</b> Medi-551 IV dose escalation and expansion (CLL)</li> <li><b>Arm C:</b> MEDI-551 IV dose escalation and expansion with Rituximab (DLBCL)</li> <li><b>Arm D:</b> MEDI-551 IV (CD20 refractory DLBCL)</li> </ul>	<ul style="list-style-type: none"> <li>MTD and efficacy</li> <li>Safety and tolerability</li> <li>Clinical activity of MEDI-551</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 10 (Arm A)</li> <li>FSI: Q2 14 (Amended Arms B – D)</li> <li>Est completion date: Q1 18</li> <li>Est external communication: Beyond planning horizon</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> <p>Conducted in Japan</p>	<ul style="list-style-type: none"> <li>MTD and efficacy</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 11</li> <li>Est completion: Q4 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
Adults with Relapsed/Refractory Aggressive B-cell Lymphomas	Phase I/II NCT02271945	N = 38	<ul style="list-style-type: none"> <li>MEDI-551 and MEDI0680 (AMP-514) IV</li> </ul> <p>Open Label Study</p>	<ul style="list-style-type: none"> <li>MTD and efficacy</li> <li>Safety and tolerability</li> <li>Clinical activity of MEDI55-in combination with MEDI0680</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 14</li> <li>Est completion: Q2 19</li> <li>Est external communication: Beyond planning horizon</li> </ul>



# Oncology biologics early development

## Solid tumours development programme

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Anti-Ang2 mAb (MEDI3617)	Solid tumours and ovarian cancer	Phase I  NCT01248949	N = 16	• MEDI3617 + bevacizumab dose escalation, administered Q3W, IV (US only)	• Safety and tolerability	• FSI: Q4 10 • Est completion: Q3 16 • Est external presentation: Beyond planning horizon
			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	• MEDI3617 + bevacizumab dose expansion in recurrent malignant glioma		
Anti-IGF ligand mAb (MEDI-573)	Patients with HR+ HER2-, 1 <sup>st</sup> line, metastatic breast cancer taking aromatase inhibitors	Phase III  NCT01446159	N = 176	<ul style="list-style-type: none"> <li>• <b>ARM 1:</b> MEDI-573 IV and Aromatase Inhibitor</li> <li>• <b>ARM 2:</b> Aromatase Inhibitor alone</li> </ul> <p>Open label study</p>	<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>• FSI: Q2 12</li> <li>• LSI: Q2 13</li> <li>• Est completion: Q1 18</li> <li>• Est external presentation: Beyond planning horizon</li> </ul>



# Oncology biologics early development

## Solid tumours development programme

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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  NCT01284231  Partnered	N = 51 max    N = 60 max, 20 in each cohort	<ul style="list-style-type: none"> <li>Dose-escalation (3+3), IV</li> <li>Dose expansion study, IV</li> </ul>	<ul style="list-style-type: none"> <li>MTD and safety profile</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 11</li> <li>Est completion: Q3 17</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
Anti-DLL4 mAb (MEDI0639)	Adults with advanced solid tumours including SCLC	Phase I  NCT01577745	N = up to 28 N = up to 32	<ul style="list-style-type: none"> <li>Dose-escalation study (3+3); IV</li> <li>Combination dose-escalation and expansion study; IV</li> </ul>	<ul style="list-style-type: none"> <li>MTD and safety profile</li> <li>MTD and safety profile in combination</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 12</li> <li>LSI: Q4 15</li> <li>Est completion: Q4 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>



# Infectious diseases biologics early development

## Phase I/II clinical development programmes

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	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>FSI: Q4 14</li> <li>Est completion: Q4 17</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
RSV sF+GLA-SE (MEDI7510)	Adults ≥ 60 yrs	Phase Ia NCT02115815 Phase Ib NCT02289820	N = 144  N = 264	<ul style="list-style-type: none"> <li>Double blind, randomized, placebo and active controlled cohort escalation study</li> <li>Route of administration: intramuscular</li> </ul>	<ul style="list-style-type: none"> <li>Safety and tolerability</li> <li>Humoral and cell-mediated immune responses</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>Est completion: Q3 14</li> <li>Est external presentation: Q1 15</li> <li>FSI: Q1 15</li> <li>Est completion: Q1 16</li> <li>Est external presentation: Beyond planning horizon</li> </ul>
Anti-RSV mAb-YTE (MEDI8897)	Healthy Adults  32-35 WK GA Infants	Phase Ia NCT02114268  Phase 1b/2a NCT02290340	N = 136  N = 90	<ul style="list-style-type: none"> <li><b>ARM 1:</b> MEDI8897 IV &amp; IM</li> <li><b>ARM 2:</b> Placebo</li> <li><b>ARM 1:</b> MEDI8897 IM</li> <li><b>ARM 2:</b> Placebo</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate Safety, Tolerability, PK and ADA</li> <li>Evaluate Safety, Tolerability, PK and ADA</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q2 14</li> <li>Est completion date: Q2 15</li> <li>External presentation: Q4 14 International RSV Symposium</li> <li>FSI: Q1 15</li> <li>Est completion date: Q2 2016</li> <li>Est external presentation: Q1 16</li> </ul>



# Infectious diseases biologics early development

## Phase I/II clinical development programmes

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
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>• FSI: Q3 14</li><li>• LSI: Q1 15</li><li>• Est completion: Q1 15</li><li>• External presentation: 2015</li></ul>





# Vaccines biologics early development

## Phase I/II clinical development programmes

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
LAIV RSV Paediatric Vaccine (MEDI-559)	Healthy 6-24 mo prevention of RSV disease in infants	Phase I/IIa  NCT00767416	N = 116	<ul style="list-style-type: none"> <li>Randomized, Double-Blind, Placebo-Controlled Study</li> <li>Route of administration: intranasal</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate the Safety, Tolerability, Immunogenicity and Viral Shedding</li> </ul>	<ul style="list-style-type: none"> <li>Completed</li> <li>MEDI-559 was found to be biologically active and immunogenic in the 6-24month seronegative pediatric population. An imbalance in MA-LRIs was observed and warrants expanded safety studies</li> </ul>
Pandemic flu library (MEDI-550)	Healthy adults	Phase I  NCT01175122 NCT00922259 NCT00516035 NCT00853255 NCT01674205 NCT00110279 NCT01443663 NCT00347672 NCT00488046 NCT01534468 NCT00722774 NCT00734175 NCT00380237  Partnered	Varies	<ul style="list-style-type: none"> <li>Administration of live attenuated influenza virus vaccine for the following strains: H2N2, H2N3, H5N1, H6N1, H7N3, H7N7, H9N2 (separate studies for each strain)</li> </ul> <p>Nasal administration</p> <p>US only</p>	<ul style="list-style-type: none"> <li>Safety and Immunogenicity</li> </ul>	<ul style="list-style-type: none"> <li>Study starts: 2005-2012</li> <li>Primary completion: 2005-2012</li> </ul>



# Neuroscience biologics early development

## Phase I development programmes

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Anti-amyloid beta mAb (MEDI1814)	Alzheimers 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>FSI: Q2 14</li><li>LSI: Q2 16</li><li>Est completion: Q4 16</li><li>Est external presentation: Beyond planning horizon</li></ul>



# Gastrointestinal biologics early development

## Phase I/II development programmes

Compound	Patient Population	Phase Study	# of patients	Design	Endpoint(s)	Status
Anti- $\alpha$ 4 $\beta$ 7 mAb (MEDI7183)	Moderate to Severe Ulcerative Colitis	Phase II NCT01694485	N = 360	<ul style="list-style-type: none"> <li>ARM 1: MEDI7183 dose level 1, SC</li> <li>ARM 2: MEDI7183 dose level 2, SC</li> <li>ARM 3: MEDI7183 dose level 3, SC</li> <li>ARM 4: MEDI7183 dose level 4, SC</li> <li>ARM 5: Matching Placebo, SC</li> </ul> <p>Global study - 19 countries</p>	<ul style="list-style-type: none"> <li>Remission at week 8 (Mayo Score)</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>Enrolment suspended due to logistical issues re-started Q4 13</li> <li>LSI: Q4 14</li> <li>Est completion: Q1 15</li> <li>Est external presentation: 2016</li> </ul>
	Moderate to Severe Crohn's Disease	Phase II NCT01696396	N = 252	<ul style="list-style-type: none"> <li>ARM 1: MEDI7183 low dose, SC</li> <li>ARM 2: MEDI7183 medium dose, SC</li> <li>ARM 3: MEDI7183 high dose, SC</li> <li>ARM 4: Matching Placebo, SC</li> </ul> <p>Global study - 12 countries</p>	<ul style="list-style-type: none"> <li>Remission at week 8 (CDAI &lt; 150)</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 12</li> <li>Enrolment suspended due to logistical issues re-started Q4 13</li> <li>LSI: Q4 14</li> <li>Est completion date: Q2 15</li> <li>Est external presentation: 2016</li> </ul>
	Japanese subjects with moderate to severe Ulcerative Colitis	Phase II NCT01959165	N = 48	<ul style="list-style-type: none"> <li>ARM 1: MEDI7183 low dose, SC</li> <li>ARM 2: MEDI7183 medium dose, SC</li> <li>ARM 3: MEDI7183 high dose, SC</li> <li>ARM 4: Matching Placebo, SC</li> </ul>	<ul style="list-style-type: none"> <li>Remission at week 8 (Mayo Score)</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q4 13</li> <li>LSI: Q1 15</li> <li>Est completion date: Q3 15</li> <li>Est external presentation: 2016</li> </ul>
Anti-IL-23 mAb MEDI2070	Patients with Moderate to Severe Crohn's Disease	Phase II NCT01714726	N = 121	<ul style="list-style-type: none"> <li>ARM 1: MEDI2070, IV (SC for OLE)</li> <li>ARM 2: Placebo, IV</li> </ul> <p>Global study - 9 countries</p>	<ul style="list-style-type: none"> <li>CDAI response at Week 8 defined by either a CDAI score of &lt; 150 or a CDAI reduction from baseline of at least 100 points</li> </ul>	<ul style="list-style-type: none"> <li>FSI: Q1 13</li> <li>LSI: Q1 14</li> <li>Est completion date: Q2 14</li> <li>Est external presentation: Q1 15</li> </ul>



# AstraZeneca Clinical Programmes Summary

## List of abbreviations

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

