2 SYNOPSIS

Name of Sponsor /Company:	Individual Study Table	(For National Authority Use	
AstraZeneca	Referring to Part	(101 max)	
	of the Dossier	02, /	
Name of Finished Product:			
NA.	Volume:		
Name of Active Ingredients:	Page:		
LAS100977 (LABA) nam ed Abediterol	_		
Title of Study: A PHASE IIA	, RANDOMISED, SI	IGLE DOSE, DOUBLE-BLIND,	
DOUBLE-DUMMY, 6WAY COMPLET	TE CROSS-OVER, PLA	CEBO CONTROLLED CLINICAL	
TRIAL TO ASSESS THE EFFICACY	, SAFETY AND TOLER	ABLITY OF 4 STRENGTHS OF	
LAS100977 QD COMPARED TO PL	ACEBO AND AN ACTIN	E COMPARATOR IN PATIENTS	
W ITH STABLE MODERATE TO SEV	ERE CHRONIC OBSTR	UCTIVE PULMONARY DISEASE	
(COPD)			
Investigators:			
Study sites:			
Bublication (mform co).			
None			
Sudied period (years):		Phase of developm ent: La	
Date study ninated (mst screening):22 A	ugust2011		
Date study maised (astpatient astvist	December2011		
Objectives:	Objectives:		
• To evaluate the pharm acodynam ics (bronchodilation) of single doses of inhaled LAS100977 0.625,			
2.5,5 and 10 µg once daily (QD) n COPD patents.			
• To assess the safety and to brability of the LAS 100977 doses in the same target population.			
• To assess the pharm acokinetics (PK) of LAS100977 in a sub-set of study patients.			

NameofSponsor/Company:	IndividualStudy Table	(For National Authority Use
AstraZeneca	Referring to Part	only)
	of the Dossier	2 ·
Name of Finished Product:		
NA.	Volume:	
Name of Active Ingredients:	Page:	
LAS100977 (LABA) nam ed Abediterol		

Methodology:

This was a phase IIa, random ised, double-blind, double-dum my, 6-way cross-over, placebo controlled, single dose administration, multicentre clinical study to assess the efficacy, safety and tolerability (and PK in a sub-set of patients) of LAS100977 0.625, 2.5, 5 and 10 µg administered QD by inhalation from the Genuair device. There was also an active comparator, indacaterol 150 µg administered QD by inhalation from the Onbrez Breezhaler device.

After signature of the Inform ed Consent Form (ICF), patients were withdrawn from their usual COPD therapy in accordance with the study protocol, prior to the Screening Visit. Patients could use inhaled short-acting β_2 -agonists (SABAs) as relieverm editation throughout the whole duration of the study. After washout from prior and prohibited therapies, a Screening Visit took place, 14 (±2) days before random isation. After the screening evaluation, eligible patients entered into a 14 (±2) day run-in period to assess patients' clinical stability. At the end of the run-in period, those patients still fulfilling the inclusion/exclusion criteria were assigned to one of the 6 treatment sequences according to a W illiam 's design for cross-over studies and using a balanced 1:1:1:1:1 random isation ratio.

The study consisted of 6 treatm entperiods of 1 treatm entday each separated by a washout period of 7 to 14 days. A minimum of 7 days between treatm entperiods was required. Each treatm entperiod corresponded to one study visit (Visit 1 to Visit 6) and the duration of each visit was 36 hours. A follow-up phone contact was performed 14 (± 2) days after the last investigational medicinal product (MP) administration (Visit 6) to monitor patients' safety. Patients completing the 6 treatm entperiods were considered completers, even in the absence of completing the follow-up contact.

B bod samples for PK determ inations were drawn at each treatment period in the sub-set of patients participating in the PK assessments.

Num berofpatients (planned and analysed): Planned: Approximately 92 patients were planned to be screened to achieve the goal of 60 random ised patients and 48 com pleters (8 patients on each of the 6 treatment sequences). Screened: 87 patients Random ised: 70 patients (20 patients participated in the PK sub study) Com pleted study: 63 patients Evaluated for safety: 70 patients Evaluated for efficacy (Intention-to-Treat [ITT] analysis): 70 patients Evaluated for efficacy (Per-Protocol PP] analysis): 69 patients

Diagnosis and main criteria for inclusion:

- Adulm ale and non-pregnant, non-lactating fem ale patients aged ≥ 40 years with stable m oderate to severe COPD (as defined by the G bbal Initiative for Chronic Obstructive Lung D isease [GOLD] guidelines).
- Post-sabutam of forced expiratory volume in 1 second (FEV₁) \geq 30% and < 80% of predicted norm alvalue and post-sabutam of FEV₁/forced vial capacity (FVC) at screening < 70%.
- Pre-dose FEV₁ value of first treatment period within the range of 80-120% of the FEV₁ measured at screening prior to sabutamol inhabition [i.e. within the interval: 0.8 x pre-sabutamol FEV₁ (screening) 12 x pre-sabutamol FEV₁ (screening)].
- Cumentorex-cigarette sm okers of≥ 10 pack-years.
- Patients with no history or current diagnosis of asthma.

NameofSponsor/Company:	IndividualStudy Table	(For National Authority Use	
AstraZeneca	Referring to Part	only)	
Name of Finished Product:			
NA.	Volum e:		
Name of Active Ingredients:	Page:		
LAS100977 (LABA) nam ed Abediterol			
No signs of a COPD exacerbation	within 6 weeks prior to the Sc	meening Visit.	
 No evidence of clinically signification allocations and the statements of the second se	ant respiratory and/or cardo	vascuar conditions or aboratory	
No other relevant pulm on ary disea	se orhistory of thoracic surge	ery.	
Testproduct, dose and m ode of adm	inistration, batch num ber	r, expiry date:	
Name:LAS100977			
Dosage form .Dry powder	enuar inaer		
Dose and regin en:1 puffof0.625 µg LA	S100977 atapproxim ately 09	0:00 (± 1h).	
Batch num ber: K20-175-L32 Exp	biry date: July 2012		
Name:LAS100977			
Administration route: 0 ralinhalation by G	enuair [®] inhaler		
Dosage form :Dry powder			
Dose and regin en: 1 puttof 2.5 µg LAS	100977 at approxim ately 09:0	0 (<u>+</u> 1h).	
Batch hum ber: K20-167-133 EX	JIY date: July 2012		
Name:LAS100977	@		
Administration route:0 ralinhalation by G	enuair inhaler		
Dosage form : Dry powder	Dosage form : Dry powder		
Batch num ber K20-179-140 Expire date July 2012			
Name:LAS100977			
Administration route: 0 ralinhalation by G	enuair inhaler		
Dose and regiment in puffof 10 up LAS 100977 at approximately 09:00 (+ 1b)			
Batch num ber: K20-182-L41 Expiry date : July 2012			
Duration of treatment:			
The planned treatment duration for the	is study was 6 days (one pe	er treatm ent period x 6 treatm ent	
Reference therapy, dose and mode of	of adm in istration , batch nu	ım ber, expiry date:	
Name: Indacaterol			
Dosage form . Dry powder in a hard gelet	The cancula		
Dose and regin en: 1 puff (150 µg indaca	aterol) at approxim ately 09:00	(+ 1h).	
Batch num ber: S0031-L44 Exp	piry date: Septem ber 2012		
Name:Placebo to LAS100977			
Administration route: 0 ralinhalation by G	enuair [®] inhaler		
Dosage form :Dry powder			
Dose and regin en: 1 puffofplacebo ata	pproximately $09.00 (\pm 1h)$.		
Batten num ber: K20-126-L31 Exp	ory date: July 2012		

Nam e of Sponsor /Com pany:	IndividualStudy Table	(For National Authority Use	
AstraZeneca	Referring to Part of the Dossier	on <i>l</i> y)	
Name of Finished Product:			
NA.	Volum e:		
Name of Active Ingredients:	Page:		
LAS100977 (LABA) nam ed Abediterol			
Name:Placebo to indacaterol	®		
Administration route:0 ralinhalation by 0	nbrez Breezhaler inhaler		
Dosage form : Dry powder in a hard geat	ne capsule		
Batch num ber: 108F0227-L42 Ex	ppioxinate y 09:00 (± 11). piry date: Septem ber 2012		
Criteria for evaluation ·			
Efficacy:			
<u>Primary Efficacy Variable:</u>			
Change from baseline to trough FE	V_1 on Day 2.		
Secondary Efficacy Variables:			
Change from baseline to trough FV	C atDay2.		
Change from baseline in normalise	ed FEV ₁ and FVC area und	er the curve over the 12-h period	
Immediately alter MP administration Change from baseline in normalise	on (AUC_{0-12}) at Day I.	er the curve over the 24-h period	
in m ediately after M P administration	on (AUC_{0-24}) at Day 1.	ter die eurie over die 24 m perbu	
• Change from baseline in normal	ised FEV_1 and FVC area	under the curve over the 12-h	
night-tin e period (AUC ₁₂₋₂₄) at Day 1	L.		
• Change from baseline in FEV ₁ and	FVC at each scheduled tim	e pointatDay 1 and Day 2.	
• Absolute FEV ₁ and FVC values at	each scheduled tim e point a	tDay 1 and Day 2.	
• Change from baseline in inspiratory capacity (IC) at each scheduled time point at Day 1 and Day 2.			
 Absolute L values acteach scheduled Change from baseline to the neak l 	TEV, and EVC at Day	<i>y Z</i> .	
 Tim e to peak FEV₁ and FVC atDay 	/1.		
Safety and Tolerability assessments incl	ided eliciting of adverse eve	nts (AES) and serious AES (SAE).	
the monitoring of haem atobgy, bbod bin	chem istry and urinalysis val	ies, the monitoring of glucose and	
potassium values, bbod pressure m east	urem ent, recording of 12-lead	d electrocardiogram s (ECGs), and	
physicalexam inations. Pregnancy tests were perform ed in fem ales of childbearing potential.			
Pharm acokinetic param eters:			
In a sub-set of 20 patients participating in the study, the following PK parameters of the 4 doses of			
LAS100977 were determ ined in plasm a foreach $\mathbb{M} P$:			
• AUC $_{(0+1)}$ = area under the plasm a concentration versus time curve from zero to the last quantifiable time point			
 AUC = area under the plasm a concentration versus tin e curve from zero to infinity 			
• C _{max} = m axin um plasm a concentration	 C_{max} = m axim um plasm a concentration 		
• $t_{max} = tim e to reach maximum plasma$	a concentration		
• $\Lambda_z = sm allest (term inal) elimination ra$	te constant		
$\mathbf{t}_{\mathbf{z}} = \mathbf{term} \text{ nate in nation half-life}$	constant		
• $\Lambda_1 = \text{argest (asies) emi nation rate • t. \lambda_2 = \text{elim nation half-life associated}$	with the bracet disposition r	ate constant	
 CL/f= totalbody charance from plas 	ma		
• $V_z/f = apparentvolum e of distribution$	during the term inalphase		

Nem e ef Green sere / Cem nemu	To district to a location made lo		
Name of sponsor / com pany:	Referring to Part	(FOR NALDHAI AUTORILY USE	
ASCIAZENECA	of the Dossier		
Name of Finished Product:			
NA.	Volume:		
Name of Active Ingredients:	Page:		
LAS100977 (LABA) nam ed Abediterol			
• MRT = m ean residence time			
If the term hald is position phase was wel	lobserved, λ_z , t _z , V $_z$ /fand AU	C were estimated.	
PK param eters of LAS100977 were ana dose group. PK evaluation and statistic	lysed by appropriate descrip calanalyses were carried ou	tive statistics and graphs for each t by the Alm imall Drug Metabolism	
and Pham acokinetics Departm ent follow	ving the specific PK protoco	land results were presented in a	
separate report.			
Statisticalmethods:	be worn northymod ustant	the TTT nonubtion (i.e. noticet	
who took at least 1 dose of \mathbb{M} D and he	es were periorin eu using 1	nost-dose value of FEV. from at	
least 1 treatment period). In addition	, the primary efficacy varial	ble was also analysed using the	
PP population to assess the robustness	ss of the findings from the i	IT population. All dem ographic	
and baseline characteristics, safety ou	tcom es and other variables	were analysed using the Safety	
population.			
	- J. house where where the second		
All statistical comparisons were 2-sid	ea nypotnesis tests and the	ne significance level was set at	
0.05. Due to the exploratory nature of	mis sudy mere was no mu.	ipicity adjustment.	
The primary and secondary efficacy	variables, except for time	to peak FEV_1 and FVC , were	
analysed by means of an analysis of	Ecovariance (ANCOVA) m c	odel for cross-over designs with	
sequence, treatm ent and period as i	ixed effect factors, patient	within sequence as a random	
effect, and the corresponding baseline value of each period as a covariate.			
Between-groups least squares (LS) m	ested using the appropriate	intervals (CI) were given for all	
pairwise comparisons.	cans and 55% confidence	TICINAD CI WELE STREIT DI ALL	
Time to peak FEV_1 was analysed descriptively.			
Safety outcomes (AEs, SAEs, aboratory parameters, bbod pressure and 12-lead ECGs) were			
sum marised for the Safety population by descriptive statistics across treatment groups.			
Desempondifinally analysis of the 4 dose bysis of LAS100977 was notified on the DD now bit			
The analysis of dose proportionality for A	$UC_{(0,\pm)}$ and C_{max} parameters a	atDay1 was perform ed by m eans	
of a fixed effectm odelwhich was carried	out in an exploratory m anne:	r.	
SUMMARY - CONCLUSIONS			
ELLCACY Kesules:	aceline to trouch FER at Da	C 12	
		<u>y 2</u>	
Before MP administration in each treatm	entperiod, m ean baseline F	EV1 values were sin ibracross all	
treatments. Following single dose MP administration, the LS mean change from baseline to trough			
FEV_1 at Day 2 showed a dose response of 0.066 L, 0.168 L, 0.198 L and 0.223 L for LAS100977			
0.625 μg, 2.5 μg, 5 μg and 10 μg, respec	tively, -0.035 L forplacebo an	nd 0.076 L for indacaterol150 µg.	
All doses of LAS100977 showed a st	atistically significantly greate	er in provem ent from baseline in	

NameofSponsor/ AstraZeneca					
AstraZeneca	Com pany:	IndividualStudy	Гаble	(For National A	uthority Use
		Referring to Part		only)	-
		of the Dossier		1	
Name of Finished P	roduct:				
N A		Volume			
14 21.		vo main e.			
Nom o of A attra Tag	md ion ta	Daga			
		Page:			
LASI00977 (LABA) ha					
LS mean trough FEV	V_1 (p < 0.0001) con	mpared to placebo	at Day	2. LAS100977	10 µg showed
statistically significant	dy greater in prove	ment in mean troug	gh FEV $_1$	compared to LAS	100977 2.5 µg
(least squares mear	ı difference [LSMI	D] of 0.056 L; p 0.	0064) ar	nd 0.625 µg (LSM	D of 0.157 L
p<0.0001). LAS100	977 5 μ g and LAS	3100977 2.5 µg also	show ed	l statistically sign:	ificantly greater
in provem ent in m ear	1 trough FEV1 com j	pared to LAS100977	ν 0.625 μ	g (LSMD of 0.132	L and 0.101 L
respectively; p < 0.000	1 forboth).				
W th the exception of	of LAS100977 0.62	25 ug. all other LAS	3100977	doses (2.5.1)g. 5	ug and 10 ug)
showed statistically s	in frant greater	in provement in me	an troug	FFV. compared	to indecatero
150 yr (SMD of 0)	ogni o 1991 and		all uougi	0001 for all three	dogo broh)
		i 0.148 L, respectiv	e⊥y;p<0		
Indacaterol 150 µg a	.so showed statist	rally significant gre	eater mp	provem ent n m ea	n trough FEV ₁
com pared to placebo	(LSMD of0.111 L;)	p <0.0001).			
n					
Treatment (A)					
	1		95% C	I for the D ifference	
-			<u> </u>		
			Lowe	r Upper	
Prim ary Treatm entCor	n parisons				<u>├</u>
LAS100977 10 μg	-P bcebo	0.259 (0.020)	0.219	0.298	<0.0001
LAS100977 5 NG	Dhasha	0.222 (0.020)	0.10/	0.272	<0.0001
μιστους / το μg	1 100000	0200 (0.020)	0.15	02,5	0.0001
- LAS100977 2.5 μg	Placebo	0.203 (0.020)	0.164	0.242	<0.0001
	Pheebo	0.102 (0.020)	0.062	0.141	<0.0001
HAD 1007 / / 0.625 UC					
<u> </u>					
AdditionalTreatm ent	Som parisons				
- AdditionalTreatm ent(- Indecaterol150 µg	Comparisons Pheebo	0.111 (0.020)	0.07:	0.150	<u><0.0001</u>
- AdditionalTreatment(- AdditionalTreatment(- Indacaterol150 µg	Comparisons 	0.111 (0.020)	0.07;	0.150	<0.0001
- AdditionalTreatment(- AdditionalTreatment(- Indacatexpl150 µg	Comparisons Pheebo	0.111 (0.020)	0.07	0.150	<u></u>
- AdditionalTreatment(- Indecate poll50 µg	<u>Pheebo</u>	0 111 (0 020)	0.07:	0.150	
- AdditionalTreatment(- Indecate poll50 µg	<u>Pheebo</u>	0 111 (0 020)	0.073	e 0.150	
AdditionalTreatment(Pheebo	0 111 (0 020)	0.07	. 0.150	
AdditionalTreatments	Pheebo Pheebo urables:Endpointsi	0 111 (0 020)	<u>0.075</u>	. 0.150	
- AdditionalTreatments - AdditionalTreatments - Indacaterent150 µg	Pheebe	0 111 (0 020)		. 0.150	
AdditionalTreatments	Pheebo	0 111 (0 020)	<u> </u>	. 0.150	
Secondary efficacy va	Pheebo	0.111 (0.020)	,	. 0.150	
Secondary efficacy va	Pheebo	0.111 (0.020)	,	. 0.150	
AdditionalTreatments	Pheebo	0.111 (0.020)	,	. 0.150	
AdditionalTreatments	Pheebo	0.111 (0.020)	,	<u>0.150</u>	
AdditionalTreatments	Pheebo	0.111 (0.020)		<u>0.150</u>	
Secondary efficacy va	Pheebe	0 111 (0 020)	<u> </u>	<u>0.150</u>	
Secondary efficacy va	Pheebo	0 111 (0.020)	<u> </u>	<u>0.150</u>	
Secondary efficacy va	Phoobe	0 111 (0.020)	<u>0.07</u>		
Secondary efficacy va	Phoobe	0 111 (0.020)	<u>0.07</u>		
Secondary efficacy va	Phoobe	0 111 (0.020)	<u>0.07</u>		

Nam e of Sponsor/Com pany: AstraZeneca Nam e of Finished Product: N A.	IndividualStudyTable Referring to Part of the Dossier Volum e:	(For National Authority Use only)	
Name of Active Ingredients: LAS100977 (LABA) named Abedirerol	Page:		
LAS100977 (LABA) nam ed Abediterol vs. Indacaterol 0.019 (0.3350) 0.089 (<0.0001) 0.091 (<0.0001) 0.119 (<0.0001) Study M /00977/25 AUC 0.12=area under the curve over the 12-h period in mediately afferm oming MP administration; AUC 0.24=area under the curve over the 12-h night-time period in mediately afferm oming MP administration; AUC 0.24=area under the curve over the 12-h night-time period in mediately afferm oming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm oming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm oming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on ming MP administration; AUC 0.24=area under the curve over the 24-h period in mediately afferm on manalysis of covariance model for cross-over designs with change from baseline in FEV1 variable as response, sequence, treatment group and period as a covariate. Source: Appendix 16-5, Tables 14.4.4.3, 14.4.5.3, 14.4.6.3, and 14.4.16.3. Change from Baseline in Norm alised FEV1 AUC 0.12, AUC 12-24 and AUC 0.24 atDay 1: A statistically significantly greater in provem ent in LS mean norm alised FEV1 AUC 0.12, AUC 12-24 and AUC 0.290 L:: p < 0.0001)			
statistically significantly greater in provement in LS mean normalised FEV ₁ AUC ₀₋₁₂ , AUC ₁₂₋₂₄ and AUC ₀₋₂₄ compared to indacaterol150 µg (LSMD ranging from 0.095 L to 0.157 L; all with $p < 0.0001$). Change from Baseline to Peak FEV ₁ atDay 1: All doses of LAS100977 showed a statistically significantly greater LS mean change from baseline to peak FEV ₁ (LSMD ranging from 0.185 L to 0.285 L; $p < 0.0001$) compared to placebo at Day 1. LAS100977 10 µg showed statistically significantly greater mean peak FEV ₁ compared to LAS100977 0.625 µg (LSMD of 0.100 L; $p < 0.0001$). LAS100977 2.5 µg and 5 µg also showed statistically significantly greater mean peak FEV ₁ com pared to LAS100977 0.625 µg (LSMD of 0.070 L and 0.072 L, respectively; $p = 0.0004$ and $p = 0.0002$, respectively). LAS100977 2.5 µg, 5 µg and 10 µg showed statistically significant greater mean peak FEV ₁ compared to indacaterol150 µg (LSMD of 0.089 L, 0.091 L and 0.119 L, respectively; $p < 0.0001$ for all three dose levels). Indacaterol150 µg showed statistically significantly greater mean peak FEV ₁ compared to placebo (LSMD of 0.166 L; $p < 0.0001$).			
Absolute FEV_1 values and Change from Baseline in FEV_1 at Specific Time Points at Day 1 and Day 2: The greatest LS mean change from baseline in FEV_1 occurred between 4 to 6 hours post-dose across all doses of LAS100977, but occurred slightly earlier for placebo and inducaterol 150 µg 1 to 3 hours post-dose. All doses of LAS100977 showed a statistically significantly greater in provement in LS mean FEV ₁ compared to placebo at all-time points on Days 1 and 2 ($p < 0.0001$ to $p=0.0114$).			
Absolute Inspiratory Capacity (\mathbb{C}) values and Change from Baseline in \mathbb{C} at each scheduled time point at Day 1 and Day 2: Alldoses of LAS100977 showed a statistically significantly greater in provement in m ean \mathbb{C} values compared to placebo at Day 1, 4 hours post-dose (all p-values <0.0001) and at Day 2, 24 hours post-dose (p-values <0.0001 to 0.0004).			
Secondary efficacy variables: Endpoints Analysis of FVC parameters showed	<u>based on FVC</u> sin ilar results to FEV ₁ parar	neters, with LAS100977 showing	
statistically significantly greater in pro p=0.0002), statistically significantly great and AUC ₀₋₂₄ ($p < 0.0001$) com pared to p peak FVC ($p < 0.0001$ to p=0.0110) com baseline in FVC occurred between 4 to	vem ent in trough FVC com ter in provem ent in LS m ean acebo, statistically significant pared to placebo at Day 1. T <u>6 hours post dose for LAS 10</u>	pared to placebo $(p < 0.0001 to normalised FVC AUC_{0-12}, AUC_{12-24})$ by greater in provem ent in LS m ean the greatest LS m ean change from 0977 0.625 μ g and 2.5 μ g, slightly	

NameofSponsor/Company:	Individual Study Table	(For National Authority Use
AstraZeneca	Referring to Part	on ly)
	of the Dossier	
Name of Finished Product:		
NA.	Volum e:	
Name of Active Ingredients:	Page:	
LAS100977 (LABA) nam ed Abediterol		

hterforthe higherdoses at 14 hours post-dose.

Safety and Tolerability Results:

Adverse events :

O verall, 32 (45.7%) of the 70 patients who participated in the study reported 57 TEAEs. The m ajority of these TEAEs were considered by the investigator to be of either mild (37 events) or moderate (17 events) intensity, while 3 were considered to be severe. The percentage of patients who experienced at least one TEAE was 10.4%, 7.6%, 9.1% and 13.4% following LAS100977 0.625 µg, 2.5μ g, 5μ g and 10μ g, respectively, compared to 13.2% following placebo and 14.7% following indacaterol150 µg. The percentage of patients with at least one MP-related TEAE was <5% for each LAS100977 dose level and was similar to the percentages observed with placebo (2.9%) and indacaterol150 µg (2.9%).

W ith increasing doses of LAS100977 there were no relevant differences in the overall number of patients with at least one MP-related TEAE, with 1.5% of patients experiencing at least one MP-related TEAE following LAS100977 0.625 µg and 3.0% of patients following LAS100977 2.5 µg, LAS100977 5 µg and LAS100977 10 µg. The most frequently reported TEAEs were nasopharyngitis (15 events in 14 patients; 20.0%) and headache (8 events in 7 patients; 10%), and the most frequently reported MP-related TEAE was headache (2 events in 2 patients; 2.9%).

No deaths occurred during the study. Two patients experienced treatmentem eigent SAEs which were considered not related to MP:1 patient following LAS100977 5 μ g (COPD exacerbation) and 1 patient following LAS100977 10 μ g (dizziness). The COPD exacerbation led to discontinuation from the study. Three patients were discontinued from the study due to TEAEs:1 patient following LAS100977 0.625 μ g (nasopharyngitis), 1 patient following LAS100977 5 μ g (COPD exacerbation) and 1 patient following indacaterol150 μ g (dyspnoea).

Safety aboratory results:

No clinically relevant changes in haem atobgy, biochem istry and urinalysis param eters were observed at the end of the study and no safety aboratory results constituted a TEAE. No clinically relevant changes versus pre-dose and versus placebo were observed in serum potassium and blod glucose over time following any dose of LAS 100977.

Vialsigns (bbod pressure):

No clinically relevant changes versus pre-dose and versus placebo were observed in systolic and diastolic blod pressure overtine following any dose of LAS100977 or indacaterol. Also no LAS100977 dose-related or treatment-related trends were evident.

<u>12-lead ECGs:</u>

No clinically relevant changes from pre-dose and from placebo were identified for LAS100977 doses and indacaterol in ECG parameters, including heartrate, over time, and no LAS100977 dose-related or treatment-related trends were evident. No QTCF changes from baseline >60 m sec and no QTCF >500 m sec were observed in any treatment group. The num ber of patients with QTCF >480 m sec and

NameofSponsor/Company:	Individual Study Table	(For National Authority Use
AstraZeneca	Referring to Part	only)
	of the Dossier	
Name of Finished Product:		
NA.	Volume:	
Name of Active Ingredients:	Page:	
LAS100977 (LABA) nam ed Abediterol	-	

of m ale subjects with QTcF >450 m sec was very bw, with no differences or trends observed between treatment groups, including placebo and indacaterol. As this was not a thorough QT study, interpretation of QTcB and QTcF data should be made with caution.

Pharm acokinetic Results:

Maximum plasma concentrations of LAS100977 were reached between 0.5 to 1.5 hours following dosing with similar values for t_{max} across all doses. After reaching C_{max} , plasma LAS100977 concentrations declined in a biexponential manner describing two well-defined disposition phases, the fastest phase with mean associated half-life values $(t_{\chi}\lambda_1)$ of about 3 hours and the sbwest (term inal) phase with mean associated half-life values (t_{χ}) between 15 to 27.5 hours. There were no relevant trends in the estimated $t_{1\chi}\lambda_1$ or t_{χ} values, with the exception of t_{χ} at the bw 0.625 µg dose, which was bridger in comparison to the higher 2.5, 5 or 10 µg doses. However, it should be noted that limited concentration data were available for the bw dose at the latest kinetic time points and that t_{χ} could be only estimated in five patients. It should also be noted that in all cases the t_{χ} and $t_{\chi}\lambda_1$ values reported were calculated over a period of time of less than two half-lives. S in larly to $t_{\chi}\lambda_1$ and t_{χ} , there was no apparent trend in the values obtained for CL/f and V_z/f across alladministered doses, overall suggesting a linear PK behaviour of LAS100977 within the range of LAS100977 doses studied. Analysis of the C_{max} and AUC $_{0.4}$ values of LAS100977 showed that these parameters increased proportionally with administered dose within the range of 0.625 to 10 µg LAS100977.

CONCLUSIONS:

DATE OF REPORT: 17 January 2013