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Sponsor

Novartis

Generic Drug Name

Indacaterol/ QAB149

Trial Indication(s)

Chronic obstructive pulmonary disease (COPD)

Protocol Number

CQAB149B2401

Protocol Title

A randomized, double-blind, parallel-group, 26-week study comparing the efficacy and safety of indacaterol (Onbrez® Breezhaler® 150 μ g o.d.) with salmeterol/fluticasone propionate (Seretide® Accuhaler® 50 μ g/500 μ g b.i.d.) in patients with moderate chronic obstructive pulmonary disease

Clinical Trial Phase

Phase IV

Phase of Drug Development

Phase IV

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Study Start/End Dates

29-Feb-2012 (First Patient First Visit) to 13-Feb-2014 (Last Patient Last Visit)

Reason for Termination (If applicable)

N/A

Study Design/Methodology

This was a parallel group, 26 week, randomized, double blind, double dummy, multi-center, non-inferiority study to compare the efficacy and safety of indacaterol 150 µg o.d. with salmeterol 50 µg/fluticasone propionate 500 µg b.i.d. in patients with moderate (Stage II) COPD who on entry to the study were being treated with salmeterol 50 µg/fluticasone propionate 500 µg multi-dose dry powder inhaler (MDDPI).

Patients underwent a screening period of 14 days before they were randomized (Visit 2, Day 1) in a 1:1 ratio to receive either inhaled indacaterol 150 µg o.d. and a placebo device to salmeterol/fluticasone propionate or salmeterol 50 µg/fluticasone propionate 500 µg b.i.d. and a placebo device to indacaterol for a treatment period of 26-weeks. The randomization was stratified overall and in the subgroup of patients undergoing inspiratory capacity assessments by smoking status (current/ex-smoker).

Centers

81 sites in 9 countries: Argentina (32), Colombia (4), Italy (21), Malaysia (1), Mexico (5), Netherlands (3), Spain (7), Switzerland (4), United Kingdom(4)

Publication

None

Objectives:

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Primary Objective:

The Primary objective: to demonstrate the non-inferiority of indacaterol (150 μ g o.d.) to salmeterol 50 μ g /fluticasone propionate 500 μ g b.i.d. as measured by trough forced expiratory volume in one second (trough FEV1) after 12 weeks (Day 85) of treatment in patients with moderate COPD and having had no exacerbations in the year before entry into the study. Trough is defined as the mean of the FEV1 measurements at 23 h 10 min and 23 h 45 min post the Day 84 morning dose.

Secondary Objectives:

- 1. To evaluate the effect of indacaterol 150 μg o.d. as compared to salmeterol/fluticasone propionate 50 μg/500 μg b.i.d. on trough FEV₁ at multiple, pre-defined visits
- 2. To evaluate the effect of indacaterol 150 μg o.d. as compared to salmeterol/fluticasone propionate 50 μg/500 μg b.i.d. on standardized FEV₁AUC_{5 min- 4 h} at Weeks 12 and 26 (Days 84 and 182, respectively)
- 3. To evaluate the effect of indacaterol 150 μ g o.d. as compared to salmeterol/fluticasone propionate 50 μ g/500 μ g b.i.d. on FEV₁ and FVC at multiple, pre-defined, scheduled time points
- 4. To evaluate the effect of indacaterol 150 μg o.d. as compared to salmeterol/fluticasone propionate 50 μg/500 μg b.i.d. on the total score of the Transition Dyspnea Index (TDI) at Weeks 12 and 26 of treatment
- To evaluate the effect of indacaterol 150 μg o.d. as compared to salmeterol/fluticasone propionate 50 μg/500 μg b.i.d. on the total score of the St George's Respiratory Questionnaire for COPD Patients (SGRQ-C) at Weeks 12 and 26 of treatment
- 6. To evaluate the effect of indacaterol 150 μ g o.d. as compared to salmeterol/fluticasone propionate 50 μ g/500 μ g b.i.d. on the mean number of puffs of rescue medication use, and percentage of days without rescue medication use over the 26-week treatment period
- 7. To evaluate the effect of indacaterol 150 μg o.d. as compared to salmeterol/fluticasone propionate 50 μg/500 μg b.i.d. on COPD exacerbations over the 26-week treatment period
- 8. To evaluate the effect of indacaterol 150 μ g o.d. as compared to salmeterol/fluticasone propionate 50 μ g/500 μ g b.i.d. on safety in terms of adverse events, ECG, laboratory parameters (hematology, biochemistry and urinalysis), and vital signs over the 26-week treatment period.

Test Product (s), Dose(s), and Mode(s) of Administration

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Investigational therapy

Indacaterol 150 µg capsules once daily for inhalation, delivered via the Novartis single dose dry power inhaler (SDDPI) (Onbrez[®] Breezhaler[®])

Reference therapy

Salmeterol 50 µg /fluticasone propionate 500 µg for inhalation delivered via a proprietary multi dose dry powder inhaler (MDDPI) device (Seretide® Accuhaler®) twice daily

Statistical Methods

Four sets were defined for analysis: the randomized set, the full analysis set (FAS), the per-protocol set (PPS) and the safety set. The primary analysis set for efficacy was PPS. The FAS was used for supportive analysis of the primary objective and for the analysis of all other efficacy variables. The safety set was used in the analysis of all safety variables. The number of patients in each analysis set was summarized by treatment group and in total.

The primary variable was "Trough FEV₁" after 12 weeks of treatment (measured at Visit 7 [Day 85]) with trough being defined as the average of the 23 h 10 min and the 23 h 45 min values taken in the clinic on Day 85. The primary variable (imputed with last observation carried forward [LOCF]) was analyzed using a mixed model for the PPS. The model included treatment as a fixed effect with the baseline FEV₁ measurement, FEV₁ prior to inhalation and FEV₁ 10-15 min post inhalation of salbutamol (components of SABA reversibility at Visit 1) as covariates. To reflect the randomization scheme the model also included the baseline smoking status (current/ex-smoker) and country as fixed effects with center nested within country as a random effect.

Estimates of least squares means and the estimate of the treatment contrast for indacaterol 150 µg minus salmeterol 50 µg /fluticasone propionate 500 µg were displayed along with the associated 95% confidence interval (CI).

Non-inferiority of indacaterol to salmeterol/fluticasone propionate was demonstrated if the 95% CI for the mean FEV₁ difference of indacaterol minus salmeterol/fluticasone propionate lies entirely to the right of (higher than) -60 mL.

Supportive analyses were performed for the FAS with trough FEV₁ at Week 12 imputed with LOCF and for the FAS and PPS without imputation with LOCF.

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Other secondary efficacy variables were summarized and using the similar mixed model as specified for the primary analysis for the FAS only. No adjustment for multiplicity was made.

All safety data was summarized for the safety set. Subgroup analyses by age group (<65 years / ≥65 years) and by sex was performed for AEs. All treatment emergent adverse events, including COPD exacerbations, were summarized and listed.

For all of the laboratory data (hematology and biochemistry) minimum/maximum values were summarized with standard descriptive statistics including changes from baseline and with shift tables of frequencies (n (%) of patients) relative to the normal ranges between baseline and worst post-baseline values. The number of patients with abnormal urinalysis dipstick result was also summarized. Furthermore, notable criteria were defined for selected laboratory tests based on FDA guidelines. The number of patients with newly occurring or worsening clinically notable laboratory values was summarized by parameter and treatment. All laboratory data was listed with values outside normal ranges flagged. All clinically notable values were listed separately. To evaluate potential drug-induced liver injury, the numbers of patients with newly occurring or worsening elevations in liver function tests at any time post-baseline were summarized.

Study Population: Key Inclusion/Exclusion Criteria

Inclusion criteria:

- 1. Male and female adults aged ≥40 years, who had signed an Informed Consent Form prior to initiation of any studyrelated procedure
- 2. Outpatients with moderate COPD (Stage II) as classified by the GOLD Guidelines, 2010:
- Post-bronchodilator FEV₁ <80% and ≥50% of the predicted normal value at Visit 1 (Day -14)
- Post-bronchodilator FEV₁/FVC <70% at Visit 1 (Day -14). Post-bronchodilator refers to 10-15 min after inhalation of 400 μg (4x100 μg) salbutamol
- Where FEV₁ post bronchodilator value was less than the FEV₁ pre-bronchodilator value, patients were asked to return for a repeat assessment no earlier than the following morning, and no later than within a few days. If two consecutive

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post bronchodilator values of FEV₁ were less than the corresponding pre-bronchodilator FEV₁ values, the patient were not allowed to proceed in this study

- 3. Able to perform spirometry assessments in accordance with ATS/ERS criteria for acceptability and repeatability
- 4. Current or ex-smokers who had a smoking history of at least 10 pack years (e.g., 10 pack years = 1 pack /day x 10 years, or ½ pack/day x 20 years). An ex-smoker was defined as a subject who had not smoked for ≥6 months at Visit 1
- 5. On treatment with the FDC of salmeterol 50 μg/fluticasone propionate 500 μg MDDPl b.i.d. for the treatment of COPD for ≥3 months directly preceding Visit 1
- 6. Able to use an electronic patient diary
- 7. Able to use a single dose dry powder inhaler (SDDPI), a multi-dose dry powder inhaler (MDDPI), and a pressurized MDI (rescue medication salbutamol); and comply with the study regimen

Key exclusion criteria:

- 1. patients who had a COPD exacerbation that required treatment with antibiotics and/or oral corticosteroids and/or hospitalization in the one year prior to Visit 1 or during the period between Visit 1 and Visit 2
- 2. patients with a history of, or current clinically significant, in the opinion of the investigator, ECG abnormality
- 3. patients with any medical condition or significant laboratory abnormality which might compromise patient safety, interfere with evaluations, or preclude completion of the study
- 4. patients who had had a respiratory tract infection within 4 weeks prior to Visit 1, or developing a respiratory tract infection between Visit 1 and Visit 2
- 5. patients requiring long-term oxygen therapy prescribed for >12 h per day
- 6. patients with any history of asthma, or onset of respiratory symptoms prior to age 40 years
- 7. patients with any concomitant pulmonary disease or active pulmonary tuberculosis
- 8. patients with allergic rhinitis and using a H1- antagonist or intra-nasal corticosteroids intermittently
- 9. patients with a diagnosis of α -1 anti-trypsin deficiency



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- 10. patients participating in or planning to initiate an evolving or changing phase of a supervised pulmonary rehabilitation program during the study;
- 11. patients contraindicated for treatment with, or having a history of reactions/ hypersensitivity to any of the inhaled drugs such as long and short acting beta-2 agonists, inhaled steroids, sympathomimetic amines, lactose, gelatin or any of the other excipients or drugs of a similar class or any component thereof
- 12. patients with evidence (upon visual inspection) of oropharyngeal candidiasis at Visit 1 or Visit 2
- 13. patients not meeting all concomitant medication requirements as specified in accordance with all protocol requirement
- 14. patients using other investigational drugs (approved or unapproved) at the time of enrollment, or within 30 days or 5 half-lives of Visit 1, whichever was longer

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Participant Flow Table

Patient disposition (All patients)

	Ind 150 μg n (%)	S+F n (%)	Total n (%)
Patients			
Screened	-	-	1038
Randomized	293 (100)	288 (100)	581 (100)
Exposed	293 (100)	288 (100)	581 (100)
Completed	246 (84.0)	250 (86.8)	496 (85.4)
Discontinued	47 (16.0)	38 (13.2)	85 (14.6)
Primary reason for premature discontinuation			
Subject withdrew consent	16 (5.5)	15 (5.2)	31 (5.3)
Adverse event(s)	14 (4.8)	14 (4.9)	28 (4.8)
Administrative problems	8 (2.7)	0	8 (1.4)
Protocol deviation	5 (1.7)	3 (1.0)	8 (1.4)
Unsatisfactory therapeutic effect	2 (0.7)	2 (0.7)	4 (0.7)
Abnormal test procedure result(s)	1 (0.3)	3 (1.0)	4 (0.7)
Lost to follow-up	1 (0.3)	0	1 (0.2)
Death*	0	1 (0.3)	1 (0.2)

Ind=Indacaterol

S+F= Salmeterol 50 µg/fluticasone 500 µg

Patients who have screen failed and re-screened under a new patient number will be counted twice in the number of screening.

Baseline Characteristics

Demographic summary (Safety set)

^{*} There is a discrepancy between one patient who died during the study in the 'Patient Disposition Table' and the 'Deaths, other serious adverse events (including COPD exacerbations) and adverse events leading to permanent discontinuation of study drug Table'. In one it is considered death and in the other discontinuation due to AE (sudden death was considered a type of AE). The tables were derived from different sources.

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		Ind 150 μg N=293	S+F N=288	Total N=581
ge (years)	n	293	288	581
	Mean	65.3	66.8	66.0
	SD	8.39	8.53	8.49
	Median	66.0	67.0	66.0
	Min - Max	41-88	41-88	41-88
ge group - n (%)	40 - 64 years	132 (45.1)	112 (38.9)	244 (42.0)
	≥65 years	161 (54.9)	176 (61.1)	337 (58.0)
ex - n (%)	Male	204 (69.6)	197 (68.4)	401 (69.0)
	Female	89 (30.4)	91 (31.6)	180 (31.0)
ace - n (%)	Caucasian	252 (86.0)	252 (87.5)	504 (86.7)
	Asian	2 (0.7)	1 (0.3)	3 (0.5)
	Native American	22 (7.5)	21 (7.3)	43 (7.4)
	Other	17 (5.8)	14 (4.9)	31 (5.3)
/eight (kg)	n	285	282	567
	Mean	74.9	77.6	76.2
	SD	14.09	15.59	14.90
	Median	74.0	76.5	75.0
	Min - Max	39.0-123.6	44.0-136.5	39.0-136.5
leight (cm)	n	285	282	567
	Mean	166	166	166
	SD	8.8	8.6	8.7
	Median	166	166	166
	Min – Max	145-189	144-190	144-190
iMI (kg/m²)	n	285	282	567
	Mean	27.1	28.1	27.6
	SD	4.62	5.15	4.91
	Median	26.7	27.3	27.0
	Min – Max	14.5-43.4	16.3-51.0	14.5-51.0
SMI group (kg/m²)	≤30.0	214 (73.0)	199 (69.1)	413 (71.1)
	>30.0	71 (24.2)	83 (28.8)	154 (26.5)

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	Ind 150 μg	S+F	Total
	N=293	N=288	N=581
Missing	8 (2.7)	6 (2.1)	14 (2.4)

Ind=Indacaterol

S+F= Salmeterol 50 μg/fluticasone 500 μg

BMI=body mass index

Summary of Efficacy

Primary Outcome Result(s)

Trough FEV₁ (L) at Week 12 (imputed with Last Observation Carried Forward): treatment comparisons (Per-protocol and full analysis set)

		Trea	tment			Treat	ment difference	
		LS			LS			
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
Per protocol Comparisor		on-inferior	ity					
Ind 150 μg (N=247)	225	1.584	0.0294	Ind 150 μg - S+F	-0.009	0.0179	(-0.045, 0.026)	0.002* (one-sided)
S+F (N=249)	237	1.593	0.0300					
Full analysis Comparisor		periority						
Ind 150 μg (N=293)	260	1.591	0.0276	Ind 150 μg - S+F	-0.014	0.0165	(-0.046, 0.019)	0.409 (two- sided)
S+F (N=288)	268	1.604	0.0281					

Ind=Indacaterol

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LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: Trough FEV_1 = treatment + baseline FEV_1 + FEV_1 reversibility components + smoking status + country + center (country), with center (country) as a random effect.

A hierarchical testing approach was taken: If indacaterol was demonstrated to be non-inferior to S+F (95% confidence interval lay entirely to the right of (higher than) -0.060 L) for the per protocol set then the superiority was evaluated for the full analysis set. Superiority was demonstrated if the two-sided p-value was less than 0.05 and the 95% confidence interval lay entirely to the right of (higher than) 0 L.

Secondary Outcome Result(s)

Trough FEV₁ (L) at Week 26 (imputed with Last Observation Carried Forward): treatment comparisons (Full analysis set)

		Trea	tment		Treatment difference				
		LS			LS				
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value	
Ind 150 µg (N=293)	242	1.567	0.0302	Ind 150 μg - S+F	-0.002	0.0179	(-0.037, 0.034)	0.926	
S+F (N=288)	245	1.569	0.0307						

LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: Trough FEV_1 = treatment + baseline FEV_1 + FEV_1 reversibility components + smoking status +country + center (country), with center (country) as a random effect.

Trough FEV₁ was defined as the average of the 23 h 10 min and the 23 h 45 min FEV₁ values at Day 183. Ind=Indacaterol

S+F= Salmeterol 50 μg/fluticasone 500 μg

Analysis of AUC (5 min – 4 h) for FEV₁ (L) at Week 12 and Week 26: treatment comparison (Full analysis set)

	Treatment				Treatment difference			
Treatment	n	LS Mean	SE	Comparison	LS Mean	SE	95% CI	p-value
Week 12								
Ind 150 μg (N=293)	244	1.689	0.0201	Ind 150 μg - S+F	0.000	0.0168	(-0.033, 0.033)	0.999

^{*} denotes a statistical significant comparison according to the hierarchical testing procedure.

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		Treatm	ent		Treatm	ent differenc	е	
Treatment	n	LS Mean	SE	Comparison	LS Mean	SE	95% CI	p-value
S+F (N=288)	245	1.689	0.0203					
Week 26								
Ind 150 µg (N=293)	232	1.683	0.0304	Ind 150 μg - S+F	0.001	0.0186	(-0.035, 0.038)	0.949
S+F (N=288)	232	1.682	0.0310					

LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: AUC = treatment + baseline FEV_1 + FEV_1 reversibility components + smoking status + country + center (country), with center (country) as a random effect, with center as a random effect. Ind=Indacaterol

FEV₁ (L) at individual time points after 12 weeks treatment: treatment comparisons (Full analysis set)

		Treat	tment			Treatn	nent difference	
		LS			LS			
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
-50 min pre	-dose							
Ind 150 μg (N=293)	249	1.601	0.0281	Ind 150 μg - S+F	0.013	0.0174	(-0.021, 0.048)	0.438
S+F (N=288)	246	1.588	0.0286					
-15 min pre	-dose							
Ind 150 μg (N=293)	251	1.623	0.0282	Ind 150 μg - S+F	0.006	0.0173	(-0.028, 0.040)	0.717
S+F (N=288)	247	1.616	0.0287					
5 min post-	dose							
Ind 150 μg (N=293)	242	1.631	0.0209	Ind 150 μg - S+F	0.018	0.0170	(-0.015, 0.052)	0.286
S+F (N=288)	248	1.613	0.0209					

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		Trea	tment			Treatn	nent difference	
		LS			LS			
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
30 min pos	t-dose							
Ind 150 μg (N=293)	242	1.667	0.0207	Ind 150 μg - S+F	0.011	0.0173	(-0.023, 0.045)	0.511
S+F (N=288)	246	1.656	0.0208					
1h post-do	se							
Ind 150 μg (N=293)	248	1.693	0.0285	Ind 150 μg - S+F	0.009	0.0173	(-0.025, 0.043)	0.611
S+F (N=288)	248	1.684	0.0293					
2h post-do	se							
Ind 150 μg (N=293)	240	1.705	0.0291	Ind 150 μg - S+F	-0.003	0.0181	(-0.038, 0.033)	0.878
S+F (N=288)	242	1.708	0.0300					
4h post-do	se							
Ind 150 μg (N=293)	231	1.670	0.0215	Ind 150 μg - S+F	-0.029	0.0178	(-0.064, 0.006)	0.105
S+F (N=288)	235	1.699	0.0216					
23h 10 min	post-do	ose						
Ind 150 μg (N=293)	244	1.577	0.0277	Ind 150 μg - S+F	-0.014	0.0169	(-0.048, 0.019)	0.390
S+F (N=288)	242	1.591	0.0284					
23h 45 min	post-do	ose						
Ind 150 µg (N=293)	249	1.597	0.0283	Ind 150 μg - S+F	-0.016	0.0173	(-0.050, 0.018)	0.346
S+F (N=288)	243	1.613	0.0291					

LSM = least squares mean, SE = standard error of the mean, CI = confidence interval.

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Mixed model: FEV_1 = treatment + baseline FEV_1 + FEV_1 reversibility components + smoking status + country + center (country) + error, with center (country) included as random effect. Ind=Indacaterol

FEV₁ (L) at individual time points after 26 weeks treatment: treatment comparisons (Full analysis set)

						•	•	
		Trea	tment			Treatn	nent difference	
		LS			LS			
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
-50 min pre	-dose							
Ind 150 μg (N=293)	231	1.569	0.0301	Ind 150 μg - S+F	-0.013	0.0185	(-0.049, 0.024)	0.492
S+F (N=288)	236	1.582	0.0304					
-15 min pre	-dose							
Ind 150 μg (N=293)	236	1.576	0.0294	Ind 150 μg - S+F	-0.020	0.0180	(-0.055, 0.016)	0.277
S+F (N=288)	236	1.595	0.0300					
5 min post-	dose							
Ind 150 μg (N=293)	234	1.630	0.0304	Ind 150 μg - S+F	0.001	0.0186	(-0.036, 0.037)	0.971
S+F (N=288)	234	1.630	0.0310					
30 min pos	t-dose							
Ind 150 μg (N=293)	235	1.670	0.0244	Ind 150 μg - S+F	0.014	0.0186	(-0.023, 0.050)	0.463
S+F (N=288)	235	1.656	0.0244					
1h post-dos	se							
Ind 150 μg (N=293)	231	1.676	0.0317	Ind 150 μg - S+F	-0.001	0.0194	(-0.039, 0.037)	0.951

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		Treat	ment			Treatm	ent difference	
		LS			LS			
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
S+F (N=288)	235	1.677	0.0324					
2h post-do:	se							
Ind 150 μg (N=293)	228	1.700	0.0318	Ind 150 μg - S+F	0.007	0.0199	(-0.032, 0.046)	0.710
S+F (N=288)	225	1.693	0.0325					
4h post-dos	se							
Ind 150 μg (N=293)	222	1.664	0.0320	Ind 150 μg - S+F	0.001	0.0198	(-0.038, 0.040)	0.972
S+F (N=288)	220	1.663	0.0328					
23h 10 min	post-de	ose						
Ind 150 μg (N=293)	226	1.551	0.0305	Ind 150 μg - S+F	-0.008	0.0187	(-0.045, 0.028)	0.654
S+F (N=288)	227	1.559	0.0310					
23h 45 min	post-de	ose						
Ind 150 μg (N=293)	236	1.574	0.0313	Ind 150 μg - S+F	-0.001	0.0186	(-0.038, 0.035)	0.956
S+F (N=288)	236	1.575	0.0318					

LSM = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: FEV_1 = treatment + baseline FEV_1 + FEV_1 reversibility components + smoking status + country + center (country) + error, with center (country) included as random effect.

Ind=Indacaterol

S+F= Salmeterol 50 μg/fluticasone 500 μg

Summary Statistics of Trough FVC over 26 weeks of treatment (Full analysis set)





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Visit	Statistic	Base	Post	Change	% Change	Base	Post	Change	% Change
Day 29	n	151	151	151	151	153	153	153	153
201 23	Mean	2.997	2.992	-0.005	0.45	2.997	2.960	-0.038	-1.20
	SD	0.7942	0.8003	0.3042	10.967	0.7750	0.8385	0.3223	11.293
	Min	1.320	1.439	-0.805	-26.68	1.183	1.258	-0.887	-30.94
	Q25	2.392	2.349	-0.186	-6.00	2.449	2.327	-0.213	-7.44
	Median	2.959	2.893	-0.011	-0.30	2.914	2.919	-0.041	-1.12
	Q75	3.594	3.597	0.155	4.75	3.530	3.524	0.112	3.78
	Max	5.029	5.103	0.752	41.64	4.940	5.402	1.172	47.87
Day 57	n	151	151	151	151	146	146	146	146
-	Mean	3.035	3.036	0.001	0.58	3.078	3.020	-0.058	-1.90
	SD	0.8384	0.8437	0.3138	10.995	0.7877	0.8340	0.3196	10.774
	Min	1.320	1.326	-1.096	-35.38	1.183	1.312	-1.235	-37.76
	Q25	2.396	2.384	-0.173	-6.13	2.540	2.464	-0.216	-7.43
	Median	2.982	2.988	0.016	0.37	2.994	2.983	-0.051	-1.69
	Q75	3.600	3.642	0.206	6.95	3.578	3.629	0.110	3.17
			F 420	0.792	29.92	4.976	5.233	0.956	32.32
	Max	5.204	5.439	0.792	23.32	1.370			
	Max	5.204	Ind 1	50 ug			S	+F	
Visit	Max Statistic	5.204 Base		50 ug	% Change	Base		+F	% Change
	Statistic	Base	Ind 1: Post	50 ug 293 ———— Change	% Change	Base	Some N=:	+F 288 ———— Change	% Change
	Statistic n	Base	Ind 1: Post 172	50 ug 293 — — — — Change — — — — — — — — — — — — — — — — — — —	% Change	Base	Post N=:	+F 288 ———————————————————————————————————	% Change
Visit Day 84	Statistic n Mean	Base 172 3.020	Ind 1: Post 172 3.000	50 ug 293 — — — — — — — — — — — — — — — — — — —	% Change 172 -0.35	Base 161 3.025	Post N=:	+F 288 ———————————————————————————————————	% Change 161 -1.99
	Statistic n Mean SD	Base 172 3.020 0.8273	Ind 1: Post 172 3.000 0.8533	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266	Base 161 3.025 0.7781	Post N=: 161 2.960 0.7972	+F 288 ———————————————————————————————————	% Change 161 -1.99 9.126
	Statistic n Mean SD Min	Base 172 3.020 0.8273 1.320	Ind 1: Post 172 3.000 0.8533 1.513	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91	Base 161 3.025 0.7781 1.283	Post 161 2.960 0.7972 1.346	+F 288 Change 161 -0.065 0.2760 -0.970	% Change 161 -1.99 9.126 -27.51
	Statistic n Mean SD Min Q25	Base 172 3.020 0.8273 1.320 2.394	Ind 1: Post 172 3.000 0.8533 1.513 2.311	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34	Base 161 3.025 0.7781 1.283 2.481	Post 161 2.960 0.7972 1.346 2.363	+F 288	% Change 161 -1.99 9.126 -27.51 -6.64
	n Mean SD Min Q25 Median	Base 172 3.020 0.8273 1.320 2.394 2.944	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54	Base 161 3.025 0.7781 1.283 2.481 2.894	Post 161 2.960 0.7972 1.346 2.363 2.806	+F 288	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99
	n Mean SD Min Q25 Median Q75	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37
	n Mean SD Min Q25 Median	Base 172 3.020 0.8273 1.320 2.394 2.944	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54	Base 161 3.025 0.7781 1.283 2.481 2.894	Post 161 2.960 0.7972 1.346 2.363 2.806	+F 288	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99
Day 84	n Mean SD Min Q25 Median Q75	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21
Day 84	n Mean SD Min Q25 Median Q75 Max n Mean	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321 252 3.023	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187 252 3.023	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07 252 0.18	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153 255 3.021	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358 255 3.012	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21 255 -0.36
Day 84	n Mean SD Min Q25 Median Q75 Max	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321 252 3.023 0.8166	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187 252 3.023 0.8446	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07 252 0.18 10.183	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153 255 3.021 0.8219	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358 255 3.012 0.8941	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21 255 -0.36 10.867
	n Mean SD Min Q25 Median Q75 Max n Mean SD Min	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321 252 3.023 0.8166 1.320	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187 252 3.023 0.8446 1.106	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07 252 0.18	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153 255 3.021 0.8219 1.183	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358 255 3.012 0.8941 1.068	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21 255 -0.36 10.867 -30.52
Day 84	n Mean SD Min Q25 Median Q75 Max n Mean SD	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321 252 3.023 0.8166 1.320 2.412	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187 252 3.023 0.8446	50 ug 293 ————————————————————————————————————	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07 252 0.18 10.183	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153 255 3.021 0.8219 1.183 2.356	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358 255 3.012 0.8941 1.068 2.358	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689 255 -0.010 0.3308	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21 255 -0.36 10.867 -30.52 -5.93
Day 84	n Mean SD Min Q25 Median Q75 Max n Mean SD Min	Base 172 3.020 0.8273 1.320 2.394 2.944 3.558 5.321 252 3.023 0.8166 1.320	Ind 1: Post 172 3.000 0.8533 1.513 2.311 2.928 3.494 5.187 252 3.023 0.8446 1.106	50 ug 293 Change 172 -0.021 0.3203 -1.267 -0.184 -0.012 0.143 1.032 252 0.000 0.2981 -0.981	% Change 172 -0.35 11.266 -40.91 -6.34 -0.54 5.10 41.07 252 0.18 10.183 -27.23	Base 161 3.025 0.7781 1.283 2.481 2.894 3.530 5.153 255 3.021 0.8219 1.183	Post 161 2.960 0.7972 1.346 2.363 2.806 3.480 5.358 255 3.012 0.8941 1.068	161 -0.065 0.2760 -0.970 -0.219 -0.054 0.103 0.689 255 -0.010 0.3308 -0.930	% Change 161 -1.99 9.126 -27.51 -6.64 -1.99 3.37 24.21 255 -0.36 10.867 -30.52



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	Max	5.413	5.374	0.955	29.75	5.190	6.177	1.608	52.03
			Ind 1	50 ug 293 ————				+F 288 ————	
Visit	Statistic	Base	Post	Change	% Change	Base	Post	Change	% Change
Day 85 (LOCF)	n	260	260	260	260	268	268	268	268
	Mean	3.028	3.025	-0.003	0.11	3.027	3.000	-0.026	-0.89
	SD	0.8145	0.8404	0.2977	10.207	0.8149	0.8844		11.063
	Min	1.320	1.106	-0.981	-27.23	1.183	1.068	-0.930	-30.52
	Q25	2.420	2.431		-6.30	2.423	2.361	-0.207	-6.61
	Median	2.951	2.431	-0.174	-1.21	2.423	2.932	-0.207	-1.32
	Q75	3.584	3.580		5.65	3.542	2 5 4 4	0 120	4.90
	_			0.178 0.955	29.75		2.344	1.608	
	Max	5.413	5.374	0.955	29.75	5.190	6.177	1.008	52.03
Day 182	n	161	161	161	161	146	146	146	146
Day 102	Mean	3.042	3.019	-0.023	-0.65	3.026	2.968	-0.058	-1.83
	Mean SD	0.8415	0.8773	0.3318	11.272	0.7622	0.8015	0.3179	10.691
	Min		1.207						
		1.320 2.400	2.373	-1.047	-30.60	1.497	1.148 2.378	-0.748	-28.44 -8.74
	Q25			-0.223	-7.58 -1.21	2.471		-0.246	
	Median	2.981					2.911	-0.085	
	Q75	3.585			4.69	3.570			4.62
	Max	5.204	5.419	0.994	36.96	4.847	5.096	1.016	28.10
			Ind 1	50 ug			S	+F	
Visit	Statistic	Dana	N=.	293 ————	0 Cla a m and	Base	N=	288 ———	0 Ch a n a a
VISIT	Statistic	Base	POST		% Change 	Base	POST	Change	% Change
Day 183	n	239	239	239	239	243	243	243	243
241 100	Mean	3.024	2.963	-0.061	-1.81	3.027	2.975	-0.052	-1.56
	SD	0.8083	0.8266	0.3253	10.870	0.8212	0.8612	0.3416	11.057
	Min	1.320	1.341	-1.013	-28.47	1.183	1.235	-1.061	-41.31
	025	2.406	2.346		-9.81	2.356	2.358	-0.236	-8.30
	Median	2.948	2.889	-0.060	-1.95	2.910	2.862	-0.052	-1.69
	Q75	3.585	3.478	0.126	4.45	3.538	3 555	0 130	4.82
	Max	5.413	5.173	0.947	40.02	5.190	5.601	1.603	41.34
Day 183 (LOCF)		0.40	242	242	242	245	245	245	245
Day IOS (HOCE)	n	242	242	Z4Z	242	243	243	243	243
Day 103 (HOCI)	n Mean	3.024	2.965	-0.059	-1.80	3.032	2.981		-1.53



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Min	1.320	1.207	-1.013	-28.47	1.183	1.235	-1.061	-41.31
Q25	2.406	2.346	-0.270	-9.81	2.357	2.362	-0.234	-8.27
Median	2.949	2.890	-0.055	-1.92	2.914	2.862	-0.052	-1.69
Q75	3.585	3.478	0.133	4.50	3.546	3.555	0.130	4.82
Max	5.413	5.173	0.947	40.02	5.190	5.601	1.603	41.34

Base = Baseline, Change = Post baseline - baseline, % Change = 100 * Change / Base.

Only patients with a value at both baseline and the respective post-baseline visit were included.

Trough FVC was defined as the average of the 23 h 10 min and the 23 h 45 min FVC values at Day 85 and Day 183.

At all other post-baseline visits, trough FVC was defined as the average of the -50 min and -15 min FVC values.

Baseline was defined as the average of the -50 min and -15 min FVC values taken at Visit 2 prior to first dose.

If both values were missing (or not confirmed to be before the morning dose), then the pre-bronchodilator measurement taken at the screening visit was used as baseline.

FVC data taken within 6 h of rescue medication was excluded from this analysis, as done for trough data outside 22-25 h after last morning dose.

TDI focal score at Week 12 and Week 26: treatment comparisons (Full analysis set)

Treatment						Treatment difference			
		LS			LS				
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value	
Week 12									
Ind 150 μg (N=293)	249	1.89	0.499	Ind 150 μg - S+F	0.20	0.265	(-0.32, 0.72)	0.446	
S+F (N=288)	249	1.69	0.509						
Week 26									
Ind 150 μg (N=293)	233	2.58	0.543	Ind 150 μg - S+F	-0.12	0.302	(-0.71, 0.48)	0.694	
S+F (N=288)	235	2.70	0.552						

LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

BDI = Baseline Dyspnea Index, TDI = Transition Dyspnea Index.

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Mixed model: TDI = treatment + BDI + FEV_1 reversibility components + smoking status +country + center (country), with center (country) as a random effect.

Ind=Indacaterol

S+F= Salmeterol 50 μg/fluticasone 500 μg

Number of COPD exacerbations per patient over 26 weeks: treatment comparisons (without imputation; Full analysis set)

	Ind 150 μg N=293	S+F N=288
Number of exacerbations per patient (without imputati	on) - n (%)	
None	233 (79.5)	215 (74.7)
1	47 (16.0)	57 (19.8)
2	11 (3.8)	15 (5.2)
3	2 (0.7)	1 (0.3)
≥4	0	0
Total number of exacerbations	75	90
Total number of treatment years	131.78	134.67
Rate of exacerbations per year	0.57	0.67
Treatment comparison Ind 150 µg vs. S+F (without imp	outation)	
Ratio of rates	0.86	
95% CI	(0.62,1.20)	
p-value	0.367	

CI = confidence interval.

Treatment group comparisons are based on a generalized linear model assuming a negative binomial distribution with fixed effects of treatment, smoking status, country, FEV₁ reversibility components.

As the offset variable log (days of treatment duration) was used.

Ratio of rates <1 favors the treatment group in the numerator of the ratio.

Malaysia was pooled together with Colombia as if one country and Netherlands/Great Britain together as if another, due to model convergence issues.

Ind=Indacaterol

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Rescue medication use over 26 weeks: treatment comparisons (Full analysis set)

Treatment						Treatment difference			
		LS			LS				
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value	
Change from	m basel	line in the	e mean d	aily number of puffs	of rescue m	edication	ı		
Ind 150 µg (N=293)	268	-0.44	0.192	Ind 150 μg - S+F	0.05	0.115	(-0.17, 0.28)	0.650	
S+F (N=288)	272	-0.49	0.197						
Change from	m basel	line in the	e mean d	laytime number of pur	ffs of rescu	e medicat	ion		
Ind 150 μg (N=293)	259	-0.23	0.074	Ind 150 μg - S+F	0.03	0.063	(-0.09, 0.15)	0.616	
S+F (N=288)	258	-0.26	0.074						
Change from	m basel	line in the	e mean n	ighttime number of p	uffs of resc	ue medic	ation		
Ind 150 μg (N=293)	266	-0.19	0.095	Ind 150 μg - S+F	0.03	0.057	(-0.09, 0.14)	0.658	
S+F (N=288)	265	-0.21	0.097						
Percentage	of 'day	s with no	rescue	use'					
Ind 150 μg (N=293)	256	52.8	3.71	Ind 150 μg - S+F	-1.8	2.74	(-7.2, 3.6)	0.505	
S+F (N=288)	262	54.6	3.68						

LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: change from baseline (or % of days) = treatment + baseline number of puffs (or baseline % of days) + FEV_1 reversibility components + smoking status + country + center (country) + error, with center (country) included as random effect.

Ind=Indacaterol

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SGRQ-C total score at Week 12 and Week 26: treatment comparisons (Full analysis set)

		Treat	ment		<u> </u>	Treatr	ment difference	
		LS	mom		LS	Hoan	nent uniciciice	
Treatment	n	Mean	SE	Comparison	Mean	SE	95% CI	p-value
Week 12								
Ind 150 μg (N=293)	255	32.8	1.58	Ind 150 μg - S+F	-0.1	0.94	(-1.9, 1.8)	0.927
S+F (N=288)	257	32.9	1.61					
Week 26								
Ind 150 μg (N=293)	238	33.1	1.87	Ind 150 μg - S+F	-0.4	1.04	(-2.5, 1.6)	0.693
S+F (N=288)	242	33.5	1.93					

LS Mean = least squares mean, SE = standard error of the mean, CI = confidence interval.

Mixed model: SGRQ-C total score = treatment + baseline SGRQ-C total score + FEV₁ reversibility components + smoking status + country + center (country) + error, with center (country) included as random Ind=Indacaterol

S+F= Salmeterol 50 μg/fluticasone 500 μg

Summary of Safety

Safety Results

Adverse events (including COPD exacerbations) overall and by primary system organ class - n (%) of patients (Safety set)

	Ind 150 μg N=293 n (%)	S+F N=288 n (%)
Patients with any AE(s)	131 (44.7)	154 (53.5)
Primary system organ class		

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	Ind 150 μg N=293 n (%)	S+F N=288 n (%)
Respiratory, thoracic and mediastinal disorders	76 (25.9)	83 (28.8)
Infections and infestations	62 (21.2)	76 (26.4)
Musculoskeletal and connective tissue disorders	13 (4.4)	13 (4.5)
Gastrointestinal disorders	9 (3.1)	16 (5.6)
General disorders and administration site conditions	9 (3.1)	8 (2.8)
Nervous system disorders	9 (3.1)	8 (2.8)
Injury, poisoning and procedural complications	6 (2.0)	7 (2.4)
Vascular disorders	6 (2.0)	6 (2.1)
Eye disorders	5 (1.7)	1 (0.3)
Investigations	3 (1.0)	2 (0.7)
Skin and subcutaneous tissue disorders	3 (1.0)	4 (1.4)
Cardiac disorders	2 (0.7)	9 (3.1)
Psychiatric disorders	2 (0.7)	2 (0.7)
Blood and lymphatic system disorders	1 (0.3)	2 (0.7)
Ear and labyrinth disorders	1 (0.3)	3 (1.0)
Endocrine disorders	1 (0.3)	1 (0.3)
Hepatobiliary disorders	1 (0.3)	5 (1.7)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	1 (0.3)	3 (1.0)
Renal and urinary disorders	1 (0.3)	5 (1.7)
Reproductive system and breast disorders	1 (0.3)	1 (0.3)
Immune system disorders	0	2 (0.7)
Metabolism and nutrition disorders	0	1 (0.3)

Primary system organ classes are sorted in descending order of frequency in the Ind 150 μg treatment group.

Only treatment emergent adverse events are summarized.

Ind=Indacaterol

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Most frequent AEs, including COPD exacerbations, (at least 5% in any treatment group) by preferred term - n (%) of patients (Safety set)

	Ind 150 μg N=293 n (%)	S+F N=288 n (%)
Patients with any AE(s)	131 (44.7)	154 (53.5)
Preferred term		
Chronic obstructive pulmonary disease	60 (20.5)	73 (25.3)
Nasopharyngitis	15 (5.1)	18 (6.3)

Preferred terms are sorted in descending order of frequency in the Ind 150 µg treatment group.

Only treatment emergent adverse events are summarized. The first row includes AEs of all frequencies. Ind=Indacaterol

S+F= Salmeterol 50 µg/fluticasone 500 µg

Deaths, other serious adverse events (including COPD exacerbations) and adverse events leading to permanent discontinuation of study drug – n (%) of patients (Safety set)

	Ind 150 µg N=293 n (%)	S+F N=288 n (%)
Deaths*	0	2 (0.7)
Patients with any AE(s)	131 (44.7)	154 (53.5)
Serious AEs or AE discontinuations		
SAEs	5 (1.7)	17 (5.9)
Discontinued due to AE(s)*	14 (4.8)	15 (5.2)
Discontinued due to SAE(s)	3 (1.0)	7 (2.4)
Discontinued due to non-SAE(s)	11 (3.8)	8 (2.8)

A patient could have discontinued study treatment due to both a SAE and a non-SAE.

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S+F= Salmeterol 50 µg/fluticasone 500 µg

Serious AEs, including COPD exacerbations, by primary system organ class and preferred term - n (%) of patients (Safety set)

	Ind 150 µg N=293 n (%)	S+F N=288 n (%)
Patients with any serious AE(s)	5 (1.7)	17 (5.9)
Primary system organ class and preferred term	, ,	, ,
Blood and lymphatic system disorders	0	2 (0.7)
Anemia	0	1 (0.3)
Thrombocytopenia	0	1 (0.3)
Cardiac disorders	1 (0.3)	5 (1.7)
Cardiac failure	1 (0.3)	0
Atrial fibrillation	0	2 (0.7)
Bradycardia	0	1 (0.3)
Coronary artery disease	0	1 (0.3)
Supraventricular tachycardia	0	1 (0.3)
Gastrointestinal disorders	1 (0.3)	1 (0.3)
Pancreatitis acute	1 (0.3)	0
Duodenitis	0	1 (0.3)
Dyspepsia	0	1 (0.3)
General disorders and administration site conditions	0	2 (0.7)
Non-cardiac chest pain	0	1 (0.3)
Sudden death	0	1 (0.3)
Hepatobiliary disorders	0	2 (0.7)

^{*} There is a discrepancy between one patient who died during the study in the 'Patient Disposition Table' and the 'Deaths, other serious adverse events (including COPD exacerbations) and adverse events leading to permanent discontinuation of study drug Table'. In one it is considered death and in the other discontinuation due to AE (sudden death was considered a type of AE). The tables were derived from different sources (CMP and AEV eCFR pages) Ind=Indacaterol

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	Ind 150 μg N=293 n (%)	S+F N=288 n (%)
Cholelithiasis	0	1 (0.3)
Cholestasis	0	1 (0.3)
Infections and infestations	0	2 (0.7)
Pneumonia	0	2 (0.7)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	1 (0.3)	3 (1.0)
Gastric cancer	1 (0.3)	0
Mesothelioma	0	1 (0.3)
Neurilemmoma benign	0	1 (0.3)
Renal cancer	0	1 (0.3)
Nervous system disorders	0	1 (0.3)
Transient ischemic attack	0	1 (0.3)
Respiratory, thoracic and mediastinal disorders	2 (0.7)	3 (1.0)
Chronic obstructive pulmonary disease	1 (0.3)	3 (1.0)
Pneumothorax spontaneous	1 (0.3)	0
Vascular disorders	0	2 (0.7)
Peripheral arterial occlusive disease	0	1 (0.3)
Peripheral artery thrombosis	0	1 (0.3)

Primary system organ classes are sorted alphabetically; preferred terms are sorted within each primary system organ class in descending order of frequency in the Ind 150 µg treatment group.

Ind=Indacaterol

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Other Relevant Findings

None

Conclusion:

The study met its aims, demonstrating that patients with moderate airflow limitation and no exacerbations in the prior 12 months can be switched from salmeterol/fluticasone to indacaterol, with no loss of efficacy.

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Date of Clinical Trial Report

02-JUL-2014

Date of Initial Inclusion on Novartis Clinical Trial Results website

10-FEB-2015

Date of Latest Update

Reason for Update

New Record