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Trial record **1 of 1** for: CQAB149B2217

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## Safety of Exercise and High-dose Salbutamol in Patients With Chronic Obstructive Pulmonary Disease (COPD) Receiving Therapeutic Doses of Indacaterol (QAB 149) and Salmeterol

**This study has been completed.**

**Sponsor:**

Novartis

**Information provided by (Responsible Party):**

Novartis

**ClinicalTrials.gov Identifier:**

NCT00531050

First received: September 17, 2007

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Results First Received: July 29, 2011

<b>Study Type:</b>	Interventional
<b>Study Design:</b>	Allocation: Randomized; Endpoint Classification: Safety Study; Intervention Model: Crossover Assignment; Masking: Double Blind (Subject, Investigator); Primary Purpose: Treatment
<b>Condition:</b>	Chronic Obstructive Pulmonary Disease
<b>Interventions:</b>	Drug: Indacaterol Drug: Placebo Drug: Salmeterol

## ▶ Participant Flow

▬ Hide Participant Flow

### Recruitment Details

**Key information relevant to the recruitment process for the overall study, such as dates of the recruitment period and locations**

No text entered.

### Pre-Assignment Details

**Significant events and approaches for the overall study following participant enrollment, but prior to group assignment**

The study was double blind with regard to the administration of indacaterol and placebo and open label with regard to salmeterol. The study had 2 parts. Each Part of the study consisted of 3 treatment periods separated by a minimum of 7 days. The two parts of the study were separated by a minimum of 7 days.

### Reporting Groups

	Description
<b>Part 1: Sequence A, Part 2: Sequence A</b>	<p>Part 1: Sequence 'A' consisted of - Period 1, patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. Period 2, patient received single dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). Period 3, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'A' consisted of - Period 1, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 3, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<b>Part 1 : Sequence B, Part 2: Sequence B</b>	<p>Part 1: Sequence 'B' consisted of - Period 1, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 2, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patient received single dose of salmeterol 50µg via Diskus DPI.</p>

	<p>Part 2: Sequence 'B' consisted of - Period 1, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 3, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<p><b>Part 1: Sequence C, Part 2: Sequence C</b></p>	<p>Part 1: Sequence 'C' consisted of - Period 1, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patient received single dose of salmeterol 50µg via Diskus DPI. Period 3, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'C' consisted of - Period 1, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 2, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 3, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device . In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<p><b>Part 1; Sequence D, Part 2: Sequence D</b></p>	<p>Part 1: Sequence 'D' consisted of - Period 1, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 3, patient received single dose of salmeterol 50µg via Diskus DPI.</p> <p>Part 2: Sequence 'D' consisted of - Period 1, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 2, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<p><b>Part 1: Sequence E, Part 2: Sequence E</b></p>	<p>Part 1: Sequence 'E' consisted of - Period 1, patient received single dose of salmeterol 50µg via Diskus DPI. Period 2, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 3, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device.</p>

Part 2: Sequence 'E' consisted of - Period 1, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 2, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

**Part 1: Sequence F, Part 2: Sequence F**

Part 1: Sequence 'F' consisted of - Period 1, patient received single dose of salmeterol 50µg via Diskus DPI. Period 2, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device.

Part 2: Sequence 'F' consisted of - Period 1, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 2, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 3, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

**Participant Flow for 6 periods**

**Period 1: Part 1: Period 1**

	Part 1: Sequence A, Part 2: Sequence A	Part 1 : Sequence B, Part 2: Sequence B	Part 1: Sequence C, Part 2: Sequence C	Part 1; Sequence D, Part 2: Sequence D	Part 1: Sequence E, Part 2: Sequence E	Part 1: Sequence F, Part 2: Sequence F
<b>STARTED</b>	4	5	4	5	4	5
<b>COMPLETED</b>	4	4	4	4	4	5
<b>NOT COMPLETED</b>	0	1	0	1	0	0
<b>Adverse</b>						

<b>Event</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Protocol Deviation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

**Period 2: Part 1: Period 2**

	<b>Part 1: Sequence A, Part 2: Sequence A</b>	<b>Part 1 : Sequence B, Part 2: Sequence B</b>	<b>Part 1: Sequence C, Part 2: Sequence C</b>	<b>Part 1; Sequence D, Part 2: Sequence D</b>	<b>Part 1: Sequence E, Part 2: Sequence E</b>	<b>Part 1: Sequence F, Part 2: Sequence F</b>
<b>STARTED</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
<b>COMPLETED</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
<b>NOT COMPLETED</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Period 3: Part 1: Period 3**

	<b>Part 1: Sequence A, Part 2: Sequence A</b>	<b>Part 1 : Sequence B, Part 2: Sequence B</b>	<b>Part 1: Sequence C, Part 2: Sequence C</b>	<b>Part 1; Sequence D, Part 2: Sequence D</b>	<b>Part 1: Sequence E, Part 2: Sequence E</b>	<b>Part 1: Sequence F, Part 2: Sequence F</b>
<b>STARTED</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
<b>COMPLETED</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>
<b>NOT COMPLETED</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Adverse Event</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Period 4: Part 2: Period 1**

	Part 1: Sequence A, Part 2: Sequence A	Part 1 : Sequence B, Part 2: Sequence B	Part 1: Sequence C, Part 2: Sequence C	Part 1; Sequence D, Part 2: Sequence D	Part 1: Sequence E, Part 2: Sequence E	Part 1: Sequence F, Part 2: Sequence F
STARTED	3	4	4	4	4	5
COMPLETED	3	4	4	4	4	4
NOT COMPLETED	0	0	0	0	0	1
Adverse Event	0	0	0	0	0	1

**Period 5: Part 2: Period 2**

	Part 1: Sequence A, Part 2: Sequence A	Part 1 : Sequence B, Part 2: Sequence B	Part 1: Sequence C, Part 2: Sequence C	Part 1; Sequence D, Part 2: Sequence D	Part 1: Sequence E, Part 2: Sequence E	Part 1: Sequence F, Part 2: Sequence F
STARTED	3	4	4	4	4	4
COMPLETED	3	4	4	4	4	4
NOT COMPLETED	0	0	0	0	0	0

**Period 6: Part 2: Period 3**

	Part 1: Sequence A, Part 2: Sequence A	Part 1 : Sequence B, Part 2: Sequence B	Part 1: Sequence C, Part 2: Sequence C	Part 1; Sequence D, Part 2: Sequence D	Part 1: Sequence E, Part 2: Sequence E	Part 1: Sequence F, Part 2: Sequence F
STARTED	3	4	4	4	4	4

<b>COMPLETED</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>
<b>NOT COMPLETED</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Abnormal test procedure</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

## Baseline Characteristics

 Hide Baseline Characteristics

### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

No text entered.

### Reporting Groups

	Description
<b>Part 1: Sequence A, Part 2: Sequence A</b>	<p>Part 1: Sequence 'A' consisted of - Period 1, patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. Period 2, patient received single dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). Period 3, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'A' consisted of - Period 1, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 3, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>

<p><b>Part 1 : Sequence B, Part 2: Sequence B</b></p>	<p>Part 1: Sequence 'B' consisted of - Period 1, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 2, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patient received single dose of salmeterol 50µg via Diskus DPI.</p> <p>Part 2: Sequence 'B' consisted of - Period 1, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 3, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<p><b>Part 1: Sequence C, Part 2: Sequence C</b></p>	<p>Part 1: Sequence 'C' consisted of - Period 1, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patient received single dose of salmeterol 50µg via Diskus DPI. Period 3, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'C' consisted of - Period 1, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 2, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 3, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device . In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<p><b>Part 1; Sequence D, Part 2: Sequence D</b></p>	<p>Part 1: Sequence 'D' consisted of - Period 1, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 2, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 3, patient received single dose of salmeterol 50µg via Diskus DPI.</p> <p>Part 2: Sequence 'D' consisted of - Period 1, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 2, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>

<b>Part 1: Sequence E, Part 2: Sequence E</b>	<p>Part 1: Sequence 'E' consisted of - Period 1, patient received single dose of salmeterol 50µg via Diskus DPI. Period 2, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device. Period 3, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'E' consisted of - Period 1, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 2, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<b>Part 1: Sequence F, Part 2: Sequence F</b>	<p>Part 1: Sequence 'F' consisted of - Period 1, patient received single dose of salmeterol 50µg via Diskus DPI. Period 2, patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. Period 3, patient received a single inhaled dose of indacaterol 300µg capsule administered via the Concept1 inhaler device.</p> <p>Part 2: Sequence 'F' consisted of - Period 1, patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus DPI. Period 2, patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. Period 3, patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. In Part 2 of the study, at 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.</p>
<b>Total</b>	Total of all reporting groups

**Baseline Measures**

	<b>Part 1: Sequence A, Part 2: Sequence A</b>	<b>Part 1 : Sequence B, Part 2: Sequence B</b>	<b>Part 1: Sequence C, Part 2: Sequence C</b>	<b>Part 1; Sequence D, Part 2: Sequence D</b>	<b>Part 1: Sequence E, Part 2: Sequence E</b>	<b>Part 1: Sequence F, Part 2: Sequence F</b>	<b>Total</b>
<b>Number of Participants [units: participants]</b>	4	5	4	5	4	5	27

<b>Age</b> [units: years] <b>Mean (Standard Deviation)</b>	<b>59.0 (9.20)</b>	<b>63.0 (7.58)</b>	<b>58.5 (5.07)</b>	<b>58.4 (5.18)</b>	<b>60.5 (5.80)</b>	<b>61.6 (5.86)</b>	<b>60.3 (6.17)</b>
<b>Gender</b> [units: participants]							
<b>Female</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>7</b>
<b>Male</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>20</b>

## ▶ Outcome Measures

▬ Hide All Outcome Measures

1. Primary: Percentage of Participants With Maximum Heart Rate Increase During Exercise in Part 1 of the Study [ Time Frame: 24-hours post-dose on Day 1 (of each treatment) ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Percentage of Participants With Maximum Heart Rate Increase During Exercise in Part 1 of the Study
<b>Measure Description</b>	The percentage of patients with an increase of more than 10 beats per minute (bpm) in their heart rate following treatment with indacaterol and salmeterol compared to treatment with placebo was determined.
<b>Time Frame</b>	24-hours post-dose on Day 1 (of each treatment)
<b>Safety Issue</b>	No

### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

The safety population consisted of all subjects who received at least one dose of study medication after randomization.

**Reporting Groups**

	Description
<b>Part 1: Indacaterol 300µg</b>	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1 : Salmeterol 50µg</b>	Patient received single dose of salmeterol 50µg via Diskus DPI. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).

**Measured Values**

	Part 1: Indacaterol 300µg	Part 1 : Salmeterol 50µg
<b>Number of Participants Analyzed</b> [units: participants]	25	25
<b>Percentage of Participants With Maximum Heart Rate Increase During Exercise in Part 1 of the Study</b> [units: Percentage of participants] Number (95% Confidence Interval)	20.00 (6.83 to 40.70)	16.0 (4.54 to 36.0)

**No statistical analysis provided for Percentage of Participants With Maximum Heart Rate Increase During Exercise in Part 1 of the Study**

2. Primary: Percentage of Participants With Maximum Heart Rate Increase During Salbutamol Administration in Part 2 of the Study [ Time Frame: 24 hours post dose on Day 1 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Percentage of Participants With Maximum Heart Rate Increase During Salbutamol Administration in Part 2 of the Study
<b>Measure Description</b>	<p>The percentage of patients with an increase of <math>\geq 10</math> beats per minute (bpm) in their heart rate (HR) following treatment with indacaterol and salmeterol compared to treatment with placebo over 24 hours in Part 2 was determined.</p> <ul style="list-style-type: none"> <li>0-12 hours: post first dose measurements up to second dose</li> </ul>

	<ul style="list-style-type: none"> <li>• 12-24 hours: post second dose measurement up to and including the 24 hour measurement</li> <li>• 0-24 hours: all post dose measurements up to and including the 24 hour measurement</li> </ul>
<b>Time Frame</b>	24 hours post dose on Day 1
<b>Safety Issue</b>	No

### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

Safety population. ECG monitoring was not performed successfully for three subjects in Part 2 during the afternoon monitoring. These subjects were therefore excluded from the analysis of heart rate. In a patient where data for the second 12 hour period is missing, 0-24 is not reported; hence the discrepancy of 4 and 3 subjects.

### Reporting Groups

	Description
<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	Patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>	Patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

### Measured Values

	<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>

<b>Number of Participants Analyzed</b> [units: participants]	<b>23</b>	<b>23</b>
<b>Percentage of Participants With Maximum Heart Rate Increase During Salbutamol Administration in Part 2 of the Study</b> [units: Percentage of participants] Number (95% Confidence Interval)		
<b>0 - 12 hours (N= 23,23)</b>	<b>17.39</b> <b>(4.95 to 38.78)</b>	<b>17.39</b> <b>(4.95 to 38.78)</b>
<b>12 - 24 hours (N= 20, 20)</b>	<b>10.00</b> <b>(1.23 to 31.70)</b>	<b>25.00</b> <b>(8.66 to 49.10)</b>
<b>0 - 24 hours (N= 23, 23)</b>	<b>13.04</b> <b>(2.78 to 33.59)</b>	<b>17.39</b> <b>(4.95 to 38.78)</b>

**No statistical analysis provided for Percentage of Participants With Maximum Heart Rate Increase During Salbutamol Administration in Part 2 of the Study**

3. Primary: Maximum Heart Rate During Exercise in Part 1 [ Time Frame: 2 hour post-dose on Day 1 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Maximum Heart Rate During Exercise in Part 1
<b>Measure Description</b>	Maximum heart rate was generally taken from the continuous ECG monitoring. Analysis based on mixed effects analysis using model with treatment and period as fixed effects and subject as random effect.
<b>Time Frame</b>	2 hour post-dose on Day 1
<b>Safety Issue</b>	No

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or**

another method. Also provides relevant details such as imputation technique, as appropriate.

The safety population consisted of all subjects who received at least one dose of study medication after randomization.

### Reporting Groups

	Description
<b>Part 1: Indacaterol 300µg</b>	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1 : Salmeterol 50µg</b>	Patient received single dose of salmeterol 50µg via Diskus DPI. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1: Placebo</b>	Patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).

### Measured Values

	Part 1: Indacaterol 300µg	Part 1 : Salmeterol 50µg	Part 1: Placebo
<b>Number of Participants Analyzed</b> [units: participants]	26	25	26
<b>Maximum Heart Rate During Exercise in Part 1</b> [units: Beats per minute (bpm)] Least Squares Mean (95% Confidence Interval)	133.13 (125.90 to 140.36)	131.18 (123.86 to 138.49)	129.96 (122.73 to 137.19)

No statistical analysis provided for Maximum Heart Rate During Exercise in Part 1

4. Primary: Maximum Heart Rate (HR) During Salbutamol Administration in Part 2 [ Time Frame: 24 hours post dose on Day 1 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Maximum Heart Rate (HR) During Salbutamol Administration in Part 2

<b>Measure Description</b>	Maximum HR (0-12 hours): maximum (max) of post dose measurement up to second administration. Maximum HR (12-24 hours): max of the post second administration of salbutamol measurements. Maximum HR (0-24 hours): max of all post dose measurements up to and including the 24 hour measurement. Mixed effects analysis model used period baseline HR as the covariate. The maximum HR for 0-24 hours (h) is the maximum of the maximum HR for the two 12h periods and thus the average (LS means) of the maximum HRs for 0-24h will be equal to or greater than the average of the maximum for the two periods.
<b>Time Frame</b>	24 hours post dose on Day 1
<b>Safety Issue</b>	No

### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

The safety population consisted of all subjects who received at least one dose of study medication after randomization. ECG monitoring was not performed successfully for three subjects in Part 2 during the afternoon monitoring. These subjects were therefore excluded from the analysis of heart rate.

### Reporting Groups

	Description
<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	Patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>	Patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

**Part 2:Placebo Morning/Placebo Evening**

Patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

**Measured Values**

	<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>	<b>Part 2:Placebo Morning/Placebo Evening</b>
<b>Number of Participants Analyzed [units: participants]</b>	<b>23</b>	<b>24</b>	<b>23</b>
<b>Maximum Heart Rate (HR) During Salbutamol Administration in Part 2 [units: Beats per minute (bpm)] Least Squares Mean (95% Confidence Interval)</b>			
<b>0 - 12 hours (N= 23, 24, 23)</b>	<b>98.026 (90.407 to 105.645)</b>	<b>98.087 (90.575 to 105.598)</b>	<b>97.960 (90.317 to 105.603)</b>
<b>12 - 24 hours (N= 20, 21, 20)</b>	<b>97.179 (91.195 to 103.164)</b>	<b>99.954 (94.047 to 105.861)</b>	<b>97.786 (91.779 to 103.794)</b>
<b>0 - 24 hours (N= 23, 24, 23)</b>	<b>102.501 (95.504 to 109.498)</b>	<b>102.303 (95.394 to 109.212)</b>	<b>103.951 (96.931 to 110.971)</b>

No statistical analysis provided for Maximum Heart Rate (HR) During Salbutamol Administration in Part 2

5. Secondary: Change in Heart Rate During Exercise in Part 1 [ Time Frame: 1.5 hour post dose to max heart rate during exercise ]

<b>Measure Type</b>	Secondary
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<b>Measure Title</b>	Change in Heart Rate During Exercise in Part 1
<b>Measure Description</b>	Change in heart rate is calculated from the 1.5 hour post dose to the maximum heart rate during exercise. Analysis of covariance included treatment and period as fixed effects, subject as random effect and 1.5 hour pre-exercise/post dose heart rate as a covariate.
<b>Time Frame</b>	1.5 hour post dose to max heart rate during exercise
<b>Safety Issue</b>	No

### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

The safety population consisted of all subjects who received at least one dose of study medication after randomization.

### Reporting Groups

	<b>Description</b>
<b>Part 1: Indacaterol 300µg</b>	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1 : Salmeterol 50µg</b>	Patient received single dose of salmeterol 50µg via Diskus DPI. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1: Placebo</b>	Patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).

### Measured Values

	<b>Part 1: Indacaterol 300µg</b>	<b>Part 1 : Salmeterol 50µg</b>	<b>Part 1: Placebo</b>
<b>Number of Participants Analyzed [units: participants]</b>	<b>26</b>	<b>25</b>	<b>26</b>
<b>Change in Heart Rate During Exercise in Part 1</b>			

<b>[units: Beats per minute (bpm)]</b>	<b>66.246 (58.941 to 73.551)</b>	<b>64.265 (56.868 to 71.663)</b>	<b>63.058 (55.761 to 70.355)</b>
<b>Least Squares Mean (95% Confidence Interval)</b>			

#### No statistical analysis provided for Change in Heart Rate During Exercise in Part 1

6. Secondary: Trough Forced Expiratory Volume in 1 Second (FEV1) During Part 1 and Part 2 [ Time Frame: 23 hours 30 minutes and 24 hours post-dose at Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Trough Forced Expiratory Volume in 1 Second (FEV1) During Part 1 and Part 2
<b>Measure Description</b>	FEV1 was measured with spirometry conducted according to internationally accepted standards. Trough FEV1 was defined as the mean of the 23 hours 30 minutes and 24 hours post morning dose FEV1 measurements. Analysis of covariance included pre-dose FEV1 as covariate.
<b>Time Frame</b>	23 hours 30 minutes and 24 hours post-dose at Day 1
<b>Safety Issue</b>	No

#### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

The safety population consisted of all subjects who received at least one dose of study medication after randomization.

#### Reporting Groups

	Description
<b>Part 1: Indacaterol 300µg</b>	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1 : Salmeterol 50µg</b>	Patient received single dose of salmeterol 50µg via Diskus DPI. For each

	treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1: Placebo</b>	Patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	Patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>	Patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Placebo Morning/Placebo Evening</b>	Patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

**Measured Values**

	<b>Part 1: Indacaterol 300µg</b>	<b>Part 1 : Salmeterol 50µg</b>	<b>Part 1: Placebo</b>	<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	<b>Part 2:Salmeterol 50µg Morning/Salmeterol 50µg Evening</b>	<b>Part 2:Placebo Morning/Placebo Evening</b>
<b>Number of Participants</b>						

<b>Analyzed</b> [units: participants]	<b>26</b>	<b>25</b>	<b>26</b>	<b>23</b>	<b>24</b>	<b>23</b>
<b>Trough Forced Expiratory Volume in 1 Second (FEV1) During Part 1 and Part 2</b> [units: Liters] Least Squares Mean (95% Confidence Interval)	<b>1.72</b> (1.65 to 1.79)	<b>1.59</b> (1.52 to 1.66)	<b>1.56</b> (1.49 to 1.63)	<b>1.75</b> (1.67 to 1.82)	<b>1.68</b> (1.60 to 1.75)	<b>1.54</b> (1.46 to 1.62)

No statistical analysis provided for Trough Forced Expiratory Volume in 1 Second (FEV1) During Part 1 and Part 2

 **Serious Adverse Events**

 Hide Serious Adverse Events

<b>Time Frame</b>	No text entered.
<b>Additional Description</b>	All patients who received at least one dose of treatment were included in the safety and tolerability evaluation.

**Reporting Groups**

	<b>Description</b>
<b>Part 1:Indacaterol 300mcg</b>	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1:Salmeterol 50mcg</b>	Patient received single dose of salmeterol 50µg via Diskus DPI. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1:Placebo</b>	Patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).

<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	Patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Salmeterol AM 50mcg/Salmeterol PM 50mcg</b>	Patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Placebo Morning/Placebo Evening</b>	Patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

### Serious Adverse Events

	Part 1:Indacaterol 300mcg	Part 1:Salmeterol 50mcg	Part 1:Placebo	Part 2:Indacaterol 300µg Morning/Placebo Evening	Part 2:Salmeterol AM 50mcg/Salmeterol PM 50mcg	Part 2:Placebo Morning/Placebo Evening
<b>Total, serious adverse events</b>						
# participants affected / at risk	1/26 (3.85%)	0/25 (0.00%)	1/26 (3.85%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
Respiratory, thoracic and mediastinal disorders						
Chronic obstructive pulmonary disease						

† 1						
# participants affected / at risk	0/26 (0.00%)	0/25 (0.00%)	1/26 (3.85%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
Surgical and medical procedures						
Tonsillectomy † 1						
# participants affected / at risk	1/26 (3.85%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)

† Events were collected by systematic assessment

1 Term from vocabulary, MedDRA 10.X

## ▶ Other Adverse Events

▢ Hide Other Adverse Events

Time Frame	No text entered.
Additional Description	All patients who received at least one dose of treatment were included in the safety and tolerability evaluation.

## Frequency Threshold

Threshold above which other adverse events are reported	3%
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## Reporting Groups

	Description
Part 1:Indacaterol 300mcg	Patient received a single inhaled dose of indacaterol 300µg capsule via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
Part 1:Salmeterol 50mcg	Patient received single dose of salmeterol 50µg via Diskus DPI. For each treatment

	period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 1:Placebo</b>	Patient received single dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am).
<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	Patients received a morning single inhalational dose of indacaterol 300µg and an evening single inhalation dose of indacaterol matching placebo via the Concept1 inhaler device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Salmeterol AM 50mcg/Salmeterol PM 50mcg</b>	Patients received morning and evening single inhalational dose of salmeterol 50µg via Diskus dry powder inhaler (DPI). For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.
<b>Part 2:Placebo Morning/Placebo Evening</b>	Patients received single inhalation dose of indacaterol matching placebo in morning and evening via Concept1 device. For each treatment period and for each patient, the doses were to be administered at approximately the same time in the morning (i.e. between 8 and 9am) and the evening dose between 8 and 9pm. 20 minutes following each dose, patients received three doses of nebulized salbutamol 2.5 mg at 20 minute intervals.

### Other Adverse Events

	<b>Part 1:Indacaterol 300mcg</b>	<b>Part 1:Salmeterol 50mcg</b>	<b>Part 1:Placebo</b>	<b>Part 2:Indacaterol 300µg Morning/Placebo Evening</b>	<b>Part 2:Salmeterol AM 50mcg/Salmeterol PM 50mcg</b>	<b>Part 2:Placebo Morning/Placebo Evening</b>
<b>Total, other (not including serious) adverse events</b>						
<b># participants affected / at risk</b>	<b>9/26 (34.62%)</b>	<b>4/25 (16.00%)</b>	<b>4/26 (15.38%)</b>	<b>8/23 (34.78%)</b>	<b>8/24 (33.33%)</b>	<b>6/23 (26.09%)</b>

<b>Cardiac disorders</b>						
<b>Atrial fibrillation † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	1/24 (4.17%)	0/23 (0.00%)
<b>Palpitations † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	1/24 (4.17%)	0/23 (0.00%)
<b>Gastrointestinal disorders</b>						
<b>Abdominal pain † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	1/23 (4.35%)	0/24 (0.00%)	0/23 (0.00%)
<b>Diarrhoea † 1</b>						
<b># participants affected / at risk</b>	1/26 (3.85%)	0/25 (0.00%)	0/26 (0.00%)	1/23 (4.35%)	1/24 (4.17%)	0/23 (0.00%)
<b>Gingivitis † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	1/24 (4.17%)	0/23 (0.00%)
<b>Toothache † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	1/26 (3.85%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>General disorders</b>						
<b>Catheter thrombosis † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	1/25 (4.00%)	0/26 (0.00%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>Chills † 1</b>						

<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>1/23 (4.35%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Fatigue † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>1/23 (4.35%)</b>
<b>Feeling hot † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>1/26 (3.85%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Pyrexia † 1</b>						
<b># participants affected / at risk</b>	<b>1/26 (3.85%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Infections and infestations</b>						
<b>Nasopharyngitis † 1</b>						
<b># participants affected / at risk</b>	<b>1/26 (3.85%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>1/23 (4.35%)</b>	<b>0/24 (0.00%)</b>	<b>1/23 (4.35%)</b>
<b>Tooth abscess † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>1/26 (3.85%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Injury, poisoning and procedural complications</b>						
<b>Procedural dizziness † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>1/26 (3.85%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Musculoskeletal and connective tissue disorders</b>						
<b>Musculoskeletal</b>						

<b>chest pain † 1</b>						
<b># participants affected / at risk</b>	<b>1/26 (3.85%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Neck pain † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>1/23 (4.35%)</b>
<b>Nervous system disorders</b>						
<b>Dizziness † 1</b>						
<b># participants affected / at risk</b>	<b>1/26 (3.85%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>1/24 (4.17%)</b>	<b>2/23 (8.70%)</b>
<b>Headache † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>1/25 (4.00%)</b>	<b>1/26 (3.85%)</b>	<b>0/23 (0.00%)</b>	<b>2/24 (8.33%)</b>	<b>1/23 (4.35%)</b>
<b>Neuropathy peripheral † 1</b>						
<b># participants affected / at risk</b>	<b>1/26 (3.85%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>0/23 (0.00%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Tremor † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>2/23 (8.70%)</b>	<b>3/24 (12.50%)</b>	<b>2/23 (8.70%)</b>
<b>Respiratory, thoracic and mediastinal disorders</b>						
<b>Cough † 1</b>						
<b># participants affected / at risk</b>	<b>2/26 (7.69%)</b>	<b>0/25 (0.00%)</b>	<b>1/26 (3.85%)</b>	<b>1/23 (4.35%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>
<b>Dyspnoea † 1</b>						
<b># participants</b>	<b>1/26 (3.85%)</b>	<b>1/25 (4.00%)</b>	<b>1/26 (3.85%)</b>			

affected / at risk				0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>Pharyngolaryngeal pain † 1</b>						
<b># participants affected / at risk</b>	1/26 (3.85%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>Productive cough † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	1/25 (4.00%)	0/26 (0.00%)	0/23 (0.00%)	1/24 (4.17%)	0/23 (0.00%)
<b>Skin and subcutaneous tissue disorders</b>						
<b>Erythema † 1</b>						
<b># participants affected / at risk</b>	1/26 (3.85%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>Hyperhidrosis † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	1/26 (3.85%)	0/23 (0.00%)	0/24 (0.00%)	0/23 (0.00%)
<b>Hypoaesthesia facial † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	1/23 (4.35%)	1/24 (4.17%)	1/23 (4.35%)
<b>Nail disorder † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	0/23 (0.00%)	1/24 (4.17%)	0/23 (0.00%)
<b>Pruritus generalised † 1</b>						
<b># participants affected / at risk</b>	0/26 (0.00%)	0/25 (0.00%)	0/26 (0.00%)	1/23 (4.35%)	0/24 (0.00%)	0/23 (0.00%)
<b>Vascular disorders</b>						
<b>Diastolic</b>						

<b>hypertension † 1</b>						
<b># participants affected / at risk</b>	<b>0/26 (0.00%)</b>	<b>0/25 (0.00%)</b>	<b>0/26 (0.00%)</b>	<b>1/23 (4.35%)</b>	<b>0/24 (0.00%)</b>	<b>0/23 (0.00%)</b>

† Events were collected by systematic assessment

1 Term from vocabulary, MedDRA 10.X

## ▶ Limitations and Caveats

▬ Hide Limitations and Caveats

**Limitations of the study, such as early termination leading to small numbers of participants analyzed and technical problems with measurement leading to unreliable or uninterpretable data**

No text entered.

## ▶ More Information

▬ Hide More Information

### Certain Agreements:

Principal Investigators are **NOT** employed by the organization sponsoring the study.

There **IS** an agreement between Principal Investigators and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

The agreement is:

- The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **less than or equal to 60 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.
- The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **more than 60 days but less than or equal to 180 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.

Other disclosure agreement that restricts the right of the PI to discuss or publish trial results after the trial is completed.



**Restriction Description:** The terms and conditions of Novartis' agreements with its investigators may vary. However, Novartis does not prohibit any investigator from publishing. Any publications from a single-site are postponed until the publication of the pooled data (i.e., data from all sites) in the clinical trial.

**Results Point of Contact:**

Name/Title: Study Director  
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