

Trial record **1 of 1** for: CSPP100A2347[Previous Study](#) | [Return to List](#) | [Next Study](#)**Efficacy and Safety of Aliskiren and Valsartan Versus Placebo in Patients Stabilized Following an Acute Coronary Syndrome****This study has been completed.****Sponsor:**  
Novartis**Collaborator:**  
The TIMI Study Group**Information provided by:**  
Novartis**ClinicalTrials.gov Identifier:**  
NCT00409578

First received: December 7, 2006

Last updated: April 15, 2011

Last verified: April 2011

[History of Changes](#)[Full Text View](#)[Tabular View](#)[Study Results](#)[Disclaimer](#)[How to Read a Study Record](#)

Results First Received: January 11, 2011

<b>Study Type:</b>	Interventional
<b>Study Design:</b>	Allocation: Randomized; Endpoint Classification: Safety/Efficacy Study; Intervention Model: Parallel Assignment; Masking: Double Blind (Subject, Investigator, Outcomes Assessor); Primary Purpose: Treatment
<b>Conditions:</b>	Post Acute Coronary Syndrome Myocardial Ischemia
<b>Interventions:</b>	Drug: Placebo Drug: Aliskiren 300 mg Drug: Valsartan 320 mg Drug: Aliskiren/valsartan 300/320 mg

**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

No text entered.

**Reporting Groups**

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

**Participant Flow: Overall Study**

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>STARTED</b>	<b>280</b>	<b>271</b>	<b>269</b>	<b>281</b>
<b>COMPLETED</b>	<b>228</b>	<b>201</b>	<b>215</b>	<b>214</b>
<b>NOT COMPLETED</b>	<b>52</b>	<b>70</b>	<b>54</b>	<b>67</b>
Adverse Event	27	37	25	33
Abnormal laboratory value(s)	2	2	2	4
Lack of Efficacy	0	0	0	2
Subject no longer requires study drug	0	0	0	1
Withdrawal by Subject	8	15	16	17
Lost to Follow-up	2	0	2	2
Administrative problems	8	9	2	4
Death	2	4	4	2
Protocol Violation	3	2	3	1
Missing	0	1	0	1

**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>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Total</b>	Total of all reporting groups

**Baseline Measures**

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg	Total
<b>Number of Participants</b> [units: participants]	280	271	269	281	1101
<b>Age</b> [units: years] Mean (Standard Deviation)	63 (11.8)	63 (11.7)	64 (11.6)	63 (11.1)	63 (11.6)
<b>Gender</b> [units: participants]					
Female	103	86	72	87	348
Male	177	185	197	194	753

## Outcome Measures

 Hide All Outcome Measures

1. Primary: Change From Baseline in N-terminal proB-type Natriuretic Peptide (NT-proBNP) at Week 8 [ Time Frame: Baseline to Week 8 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Change From Baseline in N-terminal proB-type Natriuretic Peptide (NT-proBNP) at Week 8
<b>Measure Description</b>	Blood samples for the measurement of NT-proBNP were collected, processed, and shipped to the TIMI Biomarker Core Laboratory, Boston MA for storage and analysis. The change from baseline to Week 8 was expressed as the geometric mean of the ratio: Week 8/Baseline.
<b>Time Frame</b>	Baseline to Week 8
<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.

Full analysis set: All patients who were correctly randomized. Missing baseline values were not imputed. The last post-baseline biomarker measurement collected was used for analysis. In the aliskiren treated group, 4 patients never received study drug but were included in the full analysis set but were not included in any efficacy analyses.

## Reporting Groups

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

## Measured Values

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>Number of Participants Analyzed</b> [units: participants]	259	235	246	256

<b>Change From Baseline in N-terminal proB-type Natriuretic Peptide (NT-proBNP) at Week 8</b> [units: pg/mL] Geometric Mean (95% Confidence Interval)	<b>0.582</b> (0.502 to 0.676)	<b>0.563</b> (0.483 to 0.656)	<b>0.614</b> (0.526 to 0.716)	<b>0.635</b> (0.548 to 0.737)
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No statistical analysis provided for Change From Baseline in N-terminal proB-type Natriuretic Peptide (NT-proBNP) at Week 8

2. Secondary: Change From Baseline in B-type Natriuretic Peptide (BNP) at Week 8 [ Time Frame: Baseline to Week 8 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Change From Baseline in B-type Natriuretic Peptide (BNP) at Week 8
<b>Measure Description</b>	Blood samples for the measurement of BNP were collected, processed, and shipped to the TIMI Biomarker Core Laboratory, Boston MA for storage and analysis. The change from baseline to Week 8 was expressed as the geometric mean of the ratio: Week 8/Baseline.
<b>Time Frame</b>	Baseline to Week 8
<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.

Full analysis set: All patients who were correctly randomized. Missing baseline values were not imputed. The last post-baseline biomarker measurement collected was used for analysis. In the aliskiren treated group, 4 patients never received study drug but were included in the full analysis set but were not included in any efficacy analyses.

Reporting Groups

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

Measured Values

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>Number of Participants Analyzed</b> [units: participants]	<b>252</b>	<b>229</b>	<b>237</b>	<b>252</b>
<b>Change From Baseline in B-type Natriuretic Peptide (BNP) at Week 8</b> [units: pg/mL] Geometric Mean (95% Confidence Interval)	<b>0.642</b> (0.535 to 0.770)	<b>0.597</b> (0.495 to 0.720)	<b>0.670</b> (0.554 to 0.810)	<b>0.682</b> (0.568 to 0.818)

No statistical analysis provided for Change From Baseline in B-type Natriuretic Peptide (BNP) at Week 8

3. Secondary: Percentage of Patients With a Cardiac Event [ Time Frame: Baseline to Week 8 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Percentage of Patients With a Cardiac Event
<b>Measure Description</b>	A cardiac event was defined as at least one of the following events: Cardiovascular death, recurrent myocardial infarction (MI), or hospitalization for congestive heart failure (CHF), all to be confirmed by adjudication.
<b>Time Frame</b>	Baseline to Week 8
<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.**

Full analysis set: All patients who were correctly randomized. Missing baseline values were not imputed. The last post-baseline biomarker measurement collected was used for analysis. In the aliskiren treated group, 4 patients never received study drug but were included in the full analysis set but were not included in any efficacy analyses.

**Reporting Groups**

	<b>Description</b>
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

**Measured Values**

	<b>Placebo</b>	<b>Aliskiren 300 mg</b>	<b>Valsartan 320 mg</b>	<b>Aliskiren/Valsartan 300/320 mg</b>
<b>Number of Participants Analyzed</b> [units: participants]	<b>278</b>	<b>268</b>	<b>268</b>	<b>278</b>
<b>Percentage of Patients With a Cardiac Event</b> [units: Percentage of patients]	<b>2.9</b>	<b>4.9</b>	<b>4.9</b>	<b>4.0</b>

**No statistical analysis provided for Percentage of Patients With a Cardiac Event**

4. Secondary: Percentage of Patients With a Composite Clinical-biochemical Event [ Time Frame: Baseline to Week 8 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Percentage of Patients With a Composite Clinical-biochemical Event
<b>Measure Description</b>	A composite clinical-biochemical event was defined as at least one of the following events: cardiovascular death confirmed by adjudication, recurrent MI confirmed by adjudication, hospitalization for CHF confirmed by adjudication, and/or NT-proBNP => 200 pg/mL.
<b>Time Frame</b>	Baseline to Week 8
<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.

Full analysis set: All patients who were correctly randomized. Missing baseline values were not imputed. The last post-baseline biomarker measurement collected was used for analysis. In the aliskiren treated group, 4 patients never received study drug but were included in the full analysis set but were not included in any efficacy analyses.

#### Reporting Groups

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

#### Measured Values

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>Number of Participants Analyzed</b> [units: participants]	278	268	268	278
<b>Percentage of Patients With a Composite Clinical-biochemical Event</b> [units: Percentage of patients]	79.5	73.5	77.2	75.2

No statistical analysis provided for Percentage of Patients With a Composite Clinical-biochemical Event

#### Serious Adverse Events

 Hide Serious Adverse Events

<b>Time Frame</b>	No text entered.
<b>Additional Description</b>	Safety set: All patients that received at least 1 dose of study drug. Missing values were not imputed. In the aliskiren group, 4 patients were excluded because they never received study drug. One patient who never received study drug was included in the safety set because he had a date for the end of study treatment on the study completion page.

#### Reporting Groups

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150 mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

**Serious Adverse Events**

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>Total, serious adverse events</b>				
# participants affected / at risk	26/278 (9.35%)	39/264 (14.77%)	33/268 (12.31%)	46/279 (16.49%)
<b>Blood and lymphatic system disorders</b>				
Anaemia † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Idiopathic thrombocytopenic purpura † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Cardiac disorders</b>				
Acute coronary syndrome † 1				
# participants affected / at risk	0/278 (0.00%)	3/264 (1.14%)	1/268 (0.37%)	1/279 (0.36%)
Acute myocardial infarction † 1				
# participants affected / at risk	1/278 (0.36%)	4/264 (1.52%)	2/268 (0.75%)	0/279 (0.00%)
Angina pectoris † 1				
# participants affected / at risk	2/278 (0.72%)	5/264 (1.89%)	3/268 (1.12%)	6/279 (2.15%)
Angina unstable † 1				
# participants affected / at risk	1/278 (0.36%)	2/264 (0.76%)	1/268 (0.37%)	4/279 (1.43%)
Atrial fibrillation † 1				
# participants affected / at risk	2/278 (0.72%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Atrioventricular block complete † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Cardiac failure † 1				
# participants affected / at risk	2/278 (0.72%)	1/264 (0.38%)	3/268 (1.12%)	2/279 (0.72%)
Cardiac failure congestive † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	1/268 (0.37%)	0/279 (0.00%)
Coronary artery disease † 1				
# participants affected / at risk	1/278 (0.36%)	2/264 (0.76%)	2/268 (0.75%)	0/279 (0.00%)
Coronary artery occlusion † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Coronary artery stenosis † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Dressler's syndrome † 1				

# participants affected / at risk	1/278 (0.36%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Myocardial infarction † 1				
# participants affected / at risk	1/278 (0.36%)	2/264 (0.76%)	0/268 (0.00%)	5/279 (1.79%)
Myocardial ischaemia † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	1/268 (0.37%)	4/279 (1.43%)
Palpitations † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Pericarditis † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Postinfarction angina † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Tachyarrhythmia † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Ventricular fibrillation † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Ear and labyrinth disorders				
Vertigo † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Vertigo positional † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Gastrointestinal disorders				
Diarrhoea † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	2/268 (0.75%)	0/279 (0.00%)
Gastritis erosive † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Impaired gastric emptying † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Inguinal hernia † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Peptic ulcer † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
General disorders				
Asthenia † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)



<b>Cardiac death † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	1/279 (0.36%)
<b>Chest pain † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Malaise † 1</b>				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Non-cardiac chest pain † 1</b>				
# participants affected / at risk	2/278 (0.72%)	7/264 (2.65%)	2/268 (0.75%)	3/279 (1.08%)
<b>Sudden cardiac death † 1</b>				
# participants affected / at risk	0/278 (0.00%)	2/264 (0.76%)	2/268 (0.75%)	0/279 (0.00%)
<b>Sudden death † 1</b>				
# participants affected / at risk	1/278 (0.36%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Infections and infestations</b>				
<b>Bronchitis † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	2/268 (0.75%)	1/279 (0.36%)
<b>Cellulitis † 1</b>				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Clostridium difficile colitis † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
<b>Diverticulitis † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Erysipelas † 1</b>				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Helicobacter gastritis † 1</b>				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
<b>Influenza † 1</b>				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
<b>Localised infection † 1</b>				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
<b>Pneumonia † 1</b>				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	3/268 (1.12%)	1/279 (0.36%)
<b>Postoperative wound infection † 1</b>				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	1/268 (0.37%)	0/279 (0.00%)
<b>Sepsis † 1</b>				

# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Septic shock † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Viral infection † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Injury, poisoning and procedural complications				
Arterial injury † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Fall † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Pelvic fracture † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Subdural haematoma † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Thrombosis in device † 1				
# participants affected / at risk	0/278 (0.00%)	2/264 (0.76%)	0/268 (0.00%)	0/279 (0.00%)
Tibia fracture † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Vascular pseudoaneurysm † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
Investigations				
ECG signs of myocardial ischaemia † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Heart rate decreased † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
Metabolism and nutrition disorders				
Gout † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
Hypoglycaemic unconsciousness † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)				
Colon cancer † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)

<b>Hepatic cancer metastatic</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
<b>Nervous system disorders</b>				
<b>Cerebral haemorrhage</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Cerebrovascular accident</b> † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
<b>Cervicobrachial syndrome</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Convulsion</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Presyncope</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Syncope</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	2/279 (0.72%)
<b>Vertebrobasilar insufficiency</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Psychiatric disorders</b>				
<b>Anxiety</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Respiratory, thoracic and mediastinal disorders</b>				
<b>Asthma</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Chronic obstructive pulmonary disease</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Dyspnoea</b> † 1				
# participants affected / at risk	1/278 (0.36%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Epistaxis</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Pulmonary embolism</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	1/279 (0.36%)
<b>Pulmonary oedema</b> † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	2/268 (0.75%)	1/279 (0.36%)
<b>Vascular disorders</b>				

<b>Aortic aneurysm</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
<b>Arterial occlusive disease</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Arterial stenosis</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	0/268 (0.00%)	1/279 (0.36%)
<b>Deep vein thrombosis</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Femoral artery aneurysm</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	1/279 (0.36%)
<b>Hypertension</b> † 1				
# participants affected / at risk	1/278 (0.36%)	0/264 (0.00%)	0/268 (0.00%)	0/279 (0.00%)
<b>Hypertensive emergency</b> † 1				
# participants affected / at risk	0/278 (0.00%)	1/264 (0.38%)	0/268 (0.00%)	0/279 (0.00%)
<b>Hypotension</b> † 1				
# participants affected / at risk	0/278 (0.00%)	3/264 (1.14%)	0/268 (0.00%)	2/279 (0.72%)
<b>Ischaemia</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)
<b>Orthostatic hypotension</b> † 1				
# participants affected / at risk	0/278 (0.00%)	0/264 (0.00%)	1/268 (0.37%)	0/279 (0.00%)

† Events were collected by systematic assessment

1 Term from vocabulary, MedDRA

## Other Adverse Events

 Hide Other Adverse Events

<b>Time Frame</b>	No text entered.
<b>Additional Description</b>	Safety set: All patients that received at least 1 dose of study drug. Missing values were not imputed. In the aliskiren group, 4 patients were excluded because they never received study drug. One patient who never received study drug was included in the safety set because he had a date for the end of study treatment on the study completion page.

## Frequency Threshold

Threshold above which other adverse events are reported	5%
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## Reporting Groups

	Description
<b>Placebo</b>	Placebo tablets and capsules
<b>Aliskiren 300 mg</b>	Following 1 week of treatment with 75 mg of aliskiren (tablets), patients in this arm were titrated up to 150

	mg of aliskiren; 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.
<b>Valsartan 320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study.
<b>Aliskiren/Valsartan 300/320 mg</b>	Following 1 week of treatment with 80 mg of valsartan (capsules), patients in this arm were titrated up to 160 mg of valsartan; 1 week later they were titrated up to 320 mg valsartan for the remainder of the study. Beginning with Week 4, in addition to 320 mg valsartan, patients were treated with 75 mg of aliskiren (tablets); 1 week later patients were titrated up to 150 mg of aliskiren and 1 week later they were titrated up to 300 mg aliskiren for the remainder of the study.

### Other Adverse Events

	Placebo	Aliskiren 300 mg	Valsartan 320 mg	Aliskiren/Valsartan 300/320 mg
<b>Total, other (not including serious) adverse events</b>				
<b># participants affected / at risk</b>	<b>64/278 (23.02%)</b>	<b>61/264 (23.11%)</b>	<b>51/268 (19.03%)</b>	<b>57/279 (20.43%)</b>
<b>Cardiac disorders</b>				
<b>Angina pectoris <sup>† 1</sup></b>				
<b># participants affected / at risk</b>	<b>13/278 (4.68%)</b>	<b>9/264 (3.41%)</b>	<b>14/268 (5.22%)</b>	<b>8/279 (2.87%)</b>
<b>Metabolism and nutrition disorders</b>				
<b>Hyperkalaemia <sup>† 1</sup></b>				
<b># participants affected / at risk</b>	<b>17/278 (6.12%)</b>	<b>16/264 (6.06%)</b>	<b>13/268 (4.85%)</b>	<b>13/279 (4.66%)</b>
<b>Nervous system disorders</b>				
<b>Dizziness <sup>† 1</sup></b>				
<b># participants affected / at risk</b>	<b>15/278 (5.40%)</b>	<b>23/264 (8.71%)</b>	<b>13/268 (4.85%)</b>	<b>19/279 (6.81%)</b>
<b>Headache <sup>† 1</sup></b>				
<b># participants affected / at risk</b>	<b>18/278 (6.47%)</b>	<b>10/264 (3.79%)</b>	<b>7/268 (2.61%)</b>	<b>10/279 (3.58%)</b>
<b>Vascular disorders</b>				
<b>Orthostatic hypotension <sup>† 1</sup></b>				
<b># participants affected / at risk</b>	<b>14/278 (5.04%)</b>	<b>16/264 (6.06%)</b>	<b>12/268 (4.48%)</b>	<b>13/279 (4.66%)</b>

<sup>†</sup> Events were collected by systematic assessment

<sup>1</sup> Term from vocabulary, MedDRA

### 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  
 Organization: Novartis Pharmaceuticals  
 phone: 862 778-8300

#### No publications provided

Responsible Party: External Affairs, Novartis  
 ClinicalTrials.gov Identifier: [NCT00409578](#) [History of Changes](#)  
 Other Study ID Numbers: **CSPP100A2347**  
 Study First Received: December 7, 2006  
 Results First Received: January 11, 2011  
 Last Updated: April 15, 2011  
 Health Authority: United States: Food and Drug Administration  
 Germany: Federal Institute for Drugs and Medical Devices  
 Belgium: The Federal Public Service (FPS) Health, Food Chain Safety and Environment