### **SYNOPSIS** 2.

Name of Sponsor/Company: The Medicines Company Name of Finished Product: Inclisiran Name of Active Ingredient: Inclisiran sodium (ALN-PCSSC)	Individual Study Table Referring to Part of the Dossier Volume: Page:	(For National Authority Use Only)			
Title of Study: A placebo-controlled double-blind randomized trial to compare the effect of different					

**Title of Study:** A placebo-controlled, double-blind, randomized trial to compare the effect of different doses of Inclisiran ALN-PCSSC given as single or multiple subcutaneous injections in subjects with high cardiovascular risk and elevated LDL-C

**Principal Investigator:** Kausik K Ray, MD, Imperial Centre for Cardiovascular Disease Prevention, Department of Primary Care and Public Health, Imperial College London, United Kingdom

Study Centers: 12 centers in Canada, 6 centers in Germany, 14 centers in the Netherlands, 14 centers in the United Kingdom, and 8 centers in the United States

the United Kingdom, and 8 centers in the United States	
<b>Publications (Reference):</b> Ray KK, Landmesser U, Leiter LA, et al. Inclis cardiovascular risk with elevated LDL cholesterol. N Engl J Med. 17 Marc 10.1056/NEJMoa1615758.	h, 2017. DOI:
Studied Period (years):	Phase of Development:
Date first subject enrolled (randomized):21 January 2016	II
Date last subject completed Day 210 End of Study Visit: 6 January 2017	
<ul> <li>10.1056/NEJMoa1615758.</li> <li>Studied Period (years): Date first subject enrolled (randomized): 21 January 2016 Date last subject completed Day 210 End of Study Visit: 6 January 2017 Objectives: <i>Primary Objective</i> To evaluate the effect of inclisiran treatment on LDL-C levels at Day 180. <i>Secondary Objectives</i> To evaluate the effect of inclisiran on the following: <ul> <li>LDL-C levels at Day 90</li> <li>LDL-C levels at other time points</li> <li>PCSK9 levels over time</li> <li>Other lipids, lipoproteins, apolipoproteins</li> <li>Proportion of subjects achieving prespecified global lipid guideline</li> <li>Individual responsiveness to different doses</li> <li>Safety and tolerability profile of inclisiran</li> </ul> </li> <li><i>Exploratory Objectives</i> To collect and evaluate the effect of inclisiran on the following:</li> </ul>	
Primary Objective	2
To evaluate the effect of inclisiran treatment on LDL-C levels at Day 180.	C x
Secondary Objectives	N Ch
To evaluate the effect of inclisiran on the following:	Pop. Ps
• LDL-C levels at Day 90	
• LDL-C levels at other time points	CION SC
• PCSK9 levels over time	ap at p
• Other lipids, lipoproteins, apolipoproteins	101, 12r
• Proportion of subjects achieving prespecified global lipid guideline	es Car. Do
Individual responsiveness to different doses	Op V
• Duration of lipid-lowering effect of different doses	
• Safety and tolerability profile of inclisiran	
Exploratory Objectives	
To collect and evaluate the effect of inclisiran on the following:	

CV events such as CV death, non-fatal MI, resuscitated cardiac arrest, and non-fatal stroke (ischemic and hemorrhagic)

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• Evaluation of anti-drug antibodies (ADA) for the investigational product

### Study Design:

Placebo-controlled, double-blind, randomized, multi-national, multi-center study in subjects with ASCVD or ASCVD-risk equivalents (eg, diabetes and familial hypercholesterolemia) and elevated LDL-C despite maximum tolerated dose of LDL-C lowering therapies to evaluate the efficacy, safety, and tolerability of inclisiran injection(s).

Treatment allocation was stratified by country and by concurrent use of statins or other lipid-modifying therapies at randomization.

Single Dose (one or two injections on Day 1): placebo for 200 mg; 200 mg inclisiran; placebo for 300 mg; 300 mg inclisiran; placebo for 500 mg; 500 mg inclisiran [two injections, 200 mg plus 300 mg to achieve 500 mg dose].

Double Dose (one injection on Day 1 and one injection on Day 90): placebo for 100 mg; 100 mg inclisiran; placebo for 200 mg; 200 mg inclisiran; placebo for 300 mg; 300 mg inclisiran.

After first study drug administration, the subject was observed in the clinic for at least 4 hours post injection and was then discharged. Subjects returned on Day 14 and Day 30 and then at monthly intervals for 6 months. Once subjects' LDL-C levels return to baseline levels and they complete the study to Day 210, subjects will be given the opportunity to enroll in a separate long-term extension study in order to collect long-term efficacy and safety data.

An independent Data Monitoring Committee (DMC) reviewed safety data beginning after the first 40 subjects had received the first dose of inclisiran or placebo and completed the Day 14 follow-up visit. Thereafter, the DMC reviewed safety data every 2 months until the end of the trial. A recommendation could be taken to stop the study at any of these reviews.

Any subjects in whom LDL-C levels had not returned to >80% of baseline values by Day 210 continued to be followed on a monthly visit schedule in this study until either this level had been reached or until a maximum of Day 360 at which point they will be given the opportunity to enroll in the long-term extension study. At each visit, LDL-C levels, AEs, SAEs, concomitant medications, and safety laboratory assessments were collected.

The data presented in this clinical study report include the Day 180 primary analysis and all data through the Day 210 End of Study Visit. Data from the additional follow up period (Day 210 through Day 360) for those subjects that require additional follow up will be presented in an addendum to this clinical study This con report.

### Number of Subjects (Planned and Analyzed):

Planned: 480 subjects

60 subjects per each of six inclisiran dose groups plus 120 subjects total across the placebo groups (20 subjects each to match each of the six dose groups)

### Analyzed: 501 subjects

Single Dose Groups: placebo (single dose placebo groups pooled), 65 subjects; 200 mg inclisiran, 60 subjects; 300 mg inclisiran 62 subjects; 500 mg inclisiran, 66 subjects

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Inclisii	an sodium (ALN-PCSSC)			
		e dose placebo groups pooled) jects; 300 mg inclisiran, 61 sub	, 62 subjects; 100 mg inclisiran, jects	
Diagno	osis and Main Criteria for In	clusion:		
Inclusi	on Criteria			
For inc	lusion into the trial, subjects w	vere required to fulfill all of the	following criteria:	
	Male or female subjects $\geq 18$			
2.	familial hypercholesterolemia	D-risk equivalents (symptomat , including subjects whose 10- quivalent had a target LDL-C of	tic atherosclerosis, Type 2 diabetes, year risk of a CV event assessed by of <100 mg/dL).	
3.	Serum LDL-C ≥1.8 mmol/L ( ASCVD-risk equivalent subje	(≥70 mg/dL) for ASCVD subje ects at screening.	ects or $\geq 2.6 \text{ mmol/L} (\geq 100 \text{ mg/dL})$ for	
4.	Fasting triglyceride <4.52 mn	nol/L (<400 mg/dL) at screening	ng.	
5.	Calculated glomerular filtration using standardized local clinic		ed glomerular filtration rate (eGFR)	
6.	Subjects on statins should hav discretion).	ve been receiving a maximally	tolerated dose (investigator's	
7.			zetimibe) should have been on a redication or dose change during	
8.		en and informed consent befor nply with all required study pro	e initiation of any study related seedures.	
Exclus	ion Criteria		Charles Charles	
Subject study:	ts meeting any of the following	g criteria immediately prior to a	andomization were excluded from the	
1.	interfere with participation in	the clinical study, and/or put t	cal condition, that could either he subject at significant risk e participated in the clinical study.	
2.	An underlying known disease, or surgical, physical, or medical condition that, in the opinion of the investigator (or delegate) could interfere with interpretation of the clinical study results.			
3.	New York Heart Association ventricular ejection fraction <	(NYHA) class II, III or IV hea 30%.	rt failure or last known left	
4.	Cardiac arrhythmia within 3 r or via ablation.	nonths prior to randomization	that was not controlled by medication	
5.	Any history of hemorrhagic s	troke.		
6.	Major adverse cardiac event v	within 6 months prior to random	nization.	
7.		sion: systolic blood pressure > randomization despite anti hy		

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	Poorly controlled Type 2 di randomization.	abetes, ie, glycated hemoglobin	A1c (HbA1c) >10.0% prior to		
9.	of the liver or unexplained .	ALT, aspartate aminotransferase	s, neoplastic, or metabolic pathology (AST), elevation >2x ULN or total repeat measurement at least 1 week		
10.	of the trial (eg, acute system	nic infection, cancer, or other ser	e subject was shorter than the duration ious illnesses). This included all ccurring >5 years before screening.		
	use at least two methods of contraceptive implant, long Women who were >2 years	contraception (oral contraceptive - term injectable contraception, i postmenopausal defined as $\geq 1$ y tive pregnancy test within 24 ho	dbearing potential and unwilling to es, barrier methods, approved ntrauterine device or tubal litigation). year since last menstrual period AND ours of randomization or surgically		
	*	to use an acceptable method of b	irth control during the entire study		
		nd/or drug abuse within the last :	5 years.		
14.		igational medicinal products or			
15.	Use of other investigational	medicinal products or devices d	uring the course of the study.		
16.	Any condition that accordin such as but not limited to:	ng to the investigator could interf	ere with the conduct of the study,		
	a. Inappropriate for this st cooperate with the inve	udy, including subjects who wer stigator.	e unable to communicate or to		
	the nature, scope, and p	ne protocol requirements, instruc ossible consequences of the stud ful due to drug abuse or alcohol o			
		h the protocol requirements, inst ude, inability to return for follow			
	5	gical condition, which in the opi	nion of the investigator would put the ed in the conduct of the study.		
	e. Involved with, or a rela	with, or a relative of, someone directly involved in the conduct of the study.			
	f. Any known cognitive impairment (eg, Alzheimer's disease).				
	Previous or current treatment towards PCSK9.	nt (within 90 days of screening)	with monoclonal antibodies directed		
<b>G</b> 1 · · ·	a evaluded for any of the ab	ove reasons could not be re-scree	and for participation at any time if		

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the exclusion characteristic had cha	nged.		
Test Product, Dose and Mode of A Inclisiran Solution for Injection (sul Lot B140356 (expiry date 18 Septer <i>Single Dose:</i> 200 mg, 300 mg, 500 One or two SC injections on Day 1 <i>Double Dose:</i> 100 mg, 200 mg, 300 One SC injection on Day 1 and one	bcutaneous [SC] use): 100 mg vi mber 2016) mg (two injections, 200 mg plus 300 ) mg	ial (200 mg/mL)	
Duration of Treatment			
Placebo: sterile normal saline 0.9% Placebo was administered as an SC regimen	injection in an amount matched		
Criteria for Evaluation: <i>Efficacy:</i>		Cr .	
Subjects were in a fasted state for a cholesterol (TC), triglycerides, LDI	Il efficacy laboratory assessment L-C, high density lipoprotein cho (VLDL-C), apolipoprotein A1 (4	s. Parameters assessed included: total esterol (HDL-C), non HDL C, very Apo-A1), apolipoprotein B (Apo-B),	
The primary efficacy endpoint was	the percentage change in LDL-C	c from baseline to Day 180.	
In addition, this study assessed:		all' USS	
Percentage change in LDL-	•	12.34	
0 0	C from baseline to Days 14, 30,		
180 and Day 210		an 80% of the baseline value at Day	
<ul> <li>Duration of time on treatment for subjects to return to 80% of baseline or greater LDL-C or PCSK9 protein</li> <li>Individual responsiveness defined as the number of subjects reaching on treatment LDL-C levels of &lt;25 mg/dL, &lt;50 mg/dL, &lt;70 mg/dL, and &lt;100 mg/dL at Days 90, 120, and 180</li> </ul>			
• Individual responsiveness defined as the number of subjects reaching on treatment LDL-C levels of <25 mg/dL, <50 mg/dL, <70 mg/dL, and <100 mg/dL at Days 90, 120, and 180			
• Proportion of subjects in ea at Days 90, 120, and 180	ch group with greater or equal to	50% LDL-C reduction from baseline	

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## hsCRP, and PCSK9.

- Percentage change in PCSK9 levels from baseline to Days 14, 30, 60, 90, 104, 120, 150, 180, and 210
- Percentage change in other lipids, and apolipoproteins from baseline at each subsequent visit to Day 210
- Proportion of subjects in each group who attained global lipid modification targets for their level of ASCVD risk

### Safety:

The safety objectives of this study were to evaluate the safety and tolerability profile of inclisiran. Safety assessments included adverse events, serious adverse events, adverse events of special interest (AESI), clinical laboratory assessments (hematology, coagulation, biochemistry, urinalysis), vital signs, and electrocardiograms.

In this study, injection site reactions including individual signs or symptoms at the injection site reported following study drug administration were collected as an AESI.

Potential formation of anti-drug antibodies was also evaluated.

## **Statistical Methods:**

*Sample Size:* The sample size calculation was performed with the assumption (which was based on the observed results from a Phase I trial) that the difference in change from baseline between the active dose groups and the placebo group for LDL-C would be no less than 30 mg/dL, with a standard deviation of 20 mg/dL, using a Dunnet multiple t test procedure for six comparisons.

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Assuming about a 15% drop out rate, the sample size was planned to be approximately 100 evaluable subjects total across the placebo groups and approximately 50 subjects in each of six inclisiran groups. This sample size of at least 400 evaluable subjects was expected to provide more than 90% power to detect a 30% reduction of LDL-C levels in at least one inclisiran dose group.

*Analysis of Primary Efficacy Endpoint:* The primary endpoint of this trial was percentage change in LDL-C from baseline to Day 180. Two sample t tests were performed to test the superiority of any dosing group over placebo. A Dunnet multiple t test procedure was applied to adjust for multiple comparisons with six different dosing regimens.

*Interim Analysis:* An interim analysis of lipids and PCSK9, unblinded by dose cohort only, was prepared upon completion of Day 90 by the Statistical Reporting Organization. The interim analysis was performed for all subjects completing Day 90 and these data were used to help select the inclisiran dose for subsequent clinical trials.

## **EFFICACY RESULTS:**

## Change in LDL-C from Baseline

At baseline, and as per the inclusion criteria for the study, clinically significant elevated baseline levels of LDL-C were reported in all subjects, with a mean LDL-C of greater than 120 mg/dL in all groups. Following administration of inclisiran on Day 1, mean LDL-C was reduced by at least 34 mg/dL (27%) by Day 14 and at least this level of reduction was maintained through Day 210 in all inclisiran dose

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Di.	Name of Sponsor/Company: The Medicines Company Name of Finished Product: Inclisiran	Individual Study Table Referring to Part of the Dossier Volume: Page:	(For National Authority Use Only)
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groups. LDL-C levels were unaffected in the placebo group through Day 210.

*Single Dose Groups:* The response showed dose dependency between single doses of 200 mg and 300 mg, with no additional effect at a single dose of 500 mg. The maximum mean LDL C reduction of 50.9% was observed at Day 60, following administration of a single dose of 300 mg inclisiran on Day 1.

*Double Dose Groups:* Maximal LDL-C reduction was observed after the second dose at Day 90. The response showed dose dependency across the dose range studied (double doses of 100 mg, 200 mg and 300 mg). The highest dose of 300 mg administered on Day 1 and Day 90 resulted in a maximum mean LDL C reduction of 55.5% at Day 150.

Percent Change from Baseline Beta-Quantification LDL-C by Dose Group over Time – mITT Population



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## Primary Efficacy Endpoint: Percentage Change in LDL-C from Baseline to Day 180 (mITT Population)

*Single Dose Groups:* The least squares LS mean LDL-C reduction was 27.9%, 38.4% and 41.9% following a single dose of 200 mg, 300 mg and 500 mg inclisiran, respectively, compared to a 2.1% increase in the placebo group (all p<0.0001); mITT Population. The response showed dose dependency between single doses of 200 mg and 300 mg, with no additional effect at a single dose of 500 mg.

*Double Dose Groups:* The LS mean LDL-C reduction was 35.5%, 44.9% and 52.6% following a double dose of 100 mg, 200 mg and 300 mg inclisiran, respectively, compared to a 1.8% increase in the placebo group (all p<0.0001) for the mITT Population. The response showed dose dependency across the dose range studied (double doses of 100 mg, 200 mg and 300 mg).

As expected, the responses were greater in the double inclisiran dose groups compared to the single inclisiran dose groups with an additional reduction beyond that achieved at Day 60 from a second dose of inclisiran at Day 90. The greatest reduction in LDL-C levels at Day 180 (52.6%) was observed in association with the 300 mg dose of inclisiran administered on Day 1, followed by a second dose on Day 90. In the inclisiran 300 mg double dose group, every subject had a reduction in LDL-C level, with a mean reduction of 64.2 mg/dL at Day 180.

Category	Placebo	Inclisi	ran – Singl	e Dose	Placebo	Inclisiran – Double Dose		
	– Single Dose N=64	200 mg N=60	300 mg N=60	500 mg N=60	– Double Dose N=61	100 mg N=59	200 mg N=60	300 mg N=59
Subjects with baseline and Day 180 assessment	64	60	60	60	61 C	59	60	59
Mean ± SD percent change at Day 180	2.1 ± 15.92	-28.1 ± 27.88	-38.6 ± 23.16	-41.5 ± 15.65	1.5 ± 17.80	-35.6 ± 17.70	-44.4 ± 19.11	-52.5 ±16.36
LS mean (95% CI) percent change at Day 180	2.1 (-2.9, 7.2)	-27.9 (-33.1, -22.7)	-38.4 (-43.6, -33.2)	-41.9 (-47.2, -36.7)	1.8 (-2.6, 6.3)	-35.5 (-40.0, -31.0)	-44.9 (-49.3, -40.4)	-52.6 (-57.1, -48.1)
Difference (95% CI) from Placebo LS mean percent change at Day 180	-	-30.1 (-38.8, -21.3)	-40.5 (-49.3, -31.8)	-44.1 (-52.8, -35.3)	-	-37.3 (-44.9, -29.7)	-46.7 (-54.3, -39.1)	-54.5 (-62.1, -46.8)
Dunnett-adjusted p value	-	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	<0.0001

## Secondary Efficacy Endpoints Based on Changes in LDL-C

Responses were dose dependent between single doses of 200 mg and 300 mg, with no apparent increase in response at a single dose of 500 mg. Responses were dose dependent between double doses of 100 mg and 300 mg. Responses were greater in the double dose groups compared to the single dose groups. Overall, and considering the low numbers of subjects in certain risk groups, the proportion of subjects

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achieving LDL-C <70 mg/dL appeared to be independent of baseline cardiovascular risk group suggesting the effect of inclisiran on LDL-C is independent of subject phenotype.

### Secondary Efficacy Endpoint: Percentage Change in PCSK9 Levels from Baseline

Following administration of inclisiran, mean PCKS9 was reduced through Day 210 in all inclisiran dose groups and unaffected in the placebo group through Day 210.

Single Dose Groups: The maximal PCSK9 reduction was observed at Day 30 (reductions of 66.2%, 70.9% and 74.0% at doses of 200 mg, 300 mg and 500 mg, respectively). PCSK9 levels were reduced through Day 210 (reductions of 45.1%, 50.1% and 56.2% at doses of 200 mg, 300 mg and 500 mg, respectively). The response showed dose dependency between single doses of 200 mg and 300 mg, with no additional effect at a single dose of 500 mg.

Double Dose Groups: The maximal PCSK9 reduction was observed at Day 120 (reductions of 60.4%, 73.0% and 74.5% at doses of 100 mg, 200 mg and 300 mg, respectively). PCSK9 levels were reduced through Day 210 (reductions of 47.0%, 63.1% and 64.6% at doses of 100 mg, 200 mg, and 300 mg, respectively). The response showed dose dependency between double doses of 100 mg and 200 mg, with little additional effect at a double dose of 300 mg.

As expected the responses were more sustained over time in the double dose groups with a greater reduction from baseline following the second dose than was achieved with the first dose for all dose groups.

Percent Change from Baseline PCSK9 by Dose Group over Time – mITT Population Single Dose Groups





### Secondary Efficacy Endpoint: Percentage Change in Other Lipids, Apolipoproteins and **Inflammatory Markers from Baseline**

As expected given the mode of action of the drug and the effects on PCSK9 and LDL-C, TC, non-HDL-C and ApoB were significantly reduced in all inclision treatment groups compared to placebo (p < 0.0001). The response showed dose dependency between single doses of 200 mg and 300 mg, with no additional effect at a single dose of 500 mg, and over the double dose range studied (100 mg to 300 mg).

There were no consistent dose-dependent effects of inclisiran on HDL-C, triglycerides, VLDL-C, ApoA1, Lp(a), and hsCRP.

## **Subgroup Analyses of Efficacy**

No subgroup analyses of efficacy were planned; however, post hoc analyses were performed to evaluate the effect of inclisiran on LDL-C and on PCSKS9 by use of statins and by baseline renal function (GFR).

Although the number of subjects not on statins was small, in general, similar reductions in percent change from baseline LDL-C and PCKS9 were noted regardless of statin use across all inclision single and double dose groups.

Baseline GFR was selected for analysis to investigate the effect of renal function in the absence of a renal impairment study. In general, similar reductions in percent change from baseline LDL-C and PCKS9 Vartis. Com were noted regardless of baseline renal function (GFR).

## **SAFETY RESULTS:**

Inclisiran was well tolerated from baseline to Day 210. The incidence of SAEs and AEs was similar between placebo and inclisiran, with no clear dose-related response. There was no clear effect of inclisiran on the frequency of severe or treatment-related AEs or SAEs; however, the number of subjects experiencing these events was low. There were no differences in safety profile between the single dose and double dose groups.

Two subjects died in the study. There was one death in the 500 mg inclisiran group due to myocardial

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infarction. One subject in the 200 mg i Neither death was considered related t	<b>e</b> 1			
No subject withdrew from treatment d one subject in the placebo group and o				
No clear difference or dose relationship was observed between inclisiran groups and placebo for individual AE preferred terms. In both the single and double dose inclisiran groups, no AE was reported with an incidence of more than 10%.				
In the inclision single dose groups combined the most common adverse events in decreasing order of incidence for inclision and placebo respectively, were pasopharyngitis (8.6% and 6.2% respectively)				

incidence for inclisiran and placebo, respectively, were nasopharyngitis (8.6% and 6.2%, respectively), myalgia (5.4% and 4.6%), back pain (4.8% and 7.7%), cough (4.8% and 3.1%), arthralgia (3.8% and 3.1%), fatigue (3.8% and 4.6%, respectively), and headache (3.2% and 9.2%).

In the inclisiran double dose groups combined the most common adverse events in decreasing order of incidence for inclisiran and placebo, respectively, were myalgia (9.2% and 4.8%), headache (6.0% and 6.5%), diarrhea (6% and 3.2%), nasopharyngitis (5.4% and 12.9%) arthralgia (4.3% and 1.6%), and back pain (3.8% and 3.2%), osteoarthritis (3.8% and 1.6%, respectively), and dizziness (3.8% and 6.5%, respectively).

The AE profile through Day 210 was comparable in the single dose and double dose groups. The AE and SAE profile after Day 90 was similar to that before Day 90 for both single and double dose groups, and there were no apparent differences between the single and double dose groups after Day 90. No new AEs or SAEs were identified after Day 90 compared to before Day 90

The majority of AEs were reported as single cases, and all SAEs were reported as single cases, except for MI which occurred in two subjects in the 500 mg inclisiran single dose group and acute MI which occurred in two subjects in the 300 mg inclisiran double dose group.

In this study, injection site reactions including individual signs or symptoms at the injection site reported following study drug administration were collected as an AESI. Events at the injection site were reported after the first and second dose, with no clear difference or dose relationship between inclisiran groups through Day 90 after a single dose or after Day 90 through Day 210 following a second dose. No AESIs were reported for the single dose groups (single dose on Day 1) after Day 90 through Day 210. The frequency of clinically relevant injection site reactions was no different after a second dose of inclisiran (3.4%) than after the first dose (3.5%).

AEs and SAEs were similar across dose groups irrespective of statin use.

AEs and SAEs were similar across dose groups irrespective of baseline renal function (GFR) with no safety concerns observed in subjects with mild or moderate renal impairment.

1. novertis. com No persistent and clinically relevant treatment related abnormalities were reported in any laboratory parameter. A low incidence of AST, ALT and CK rises were reported, although some of these subjects also had elevated baseline value or underlying medical conditions contributing to these elevations. There were no treatment emergent increases in bilirubin from a normal baseline and no case met the definition of Hy's Law. There were no clinically relevant or persistent changes in the inclisiran dose groups observed in any other laboratory parameters including renal function, hemoglobin, platelets, HbA1c and

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## **Sponsor**

Disc, Novartis

## Novartis Study Code

MDCO-PCS-15-01 (orion1)

## EudraCT Number

Authorization Date: 09 Septemb. Authorization Number: 67836