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Trial record **1 of 1** for: TMC-MDC-11-01

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Phase II Study to Compare MDCO-2010 vs Placebo and Tranexamic Acid in Patients Undergoing Cardiac Surgery



The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our [disclaimer](#) for details.

ClinicalTrials.gov Identifier: NCT01530399

[Recruitment Status](#) ⓘ : Terminated (Safety)

[First Posted](#) ⓘ : February 9, 2012

[Results First Posted](#) ⓘ : December 10, 2015

[Last Update Posted](#) ⓘ : December 10, 2015

Sponsor:

The Medicines Company

Information provided by (Responsible Party):

The Medicines Company

[Study Details](#)[Tabular View](#)[Study Results](#)[Disclaimer](#)[How to Read a Study Record](#)

Study Type	Interventional
Study Design	Allocation: Randomized; Intervention Model: Parallel Assignment; Masking: Triple (Participant, Investigator, Outcomes Assessor); Primary Purpose: Treatment
Condition	Bleeding
Interventions	Drug: MDCO 1 Drug: MDCO 2 Drug: MDCO 3 Drug: MDCO 4 Drug: Tranexamic Acid Drug: Saline
Enrollment	44

Participant Flow Go to 

Recruitment Details	
Pre-assignment Details	

Arm/Group Title	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid
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▼ Arm/Group Description	MDCO-2010 Dose 1: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 1: load 15 µg/kg; infusion 30 µg/kg/h; CPB prime 0.11 µg/mL priming volume	MDCO-2010 Dose 2: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 2: load 30 µg/kg; infusion 60 µg/kg/h; CPB prime 0.22 µg/mL priming volume	MDCO-2010 Dose 3: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 3: load 60 µg/kg ; infusion 120 µg/kg/h; CPB prime 0.44 µg/mL priming volume	MDCO-2010 Dose 4: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 4: load 90 µg/kg; infusion 180 µg/kg/h; CPB prime 0.65 µg/mL priming volume	Tranexamic Acid: Tranexamic acid will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with tranexamic acid. The flow rates will be the same as for MDCO-2010.	saline: A loading dose of saline will be followed by a continuous infusion of saline until sternal closure. In addition, the CPB reservoir will be primed with saline. The flow rates will be the same as for MDCO-2010.
Period Title: Overall Study						
Started	8	10	8	10	6	7
Completed	7	8	7	10	6	6
Not Completed	1	2	1	0	0	1

Baseline Characteristics Go to 

Arm/Group Title	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid	Total
▼ Arm/Group Description	MDCO-2010 Dose 1: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 1: load 15 µg/kg; infusion 30 µg/kg/h; CPB prime 0.11 µg/mL priming volume	MDCO-2010 Dose 2: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 2: load 30 µg/kg; infusion 60 µg/kg/h; CPB prime 0.22 µg/mL priming volume	MDCO-2010 Dose 3: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 3: load 60 µg/kg ; infusion 120 µg/kg/h; CPB prime 0.44 µg/mL priming volume	MDCO-2010 Dose 4: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 4: load 90 µg/kg; infusion 180 µg/kg/h; CPB prime 0.65 µg/mL priming volume	Tranexamic Acid: Tranexamic acid will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with tranexamic acid. The flow rates will be the same as for MDCO-2010.	saline: A loading dose of saline will be followed by a continuous infusion of saline until sternal closure. In addition, the CPB reservoir will be primed with saline. The flow rates will be the same as for MDCO-2010.	Total of all reporting groups
Overall Number of Baseline Participants	8	10	8	10	6	7	49

Baseline Analysis [Not Specified]								
Population Description								
Age, Continuous								
Median (Inter-Quartile Range) Unit of measure: Years								
	Number Analyzed	8 participants	10 participants	8 participants	10 participants	6 participants	7 participants	49 participants
		71 (64 to 75)	70 (57 to 73)	66 (60 to 79)	73 (68 to 73)	66 (60 to 71)	58 (52 to 62)	69 (61 to 73)
Sex: Female, Male Measure Type: Count of Participants Unit of measure: Participants								
	Number Analyzed	8 participants	10 participants	8 participants	10 participants	6 participants	7 participants	49 participants
	Female	1 12.5%	2 20.0%	1 12.5%	2 20.0%	2 33.3%	0 0.0%	8 16.3%

	Male	7 87.5%	8 80.0%	7 87.5%	8 80.0%	4 66.7%	7 100.0%	41 83.7%
Region of Enrollment	Number Analyzed	8 participants	10 participants	8 participants	10 participants	6 participants	7 participants	49 participants
Measure Type: Number Unit of measure: Participants								
Germany		6	7	5	7	4	4	33
Switzerland		2	3	3	3	2	3	16

Outcome Measures 

Go to 

1. Primary Outcome

Title	Chest Tube Drainage at 12 Hours After Surgery
▼ Description	[Not Specified]
Time Frame	12 hours post CABG

▼ Outcome Measure Data

▼ Analysis Population Description
[Not Specified]

Arm/Group Title	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tr
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▼ Arm/Group Description:	MDCO-2010 Dose 1: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 1: load 15 µg/kg; infusion 30 µg/kg/h; CPB prime 0.11 µg/mL priming volume	MDCO-2010 Dose 2: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 2: load 30 µg/kg; infusion 60 µg/kg/h; CPB prime 0.22 µg/mL priming volume	MDCO-2010 Dose 3: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 3: load 60 µg/kg ; infusion 120 µg/kg/h; CPB prime 0.44 µg/mL priming volume	MDCO-2010 Dose 4: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 4: load 90 µg/kg; infusion 180 µg/kg/h; CPB prime 0.65 µg/mL priming volume	Tranexamic Acid: Tranexamic acid will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with tranexamic acid. The flow rates will be the same as for MDCO-2010.	salin dos be f con of s clos the will salin rate sarr 201
Overall Number of Participants Analyzed	7	7	6	10	6	
Median (Inter-Quartile Range) Unit of Measure: mL						
	600 (300 to 970)	580 (420 to 880)	480 (350 to 700)	453 (415 to 645)	645 (400 to 1040)	

Adverse Events

Go to

Time Frame	30 (+5) days post treatment					
Adverse Event Reporting Description	[Not Specified]					
Arm/Group Title	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid
▼ Arm/Group Description	MDCO-2010 Dose 1: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 1: load 15 µg/kg; infusion 30 µg/kg/h; CPB prime 0.11 µg/mL priming volume	MDCO-2010 Dose 2: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 2: load 30 µg/kg; infusion 60 µg/kg/h; CPB prime 0.22 µg/mL priming volume	MDCO-2010 Dose 3: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 3: load 60 µg/kg ; infusion 120 µg/kg/h; CPB prime 0.44 µg/mL priming volume	MDCO-2010 Dose 4: MDCO-2010 will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with MDCO-2010. MDCO 4: load 90 µg/kg; infusion 180 µg/kg/h; CPB prime 0.65 µg/mL priming volume	Tranexamic Acid: Tranexamic acid will be administered as a loading dose followed by a continuous infusion until sternal closure. In addition, the CPB reservoir will be primed with tranexamic acid. The flow rates will be the same as for MDCO-2010.	saline: A loading dose of saline will be followed by a continuous infusion of saline until sternal closure. In addition, the CPB reservoir will be primed with saline. The flow rates will be the same as for MDCO-2010.

All-Cause Mortality ⓘ

	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid
	Affected / at Risk (%)					
Total	--/--	--/--	--/--	--/--	--/--	--/--

▼ Serious Adverse Events ⓘ

	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid
	Affected / at Risk (%)					
Total	2/7 (28.57%)	2/8 (25.00%)	1/7 (14.29%)	2/10 (20.00%)	0/6 (0.00%)	0/6 (0.00%)
Blood and lymphatic system disorders						
Haemorrhagic anaemia † ¹	1/7 (14.29%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Cardiac disorders						
Cardiac tamponade † ¹	0/7 (0.00%)	1/8 (12.50%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Coronary artery occlusion † ¹	0/7 (0.00%)	1/8 (12.50%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Low cardiac output syndrome † ¹	0/7 (0.00%)	1/8 (12.50%)	1/7 (14.29%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Injury, poisoning and procedural						

and procedural complications						
Vascular graft thrombosis † ¹	0/7 (0.00%)	0/8 (0.00%)	0/7 (0.00%)	1/10 (10.00%)	0/6 (0.00%)	0/6 (0.00%)
Nervous system disorders						
Ischaemic stroke † ¹	1/7 (14.29%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Renal and urinary disorders						
Renal failure † ¹	1/7 (14.29%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Respiratory, thoracic and mediastinal disorders						
Respiratory failure † ¹	1/7 (14.29%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Vascular disorders						
Arterial thrombosis limb † ¹	0/7 (0.00%)	0/8 (0.00%)	0/7 (0.00%)	1/10 (10.00%)	0/6 (0.00%)	0/6 (0.00%)
Extremity necrosis † ¹	1/7 (14.29%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Jugular vein thrombosis † ¹	0/7 (0.00%)	0/8 (0.00%)	0/7 (0.00%)	1/10 (10.00%)	0/6 (0.00%)	0/6 (0.00%)

† Indicates events were collected by systematic assessment

¹ Term from vocabulary, MedDRA (Unspecified)

▼ Other (Not Including Serious) Adverse Events 

Frequency Threshold for Reporting Other Adverse Events	5%					
	MDCO 1	MDCO 2	MDCO 3	MDCO 4	Saline	Tranexamic Acid
	Affected / at Risk (%)					
Total	5/7 (71.43%)	7/8 (87.50%)	4/7 (57.14%)	7/10 (70.00%)	5/6 (83.33%)	4/6 (66.67%)
Blood and lymphatic system disorders						
Troponin T increased † ¹	1/7 (14.29%)	2/8 (25.00%)	1/7 (14.29%)	1/10 (10.00%)	0/6 (0.00%)	0/6 (0.00%)
Cardiac disorders						
Atrial fibrillation † ¹	1/7 (14.29%)	2/8 (25.00%)	1/7 (14.29%)	2/10 (20.00%)	1/6 (16.67%)	2/6 (33.33%)
Gastrointestinal disorders						
Nausea † ¹	2/7 (28.57%)	1/8 (12.50%)	0/7 (0.00%)	1/10 (10.00%)	2/6 (33.33%)	0/6 (0.00%)
AST increased † ¹	0/7 (0.00%)	0/8 (0.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	2/6 (33.33%)
Hepatobiliary disorders						
AST increased † ¹	0/7 (0.00%)	2/8 (25.00%)	0/7 (0.00%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
Renal and urinary disorders						
Urinary tract infection † ¹	0/7 (0.00%)	0/8 (0.00%)	1/7 (14.29%)	2/10 (20.00%)	2/6 (33.33%)	0/6 (0.00%)

infection † †						
Respiratory, thoracic and mediastinal disorders						
Pleural effusion † †	3/7 (42.86%)	2/8 (25.00%)	1/7 (14.29%)	1/10 (10.00%)	1/6 (16.67%)	0/6 (0.00%)
Pneumothorax † †	0/7 (0.00%)	2/8 (25.00%)	1/7 (14.29%)	0/10 (0.00%)	0/6 (0.00%)	0/6 (0.00%)
† Indicates events were collected by systematic assessment						
† Term from vocabulary, MedDRA (Unspecified)						

Limitations and Caveats

Go to

[Not Specified]

More Information

Go to

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.

After initial multicenter results communications are published, or after 12 months from study closure (whichever occurs first), sponsor can review results communications prior to submission and can embargo submissions for a period of 45 days from the time submitted to the sponsor for review, agreeing to resolve differences of opinion or interpretation through scientific debate. Sponsor can request further delay for an additional 90 days to file any patent applications if deemed necessary

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ClinicalTrials.gov Identifier:

[NCT01530399](#) [History of Changes](#)

Other Study ID Numbers:

TMC-MDC-11-01

First Submitted:

February 7, 2012

First Posted:

February 9, 2012

Results First Submitted:

November 4, 2015

Results First Posted:

December 10, 2015

Last Update Posted:

December 10, 2015