

Review #0  
Date: July 5, 2017

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**Data Safety and Monitoring Board (DSMB) Report #0**

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## **Safety Review Summary**

### ***Enrolment***

- XYZ subjects have been enrolled and XYZ subjects (XYZ in Group A vs. XYZ in Group B) were randomized (Table 1a). XYZ subjects were randomized since XYZ.
- XYZ (XYZ %) subjects (XYZ in Group A vs. XYZ in Group B) were treated.
  - XYZ subjects were randomized in error but did not take any study medication.
- XYZ (XYZ%) deaths have been reported among randomized patients (XYZ in Group A vs. XYZ in Group B).
- Median duration of drug exposure is XYZ months.
- XYZ (<Z %) subjects (XYZ in Group A vs. XYZ in Group B) have withdrawn consent and discontinued the study.
- XYZ (X%) subjects (XYZ in Group A vs. XYZ in Group B) have discontinued study drug.

### ***Adverse events***

- XYZ (XYZ %) subjects (XYZ in Group A vs. XYZ in Group B) experienced XYZ treatment emergent SAEs.
- XYZ (XYZ %) subjects (XYZ in Group A vs. XYZ in Group B) have experienced XYZ AEs overall.
- XYZ suspected unexpected serious adverse reaction was reported.

**Table 1a. Enrollment, Randomization, and Study Completion Summary**

Date of 1 <sup>st</sup> enrollment in trial	
Date of 1 <sup>st</sup> randomization in trial	
Date of 1 <sup>st</sup> treatment in trial	
Total # of subjects enrolled	
Total # of subjects randomized	
Total # of subjects treated	
# of subjects completed study	
# of subjects died	
# of subjects completed study medication treatment	
# of subjects withdrew early from treatment but continuing in trial	
# of subjects withdrew early from trial	

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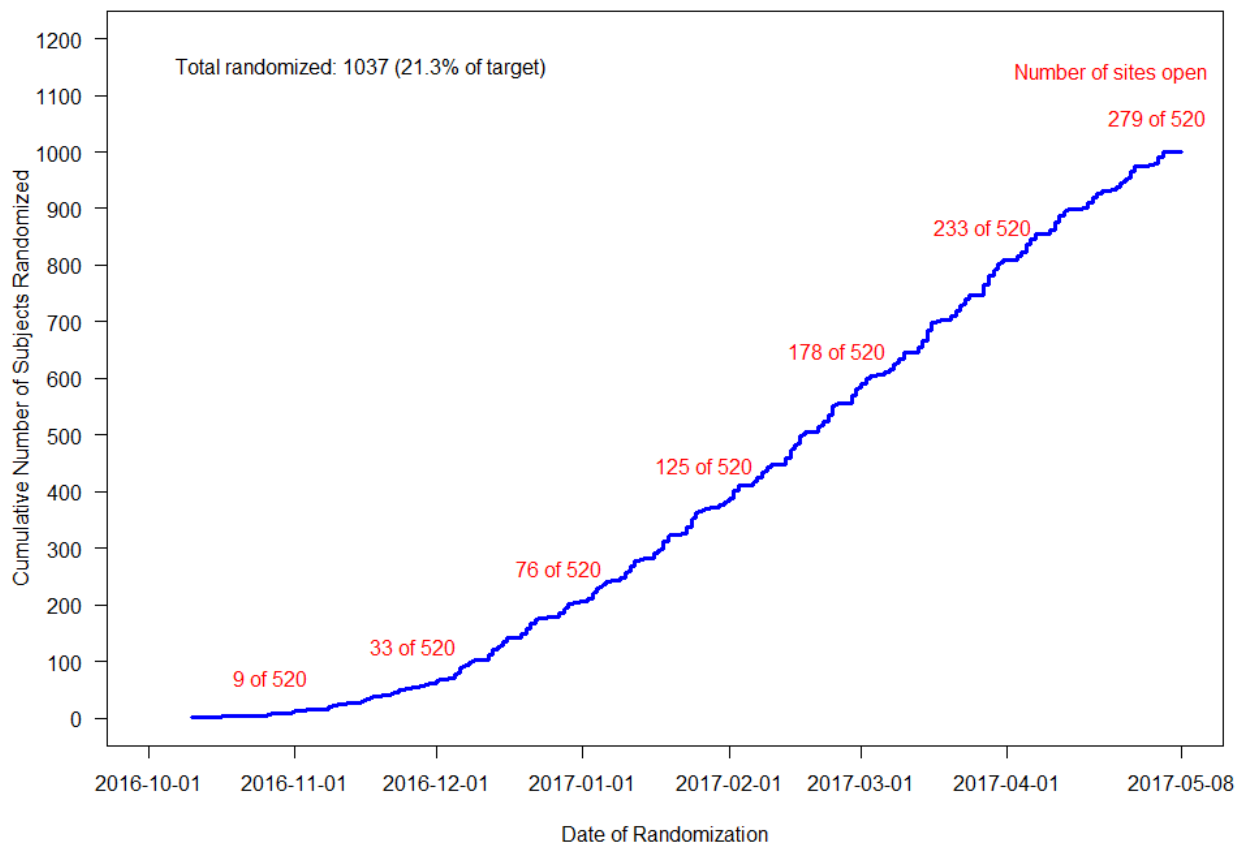
**Table 1b. Summary of Enrollment by Region/Country**

<i>Region</i>	<i>Country</i>	<i>N</i>	<i>%</i>
<b>North America</b>	Canada		
	Mexico		
	United States		

**Table 1c. Summary of Enrollment by Race**

<i>Region</i>	<i>Race</i>	<i>N</i>	<i>%</i>
<b>North America</b>	American Indian or Alaska Native		
	Asian		
	Black or African American		
	Native Hawaiian or other Pacific Islander		
	White/Caucasian		

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**Figure 1. Cumulative Randomization and Number of Participating Sites over Time**

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**Table 2. Demographics of Randomized Subjects**

	Total (N=XYZ)		Group A (N=XYZ)		Group B (N=XYZ)	
	n	%	n	%	n	%
<b>Overall number</b>						
Full inclusion criteria not met*						
Any exclusion criterion met**						
<b>Age</b> median, (IQR)						
<b>Sex</b>						
Male						
Female						
<b>Race</b>						
American Indian or Alaska Native						
Asian						
Black or African American						
Native Hawaiian or other Pacific Islander						
White/Caucasian						
Other Race						
<b>Ethnicity</b>						
Hispanic or Latino						

IQR: Interquartile Range (25%-75%)

**Table 3a. Medical History of Randomized Subjects**

	<b>Total (N=XYZ)</b>		<b>Group A (N=XYZ)</b>		<b>Group B (N=XYZ)</b>	
	n	%	n	%	n	%
Coronary artery disease (CAD)						
Myocardial infarction (MI)						
PCI						
CABG						
Peripheral vascular disease						
Atrial fibrillation/flutter						
Hyperlipidemia						
Hypertension (requiring treatment)						
Stroke						
COPD						
Diabetes						
Chronic renal insufficiency						
Cigarette smoking						
Alcohol abuse history						
Depression treated with medications						
Sleep apnea (central or obstructive)						

PCI – percutaneous coronary intervention, CABG – Coronary artery bypass grafting, COPD – chronic obstructive pulmonary disease



**Table 3b. Concomitant Medications of Randomized Subjects**

	<b>Total (N=XYZ)</b>		<b>Group A (N=XYZ)</b>		<b>Group B (N=XYZ)</b>	
	n	%	n	%	n	%
ACE inhibitor						
Beta Blocker						
Aspirin						
Antiarrhythmic						
Calcium channel blocker						
Statin						
Insulin						
Sulfonylurea						
Thiazolidinedione						

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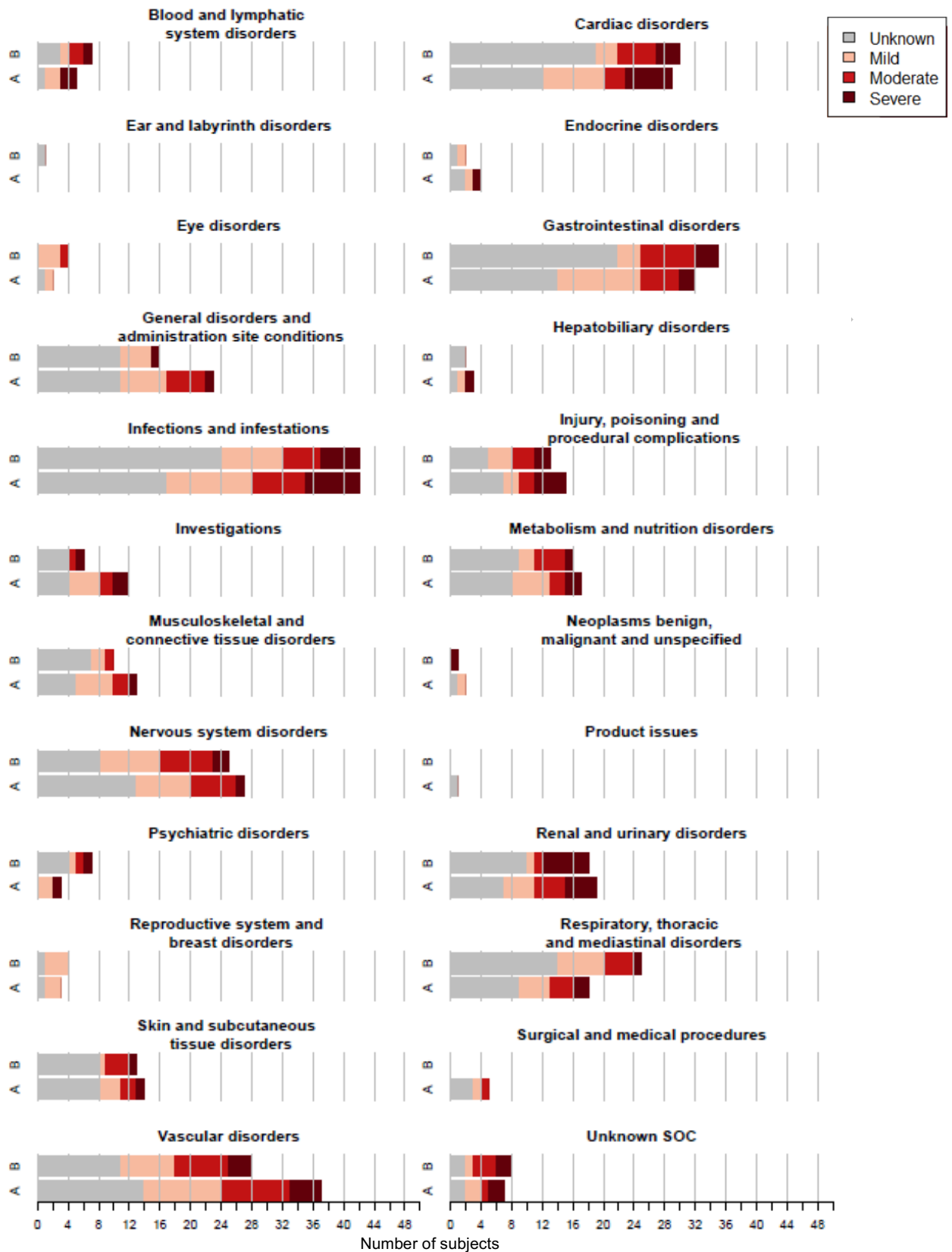
**Table 4. Study Drug Exposure**

	<b>Total (N=XYZ)</b>		<b>Group A (N=XYZ)</b>		<b>Group B (N=XYZ)</b>		
	n	%	n	%	n	%	
<b>Overall who have discontinued study</b>							
<ul style="list-style-type: none"> <li>▪ Died</li> <li>▪ Withdrawn consent</li> </ul>							
<b>Permanently discontinued study drug only (continuing follow up)</b>							
Reason for discontinuation							
<ul style="list-style-type: none"> <li>▪ Withdrawal by subject</li> <li>▪ AE/SAE</li> <li>▪ Lost to follow-up</li> <li>▪ Non-compliance with study drug</li> <li>▪ Physician decision</li> <li>▪ Pregnancy</li> <li>▪ Protocol violation</li> </ul>							
<b>Number of Doses</b> median (IQR)			med (IQR)		med (IQR)		med (IQR)

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**Figure 2. AEs by System Organ Class and Severity**

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**Table 5. Adverse Events by Organ Class**

System Organ Class	High Level Term	Group A (N=XYZ)		Group B (N=XYZ)		P-value <sup>†</sup>
		N	%	N	%	

**Table 6. Vital Sign Changes**

Med (IQR)	Follow-Up #1		Follow-Up #2	
	n	med (IQR)	n	med (IQR)
<b>Overall (n)</b>				
<b>Δ Systolic BP (mmHg)</b>				
Group A				
Group B				
<b>Δ Diastolic BP (mmHg)</b>				
Group A				
Group B				
<b>Δ Heart rate (beats/min)</b>				
Group A				
Group B				

**Table 7. Laboratory Assessments**

	Follow-Up #1		Follow-Up #2	
	n	med (IQR)	n	med (IQR)
<b>Overall (n)</b>				
<b>Hemoglobin (Hgb)</b>				
Group A				
Group B				
<b>Red Blood Cell count (RBC)</b>				
Group A				
Group B				
<b>Potassium</b>				
Group A				
Group B				
<b>BUN</b>				
Group A				
Group B				
<b>NT-pro BNP</b>				
Group A				
Group B				

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**Appendix A**

**Table A1. Randomized Subjects Who Did Not Meet Full Inclusion Criteria**

	Total (N=XYZ)		Group A (N=XYZ)		Group B (N=XYZ)	
	n	%	n	%	n	%
<b>Full inclusion criteria not met</b>						
1. Adult ( ≥18 years of age) able to provide informed consent						
2. Stable heart failure (NYHA II-IV) on maximally-tolerated background therapy (as determined by the site Principle Investigator)						
3. Able and willing to perform 6MWT at the time of randomization						
4. Reduced left ventricular ejection fraction. Assessment must be performed at least 12 weeks after major cardiac surgical intervention including coronary artery bypass graft (CABG), valvular repair/replacement, or cardiac resynchronization therapy (CRT) device implant						
a. Left ventricular ejection fraction ≤ 35% obtained during the screening visit or either of the following:						
i. Historical value of ejection fraction ≤ 35% within 12 months of screening visit						
ii. Historical value of ejection fraction ≤ 25% within 24 months of screening visit						
5. Hemoglobin > 9.0 g/dL and < 13.5 g/dL (females) or < 15.0 g/dL (males)						
6. Serum ferritin < 100 ng/mL or 100 to 300 ng/mL with TSAT <20%.						
7. Either documented hospitalization for heart failure within 12 months of enrolment or screening visit N-terminal-pro-brain natriuretic peptide (NT-proBNP) > 600 pg/mL (or BNP > 200 pg/mL) for patients with normal sinus rhythm or NT-proBNP > 1000 pg/mL (or BNP > 400 pg/mL) for patients with atrial fibrillation. <i>Note: NT-proBNP must be used to confirm eligibility for patients taking sacubitril/valsartan.</i>						

**Table A2. Randomized Subjects Who Met Any Exclusion Criterion**

	<i>Total</i> <i>(N=XYZ)</i>		<i>Group A</i> <i>(N=ZYZ)</i>		<i>Group B</i> <i>(N=XYZ)</i>	
	n	%	n	%	n	%
<b>Any exclusion criterion met</b>						
1. Current or planned oral iron supplementation. Iron-containing multivitamins (<30 mgs /day) are permitted						
2. Known hypersensitivity reaction to any component of FCM						
3. History of acquired iron overload, or the recent receipt (within 3 months) of erythropoietin stimulating agent, IV iron therapy, or blood transfusion						
4. Acute myocardial infarction, acute coronary syndrome, transient ischemic attack, or stroke within 3 months of enrollment						
5. Uncorrected severe aortic stenosis, severe valvular regurgitation, or left ventricular outflow obstruction requiring intervention						
6. Current atrial fibrillation or atrial flutter with a mean ventricular response rate >100 per minute (at rest)						
7. Current or planned mechanical circulatory support or heart transplantation						
8. Hemodialysis or peritoneal dialysis (current or planned within the next 6 months)						
9. Documented liver disease, or active hepatitis (i.e alanine transaminase or aspartate transaminase >3 times the upper limit of normal range)						
10. Current or recent (within 3 years) malignancy with exception of basal cell carcinoma or squamous cell carcinoma of the skin, or cervical intraepithelial neoplasia						
11. Known gastrointestinal bleeding. Patients with screening ferritin <15ng/ml must have an appropriate evaluation within 3 months of screening						
12. Female participant of child-bearing potential who is pregnant, lactating, or not willing to use adequate contraceptive precautions during the study and for up to 5 days after the last scheduled dose of study medication						
13. Inability to return for follow up visits within the necessary windows						



**Appendix B**

**Table B1. Adverse Events by Subjects and Events**

	<b>Total (N=XYZ)</b>			<b>Group A (N=XYZ)</b>			<b>Group B (N=XYZ)</b>		
	Subj.	%	Events	Subj.	%	Events	Subj.	%	Events
<b>Overall Total Serious Adverse Events (SAE)</b>									
<b>SAE seriousness</b>									
Death									
Life-threatening									
Initial or prolonged hospitalization									
Persistent or significant disability/incapacity									
Congenital anomaly/birth defect									
Other medically important event									
<b>Overall Total Adverse Events (AE)</b>									
<b>AE outcome</b>									
Recovered/resolved									
Recovering/resolving									
Not recovered/not resolved									
Recovered/resolved with sequelae									
Fatal									
Unknown									
<b>Severity</b>									
Mild									
Moderate									
Severe									
Life-Threatening									
<b>Relationship to study drug</b>									
None									
Unlikely									
Possible									
Probable									
<b>Action taken to study drug</b>									
Drug withdrawn									
Dose reduced									
Dose increased									
Dose not changed									
Unknown									
Not applicable									

**Listing B2. Listing of Serious Adverse Events by System Organ Class**

<i>System Organ Class</i>	<i>Lowest Level Term</i>	<i>Group</i>		
		<i>Total</i>	<i>A</i>	<i>B</i>

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