



## Clinical trial results:

## HIGH DOSE SUPPLEMENTATION OF SELENIUM IN LEFT VENTRICULAR ASSIST DEVICE (LVAD) IMPLANT SURGERY – A DOUBLE BLIND RANDOMISED CONTROLLED TRIAL

### Summary

EudraCT number	2013-001357-26
Trial protocol	DE
Global end of trial date	07 September 2017

### Results information

Result version number	v1 (current)
This version publication date	06 February 2022
First version publication date	06 February 2022

### Trial information

#### Trial identification

Sponsor protocol code	13-036
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#### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT02530788
WHO universal trial number (UTN)	-

Notes:

### Sponsors

Sponsor organisation name	Universitätsklinikum RWTH Aachen
Sponsor organisation address	Pauwelsstraße 30, Aachen, Germany, 52074
Public contact	Center for Translational & Clinical Research Aachen (CTC-A), University RWTH Aachen, 49 2418080092, ctc-a-spoqs@ukaachen.de
Scientific contact	Center for Translational & Clinical Research Aachen (CTC-A), University RWTH Aachen, 49 2418080092, ctc-a-spoqs@ukaachen.de

Notes:

### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	07 April 2021
Is this the analysis of the primary completion data?	Yes
Primary completion date	07 September 2017
Global end of trial reached?	Yes
Global end of trial date	07 September 2017
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

To determine the effects and safety of Selenium supplementation on postoperative recovery after LVAD implant surgery.

Protection of trial subjects:

This study was conducted in accordance with International Conference on Harmonisation of Good Clinical Practice, the principles of the Declaration of Helsinki, as well as other applicable local ethical and legal requirements.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	25 August 2015
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Germany: 21
Worldwide total number of subjects	21
EEA total number of subjects	21

Notes:

### Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	11
From 65 to 84 years	10
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

Recruitment and treatment of subjects was performed in one trial center. Overall 21 subjects were enrolled and randomized in the clinical trial in the timeframe from 25.08.2015 till 07.09.2017.

### Pre-assignment

Screening details:

Overall 21 subjects were screened in one trial center. Of those 21 subjects screened, all 21 subjects met the inclusion and exclusion criteria and were enrolled and randomized in the clinical trial.

### Period 1

Period 1 title	evening before surgery
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 1	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 2

Period 2 title	ICU release or post-operative day 30
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 2	Selenase	Placebo
Started	11	10
Completed	11	10

### Period 3

Period 3 title	Post-operative day 7
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 3	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 4</b>	
Period 4 title	Post-operative day 28
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 4	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 5**

Period 5 title	Day 0
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)



Number of subjects in period 5	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 6

Period 6 title	Day 1
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 6	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 7

Period 7 title	Day 2
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 7	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 8</b>	
Period 8 title	Day 3
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 8	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 9</b>	
Period 9 title	Day 4
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 9</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 10**

Period 10 title	Day 5
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
 daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
 daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 10	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 11

Period 11 title	Day 6
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 11	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 12

Period 12 title	Day 7
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo



Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 12	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 13</b>	
Period 13 title	Day 8
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 13	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 14</b>	
Period 14 title	Day 9
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 14</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 15**

Period 15 title	Day 10
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 15	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 16

Period 16 title	Day 11
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 16	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 17

Period 17 title	Day 12
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 17	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 18</b>	
Period 18 title	Day 13
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 18	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 19</b>	
Period 19 title	Day 14
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes



<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 19</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 20**

Period 20 title	Day 15
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 20	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 21

Period 21 title	Day 16
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

<b>Number of subjects in period 21</b>	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 22

Period 22 title	Day 17
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 22	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 23</b>	
Period 23 title	Day 18
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 23	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 24</b>	
Period 24 title	Day 19
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 24</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 25**

Period 25 title	Day 20
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)



Number of subjects in period 25	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 26

Period 26 title	Day 21
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

<b>Number of subjects in period 26</b>	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 27

Period 27 title	Day 22
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 27	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 28</b>	
Period 28 title	Day 23
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 28	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 29</b>	
Period 29 title	Day 24
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 29</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 30**

Period 30 title	Day 25
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
 daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
 daily intravenous bolusinfusion (maximum till post operative day 13)

Number of subjects in period 30	Selenase	Placebo
Started	11	10
Completed	11	10

### Period 31

Period 31 title	Day 26
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

<b>Number of subjects in period 31</b>	Selenase	Placebo
Started	11	10
Completed	11	10

## Period 32

Period 32 title	Day 27
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

## Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo



Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details: once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 32	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 33</b>	
Period 33 title	Day 28
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes
<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details: once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	

Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

Number of subjects in period 33	Selenase	Placebo
Started	11	10
Completed	11	10

<b>Period 34</b>	
Period 34 title	Day 29
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator
<b>Arms</b>	
Are arms mutually exclusive?	Yes

<b>Arm title</b>	Selenase
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once 300 µg orally on evening before surgery	
Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once 3000 µg intravenous bolusinfusion while surgery, daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)	
<b>Arm title</b>	Placebo
Arm description: -	
Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use
Dosage and administration details:	
once orally on evening before surgery	
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use
Dosage and administration details:	
once intravenous bolusinfusion while surgery, daily intravenous bolusinfusion (maximum till post operative day 13)	

<b>Number of subjects in period 34</b>	Selenase	Placebo
Started	11	10
Completed	11	10

**Period 35**

Period 35 title	Day 30
Is this the baseline period?	No
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator

**Arms**

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Selenase
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Arm description: -

Arm type	Experimental
Investigational medicinal product name	Selen
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once 300 µg orally on evening before surgery

Investigational medicinal product name	selenase T pro injectione
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once 3000 µg intravenous bolusinfusion while surgery,  
daily 1000 µg intravenous bolusinfusion post surgery (maximum till post operative day 13)

<b>Arm title</b>	Placebo
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Arm description: -

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Tablet
Routes of administration	Oral use

Dosage and administration details:

once orally on evening before surgery

Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

once intravenous bolusinfusion while surgery,  
daily intravenous bolusinfusion (maximum till post operative day 13)

<b>Number of subjects in period 35</b>	Selenase	Placebo
Started	11	10
Completed	11	10

## Baseline characteristics

### Reporting groups

Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	

Reporting group values	Selenase	Placebo	Total
Number of subjects	11	10	21
Age categorical Units: Subjects			
In utero			0
Preterm newborn infants (gestational age < 37 wks)			0
Newborns (0-27 days)			0
Infants and toddlers (28 days-23 months)			0
Children (2-11 years)			0
Adolescents (12-17 years)			0
Adults (18-64 years)			0
From 65-84 years			0
85 years and over			0
Age continuous Units: years			
arithmetic mean	63.82	61.5	
standard deviation	± 10.91	± 8.127	-
Gender categorical Units: Subjects			
Female	1	1	2
Male	10	9	19

## End points

### End points reporting groups

[illegible]

[illegible]



Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	
Reporting group title	Selenase
Reporting group description: -	
Reporting group title	Placebo
Reporting group description: -	

### Primary: Composite Outcome

End point title	Composite Outcome
End point description:	
ICU independency, independency of dialysis, circulatory support and ventilation	
End point type	Primary
End point timeframe:	
from surgery till ICU release or post-operative day 30	

<b>End point values</b>	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: days				
median (inter-quartile range (Q1-Q3))	214 (61 to 381)	117 (64 to 287)		

### Statistical analyses

<b>Statistical analysis title</b>	Analysis composite outcome
Comparison groups	Selenase v Placebo
Number of subjects included in analysis	21
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.89
Method	Kruskal-wallis

### Secondary: Mortality

End point title	Mortality
End point description:	
End point type	Secondary
End point timeframe:	
POD 28	

<b>End point values</b>	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
alive	9	9		
deceased	2	1		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Persistent Organ Disfunction

End point title	Persistent Organ Disfunction
End point description:	
End point type	Secondary
End point timeframe:	
POD 7	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
yes	8	3		
no	3	7		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Incidence of nosocomial infections

End point title	Incidence of nosocomial infections
End point description:	
End point type	Secondary
End point timeframe:	
ICU release or POD 30	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
yes	5	5		
no	6	5		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Acute renal failure

End point title	Acute renal failure
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End point description:

End point type	Secondary
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End point timeframe:

ICU release or POD 30

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
yes	3	0		
no	8	10		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Duration of mechanical ventilation

End point title	Duration of mechanical ventilation
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End point description:

End point type	Secondary
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End point timeframe:

ICU release or POD 30

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: hours				
median (inter-quartile range (Q1-Q3))	91 (27 to 311)	89 (34 to 267)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Invasive mechanical ventilation

End point title	Invasive mechanical ventilation
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End point description:

End point type	Secondary
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End point timeframe:  
ICU release or POD 30

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
yes	7	7		
no	4	3		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Incidence of postoperative delirium

End point title Incidence of postoperative delirium

End point description:

End point type Secondary

End point timeframe:

ICU release or POD 30

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: subjects				
yes	3	1		
no	8	9		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Duration of ICU stay

End point title Duration of ICU stay

End point description:

End point type Secondary

End point timeframe:

ICU release or POD 30

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: days				
median (inter-quartile range (Q1-Q3))	18 (13 to 31)	16 (13 to 21)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Duration of hospital stay

End point title	Duration of hospital stay
End point description:	
End point type	Secondary
End point timeframe:	
ICU release or POD 30	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10 <sup>[1]</sup>	10		
Units: days				
median (inter-quartile range (Q1-Q3))	35 (28 to 47)	37 (20 to 46)		

Notes:

[1] - 1 missing data

## Statistical analyses

No statistical analyses for this end point

## Secondary: Barthel index

End point title	Barthel index
End point description:	
Individual Quality of life	
End point type	Secondary
End point timeframe:	
ICU release or POD 30	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: none				
median (inter-quartile range (Q1-Q3))	65 (0 to 85)	88 (69 to 95)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 1

End point title	Bilirubin - Day 1
End point description:	
End point type	Secondary
End point timeframe:	
Day 1	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.7518 ( $\pm$ 0.3121)	0.7880 ( $\pm$ 0.5853)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 2

End point title	Bilirubin - Day 2
End point description:	
End point type	Secondary
End point timeframe:	
Day 2	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[2]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5489 (± 0.1990)	0.9680 (± 1.2054)		

Notes:

[2] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 3

End point title	Bilirubin - Day 3
End point description:	
End point type	Secondary
End point timeframe:	
Day 3	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[3]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5222 (± 0.2107)	1.183 (± 1.316)		

Notes:

[3] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 4

End point title	Bilirubin - Day 4
End point description:	
End point type	Secondary
End point timeframe:	
Day 4	



End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[4]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5778 (± 0.2538)	0.9780 (± 1.3872)		

Notes:

[4] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 5

End point title	Bilirubin - Day 5
End point description:	
End point type	Secondary
End point timeframe:	
Day 5	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[5]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4656 (± 0.1538)	1.016 (± 1.583)		

Notes:

[5] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 6

End point title	Bilirubin - Day 6
End point description:	
End point type	Secondary
End point timeframe:	
Day 6	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[6]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4278 (± 0.1796)	0.7810 (± 1.1563)		

Notes:

[6] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 7

End point title	Bilirubin - Day 7
End point description:	
End point type	Secondary
End point timeframe:	
Day 7	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[7]</sup>	9 <sup>[8]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4289 (± 0.1997)	0.7833 (± 1.2007)		

Notes:

[7] - 2 missing data

[8] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 8

End point title	Bilirubin - Day 8
End point description:	
End point type	Secondary
End point timeframe:	
Day 8	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[9]</sup>	9 <sup>[10]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.3756 (± 0.1991)	0.6956 (± 0.9717)		

Notes:

[9] - 2 missing data

[10] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 9

End point title	Bilirubin - Day 9
End point description:	
End point type	Secondary
End point timeframe:	
Day 9	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[11]</sup>	9 <sup>[12]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4171 (± 0.2127)	0.6822 (± 1.0344)		

Notes:

[11] - 4 missing data

[12] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 10

End point title	Bilirubin - Day 10
End point description:	
End point type	Secondary
End point timeframe:	
Day 10	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[13]</sup>	9 <sup>[14]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.530 (± 0.416)	0.6422 (± 0.8226)		

Notes:

[13] - 4 missing data

[14] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 11

End point title	Bilirubin - Day 11
End point description:	
End point type	Secondary
End point timeframe:	
Day 11	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[15]</sup>	9 <sup>[16]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5343 (± 0.4257)	0.6011 (± 0.7194)		

Notes:

[15] - 4 missing data

[16] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 12

End point title	Bilirubin - Day 12
End point description:	
End point type	Secondary
End point timeframe:	
Day 12	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[17]</sup>	9 <sup>[18]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4871 ( $\pm$ 0.2840)	0.5867 ( $\pm$ 0.7055)		

Notes:

[17] - 4 missing data

[18] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 13

End point title	Bilirubin - Day 13
End point description:	
End point type	Secondary
End point timeframe:	
Day 13	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[19]</sup>	8 <sup>[20]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5329 ( $\pm$ 0.2749)	0.7175 ( $\pm$ 0.9034)		

Notes:

[19] - 4 missing data

[20] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 14

End point title	Bilirubin - Day 14
End point description:	
End point type	Secondary
End point timeframe:	
Day 14	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[21]</sup>	7 <sup>[22]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.6243 (± 0.2995)	0.7114 (± 0.9646)		

Notes:

[21] - 4 missing data

[22] - 3 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 15

End point title	Bilirubin - Day 15
End point description:	
End point type	Secondary
End point timeframe:	
Day 15	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[23]</sup>	7 <sup>[24]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.019 (± 1.016)	0.7914 (± 1.0291)		

Notes:

[23] - 4 missing data

[24] - 3 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 16

End point title	Bilirubin - Day 16
End point description:	
End point type	Secondary
End point timeframe:	
Day 16	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	6 <sup>[25]</sup>	6 <sup>[26]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.30 (± 1.3480)	0.8217 (± 1.0916)		

Notes:

[25] - 5 missing data

[26] - 4 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 17

End point title	Bilirubin - Day 17
End point description:	
End point type	Secondary
End point timeframe:	
Day 17	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[27]</sup>	5 <sup>[28]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5850 (± 0.2625)	1.164 (± 1.686)		

Notes:

[27] - 7 missing data

[28] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 18

End point title	Bilirubin - Day 18
End point description:	
End point type	Secondary
End point timeframe:	
Day 18	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[29]</sup>	5 <sup>[30]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4850 (± 0.1841)	1.052 (± 1.052)		

Notes:

[29] - 7 missing data

[30] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 19

End point title	Bilirubin - Day 19
End point description:	
End point type	Secondary
End point timeframe:	
Day 19	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[31]</sup>	5 <sup>[32]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4350 (± 0.1237)	1.002 (± 1.367)		

Notes:

[31] - 7 missing data

[32] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 20

End point title	Bilirubin - Day 20
End point description:	
End point type	Secondary
End point timeframe:	
Day 20	



End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[33]</sup>	5 <sup>[34]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.420 (± 0.1086)	1.304 (± 1.996)		

Notes:

[33] - 7 missing data

[34] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 21

End point title	Bilirubin - Day 21
End point description:	
End point type	Secondary
End point timeframe:	
Day 21	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	3 <sup>[35]</sup>	4 <sup>[36]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.4233 (± 0.1222)	1.337 (± 1.924)		

Notes:

[35] - 8 missing data

[36] - 6 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 22

End point title	Bilirubin - Day 22
End point description:	
End point type	Secondary
End point timeframe:	
Day 22	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[37]</sup>	3 <sup>[38]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.490 (± 0.09899)	1.557 (± 1.838)		

Notes:

[37] - 9 missing data

[38] - 7 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 23

End point title	Bilirubin - Day 23
End point description:	
End point type	Secondary
End point timeframe:	
Day 23	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[39]</sup>	2 <sup>[40]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5850 (± 0.2051)	2.235 (± 2.227)		

Notes:

[39] - 9 missing data

[40] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 24

End point title	Bilirubin - Day 24
End point description:	
End point type	Secondary
End point timeframe:	
Day 24	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[41]</sup>	2 <sup>[42]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.5750 (± 0.1344)	3.065 (± 3.429)		

Notes:

[41] - 9 missing data

[42] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 25

End point title	Bilirubin - Day 25
End point description:	
End point type	Secondary
End point timeframe:	
Day 25	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[43]</sup>	2 <sup>[44]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.480 (± 0.2546)	2.80 (± 3.224)		

Notes:

[43] - 9 missing data

[44] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 26

End point title	Bilirubin - Day 26
End point description:	
End point type	Secondary
End point timeframe:	
Day 26	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[45]</sup>	2 <sup>[46]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.530 (± 0.2687)	2.755 (± 3.062)		

Notes:

[45] - 9 missing data

[46] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 27

End point title	Bilirubin - Day 27
End point description:	
End point type	Secondary
End point timeframe:	
Day 27	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[47]</sup>	2 <sup>[48]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.450 (± 0.01414)	3.515 (± 4.137)		

Notes:

[47] - 9 missing data

[48] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 28

End point title	Bilirubin - Day 28
End point description:	
End point type	Secondary
End point timeframe:	
Day 28	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[49]</sup>	2 <sup>[50]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.390 (± 0.02828)	3.840 (± 4.624)		

Notes:

[49] - 9 missing data

[50] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 29

End point title	Bilirubin - Day 29
End point description:	
End point type	Secondary
End point timeframe:	
Day 29	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[51]</sup>	1 <sup>[52]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.360 (± 0.02828)	0.64 (± 0)		

Notes:

[51] - 9 missing data

[52] - 9 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Bilirubin - Day 30

End point title	Bilirubin - Day 30
End point description:	
End point type	Secondary
End point timeframe:	
Day 30	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	1 <sup>[53]</sup>	0 <sup>[54]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.32 (± 0)	( )		

Notes:

[53] - 10 missing data

[54] - 10 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 1

End point title	Creatinine - Day 1
-----------------	--------------------

End point description:

End point type	Secondary
----------------	-----------

End point timeframe:

Day 1

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	11	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.6482 (± 0.6442)	1.3250 (± 0.3832)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 2

End point title	Creatinine - Day 2
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End point description:

End point type	Secondary
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End point timeframe:

Day 2

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[55]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.6989 (± 0.9114)	1.2560 (± 0.3838)		

Notes:

[55] - 2 missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 3

End point title	Creatinine - Day 3
End point description:	
End point type	Secondary
End point timeframe:	
Day 3	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[56]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.6833 (± 0.9721)	1.2040 (± 0.3923)		

Notes:

[56] - 2 missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 4

End point title	Creatinine - Day 4
End point description:	
End point type	Secondary
End point timeframe:	
Day 4	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[57]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.4578 ( $\pm$ 0.7929)	1.1560 ( $\pm$ 0.3631)		

Notes:

[57] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 5

End point title	Creatinine - Day 5
End point description:	
End point type	Secondary
End point timeframe:	
Day 5	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[58]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.3233 ( $\pm$ 0.5042)	1.1690 ( $\pm$ 0.4626)		

Notes:

[58] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 6

End point title	Creatinine - Day 6
End point description:	
End point type	Secondary
End point timeframe:	
Day 6	



End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[59]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.2256 (± 0.4189)	1.0870 (± 0.4529)		

Notes:

[59] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 7

End point title	Creatinine - Day 7
End point description:	
End point type	Secondary
End point timeframe:	
Day 7	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[60]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.1422 (± 0.3986)	0.9718 (± 0.4830)		

Notes:

[60] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 8

End point title	Creatinine - Day 8
End point description:	
End point type	Secondary
End point timeframe:	
Day 8	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[61]</sup>	9 <sup>[62]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.154 (± 0.419)	1.0144 (± 0.3776)		

Notes:

[61] - 2 missing data

[62] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 9

End point title	Creatinine - Day 9
End point description:	
End point type	Secondary
End point timeframe:	
Day 9	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[63]</sup>	9 <sup>[64]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.3357 (± 0.4266)	1.0122 (± 0.3502)		

Notes:

[63] - 4 missing data

[64] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 10

End point title	Creatinine - Day 10
End point description:	
End point type	Secondary
End point timeframe:	
Day 10	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[65]</sup>	9 <sup>[66]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.3414 (± 0.5286)	1.0056 (± 0.3371)		

Notes:

[65] - 4 missing data

[66] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 11

End point title	Creatinine - Day 11
End point description:	
End point type	Secondary
End point timeframe:	
Day 11	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	8 <sup>[67]</sup>	10		
Units: mg / dl				
arithmetic mean (standard deviation)	1.3050 (± 0.4248)	1.0350 (± 0.3655)		

Notes:

[67] - 3 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 12

End point title	Creatinine - Day 12
End point description:	
End point type	Secondary
End point timeframe:	
Day 12	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[68]</sup>	9 <sup>[69]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.430 (± 0.6019)	1.0144 (± 0.3259)		

Notes:

[68] - 4 missing data

[69] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 13

End point title	Creatinine - Day 13
End point description:	
End point type	Secondary
End point timeframe:	
Day 13	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[70]</sup>	8 <sup>[71]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.4429 (± 0.7067)	0.9062 (± 0.2370)		

Notes:

[70] - 4 missing data

[71] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 14

End point title	Creatinine - Day 14
End point description:	
End point type	Secondary
End point timeframe:	
Day 14	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[72]</sup>	8 <sup>[73]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.4486 (± 0.6592)	1.0962 (± 0.2752)		

Notes:

[72] - 4 missing data

[73] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 15

End point title	Creatinine - Day 15
End point description:	
End point type	Secondary
End point timeframe:	
Day 15	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	7 <sup>[74]</sup>	7 <sup>[75]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.4114 (± 0.8095)	1.1586 (± 0.3938)		

Notes:

[74] - 4 missing data

[75] - 3 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 16

End point title	Creatinine - Day 16
End point description:	
End point type	Secondary
End point timeframe:	
Day 16	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	6 <sup>[76]</sup>	7 <sup>[77]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.5083 (± 0.6632)	1.1771 (± 0.4342)		

Notes:

[76] - 5 missing data

[77] - 3 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 17

End point title	Creatinine - Day 17
End point description:	
End point type	Secondary
End point timeframe:	
Day 17	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[78]</sup>	5 <sup>[79]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.3450 (± 0.3423)	1.3940 (± 0.6742)		

Notes:

[78] - 7 missing data

[79] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 18

End point title	Creatinine - Day 18
End point description:	
End point type	Secondary
End point timeframe:	
Day 18	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[80]</sup>	5 <sup>[81]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.220 (± 0.3753)	1.3460 (± 0.7241)		

Notes:

[80] - 7 missing data

[81] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 19

End point title	Creatinine - Day 19
End point description:	
End point type	Secondary
End point timeframe:	
Day 19	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[82]</sup>	5 <sup>[83]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.0575 (± 0.260)	1.2820 (± 0.5681)		

Notes:

[82] - 7 missing data

[83] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 20

End point title	Creatinine - Day 20
End point description:	
End point type	Secondary
End point timeframe:	
Day 20	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4 <sup>[84]</sup>	5 <sup>[85]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.080 (± 0.3383)	1.3580 (± 0.6242)		

Notes:

[84] - 7 missing data

[85] - 5 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 21

End point title	Creatinine - Day 21
End point description:	
End point type	Secondary
End point timeframe:	
Day 21	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	3 <sup>[86]</sup>	4 <sup>[87]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.940 (± 0.2646)	1.425 (± 0.622)		

Notes:

[86] - 8 missing data

[87] - 6 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 22

End point title	Creatinine - Day 22
End point description:	
End point type	Secondary
End point timeframe:	
Day 22	



End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[88]</sup>	3 <sup>[89]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.070 (± 0.3818)	1.420 (± 0.3904)		

Notes:

[88] - 9 missing data

[89] - 7 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 23

End point title	Creatinine - Day 23
End point description:	
End point type	Secondary
End point timeframe:	
Day 23	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[90]</sup>	2 <sup>[91]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.170 (± 0.3111)	1.330 (± 0.2546)		

Notes:

[90] - 9 missing data

[91] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 24

End point title	Creatinine - Day 24
End point description:	
End point type	Secondary
End point timeframe:	
Day 24	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[92]</sup>	2 <sup>[93]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	1.090 (± 0.1273)	1.20 (± 0.01414)		

Notes:

[92] - 9 missing data

[93] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 25

End point title	Creatinine - Day 25
End point description:	
End point type	Secondary
End point timeframe:	
Day 25	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[94]</sup>	2 <sup>[95]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.870 (± 0.1838)	1.0450 (± 0.1344)		

Notes:

[94] - 9 missing data

[95] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 26

End point title	Creatinine - Day 26
End point description:	
End point type	Secondary
End point timeframe:	
Day 26	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[96]</sup>	2 <sup>[97]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.8450 (± 0.2616)	1.0350 (± 0.1909)		

Notes:

[96] - 9 missing data

[97] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 27

End point title	Creatinine - Day 27
End point description:	
End point type	Secondary
End point timeframe:	
Day 27	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[98]</sup>	2 <sup>[99]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.810 (± 0.4525)	0.960 (± 0.09899)		

Notes:

[98] - 9 missing data

[99] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 28

End point title	Creatinine - Day 28
End point description:	
End point type	Secondary
End point timeframe:	
Day 28	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[100]</sup>	2 <sup>[101]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.7750 (± 0.3041)	0.910 (± 0.07071)		

Notes:

[100] - 9 missing data

[101] - 8 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 29

End point title	Creatinine - Day 29
End point description:	
End point type	Secondary
End point timeframe:	
Day 29	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[102]</sup>	1 <sup>[103]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.730 (± 0.2828)	0.96 (± 0)		

Notes:

[102] - 9 missing data

[103] - 9 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Creatinine - Day 30

End point title	Creatinine - Day 30
End point description:	
End point type	Secondary
End point timeframe:	
Day 30	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	2 <sup>[104]</sup>	1 <sup>[105]</sup>		
Units: mg / dl				
arithmetic mean (standard deviation)	0.630 (± 0.08485)	0.92 (± 0)		

Notes:

[104] - 9 missing data

[105] - 9 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: IL-6 - Baseline

End point title	IL-6 - Baseline
End point description:	
End point type	Secondary
End point timeframe:	
Baseline	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10 <sup>[106]</sup>	10		
Units: pg / ml				
arithmetic mean (standard deviation)	31.910 (± 82.533)	7.288 (± 10.605)		

Notes:

[106] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: IL-6 - Day 0

End point title	IL-6 - Day 0
End point description:	
End point type	Secondary
End point timeframe:	
Day 0	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[107]</sup>	10		
Units: pg / ml				
arithmetic mean (standard deviation)	365.526 (± 396.512)	248.678 (± 212.787)		

Notes:

[107] - 2 missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: IL-6 - Day 1

End point title	IL-6 - Day 1
End point description:	
End point type	Secondary
End point timeframe:	
Day 1	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[108]</sup>	10		
Units: pg / ml				
arithmetic mean (standard deviation)	156.035 (± 91.049)	191.948 (± 139.490)		

Notes:

[108] - 2 missing data

## Statistical analyses

No statistical analyses for this end point

### Secondary: IL-6 - Day 3

End point title	IL-6 - Day 3
End point description:	
End point type	Secondary
End point timeframe:	
Day 3	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[109]</sup>	10		
Units: pg / ml				
arithmetic mean (standard deviation)	115.276 (± 84.364)	148.111 (± 165.305)		

Notes:

[109] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

#### Secondary: IL-6 - Day 5

End point title	IL-6 - Day 5
End point description:	
End point type	Secondary
End point timeframe:	
Day 5	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[110]</sup>	9 <sup>[111]</sup>		
Units: pg / ml				
arithmetic mean (standard deviation)	68.465 (± 67.037)	56.891 (± 34.977)		

Notes:

[110] - 2 missing data

[111] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

#### Secondary: IL-6 - Day 7

End point title	IL-6 - Day 7
End point description:	
End point type	Secondary
End point timeframe:	
Day 7	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[112]</sup>	9 <sup>[113]</sup>		
Units: pg / ml				
arithmetic mean (standard deviation)	50.986 (± 34.452)	88.696 (± 44.160)		

Notes:

[112] - 2 missing data

[113] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: IL-6 - Day 13

End point title	IL-6 - Day 13
End point description:	
End point type	Secondary
End point timeframe:	
Day 13	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	6 <sup>[114]</sup>	9 <sup>[115]</sup>		
Units: pg / ml				
arithmetic mean (standard deviation)	71.276 (± 104.124)	153.193 (± 257.173)		

Notes:

[114] - 5 missing data

[115] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Baseline

End point title	Selenium - Baseline
End point description:	
End point type	Secondary
End point timeframe:	
Baseline	



End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10 <sup>[116]</sup>	10		
Units: µg / l				
arithmetic mean (standard deviation)	64.007 (± 16.523)	63.509 (± 11.875)		

Notes:

[116] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 0

End point title	Selenium - Day 0
End point description:	
End point type	Secondary
End point timeframe:	
Day 0	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10 <sup>[117]</sup>	10		
Units: µg / l				
arithmetic mean (standard deviation)	144.553 (± 42.835)	49.010 (± 9.833)		

Notes:

[117] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 1

End point title	Selenium - Day 1
End point description:	
End point type	Secondary
End point timeframe:	
Day 1	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	10 <sup>[118]</sup>	10		
Units: µg / l				
arithmetic mean (standard deviation)	102.397 (± 22.718)	44.913 (± 7.981)		

Notes:

[118] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 3

End point title	Selenium - Day 3
End point description:	
End point type	Secondary
End point timeframe:	
Day 3	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[119]</sup>	10		
Units: µg / l				
arithmetic mean (standard deviation)	100.406 (± 24.496)	43.607 (± 11.135)		

Notes:

[119] - 2 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 5

End point title	Selenium - Day 5
End point description:	
End point type	Secondary
End point timeframe:	
Day 5	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[120]</sup>	9 <sup>[121]</sup>		
Units: µg / l				
arithmetic mean (standard deviation)	114.742 (± 20.977)	48.484 (± 13.328)		

Notes:

[120] - 2 missing data

[121] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 7

End point title	Selenium - Day 7
End point description:	
End point type	Secondary
End point timeframe:	
Day 7	

End point values	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	9 <sup>[122]</sup>	9 <sup>[123]</sup>		
Units: µg / l				
arithmetic mean (standard deviation)	118.248 (± 17.170)	44.433 (± 7.982)		

Notes:

[122] - 2 missing data

[123] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

### Secondary: Selenium - Day 13

End point title	Selenium - Day 13
End point description:	
End point type	Secondary
End point timeframe:	
Day 13	

<b>End point values</b>	Selenase	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5 <sup>[124]</sup>	9 <sup>[125]</sup>		
Units: µg / l				
arithmetic mean (standard deviation)	130.978 (± 26.623)	47.977 (± 11.133)		

Notes:

[124] - 6 missing data

[125] - 1 missing data

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

14 days (day before surgery till ICU release or POD 13)

Assessment type	Systematic
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### Dictionary used

Dictionary name	none
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Dictionary version	0
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### Reporting groups

Reporting group title	Selenase
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Reporting group description: -

Reporting group title	Placebo
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Reporting group description: -

Serious adverse events	Selenase	Placebo	
Total subjects affected by serious adverse events			
subjects affected / exposed	7 / 11 (63.64%)	3 / 10 (30.00%)	
number of deaths (all causes)	2	2	
number of deaths resulting from adverse events	0	0	
Cardiac disorders			
Cardiac decompensation			
subjects affected / exposed	0 / 11 (0.00%)	1 / 10 (10.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Medial infarct			
subjects affected / exposed	0 / 11 (0.00%)	1 / 10 (10.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pericardial effusion			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Arrhythmia			
subjects affected / exposed	2 / 11 (18.18%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Pericardial tamponade			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Acute cardiopulmonary decompensation			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Circulatory failure			
subjects affected / exposed	0 / 11 (0.00%)	2 / 10 (20.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 2	
Hypertensive crisis			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nervous system disorders			
Hemiparesis			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Delirium			
subjects affected / exposed	1 / 11 (9.09%)	1 / 10 (10.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Re-intubation			

subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Pleural effusion			
subjects affected / exposed	0 / 11 (0.00%)	1 / 10 (10.00%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumothorax			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal and urinary disorders			
Renal failure			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infections and infestations			
Driveline infection			
subjects affected / exposed	1 / 11 (9.09%)	0 / 10 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Frequency threshold for reporting non-serious adverse events: 0 %

<b>Non-serious adverse events</b>	Selenase	Placebo	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	8 / 11 (72.73%)	6 / 10 (60.00%)	
Vascular disorders			
Hemorrhage			
subjects affected / exposed	3 / 11 (27.27%)	1 / 10 (10.00%)	
occurrences (all)	4	1	
Epistaxis			
subjects affected / exposed	1 / 11 (9.09%)	1 / 10 (10.00%)	
occurrences (all)	1	1	
Cardiac disorders			

Ventricular tachycardia subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	2 / 10 (20.00%) 3	
Tachyarrhythmia absoluta subjects affected / exposed occurrences (all)	3 / 11 (27.27%) 3	3 / 10 (30.00%) 3	
Cardiac arrhythmia subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Right heart failure subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	1 / 10 (10.00%) 1	
Pericardial effusion subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	1 / 10 (10.00%) 1	
Nervous system disorders Delirium subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	2 / 10 (20.00%) 2	
Seizure subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Blood and lymphatic system disorders Leukocytosis subjects affected / exposed occurrences (all)	0 / 11 (0.00%) 0	1 / 10 (10.00%) 1	
Thrombocytopenia type II subjects affected / exposed occurrences (all)	0 / 11 (0.00%) 0	1 / 10 (10.00%) 1	
Eye disorders Flickering before the eye subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Gastrointestinal disorders Paralytic ileus subjects affected / exposed occurrences (all)	0 / 11 (0.00%) 0	1 / 10 (10.00%) 1	



Gastritis subjects affected / exposed occurrences (all)	0 / 11 (0.00%) 0	1 / 10 (10.00%) 1	
Tarry stool subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Hepatobiliary disorders Hepatic failure subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	1 / 10 (10.00%) 1	
Respiratory, thoracic and mediastinal disorders Pleural effusion subjects affected / exposed occurrences (all)	3 / 11 (27.27%) 3	2 / 10 (20.00%) 2	
Prolonged weaning subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	1 / 10 (10.00%) 1	
Respiratory insufficiency subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	1 / 10 (10.00%) 1	
Skin and subcutaneous tissue disorders Sternal wound healing disorder subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Renal and urinary disorders Renal failure subjects affected / exposed occurrences (all)	3 / 11 (27.27%) 3	1 / 10 (10.00%) 1	
Urosepsis subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 2	0 / 10 (0.00%) 0	
Renal insufficiency subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	0 / 10 (0.00%) 0	
Musculoskeletal and connective tissue disorders			

Critical illness myopathy / Critical illness polyneuropathy subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	0 / 10 (0.00%) 0	
Infections and infestations			
Pneumonia subjects affected / exposed occurrences (all)	3 / 11 (27.27%) 4	3 / 10 (30.00%) 3	
Sepsis subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	1 / 10 (10.00%) 1	
Septic shock subjects affected / exposed occurrences (all)	2 / 11 (18.18%) 2	1 / 10 (10.00%) 1	
Driveline infection subjects affected / exposed occurrences (all)	1 / 11 (9.09%) 1	1 / 10 (10.00%) 1	
Infection subjects affected / exposed occurrences (all)	0 / 11 (0.00%) 0	1 / 10 (10.00%) 1	

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported