

Trial record 1 of 1 for: NCT00656799

[Previous Study](#) | [Return to List](#) | [Next Study](#)**Dialysis of Sugammadex in Participants With Severe Renal Impairment (Study 19.4.333) (P05773)****This study has been completed.****Sponsor:**

Merck Sharp &amp; Dohme Corp.

**Information provided by (Responsible Party):**

Merck Sharp &amp; Dohme Corp.

**ClinicalTrials.gov Identifier:**

NCT00656799

First received: April 7, 2008

Last updated: February 20, 2015

Last verified: February 2015

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

The clinical trial objectives were to evaluate the dialysability of the sugammadex-rocuronium complex; it's safety and efficacy in participants with severe renal impairment.

<u>Condition</u>	<u>Intervention</u>	<u>Phase</u>
Neuromuscular Blockade	Drug: sugammadex Drug: Rocuronium	Phase 3

Study Type: [Interventional](#)Study Design: [Endpoint Classification: Pharmacokinetics Study](#)[Intervention Model: Single Group Assignment](#)[Masking: Open Label](#)[Primary Purpose: Treatment](#)Official Title: [A Single Center, Open-Label Trial in Subjects With Severe Renal Impairment Evaluating the Dialysability of the Sugammadex-Rocuronium Complex](#)**Resource links provided by NLM:**[Drug Information](#) available for: [Rocuronium bromide](#) [Rocuronium](#) [Sugammadex](#) [Sugammadex sodium](#)[U.S. FDA Resources](#)**Further study details as provided by Merck Sharp & Dohme Corp.:****Primary Outcome Measures:**

- Clearance of Sugammadex by Dialysis as Measured by the Reduction Ratio (RR) [ Time Frame: Up to day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected before, and after hemodialysis, with concentrations of sugammadex determined

using a liquid chromatographic assay with mass spectrometric detection. The clearance of sugammadex at each dialysis session was calculated by measuring the ratio of plasma concentration at the end of dialysis, average duration of 6 hours, compared with that immediately before the start of dialysis, called the RR.

- Clearance of Rocuronium by Dialysis as Measured by the Reduction Ratio (RR) [ Time Frame: Up to Day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected before, and after hemodialysis, with concentrations of rocuronium determined using a liquid chromatographic assay with mass spectrometric detection. The clearance of rocuronium at each dialysis session was calculated by measuring the ratio of plasma concentration at the end of dialysis, average duration of 6 hours, compared with that immediately before the start of dialysis, called the RR.
- Rate of Clearance of Sugammadex From Blood [ Time Frame: Up to day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Blood samples were collected from ports in the arterial and venous tubing of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of sugammadex were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from blood at each dialysis session was assessed by averaging across all available collection time points.
- Rate of Clearance of Rocuronium From Blood [ Time Frame: Up to Day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Blood samples were collected from ports in the arterial and venous tubing of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of rocuronium were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from blood at each dialysis session was assessed by averaging across all available collection time points.
- Rate of Clearance of Sugammadex From Dialysate [ Time Frame: Up to day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected from a port in the outflow of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of sugammadex were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from dialysate at each dialysis session was assessed by averaging across all available collection time points. The data from the fourth dialysis are not presented as they were not calculable.
- Rate of Clearance of Rocuronium From Dialysate [ Time Frame: Up to Day 7 ] [ Designated as safety issue: No ]  
Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected from a port in the outflow of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of rocuronium were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from dialysate at each dialysis session was assessed by averaging across all available collection time points.

#### Secondary Outcome Measures:

- Number of Participants With Pre-treatment Adverse Events (AEs) [ Time Frame: Screening up to Day 1 ] [ Designated as safety issue: Yes ]  
An AE is any unfavorable and unintended change in the structure, function or chemistry of the body, whether or not related to the use of a product.
- Number of Participants With Serious Adverse Events (SAEs) [ Time Frame: Up to day 7 ] [ Designated as safety issue: Yes ]  
A SAE is any untoward medical occurrence that at any dose results in the following: death, is life threatening, requires in-patient hospitalization or prolongation of existing hospitalization, persistent or significant disability/incapacity, or is a congenital anomaly/birth defect
- Number of Participants With Medical Device (Near) Incidents [ Time Frame: Up to day 7 ] [ Designated as safety issue: Yes ]  
A medical device (near) incident is defined as an occurrence due to inaccurate or inadequate labeling/instructions, or information supplied with a medical device; or malfunction, deterioration or recall of a medical device that could lead to death or serious deterioration in health.
- Vital Sign: Mean Systolic Blood Pressure [ Time Frame: Screening up to 1 day after surgery ] [ Designated as safety issue: Yes ]  
Systolic blood pressure was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery
- Vital Sign: Mean Diastolic Blood Pressure [ Time Frame: Screening up to 1 day after surgery ] [ Designated as safety issue: Yes ]

Diastolic blood pressure was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery

- Vital Sign: Mean Heart Rate [ Time Frame: Screening up to 1 day after surgery ] [ Designated as safety issue: Yes ]

Heart rate was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery

- Number of Participants With Physical Examinations [ Time Frame: Screening up to day 7 ] [ Designated as safety issue: Yes ]

Physical examinations were to be conducted at screening, on Day 1 and 7 days after surgery

- Number of Participants With Reoccurrence of Neuromuscular Blockade at Day 1 [ Time Frame: Day 1 ] [ Designated as safety issue: Yes ]

Neuromuscular function was monitored by applying repetitive train of four (TOF) electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the first twitch (T1) and fourth twitch (T4) response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.9. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery. Reoccurrence of neuromuscular blockade is defined as a decline in the T4/T1 ratio from  $\geq 0.9$  to  $< 0.8$  in at least three consecutive measurements.

- Number of Participants With Events Due to Possible Interaction of Sugammadex With Endo-/Exogenous Compounds Other Than Rocuronium [ Time Frame: Day 1 ] [ Designated as safety issue: Yes ]

Evidence of AEs due to possible interaction of sugammadex with endogenous compounds or with exogenous compounds other than rocuronium

- Number of Participants With Pregnancies at 30 Days Post-dose [ Time Frame: Up to 30 days post -dose ] [ Designated as safety issue: Yes ]

Pregnancies reported by means of a Pregnancy Reporting Form, consist of pregnant female participants or pregnant female partners of male participants

- Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.9 [ Time Frame: Day 1 ] [ Designated as safety issue: No ]

Neuromuscular function was monitored by applying repetitive train of four (TOF) electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the first twitch (T1) and fourth twitch (T4) response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.9. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.

- Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.8 [ Time Frame: Day 1 ] [ Designated as safety issue: No ]

Neuromuscular function was monitored by applying repetitive TOF electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the T1 and T4 response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.8. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.

- Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.7 [ Time Frame: Day 1 ] [ Designated as safety issue: No ]

Neuromuscular function was monitored by applying repetitive TOF electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the T1 and T4 response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.7. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.

Enrollment: 6  
 Study Start Date: April 2008  
 Study Completion Date: July 2009  
 Primary Completion Date: July 2009 (Final data collection date for primary outcome measure)

<u>Arms</u>	<u>Assigned Interventions</u>
Experimental: Sugammadex IV single bolus dose of 4.0 mg/kg sugammadex	Drug: sugammadex At 15 minutes after administration of rocuronium, an IV single bolus dose of 4.0 mg/kg sugammadex was administered. Other Names: <ul style="list-style-type: none"> <li>• Org 25969</li> </ul>

- SCH 900616
- MK-8616
- Bridion®

Drug: Rocuronium

After achieving stable anesthesia an IV single bolus dose of 0.6 mg/kg rocuronium was administered

Other Names:

- Rocuronium bromide
- Esmeron®

#### Detailed Description:

The current trial was designed to evaluate the dialysability of the sugammadex-rocuronium complex in participants with severe renal impairment. A dose of 4.0 mg/kg sugammadex was administered 15 minutes after administration of 0.6 mg/kg rocuronium. Blood and dialysate samples were collected before, during and after hemodialysis/filtration, for calculation of clearance of sugammadex-rocuronium complex and assessment of rebound.

#### ► Eligibility

Ages Eligible for Study: 18 Years and older  
 Genders Eligible for Study: Both  
 Accepts Healthy Volunteers: No

#### Criteria

Inclusion Criteria:

- At least 18 years of age
- American Society of Anesthesiologists (ASA) Class  $\geq$ 4
- Creatinine clearance (CLCR)  $<$  30 mL/min and clinical indication for dialysis
- Hospitalization at Intensive Care Unit (ICU) and scheduled for a (surgical) procedure under general anesthesia requiring neuromuscular relaxation with the use of rocuronium
- Scheduled for a (surgical) procedure in supine position
- Written informed consent (of the legal representative)

Exclusion Criteria:

- Known or suspected to have neuromuscular disorders impairing neuromuscular blockade and/or significant hepatic dysfunction
- Known or suspected to have a (family) history of malignant hyperthermia
- Known or suspected to have an allergy to narcotics, muscle relaxants or other medication used during general anesthesia
- Have already participated in a sugammadex trial
- Have participated in another clinical trial, not preapproved by NV Organon, within 30 days of study entry
- Females who are pregnant\*
- Females who are breast-feeding \* In females pregnancy will be excluded both from medical history and by a human chorionic gonadotropin (hCG) test within 24 hours before surgery except in females who are not of childbearing potential, i.e. at least 2 years menopausal or have undergone tubal ligation or an hysterectomy.

#### ► Contacts and Locations

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see [Learn About Clinical Studies](#).

No Contacts or Locations Provided

#### ► More Information

Publications:

[Cammu G, Van Vlem B, van den Heuvel M, Stet L, el Galta R, Eloot S, Demeyer I. Dialysability of sugammadex and its complex with rocuronium in](#)

[intensive care patients with severe renal impairment. Br J Anaesth. 2012 Sep;109\(3\):382-90. doi: 10.1093/bja/aes207. Epub 2012 Jun 24.](#)

Responsible Party: Merck Sharp & Dohme Corp.  
ClinicalTrials.gov Identifier: [NCT00656799](#) [History of Changes](#)  
Other Study ID Numbers: P05773 2007-006934-33  
Study First Received: April 7, 2008  
Results First Received: May 21, 2013  
Last Updated: February 20, 2015  
Health Authority: Belgium: Federal Agency for Medicinal Products and Health Products

Additional relevant MeSH terms:

Renal Insufficiency	Neuromuscular Blocking Agents
Kidney Diseases	Neuromuscular Nondepolarizing Agents
Urologic Diseases	Peripheral Nervous System Agents
Rocuronium	Pharmacologic Actions
Neuromuscular Agents	Physiological Effects of Drugs

ClinicalTrials.gov processed this record on April 10, 2016

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Trial record 1 of 1 for: NCT00656799

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First received: April 7, 2008

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

Results First Received: May 21, 2013

<b>Study Type:</b>	Interventional
<b>Study Design:</b>	Endpoint Classification: Pharmacokinetics Study; Intervention Model: Single Group Assignment; Masking: Open Label; Primary Purpose: Treatment
<b>Condition:</b>	Neuromuscular Blockade
<b>Interventions:</b>	Drug: sugammadex Drug: Rocuronium

**Participant Flow**[Hide Participant Flow](#)**Recruitment Details****Key information relevant to the recruitment process for the overall study, such as dates of the recruitment period and locations**

No text entered.

**Pre-Assignment Details****Significant events and approaches for the overall study following participant enrollment, but prior to group assignment**

No text entered.

**Reporting Groups**

	Description
<b>Sugammadex</b>	

	Intravenous (IV) single bolus dose of 4.0 mg/kg sugammadex
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**Participant Flow: Overall Study**

	Sugammadex
<b>STARTED</b>	6
<b>COMPLETED</b>	4
<b>NOT COMPLETED</b>	2
<b>Death</b>	2

**▶ Baseline Characteristics**

 [Hide Baseline Characteristics](#)

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

No text entered.

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Baseline Measures**

	Sugammadex
<b>Number of Participants</b> [units: participants]	6
<b>Age</b> [units: years] Mean (Standard Deviation)	76 (7)
<b>Gender</b> [units: participants]	
<b>Female</b>	2
<b>Male</b>	4

**▶ Outcome Measures**

 [Hide All Outcome Measures](#)

1. Primary: Clearance of Sugammadex by Dialysis as Measured by the Reduction Ratio (RR) [ Time Frame: Up to day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Clearance of Sugammadex by Dialysis as Measured by the Reduction Ratio (RR)

<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected before, and after hemodialysis, with concentrations of sugammadex determined using a liquid chromatographic assay with mass spectrometric detection. The clearance of sugammadex at each dialysis session was calculated by measuring the ratio of plasma concentration at the end of dialysis, average duration of 6 hours, compared with that immediately before the start of dialysis, called the RR.
<b>Time Frame</b>	Up to day 7
<b>Safety Issue</b>	No

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Clearance of Sugammadex by Dialysis as Measured by the Reduction Ratio (RR)</b> [units: Reduction Ratio] Mean (Standard Deviation)	
First Dialysis (n=5)	0.687 (0.113)
Second Dialysis (n=6)	0.566 (0.150)
Third Dialysis (n=4)	0.516 (0.232)
Fourth Dialysis (n=4)	0.532 (0.144)

**No statistical analysis provided for Clearance of Sugammadex by Dialysis as Measured by the Reduction Ratio (RR)**

2. Primary: Clearance of Rocuronium by Dialysis as Measured by the Reduction Ratio (RR) [ Time Frame: Up to Day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Clearance of Rocuronium by Dialysis as Measured by the Reduction Ratio (RR)
<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected before, and after hemodialysis, with concentrations of rocuronium determined using a liquid chromatographic assay with mass spectrometric detection. The clearance of rocuronium at each dialysis session was calculated by measuring the ratio of plasma concentration at

	the end of dialysis, average duration of 6 hours, compared with that immediately before the start of dialysis, called the RR.
<b>Time Frame</b>	Up to Day 7
<b>Safety Issue</b>	No

#### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Clearance of Rocuronium by Dialysis as Measured by the Reduction Ratio (RR)</b> [units: Reduction Ratio] Mean (Standard Deviation)	
First Dialysis (n=5)	0.750 (0.0786)
Second Dialysis (n=6)	0.625 (0.144)
Third Dialysis (n=4)	0.521 (0.0489)
Fourth Dialysis (n=4)	0.458 (0.115)

No statistical analysis provided for Clearance of Rocuronium by Dialysis as Measured by the Reduction Ratio (RR)

3. Primary: Rate of Clearance of Sugammadex From Blood [ Time Frame: Up to day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Rate of Clearance of Sugammadex From Blood
<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Blood samples were collected from ports in the arterial and venous tubing of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of sugammadex were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from blood at each dialysis session was assessed by averaging across all available collection time points.
<b>Time Frame</b>	Up to day 7
<b>Safety Issue</b>	No

#### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Rate of Clearance of Sugammadex From Blood</b> [units: mL/min] Mean (Standard Deviation)	
First Dialysis (n=5)	79.1 (19.0)
Second Dialysis (n=6)	76.5 (19.6)
Third Dialysis (n=4)	72.4 (18.4)
Fourth Dialysis (n=4)	83.4 (16.5)

No statistical analysis provided for Rate of Clearance of Sugammadex From Blood

#### 4. Primary: Rate of Clearance of Rocuronium From Blood [ Time Frame: Up to Day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Rate of Clearance of Rocuronium From Blood
<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Blood samples were collected from ports in the arterial and venous tubing of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of rocuronium were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from blood at each dialysis session was assessed by averaging across all available collection time points.
<b>Time Frame</b>	Up to Day 7
<b>Safety Issue</b>	No

#### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

#### Reporting Groups

	Description

<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex
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**Measured Values**

	<b>Sugammadex</b>
<b>Number of Participants Analyzed</b> [units: participants]	<b>6</b>
<b>Rate of Clearance of Rocuronium From Blood</b> [units: mL/min] Mean (Standard Deviation)	
<b>First Dialysis (n=5)</b>	<b>80.2 (15.2)</b>
<b>Second Dialysis (n=6)</b>	<b>86.3 (14.1)</b>
<b>Third Dialysis (n=4)</b>	<b>94.1 (14.8)</b>
<b>Fourth Dialysis (n=3)</b>	<b>94.8 (9.68)</b>

No statistical analysis provided for Rate of Clearance of Rocuronium From Blood

5. Primary: Rate of Clearance of Sugammadex From Dialysate [ Time Frame: Up to day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Rate of Clearance of Sugammadex From Dialysate
<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected from a port in the outflow of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of sugammadex were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from dialysate at each dialysis session was assessed by averaging across all available collection time points. The data from the fourth dialysis are not presented as they were not calculable.
<b>Time Frame</b>	Up to day 7
<b>Safety Issue</b>	No

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

**Reporting Groups**

	<b>Description</b>
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	<b>Sugammadex</b>
<b>Number of Participants Analyzed</b>	

[units: participants]	6
<b>Rate of Clearance of Sugammadex From Dialysate</b>	
[units: mL/min] Mean (Standard Deviation)	
First Dialysis (n=5)	63.0 (8.74)
Second Dialysis (n=6)	65.1 (7.06)
Third Dialysis (n=4)	66.8 (13.2)

No statistical analysis provided for Rate of Clearance of Sugammadex From Dialysate

6. Primary: Rate of Clearance of Rocuronium From Dialysate [ Time Frame: Up to Day 7 ]

<b>Measure Type</b>	Primary
<b>Measure Title</b>	Rate of Clearance of Rocuronium From Dialysate
<b>Measure Description</b>	Starting on Day 1 dialysis was performed on four separate occasions using a Fresenius 40008H hemodialyzer, with a hemodiafilter standard helixone membrane FX 600. Dialysate samples were collected from a port in the outflow of the dialyzer before, during and after an average of 6 hours of hemodialysis. The concentrations of rocuronium were determined using a liquid chromatographic assay with mass spectrometric detection. The clearance rate from dialysate at each dialysis session was assessed by averaging across all available collection time points.
<b>Time Frame</b>	Up to Day 7
<b>Safety Issue</b>	No

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

All subjects pharmacokinetically evaluable consisting of all participants who received a dose of sugammadex and had at least one efficacy measurement

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Rate of Clearance of Rocuronium From Dialysate</b>	
[units: mL/min] Mean (Standard Deviation)	
First Dialysis (n=5)	75.1 (5.81)
Second Dialysis (n=6)	97.2 (32.4)
Third Dialysis (n=4)	110 (36.4)

<b>Fourth Dialysis (n=4)</b>	<b>95.3 (19.2)</b>
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**No statistical analysis provided for Rate of Clearance of Rocuronium From Dialysate**

7. Secondary: Number of Participants With Pre-treatment Adverse Events (AEs) [ Time Frame: Screening up to Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Pre-treatment Adverse Events (AEs)
<b>Measure Description</b>	An AE is any unfavorable and unintended change in the structure, function or chemistry of the body, whether or not related to the use of a product.
<b>Time Frame</b>	Screening up to Day 1
<b>Safety Issue</b>	Yes

#### Population Description

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

All Subjects Treated (AST) consisting of participants who received a dose of sugammadex

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Number of Participants With Pre-treatment Adverse Events (AEs)</b> [units: participants]	1

**No statistical analysis provided for Number of Participants With Pre-treatment Adverse Events (AEs)**

8. Secondary: Number of Participants With Serious Adverse Events (SAEs) [ Time Frame: Up to day 7 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Serious Adverse Events (SAEs)
<b>Measure Description</b>	A SAE is any untoward medical occurrence that at any dose results in the following: death, is life threatening, requires in-patient hospitalization or prolongation of existing hospitalization, persistent or significant disability/incapacity, or is a congenital anomaly/birth defect
<b>Time Frame</b>	Up to day 7
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Number of Participants With Serious Adverse Events (SAEs)</b> [units: participants]	2

No statistical analysis provided for Number of Participants With Serious Adverse Events (SAEs)

9. Secondary: Number of Participants With Medical Device (Near) Incidents [ Time Frame: Up to day 7 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Medical Device (Near) Incidents
<b>Measure Description</b>	A medical device (near) incident is defined as an occurrence due to inaccurate or inadequate labeling/instructions, or information supplied with a medical device; or malfunction, deterioration or recall of a medical device that could lead to death or serious deterioration in health.
<b>Time Frame</b>	Up to day 7
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6

<b>Number of Participants With Medical Device (Near) Incidents</b>	<b>0</b>
[units: participants]	

No statistical analysis provided for Number of Participants With Medical Device (Near) Incidents

10. Secondary: Vital Sign: Mean Systolic Blood Pressure [ Time Frame: Screening up to 1 day after surgery ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Vital Sign: Mean Systolic Blood Pressure
<b>Measure Description</b>	Systolic blood pressure was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery
<b>Time Frame</b>	Screening up to 1 day after surgery
<b>Safety Issue</b>	Yes

#### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	<b>6</b>
<b>Vital Sign: Mean Systolic Blood Pressure</b> [units: mm Hg] Mean (Standard Deviation)	
Screening	124.2 (19.2)
Pre-Rocuronium	106.3 (25.2)
Baseline pre-sugammadex	105.5 (20.4)
2 minutes post-sugammadex	105.0 (11.5)
5 minutes post-sugammadex	103.2 (10.0)
10 minutes post-sugammadex	98.0 (10.9)
30 minutes post-sugammadex	92.8 (21.3)
Post-anesthetic	146.3 (26.7)

No statistical analysis provided for Vital Sign: Mean Systolic Blood Pressure

## 11. Secondary: Vital Sign: Mean Diastolic Blood Pressure [ Time Frame: Screening up to 1 day after surgery ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Vital Sign: Mean Diastolic Blood Pressure
<b>Measure Description</b>	Diastolic blood pressure was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery
<b>Time Frame</b>	Screening up to 1 day after surgery
<b>Safety Issue</b>	Yes

## Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

## Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

## Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Vital Sign: Mean Diastolic Blood Pressure</b> [units: mm Hg] Mean (Standard Deviation)	
Screening	58.2 (6.2)
Pre-Rocuronium	51.2 (13.6)
Baseline pre-sugammadex	45.2 (13.3)
2 minutes post-sugammadex	46.5 (12.3)
5 minutes post-sugammadex	44.5 (12.1)
10 minutes post-sugammadex	46.8 (8.9)
30 minutes post-sugammadex	43.7 (9.4)
Post-anesthetic	67.8 (13.2)

No statistical analysis provided for Vital Sign: Mean Diastolic Blood Pressure

## 12. Secondary: Vital Sign: Mean Heart Rate [ Time Frame: Screening up to 1 day after surgery ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	

	Vital Sign: Mean Heart Rate
<b>Measure Description</b>	Heart rate was measured at the following time points: screening, before rocuronium treatment, before sugammadex treatment, at 2, 5, 10, 20 minutes post-sugammadex treatment, and the day after surgery
<b>Time Frame</b>	Screening up to 1 day after surgery
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Vital Sign: Mean Heart Rate</b> [units: Beats per minute] Mean (Standard Deviation)	
Screening	81.7 (22.6)
Pre-Rocuronium	78.0 (21.4)
Baseline pre-sugammadex	83.7 (21.4)
2 minutes post-sugammadex	81.0 (20.8)
5 minutes post-sugammadex	80.5 (20.4)
10 minutes post-sugammadex	80.2 (20.4)
30 minutes post-sugammadex	77.8 (20.1)
Post-anesthetic	71.8 (11.1)

No statistical analysis provided for Vital Sign: Mean Heart Rate

13. Secondary: Number of Participants With Physical Examinations [ Time Frame: Screening up to day 7 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Physical Examinations
<b>Measure Description</b>	Physical examinations were to be conducted at screening, on Day 1 and 7 days after surgery
<b>Time Frame</b>	Screening up to day 7
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Number of Participants With Physical Examinations</b> [units: participants]	
Screening	6
Peri-procedural (Day 1)	6
Day 7	0

No statistical analysis provided for Number of Participants With Physical Examinations

14. Secondary: Number of Participants With Reoccurrence of Neuromuscular Blockade at Day 1 [ Time Frame: Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Reoccurrence of Neuromuscular Blockade at Day 1
<b>Measure Description</b>	Neuromuscular function was monitored by applying repetitive train of four (TOF) electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the first twitch (T1) and fourth twitch (T4) response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.9. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery. Reoccurrence of neuromuscular blockade is defined as a decline in the T4/T1 ratio from $\geq 0.9$ to $< 0.8$ in at least three consecutive measurements.
<b>Time Frame</b>	Day 1
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all screened participants who received a dose of sugammadex

**Reporting Groups**

	Description

<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex
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**Measured Values**

	<b>Sugammadex</b>
<b>Number of Participants Analyzed</b> [units: participants]	<b>6</b>
<b>Number of Participants With Reoccurrence of Neuromuscular Blockade at Day 1</b> [units: participants]	<b>0</b>

No statistical analysis provided for Number of Participants With Reoccurrence of Neuromuscular Blockade at Day 1

15. Secondary: Number of Participants With Events Due to Possible Interaction of Sugammadex With Endo-/Exogenous Compounds Other Than Rocuronium [ Time Frame: Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Events Due to Possible Interaction of Sugammadex With Endo-/Exogenous Compounds Other Than Rocuronium
<b>Measure Description</b>	Evidence of AEs due to possible interaction of sugammadex with endogenous compounds or with exogenous compounds other than rocuronium
<b>Time Frame</b>	Day 1
<b>Safety Issue</b>	Yes

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	<b>Description</b>
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	<b>Sugammadex</b>
<b>Number of Participants Analyzed</b> [units: participants]	<b>6</b>
<b>Number of Participants With Events Due to Possible Interaction of Sugammadex With Endo-/Exogenous Compounds Other Than Rocuronium</b> [units: participants]	<b>0</b>

No statistical analysis provided for Number of Participants With Events Due to Possible Interaction of Sugammadex With Endo-/Exogenous Compounds Other Than Rocuronium

## 16. Secondary: Number of Participants With Pregnancies at 30 Days Post-dose [ Time Frame: Up to 30 days post -dose ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Number of Participants With Pregnancies at 30 Days Post-dose
<b>Measure Description</b>	Pregnancies reported by means of a Pregnancy Reporting Form, consist of pregnant female participants or pregnant female partners of male participants
<b>Time Frame</b>	Up to 30 days post -dose
<b>Safety Issue</b>	Yes

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

AST consisting of all participants who received a dose of sugammadex

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Number of Participants With Pregnancies at 30 Days Post-dose</b> [units: participants]	0

No statistical analysis provided for Number of Participants With Pregnancies at 30 Days Post-dose

## 17. Secondary: Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.9 [ Time Frame: Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.9
<b>Measure Description</b>	Neuromuscular function was monitored by applying repetitive train of four (TOF) electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the first twitch (T1) and fourth twitch (T4) response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.9. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.
<b>Time Frame</b>	Day 1
<b>Safety Issue</b>	No

**Population Description**

**Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.**

Intent To Treat (ITT) group consisting of participants who received a dose of sugammadex and had at least one efficacy measurement

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.9</b> [units: Minutes] Geometric Mean (95% Confidence Interval)	5.11 (3.06 to 8.53)

No statistical analysis provided for Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.9

18. Secondary: Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.8 [ Time Frame: Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.8
<b>Measure Description</b>	Neuromuscular function was monitored by applying repetitive TOF electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the T1 and T4 response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.8. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.
<b>Time Frame</b>	Day 1
<b>Safety Issue</b>	No

#### Population Description

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

ITT group consisting of participants who received a dose of sugammadex and had at least one efficacy measurement

#### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

#### Measured Values

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.8</b> [units: Minutes] Geometric Mean (95% Confidence Interval)	4.05 (2.36 to 6.93)

**No statistical analysis provided for Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.8**

## 19. Secondary: Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.7 [ Time Frame: Day 1 ]

<b>Measure Type</b>	Secondary
<b>Measure Title</b>	Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.7
<b>Measure Description</b>	Neuromuscular function was monitored by applying repetitive TOF electrical stimulations to the ulnar nerve every 15 seconds and assessing the magnitudes (heights) of the T1 and T4 response at the adductor pollicis muscle with a TOF-Watch® SX. Stimulation continued until the T4/T1 ratio reached at least 0.7. Higher T4/T1 ratios represent greater recovery from neuromuscular blockade; with a value of 1.0 representing full recovery.
<b>Time Frame</b>	Day 1
<b>Safety Issue</b>	No

**Population Description**

Explanation of how the number of participants for analysis was determined. Includes whether analysis was per protocol, intention to treat, or another method. Also provides relevant details such as imputation technique, as appropriate.

ITT group consisting of participants who received a dose of sugammadex and had at least one efficacy measurement

**Reporting Groups**

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

**Measured Values**

	Sugammadex
<b>Number of Participants Analyzed</b> [units: participants]	6
<b>Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.7</b> [units: Minutes] Geometric Mean (95% Confidence Interval)	3.41 (1.90 to 6.15)

**No statistical analysis provided for Time From Start of Administration of Sugammadex to Recovery of T4/T1 Ratio to 0.7****▶ Serious Adverse Events**

 Hide Serious Adverse Events

<b>Time Frame</b>	Up to 7 days after administration of sugammadex
<b>Additional Description</b>	No text entered.

**Reporting Groups**

	Description
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<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex
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### Serious Adverse Events

	Sugammadex
<b>Total, serious adverse events</b>	
<b># participants affected / at risk</b>	<b>2/6 (33.33%)</b>
<b>Cardiac disorders</b>	
<b>Cardiac failure <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Gastrointestinal disorders</b>	
<b>Intestinal ischaemia <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Hepatobiliary disorders</b>	
<b>Hepatic failure <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Respiratory, thoracic and mediastinal disorders</b>	
<b>Pulmonary haemorrhage <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>

<sup>1</sup> Term from vocabulary, MedDRA 12.1

### Other Adverse Events

 Hide Other Adverse Events

<b>Time Frame</b>	Up to 7 days after administration of sugammadex
<b>Additional Description</b>	No text entered.

### Frequency Threshold

<b>Threshold above which other adverse events are reported</b>	5%
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### Reporting Groups

	Description
<b>Sugammadex</b>	IV single bolus dose of 4.0 mg/kg sugammadex

### Other Adverse Events

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	Sugammadex
<b>Total, other (not including serious) adverse events</b>	
<b># participants affected / at risk</b>	<b>6/6 (100.00%)</b>
<b>Blood and lymphatic system disorders</b>	
<b>Thrombocytopenia <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Cardiac disorders</b>	
<b>Arrhythmia <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Cardiac failure <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Gastrointestinal disorders</b>	
<b>Constipation <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Hepatobiliary disorders</b>	
<b>Hepatic failure <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Hyperbilirubinaemia <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Infections and infestations</b>	
<b>Post procedural infection <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Staphylococcal infection <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Urinary tract infection <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>1/6 (16.67%)</b>
<b># events</b>	<b>1</b>
<b>Metabolism and nutrition disorders</b>	
<b>Hypoglycaemia <sup>1</sup></b>	
<b># participants affected / at risk</b>	<b>2/6 (33.33%)</b>
<b># events</b>	<b>2</b>
<b>Musculoskeletal and connective tissue disorders</b>	
<b>Back pain <sup>1</sup></b>	

# participants affected / at risk	1/6 (16.67%)
# events	1
<b>Psychiatric disorders</b>	
Restlessness <sup>1</sup>	
# participants affected / at risk	1/6 (16.67%)
# events	1
<b>Renal and urinary disorders</b>	
Haematuria <sup>1</sup>	
# participants affected / at risk	1/6 (16.67%)
# events	1
<b>Skin and subcutaneous tissue disorders</b>	
Decubitis ulcer <sup>1</sup>	
# participants affected / at risk	1/6 (16.67%)
# events	1
Subcutaneous emphysema <sup>1</sup>	
# participants affected / at risk	1/6 (16.67%)
# events	1

<sup>1</sup> Term from vocabulary, MedDRA 12.1

## ▶ Limitations and Caveats

☰ Hide Limitations and Caveats

Limitations of the study, such as early termination leading to small numbers of participants analyzed and technical problems with measurement leading to unreliable or uninterpretable data

No text entered.

## ▶ More Information

☰ Hide More Information

### Certain Agreements:

Principal Investigators are **NOT** employed by the organization sponsoring the study.

There **IS** an agreement between Principal Investigators and the Sponsor (or its agents) that restricts the PI's rights to discuss or publish trial results after the trial is completed.

The agreement is:

- The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **less than or equal to 60 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.
- The only disclosure restriction on the PI is that the sponsor can review results communications prior to public release and can embargo communications regarding trial results for a period that is **more than 60 days but less than or equal to 180 days**. The sponsor cannot require changes to the communication and cannot extend the embargo.
- Other disclosure agreement that restricts the right of the PI to discuss or publish trial results after the trial is completed.

**Restriction Description:** In case a proposed publication contains reference to an invention owned by the sponsor or to which the sponsor otherwise has rights, the sponsor may request a reasonable suspension of the publication.

### Results Point of Contact:

Name/Title: Senior Vice President, Global Clinical Development  
Organization: Merck Sharp & Dohme Corp.  
e-mail: [ClinicalTrialsDisclosure@merck.com](mailto:ClinicalTrialsDisclosure@merck.com)

### Publications of Results:

Cammu G, Van Vlem B, van den Heuvel M, Stet L, el Galta R, Eloit S, Demeyer I. Dialysability of sugammadex and its complex with rocuronium in intensive care patients with severe renal impairment. *Br J Anaesth.* 2012 Sep;109(3):382-90. doi: 10.1093/bja/aes207. Epub 2012 Jun 24.

Responsible Party: Merck Sharp & Dohme Corp.  
ClinicalTrials.gov Identifier: [NCT00656799](#) [History of Changes](#)  
Other Study ID Numbers: P05773  
2007-006934-33 ( EudraCT Number )  
Study First Received: April 7, 2008  
Results First Received: May 21, 2013  
Last Updated: February 20, 2015  
Health Authority: Belgium: Federal Agency for Medicinal Products and Health Products

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