

**PROFESSIONAL INFORMATION FOR SUGAMMADEX 100 mg/mL  
(SOLUTION FOR INJECTION)**

**SCHEDULING STATUS**

S4

**1. NAME OF THE MEDICINE**

SENUOM 2 mL (200 mg/2 mL Solution for injection).

SENUOM 5 mL (500 mg/5 mL Solution for injection).

**2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each mL contains 100 mg sugammadex sodium.

Sugar free

For the full list of excipients, see **Section 6.1**.

**3. PHARMACEUTICAL FORM**

SENUOM solution for injection is a clear and colourless to slightly yellow solution.

**4. CLINICAL PARTICULARS**

**4.1 Therapeutic indications**

SENUOM is indicated for the routine reversal of neuromuscular blockade induced by rocuronium or vecuronium.

SENUOM is also indicated for the immediate reversal of neuromuscular blockade at 3 minutes after administration of rocuronium.

For the paediatric population, SENUOM is only recommended for routine reversal of rocuronium induced blockade in children above 7 years of age.

## 4.2 Posology and method of administration

### Posology

The recommended dose of SENUOM depends on the level of neuromuscular blockade to be reversed. The recommended dose does not depend on the anaesthetic regimen.

SENUOM can be used to reverse different levels of rocuronium or vecuronium induced neuromuscular blockade.

### Routine Reversal of Neuromuscular Blockade

A dose of 4 mg/kg of SENUOM is recommended if recovery has reached 1 to 2 post-tetanic counts (PTC) (profound blockade) following administration of rocuronium or vecuronium induced blockade (see **section 4.4**).

A dose of 2 mg/kg of SENUOM is only recommended if spontaneous recovery has reached the reappearance of T<sub>2</sub> (shallow blockade) following rocuronium or vecuronium induced blockade (see **section 4.4**).

### Immediate Reversal

If there is a clinical need for immediate reversal at 3 minutes following administration of rocuronium, a dose of 16 mg/kg of SENUOM is recommended. There is no data to recommend the use of SENUOM for immediate reversal following vecuronium Induced blockade.

### Special populations:

#### Renal impairment

For mild and moderate renal impairment (creatinine clearance  $\geq 30$  and  $< 80$  mL/min):

The dose recommendations are the same as for adults without renal impairment. The use

of SENUOM in patients with severe renal impairment, including patients requiring dialysis (CrCl < 30 mL/min) is not recommended (see **section 4.4**).

Studies in patients with severe renal impairment do not provide sufficient safety information to support the use of SENUOM these patients.

### **Elderly patients**

After administration of sugammadex as in SENUOM at reappearance of T<sub>2</sub> following a rocuronium induced blockade, the median time to recovery of the T<sub>4</sub>/T<sub>1</sub> ratio to 0,9 in adults (aged 18 to 64 years) was 2,2 minutes, in elderly adults (aged 65 to 74 years) it was 2,6 minutes and in very elderly adults (aged 75 years or more) it was 3,6 minutes. Even though the recovery times in the elderly tend to be slower, the same dose recommendation as for adults should be followed (see **section 4.4**).

### **Obese patients**

In obese patients, the dose of SENUOM should be based on actual body weight. The same dose recommendations as for adults should be followed.

### **Hepatic impairment**

As SENUOM is mainly excreted renally, no dose adjustments are required for patients with mild to moderate hepatic impairment.

Studies in patients with hepatic impairment have not been conducted. Caution should be exercised when considering the use of SENUOM in patients with severe hepatic impairment or when hepatic impairment is accompanied by coagulopathy (see **section 4.4**).

### **Paediatric patients (under 7 years of age)**

The data for the paediatric population are limited. There is insufficient information on the use of SENUOM for children < 7 years of age. There is no information on SENUOM use for neonates. The use of SENUOM is therefore not recommended for use in these populations.

### **Children and Adolescents (aged 7 to 17 years)**

For reversal of rocuronium induced blockade at reappearance of T<sub>2</sub> in children and adolescents (7 to 17 years) 2 mg/kg of SENUOM is recommended.

### **Method of administration**

SENUOM should be administered under the supervision of an anaesthetist. SENUOM should be administered intravenously as a single bolus Injection. The bolus injection may be given rapidly, within 10 seconds, directly into a vein or into an existing IV line.

SENUOM can be injected into the intravenous line of a running Infusion with the following intravenous solutions:

Sodium chloride 9 mg/mL (0,9 %), glucose 50 mg/mL (5 %), sodium chloride 4,5 mg/mL (0,45 %) and glucose 25 mg/mL (2,5 %), Ringer's lactate solution, Ringer's solution, glucose 50 mg/mL (5 %) in sodium chloride 9 mg/mL (0,9 %).

For paediatric patients SENUOM can be diluted using sodium chloride 9 mg/mL (0,9 %) to a concentration of 10 mg/mL.

The use of an appropriate neuromuscular monitoring technique is recommended to monitor the recovery of the neuromuscular blockade. When certain medicines that may cause displacement interactions are administered parenterally within 7,5 hours of SENUOM, patients should be monitored for signs of recurrence of neuromuscular blockade.

#### 4.3 Contraindications

SENUOM is contraindicated in patients with known hypersensitivity to sugammadex sodium or any of the excipients of SENUOM (see **section 6.1**).

#### 4.4 Special warnings and precautions for use

**SENUOM is not to be used to reverse depolarising neuromuscular blocking agents.**

#### **Waiting times for re-administration with neuromuscular blocking agents (NMBA) after reversal with SENUOM**

Table 1: Re-administration of rocuronium or vecuronium after routine reversal (up to 4 mg/kg sugammadex):

<b>Minimum waiting time</b>	<b>NMBA and dose to be administered</b>
5 minutes	1,2 mg/kg rocuronium
4 hours	0,6 mg/kg rocuronium or 0,1 mg/kg vecuronium

The onset of neuromuscular blockade may be prolonged up to approximately 4 minutes, and the duration of neuromuscular blockade may be shortened up to approximately 15 minutes after re-administration of rocuronium 1,2 mg/kg within 30 minutes after sugammadex administration.

Based on PK modelling the recommended waiting time in patients with mild or moderate renal impairment for re-use of 0,6 mg/kg rocuronium or 0,1 mg/kg vecuronium after routine reversal with sugammadex should be 24 hours. If a shorter waiting time is required, the rocuronium dose for a new neuromuscular blockade should be 1,2 mg/kg.

Re-administration of rocuronium or vecuronium after immediate reversal (16 mg/kg sugammadex):

For the very rare cases where this might be required, a waiting time of 24 hours is recommended.

If neuromuscular blockade is required before the recommended waiting time has passed, a nonsteroidal neuromuscular blocking medicine should be used. The onset of a depolarizing neuromuscular blocking medicine might be slower than expected, because a substantial fraction of postjunctional nicotinic receptors can still be occupied by the neuromuscular blocking medicine.

### **Medicine hypersensitivity**

Medical practitioners should be prepared for the possibility of medicine hypersensitivity reactions (including anaphylactic reactions) and take the necessary precautions.

### **Renal impairment**

SENUOM is not recommended for use in patients with severe renal impairment, creatinine clearance < 30 mL/min, including requiring dialysis (see **section 5.1** and **section 5.2**).

Because of the estimated prolonged half-life of sugammadex in severe renally impaired patients, a full neuromuscular blockade may not be achieved after re-use of 0,6 mg/kg rocuronium or 0,1 mg/kg vecuronium within 24 hours after sugammadex reversal.

### **Marked Bradycardia**

Marked bradycardia has been observed within minutes after the administration of sugammadex for reversal of neuromuscular blockade. Cases of bradycardia with cardiac arrest have been reported (see **section 4.8**). Patients should be closely monitored for haemodynamic changes during and after reversal of neuromuscular blockade. Treatment

with anticholinergic medicines such as atropine should be administered if clinically significant bradycardia is observed.

### **Monitoring Respiratory Function during Recovery**

Ventilatory support is mandatory for patients until adequate spontaneous respiration is restored following reversal of neuromuscular block. Even if recovery from neuromuscular blockade is complete, other medicines used in the peri- and post-operative period could depress respiratory function and therefore ventilatory support might still be required.

Should neuromuscular blockade re-occur following extubation, adequate ventilation should be provided.

### **Effect on Homeostasis**

In *in-vitro* experiments, additional aPTT and PT prolongation was noted for sugammadex in combination with vitamin K antagonists, unfractionated heparin, low molecular weight heparinoids, rivaroxaban and dabigatran.

In a study in volunteers, doses of 4 mg/kg and 16 mg/kg of sugammadex resulted in maximum mean prolongations of aPTT by 17 and 22 % respectively and of PT (INR) by 11 and 22 % respectively. These limited mean aPTT and PT(INR) prolongations were of short duration ( $\leq$  30 minutes).

Based on the clinical database (n= 1 738) there was no clinically relevant effect of sugammadex alone or in combination with anticoagulants on the incidence of peri- or post-operative bleeding complications.

Since there is no information on the use of SENUOM in patients with known coagulopathies, coagulation parameters should be carefully monitored according to routine clinical practice.

An increased risk of bleeding cannot be excluded in patients:

- with hereditary vitamin K dependent clotting factor deficiencies;
- with pre-existing coagulopathies;
- on coumarin derivatives and at an INR above 3,5;
- using anticoagulants who receive a dose of 16 mg/kg sugammadex.

If there is a medical need to give sugammadex as in SENUOM to these patients the anaesthesiologist needs to decide if the benefits outweigh the possible risk of bleeding complications taking into consideration the patients history of bleeding episodes and type of surgery scheduled. If SENUOM is administered to these patients, monitoring of haemostasis and coagulation parameters is recommended.

#### **Delayed Recovery**

Conditions associated with prolonged circulation time such as cardiovascular disease, old age (see **section 4.2** for the time to recovery in elderly), or oedematous state (e.g. severe hepatic Impairment) may be associated with longer recovery times.

#### **Hepatic impairment**

SENUOM is not metabolised nor excreted by the liver; therefore dedicated studies in patients with hepatic impairment have not been conducted. Hepatic impairment may be accompanied by coagulopathy (see the information on the "**Effect on Haemostasis**" above).

#### **Light Anaesthesia**

When neuromuscular blockade was reversed intentionally in the middle of anaesthesia in clinical trials, signs of light anaesthesia were noted occasionally (movement, coughing, grimacing and sucking of the tracheal tube). If neuromuscular blockade is reversed, while

anaesthesia is continued, additional doses of anaesthetic and/or opioid should be given as clinically indicated.

### **Use in Intensive Care Unit (ICU)**

SENUOM has not been investigated in patients receiving rocuronium or vecuronium in the ICU setting.

### **Use for Reversal of Neuromuscular Blocking medicines other than Rocuronium or Vecuronium**

SENUOM should not be used to reverse block induced by non-steroidal neuromuscular blocking medicines such as succinylcholine or benzylisoquinolinium compounds.

SENUOM should not be used for reversal of neuromuscular blockage induced by steroidal neuromuscular blocking medicines other than rocuronium or vecuronium, since there are no efficacy and safety data for these situations. Limited data are available for reversal of pancuronium induced blockage, but it is advised not to use SENUOM in this situation.

### **4.5 Interaction with other medicines and other forms of interaction**

The information reported in this section is based on the binding affinity between SENUOM and other medicines, non-clinical experiments, clinical studies and simulations using a model taking into account the pharmacodynamic effect of neuromuscular blocking medicines and sugammadex.

Based on these data, no clinically significant pharmacodynamic interactions with other medicines are expected, with the exception of toremifene and fusidic acid (no clinically relevant capturing interactions are expected) as well as hormonal contraceptives (no displacement interactions are expected).

### **Interactions potentially affecting the efficacy of sugammadex (displacement interactions)**

Due to the administration of certain medicines after sugammadex, theoretically rocuronium or vecuronium could be displaced from SENUOM. As a result, recurrence of neuromuscular blockade might be observed. In this situation the patient must be ventilated. Administration of the medicine which caused displacement should be stopped in case of an infusion. In situations when potential displacement interactions can be anticipated, patients should be carefully monitored for signs of recurrence of neuromuscular blockade (approximately up to 15 minutes) after parenteral administration of another medicine occurring within a period of 7,5 hours after sugammadex administration.

Caution should be exercised when co-administering SENUOM with the following medicines:

#### **Toremifene**

For toremifene, which has a relatively high affinity constant and relatively high plasma concentrations, some displacement of vecuronium or rocuronium from the complex with SENUOM could occur.

The recovery of the train of four ratio,  $T_4/T_1$ , to 0,9 could therefore be delayed in patients who have received toremifene on the same day of surgery (see **section 4.4**).

#### **Intravenous Administration of Fusidic Acid**

The use of fusidic acid in the pre-operative phase may cause some delay in the recovery of the  $T_4/T_1$  ratio to 0,9.

No recurrence of neuromuscular blockade is expected in the post-operative phase, since the infusion rate of fusidic acid is over a period of several hours and the blood levels are cumulative over 2 to 3 days.

**Interactions potentially affecting the efficacy of other medicines (capturing interactions):**

Due to the administration of SENUOM, certain medicines could become less effective due to a lowering of the (free) plasma concentrations. If such a situation is observed, the medical practitioner is advised to consider the re-administration of the medicine, the administration of a therapeutically equivalent medicine (preferably from a different chemical class) and/or non-pharmacological interventions as appropriate.

**Hormonal Contraceptives**

In a simulation performed with a PK-PD model, it was found that the interaction between 4 mg/kg sugammadex and a progestogen could lead to a decrease in progestogen exposure (34 % of AUC) similar to the decrease seen when a daily dose of an oral contraceptive is taken 12 hours too late, which might lead to a reduction in effectiveness. Therefore, the administration of a bolus dose of SENUOM is considered to be equivalent to one missed daily dose of oral contraceptive steroids.

Please refer to the missed dose advice in the package insert of the oral contraceptive, for any action required if an oral contraceptive is taken on the same day that SENUOM is administered.

**In the case of non-oral hormonal contraceptives, the patient must use an additional non hormonal contraceptive method for the next 7 days and refer to the advice in the package leaflet of the non-oral contraceptive.**

### **Interactions due to the lasting effect of rocuronium or vecuronium**

When medicines which potentiate neuromuscular blockade are used in the post-operative period, special attention should be paid to the possibility of recurrence of neuromuscular blockade. Please refer to the package leaflet of rocuronium or vecuronium for a list of the specific medicines which potentiate neuromuscular blockade. In case recurrence of neuromuscular blockade is observed, the patient may require mechanical ventilation and re-administration of SENUOM (see **section 4.2**).

### **Interference with Laboratory Tests**

In general, sugammadex as in SENUOM does not interfere with laboratory tests. However it has been shown to Interfere with the serum progesterone assay.

This Interference was observed in plasma samples spiked with a concentration of sugammadex in the same range as obtained for  $C_{max}$  after a dose of 16 mg/kg.

In a study in volunteers doses of 4 mg/kg and 16 mg/kg of sugammadex resulted in maximum mean prolongations of aPTT by 17 and 22 % respectively and of PT(INR) by 11 and 22 % respectively. These limited mean aPTT and PT(INR) prolongations were of short duration ( $\leq 30$  minutes).

In *in-vitro* experiments a pharmacodynamic interaction (aPTT and PT prolongation) was noted with vitamin K antagonists, unfractionated heparin, low molecular weight heparinoids, rivaroxaban and dabigatran (see **section 4.4**).

### **Paediatric Population**

No formal interaction studies have been performed. The above-mentioned interactions for adults and the warnings should also be taken into account for the paediatric population.

#### **4.6 Fertility, pregnancy and lactation**

##### **Pregnancy**

The safety of SENUOM has not been established in pregnant women.

##### **Breastfeeding**

Excretion of sugammadex in human milk has not been studied, but can be expected based on the pre-clinical data.

##### **Fertility**

The effects of sugammadex on human fertility have not been investigated. Animal studies to evaluate fertility do not reveal harmful effects.

#### **4.7 Effects on ability to drive and use machines**

SENUOM has no known influence on the ability to drive and use machines.

#### **4.8 Undesirable effects**

##### **Summary of the safety profile**

SENUOM is administered concomitantly with neuromuscular blocking medicines and anaesthetics in surgical patients. The causality of adverse events is therefore difficult to assess.

The most commonly reported adverse reactions in surgical patients were cough, airway complication of anaesthesia, anaesthetic complications, procedural hypotension and procedural complications.

**Tabulated list of adverse reactions:**

The following adverse reactions have been classified as being either: “frequent, less frequent or frequency not known”.

<b>System organ class</b>	<b>Adverse reactions</b>
<b>Immune system disorders</b>	<b>Less frequent:</b> Medicine hypersensitivity reactions.
<b>Injury, poisoning and procedural complications</b>	<b>Frequent:</b> Prolonged neuromuscular blockade (with sub-optimal doses), airway complication of anaesthesia, (see <b>section 4.4</b> ), procedural hypotension, procedural complication  <b>Less Frequent:</b> Anaesthetic complication
<b>Respiratory, thoracic and mediastinal disorders</b>	<b>Frequent:</b> Cough.
<b>Nervous system disorders</b>	<b>Frequent:</b> Dysgeusia.

**Description of selected adverse reactions:**

**Anaesthetic Complications**

Anaesthetic complications, indicative of the restoration of neuromuscular function, include movement of a limb or the body or coughing during the anaesthetic procedure or during surgery, grimacing, or sucking on the endotracheal tube, was judged to be related to treatment in about 1 % of the patients and in none of the placebo group. Most occurrences of anaesthetic complications were mild to moderate.

**Procedural complication**

Procedural complications included coughing, tachycardia, bradycardia, movement, and increase in heart rate.

### **Recurrence of Neuromuscular Blockade**

The incidence of recurrence of neuromuscular blockade as measured with neuromuscular monitoring was 2 % after sugammadex and 0 % in the placebo group. Virtually all of these cases were from dose-finding studies in which a sub-optimal dose (< 2 mg/kg) was administered. In cases where recurrence of neuromuscular blockade is observed, the patient must be ventilated.

### **Medicine Hypersensitivity Reactions**

Hypersensitivity reactions, including anaphylaxis, have occurred in some patients and volunteers (for information on volunteers, see "Information on healthy volunteers" below).

These reactions varied from isolated skin reactions to serious systemic reactions (i.e. anaphylaxis, anaphylactic shock) and have occurred in patients with no prior exposure to SENUOM.

Symptoms associated with these reactions can include: Flushing, urticaria, erythematous rash, (severe) hypotension, tachycardia, swelling of tongue, swelling of the pharynx, bronchospasm and pulmonary obstructive events. Severe hypersensitivity reactions can be fatal.

### **Information on Healthy Volunteers**

Hypersensitivity reactions, including anaphylaxis, have been observed with sugammadex. In a study in healthy conscious volunteers (placebo, n= 150; 4 mg/kg, n= 148; and 16 mg/kg, n= 150), hypersensitivity reactions were reported frequently with sugammadex 16 mg/kg and less frequently with sugammadex 4 mg/kg or placebo. In this study, dose dependent trends were also observed for dysgeusia, nausea and flushing.

### **Marked Bradycardia**

In post-marketing, cases of marked bradycardia and bradycardia with cardiac arrest have been observed within minutes after administration of sugammadex (see **section 4.4**).

### **Additional Information on Special Populations**

#### **Pulmonary Patients**

In post-marketing data and in one dedicated clinical trial in patients with a history of pulmonary complications, bronchospasm was reported as a possibly related adverse event. As with all patients with a history of pulmonary complications, the medical practitioner should be aware of the possible occurrence of bronchospasm.

#### **Morbidly obese patients**

The adverse reaction profile in morbidly obese patients was generally similar to the profile in adult patients.

#### **Paediatric Population**

The safety profile of sugammadex (up to 4 mg/kg) in paediatric patients above 7 years old, was similar to that in adults.

#### **Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare professionals are asked to report any suspected adverse reactions to SAHPRA via the 6.04 Adverse Drug Reaction Reporting Form, found online under SAHPRA's publications: <https://www.sahpra.org.za/Publications/Index/8> or to Cipla Medpro (Pty) Ltd (by e-mail: [drugsafety@cipla.com](mailto:drugsafety@cipla.com) or telephone 080 222 6662 (toll free).

## 4.9 Overdose

### Management of overdosage

SENUOM can be removed using haemodialysis with a high-flux filter, but not with a low-flux filter. Based upon clinical studies, sugammadex concentrations in plasma are reduced with a high-flux filter by about 70 % after a 3 to 6-hour dialysis session.

## 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

#### Pharmacological classification:

Category and Class: A.34 Other

Pharmacotherapeutic group: all other therapeutic products, antidotes, ATC code:

V03AB35

#### Mechanism of action

Sugammadex sodium injection is a modified cyclodextrin. It is a selective relaxant binding agent (SRBA) which forms a complex with the neuromuscular blocking medicines rocuronium and vecuronium, and it reduces the amount of neuromuscular blocking medicine available to bind to nicotinic receptors in the neuromuscular junction. This results in the reversal of neuromuscular blockade induced by rocuronium and vecuronium.

#### Pharmacodynamic effects

Sugammadex has been administered in doses ranging from 0,5 mg/kg to 16 mg/kg in dose response studies of rocuronium induced blockade (0,6, 0,9, 1,0 and 1,2 mg/kg rocuronium bromide with and without maintenance doses) and vecuronium induced blockade (0,1 mg/kg vecuronium bromide with or without maintenance doses) at different

time points/depths of blockade. In these studies, a clear dose-response relationship was observed.

## **5.2 Pharmacokinetic properties**

The sugammadex pharmacokinetic parameters were calculated from the total sum of non-complex-bound and complex-bound concentrations of sugammadex. Pharmacokinetic parameters such as clearance and volume of distribution are assumed to be the same for non-complex-bound and complex-bound sugammadex in anaesthetised patients.

### **Distribution**

The observed steady-state volume of distribution of sugammadex sodium is approximately 11 to 14 litres in adult patients with normal renal function (based on conventional, non-compartmental pharmacokinetic analysis). Neither sugammadex nor rocuronium bind to plasma proteins or erythrocytes. Sugammadex sodium exhibits linear kinetics in the dose range of 1 to 16 mg/kg when administered as an IV bolus dose.

### **Biotransformation**

No metabolites of sugammadex have been observed and only renal excretion of the unchanged medicine was observed as the route of elimination.

### **Elimination**

In adult anaesthetised patients with normal renal function, the elimination half-life of sugammadex sodium is about 2 hours, and the estimated plasma clearance is about 84 mL/min. A mass balance study demonstrated that > 90 % of the dose was excreted within

**Sugammadex solution for injection 100 mg/mL**  
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24 hours. Ninety six percent (96 %) of the dose was excreted in urine, of which at least 95 % could be attributed to unchanged sugammadex. Excretion via faeces or expired air was < 0,02 % of the dose. Administration of sugammadex sodium to healthy volunteers resulted in increased renal elimination of rocuronium in complex.

**Special populations:**

**Renal Impairment and Age**

In a pharmacokinetic study comparing patients with severe renal impairment to patients with normal renal function, sugammadex levels in plasma were similar during the first hour after dosing and thereafter the levels decreased faster in the control group. Total exposure to sugammadex was prolonged, leading to approximately 17-fold higher exposure in patients with severe renal impairment. Low concentrations of sugammadex are detectable for at least 48 hours post-dose in patients with severe renal insufficiency.

Predicted pharmacokinetic parameters of sugammadex by age group and renal function based on compartmental modelling are presented below:

Selected patient characteristics				Mean Predicted PK parameters (CV%)		
Demographics	Renal function			Clearance (mL/min)	Volume of distribution at steady state (L)	Elimination half-life (hr)
	Creatinine clearance (mL/min)					
Adult	Normal		100	88 (22)	12	2 (21)
40 yrs	Impaired	Mild	50	51 (22)	13	4 (22)
75 kg		Moderate	30	31 (23)	14	6 (23)
		Severe	10	9 (22)	14	19 (24)
Elderly	Normal		80	75 (23)	12	2 (21)
75 yrs	Impaired	Mild	50	51 (24)	13	3 (22)
75 kg		Moderate	30	31 (23)	14	6 (23)
		Severe	10	9 (22)	14	19 (23)
Adolescent	Normal		95	77 (23)	9	2 (22)

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15 yrs	Impaired	Mild	48	44 (23)	10	3 (22)
56 kg		Moderate	29	27 (22)	10	5 (23)
		Severe	10	8 (21)	11	17 (23)
Child	Normal		51	37 (22)	4	2 (20)
7 yrs	Impaired	Mild	26	19 (22)	4	3 (22)
23 kg		Moderate	15	11 (22)	4	5 (22)
		Severe	5	3 (22)	5	20 (25)

Mean and coefficient of variation (CV in %) are presented. For Volume of distribution, no

CV could be estimated from the model

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

- Hydrochloric acid concentrate
- Nitrogen
- Sodium hydroxide
- Water for injection

### **6.2 Incompatibilities**

NOT APPLICABLE

### **6.3 Shelf life**

24 months.

After first opening and dilution chemical and physical stability has been demonstrated for 48 hours at 2 °C to 25 °C

From a microbiological point of view, SENUOM should be used immediately. If not used immediately, in use storage times and conditions prior to use are the responsibility of the

user and would normally not be longer than 24 hours at 2 to 8 °C, unless dilution has taken place in controlled and validated aseptic conditions.

#### **6.4 Special precautions for storage**

Store at or below 25 °C.

Do not freeze.

Protect from light. When not protected from light, the vial should be used within 5 days.

#### **6.5 Nature and contents of container**

SENUOM 100 mg/mL solution for injection is packed in a type I glass vial with a Chlorobutyl rubber stopper and a one-piece aluminium seal with a coloured top plastic (flip-off) button. It is presented in packs containing 10 single-use vials in a carton box with a patient information leaflet.

SENUOM is available in:

- 2 mL single-use vials (200 mg/2 mL)
- 5 mL single-use vials (500 mg/5 mL).

Not all pack sizes will necessarily be marketed.

#### **6.6 Special precautions for disposal and other handling**

SENUOM can be injected into the intravenous line of a running infusion with the following intravenous solutions: sodium chloride 9 mg/mL (0,9 %), glucose 50 mg/mL (5 %), sodium chloride 4,5 mg/mL (0,45 %) and glucose 25 mg/mL (2,5 %), Ringers lactate solution, Ringers solution, glucose 50 mg/mL (5 %) in sodium chloride 9 mg/mL (0,9 %).

For paediatric patients SENUOM can be diluted using sodium chloride 9 mg/mL (0,9 %) to a concentration of 10 mg/mL.

**7. HOLDER OF CERTIFICATE OF REGISTRATION**

CIPLA MEDPRO (PTY) LTD.

Building 9, Parc du Cap

Mispel Street

Belville

7530

Customer Care: 080 222 6662

**8. REGISTRATION NUMBER(S)**

TBA

**9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

TBA

**10. DATE OF REVISION OF THE TEXT**

N/A