

Rocuronium bromide 50mg/5ml solution for injection vials | 10 vial [PoM] £28.00–£38.30 | 10 vial [PoM] £28.00 (Hospital only)
 Rocuronium bromide 100mg/10ml solution for injection vials | 10 vial [PoM] £57.00–£76.70 | 10 vial [PoM] £57.00 (Hospital only)
 Rocuronium bromide 100mg/10ml solution for injection ampoules | 10 ampoule [PoM] £57.00

- ▶ **Esmeron** (Merck Sharp & Dohme Ltd)
Rocuronium bromide 10 mg per 1 ml Esmeron 50mg/5ml solution for injection vials | 10 vial [PoM] £28.92 (Hospital only)

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Vecuronium bromide

22-May-2019

● INDICATIONS AND DOSE

Neuromuscular blockade (intermediate duration) during surgery

- ▶ BY INTRAVENOUS INJECTION

- ▶ Neonate: (consult product literature).

- ▶ Child: (consult product literature)

DOSES AT EXTREMES OF BODY-WEIGHT

- ▶ To avoid excessive dosage in obese patients, dose should be calculated on the basis of ideal body-weight.

- **INTERACTIONS** → Appendix 1: neuromuscular blocking drugs, non-depolarising

● SIDE-EFFECTS

- ▶ **Uncommon** Procedural complications
- ▶ **Rare or very rare** Angioedema · face oedema · paralysis
- **HEPATIC IMPAIRMENT** Manufacturer advises caution in significant impairment.

- **RENAL IMPAIRMENT** Use with caution.

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug.

Powder for solution for injection

- ▶ **Vecuronium bromide (Non-proprietary)**
Vecuronium bromide 10 mg Vecuronium bromide 10mg powder for solution for injection vials | 10 vial [PoM] £57.85 (Hospital only)

1.2 Neuromuscular blockade reversal

Neuromuscular blockade reversal

Neuromuscular blockade reversal

Anticholinesterases

Anticholinesterases reverse the effects of the non-depolarising (competitive) neuromuscular blocking drugs such as pancuronium bromide p. 874 but they prolong the action of the depolarising neuromuscular blocking drug suxamethonium chloride p. 872.

Neostigmine p. 700 is used specifically for reversal of non-depolarising (competitive) blockade. It acts within one minute of intravenous injection and its effects last for 20 to 30 minutes; a second dose may then be necessary. Glycopyrronium bromide p. 870 or alternatively atropine sulfate p. 869, given before or with neostigmine, prevent bradycardia, excessive salivation, and other muscarinic effects of neostigmine.

Other drugs for reversal of neuromuscular blockade

Sugammadex below is a modified gamma cyclodextrin that can be used in children for the routine reversal of neuromuscular blockade induced by rocuronium bromide p. 874.

ANTICHOLINESTERASES

Neostigmine with glycopyrronium bromide

The properties listed below are those particular to the combination only. For the properties of the components please consider, neostigmine p. 700, glycopyrronium bromide p. 870.

● INDICATIONS AND DOSE

Reversal of non-depolarising neuromuscular blockade

- ▶ BY INTRAVENOUS INJECTION
- ▶ Child: 0.02 mL/kilogram, repeated if necessary, alternatively dilute to 1 in 10 solution and give 0.2 mL/kg; maximum 2 mL per course

- **INTERACTIONS** → Appendix 1: glycopyrronium · neostigmine

- **DIRECTIONS FOR ADMINISTRATION** For *intravenous injection*, may be diluted with Sodium Chloride 0.9%, give over 10–30 seconds

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug.

Solution for injection

- ▶ **Neostigmine with glycopyrronium bromide (Non-proprietary)**
Glycopyrronium bromide 500 microgram per 1 mL, Neostigmine metilsulfate 2.5 mg per 1 mL Neostigmine 2.5mg/1ml / Glycopyrronium bromide 500micrograms/1ml solution for injection ampoules | 10 ampoule [PoM] £11.50

ANTIDOTES AND CHELATORS

Sugammadex

18-Nov-2019

● INDICATIONS AND DOSE

Routine reversal of neuromuscular blockade induced by rocuronium

- ▶ BY INTRAVENOUS INJECTION
- ▶ Child 2-17 years: 2 mg/kg (consult product literature)

IMPORTANT SAFETY INFORMATION

Should only be administered by, or under the direct supervision of, personnel experienced in its use.

- **CAUTIONS** Cardiovascular disease (recovery may be delayed) · pre-existing coagulation disorders · recurrence of neuromuscular blockade— monitor respiratory function until fully recovered · use of anticoagulants (unrelated to surgery) · wait 24 hours before re-administering rocuronium

- **INTERACTIONS** → Appendix 1: sugammadex

● SIDE-EFFECTS

- ▶ **Common or very common** Abdominal pain · arrhythmias · cough · dizziness · headache · nausea · procedural complications · skin reactions · taste altered · vomiting
- ▶ **Uncommon** Hypersensitivity
- ▶ **Frequency not known** Bronchospasm
- **PREGNANCY** Use with caution—no information available.
- **RENAL IMPAIRMENT** Avoid if estimated glomerular filtration rate less than 30 mL/minute/1.73 m².
- **DIRECTIONS FOR ADMINISTRATION** For *intravenous injection* dose may be diluted to a concentration of 10 mg/mL with Sodium Chloride 0.9%.
- **NATIONAL FUNDING/ACCESS DECISIONS**

Scottish Medicines Consortium (SMC) decisions

The *Scottish Medicines Consortium*, has advised (February 2013) that sugammadex (*Bridion*[®]) is accepted for restricted use within NHS Scotland for the routine reversal