

## Carbetocin PharmIdea

100 micrograms/ml solution for injection

**Carbetocin has been approved by EBCOG & SOGC for use immediately following an elective Cesarean section** when a local or spinal anesthesia has been administered.

**Pharmacological information.** Carbetocin is a long-acting synthetic Oxytocin analogue.

**Therapeutic indications.** Carbetocin is indicated for the prevention of uterine atony following delivery of the infant by caesarean section under epidural or spinal anaesthesia.

**Dosage and Administration.** A single intravenous dose of 100 µg of Carbetocin injection is administered by injection, slowly over 1 minute, only when delivery of the infant has been completed by caesarean section under epidural or spinal anesthesia.

### Carbetocin versus Oxytocin

| Characteristics              | Carbetocin 100 µg/ml      | Oxytocin 20IU in 1000 ml 0,9% NaCl |
|------------------------------|---------------------------|------------------------------------|
| Administration               | 1 single i/v dosage       | infusion 150 ml/hour               |
| Therapeutical effect         | less than 2 min after i/v | 16 hours i/v infusion              |
| Additional uterotonic agents | no need                   | need additional                    |
| Haemodynamic effects         | hypotensive effect        | greater hypotensive effect         |
| Diuresis                     | higher                    | lower                              |
| Maternal adverse risk        | lower                     | higher                             |
| Blood loss                   | lower                     | higher                             |

**Conclusions.** A single intravenous dose of 100 µg of carbetocin has been shown to be as effective as a 16-hour infusion of oxytocin in preventing intraoperative blood loss after Caesarean section. Considering its potential advantages over oxytocin – Carbetocin is more rapid and longer duration of effect, lower volumes to administer.

Data source: Society of Obstetricians and Gynaecologists of Canada (SOGC). European Board and College of Obstetrics and Gynaecology (EBCOG).

**Pharmacotherapeutic group:** Oxytocin and analogues

**ATC code:** H01BB03

Store and transport refrigerated (2 °C–8 °C).

Store in the original package in order to protect from light. Do not freeze.

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