# West of Scotland NEONATAL Parenteral Drug Monographs

## **Flumazenil**

**FORM** Amp containing 500microgram in 5ml

**INDICATION** Reversal of benzodiazepine induced sedation

#### **DOSE RANGE**

AGE	DOSE	FREQUENCY	ROUTE
Neonate	10microgram/kg	Initial dose. Repeat at 1 minute intervals	IV
		if required. (Question aetiology if no	
		response to repeated injection.)	
		Maximum total dose 40 microgram/kg.	
Neonate	leonate 2 - 10 microgram/kg/hour If drowsiness recurs after the I.V. bolus		IV infusion
		dose(s) then an infusion may be given.	
		This should be individually adjusted to	
		achieve the desired level of arousal.	
1 – 6months	10microgram/kg	Initial dose. Repeat at 1 minute intervals	IV
	(max single dose	if required. (Question aetiology if no	
	200microgram)	response to repeated injection.)	
		Maximum total dose 40microgram/kg	
		(1mg) (2mg in intensive care)	
1 – 6months	2 – 10 microgram/kg/hour	If drowsiness recurs after the I.V. bolus	IV infusion
		dose(s) then an infusion may be given.	
		This should be individually adjusted to	
		achieve the desired level of arousal.	
		Maximum 400microgram/hr.	



PRESCRIPTION OF CONTINUOUS INFUSION

500micrograms/kg of flumazenil in 50ml infusion fluid

This gives:-

2micrograms/kg/hr at 0.2ml/hr10 microgram/kg/hour at 1ml/hour

**RECONSTITUTION** 

Not required

**DILUTION** 

For continuous Infusion

Using 500 microgram/5ml injection

5 x wt (kg) is the number of ml of 500 microgram/5ml injection to be

diluted up to 50ml total with infusion fluid (equivalent to

500microgram/kg in 50ml)

### For slow IV injection

Flumazenil 500microgram in 5ml inj	2ml
Sodium Chloride 0.9% inj.	up to 4ml total

Gives a 50 microgram in 1ml solution. Use the required volume.

METHOD OF ADMINISTRATION

For continuous infusion

By continuous intravenous infusion, flow rate adjusted according to the baby's response (see prescription section for details).

**For IV injection** 

By IV injection over 15 seconds.

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#### **COMPATIBILITY**

Solution compatibility	Glucose 5%. Sodium chloride 0.9%.
Solution incompatibility	All other IV fluids.
IV Line compatibility	No other drugs.
IV Line incompatibility	All other drugs.

# THIS LIST IS NOT EXHAUSTIVE PLEASE CONTACT PHARMACY FOR FURTHER INFORMATION ON COMPATIBILITY WITH ANY MEDICINES NOT INCLUDED

### **CAUTIONS, CONTRA-INDICATIONS AND SIDE EFFECTS**

See Summary of Product Characteristics and most recent edition of BNF for Children (links below)

**FURTHER INFORMATION** 

- The half life of flumazenil is very short (40 to 80 minutes) and is shorter than the half life of midazolam or diazepam. An infusion of flumazenil may be necessary if drowsiness returns after single doses.
- Contraindicated in patients who have been given a benzodiazepine for control of a potentially life-threatening condition e.g. status epilepticus.

PH 3.8 – 4.5 LICENSED STATUS Unlicensed

LINKS BNF for Children / Electronic Medicines Compendium:

APPLICABLE POLICIES West of Scotland Neonatal Guidelines:

Consult local policy if applicable

Document Number:	002	Supersedes:	001
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Date prepared	May 2016	Date updated	November 2019
Updated by	Hazel Fisher	Review Date	November 2022

#### Administer reconstituted solutions immediately.

All vials, ampoules and infusion bags are for single use only unless otherwise stated.

Dose may vary depending on indication, age, renal function, hepatic function, and concomitant medications.

This monograph should be used in conjunction with the package insert, BNF for Children, and Summary of Product
Characteristics. For further advice contact your clinical pharmacist or pharmacy department.

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