

SODIUM BENZOATE administration (IV)

(Each ampoule of Sodium Benzoate concentrate for injection contains 1g in 5mls or 2g in 10mls)

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Dose:
Stat dose (if required)
250mgs/kg over 90 minutes
Maintenance dose:
250 - 500 mgs/kg/day

Use maximum concentration only:
 50mg/ml preparation
 (i.e. 50mg in 1ml = 5000mg in 100ml = 5g in 100ml = 5% solution
Note: % = g / 100mls. (e.g. 1% = 1g in 100ml / 10% = 10g in 100ml)

Based on the dose/kg/day, the following are the administration options for a 24 hour infusion:

A.
 If dose is $\leq 3g / \text{day}$ the following method of administration is used

B.
 If dose is $>3g <20g / \text{day}$ the following method of administration is used

C.
 If dose is $> 20g / \text{day}$ the following method of administration is used

Using a 50 ml syringe, withdraw 37.5mls from a 500ml bag of 10% dextrose and add 12.5 mls of Sodium Benzoate concentrate for injection to the syringe, therefore syringe contains a solution of 2.5g in 50ml.
 (i.e. 2.5g in 50ml = 5g in 100ml = 5% solution = 50mg in 1ml)
 (note: if 2.5 – 3g required the syringe will last < 24 hours)

Remove 220mls from a 500 ml bag of Dextrose 10% and add 100mls of Sodium Benzoate concentrate for injection (100mls = 20g)
 As 100 mls of Sodium Benzoate has been added to the solution there is now 20 grams of Sodium Benzoate in a volume of 400mls*
 (i.e. 20g in 400ml = 5g in 100ml (5% solution) = 50mg in 1ml.

Remove 145 ml from 500 ml bag of Dextrose 10% and add 125mls of Sodium Benzoate concentrate for injection (125mls = 25g)
 As 125 mls of Sodium Benzoate has been added to the solution there is now 25 grams of Sodium Benzoate in a volume of 500 mls*
 (i.e. 25g in 500ml = 5g in 100ml (5% solution) = 50mg in 1ml.

May be prescribed as a stat / bolus infusion (over 1.5-2 hours) or continuous.
 (Always a continuous infusion in PICU)

Prescription Includes :

- Infusion fluid – 10% dextrose**
- Volume & Drug dose to be added –**
- drug name (grams in final volume)
- solution percentage concentration
- dose in mgs/kg/day
- calculated dose in g/day
- dose in mls /day
- Rate ml/hr**
- Doctors signature & date**

*500ml bags do not contain exactly 500ml – average contents is 520-540ml. This calculation is based on a volume of 520mls in bag.

Prescription example

250 mg / kg / day prescribed for 33kg child.
 $33 \text{ kg} \times 250\text{mg} = 8250\text{mgs} = 8.25g / \text{day}$
 As dose $>3g <20g / \text{day}$ option B is used
 $8250 \div 50 \times 1 = 165 \text{ mls/day} = 6.9\text{mls/hr}$

Date	Infusion fluid	Volume	Drug or electrolyte dose to be added	Rate ml/hr	Prescribers full signature	Date discontinued	Administered by	Witnessed by:	Time
2/9/13	10% Dextrose	20g of sodium benzoate in 400ml final volume = 5% solution Dose = 250mgs/kg/day =8.25g/day = 165ml/day		6.9ml/hr	Dr Bloggs Pager 007	7/9/13	S/N	S/N	1400hrs