

Hydrocortisone Infusion

**This presentation
shows the steps
involved in the
preparation of an
Hydrocortisone Infusion**

Hydrocortisone Infusion

RIGHT drug

RIGHT patient

RIGHT dose

RIGHT time

RIGHT route

RIGHT documentation

RIGHT to refuse

Perform 7R' of drug administration

Hydrocortisone Infusion



Confirm presentation of Hydrocortisone
100 mg / vial reconstitute with 2 ml of water for injection.

Hydrocortisone Infusion



Assemble equipment required to prepare a Hydrocortisone Infusion
100 ml NS, 20 gtts giving set, Sharps container, Label, 2 x 100mg vials of hydrocortisone, 1 x 10 ml Water for injection, 5 ml syringe, 2 blunt fill filter needles

Hydrocortisone Infusion

$$\text{Volume required (ml)} = \frac{\text{Dose required (mg)}}{\text{Dose in Ampoule (mg)}} \times \text{Volume in Ampoule (ml)}$$

$$= \frac{200 \text{ mg}}{100 \text{ mg}} \times 2 \text{ ml}$$

$$= 4 \text{ ml} \quad (2 \text{ vials required})$$

Calculate volume required for adult dosage of 200mg.

Hydrocortisone Infusion



Connect a blunt fill filter needle to a 5ml syringe and withdraw 4 ml of water for injection.

Hydrocortisone Infusion



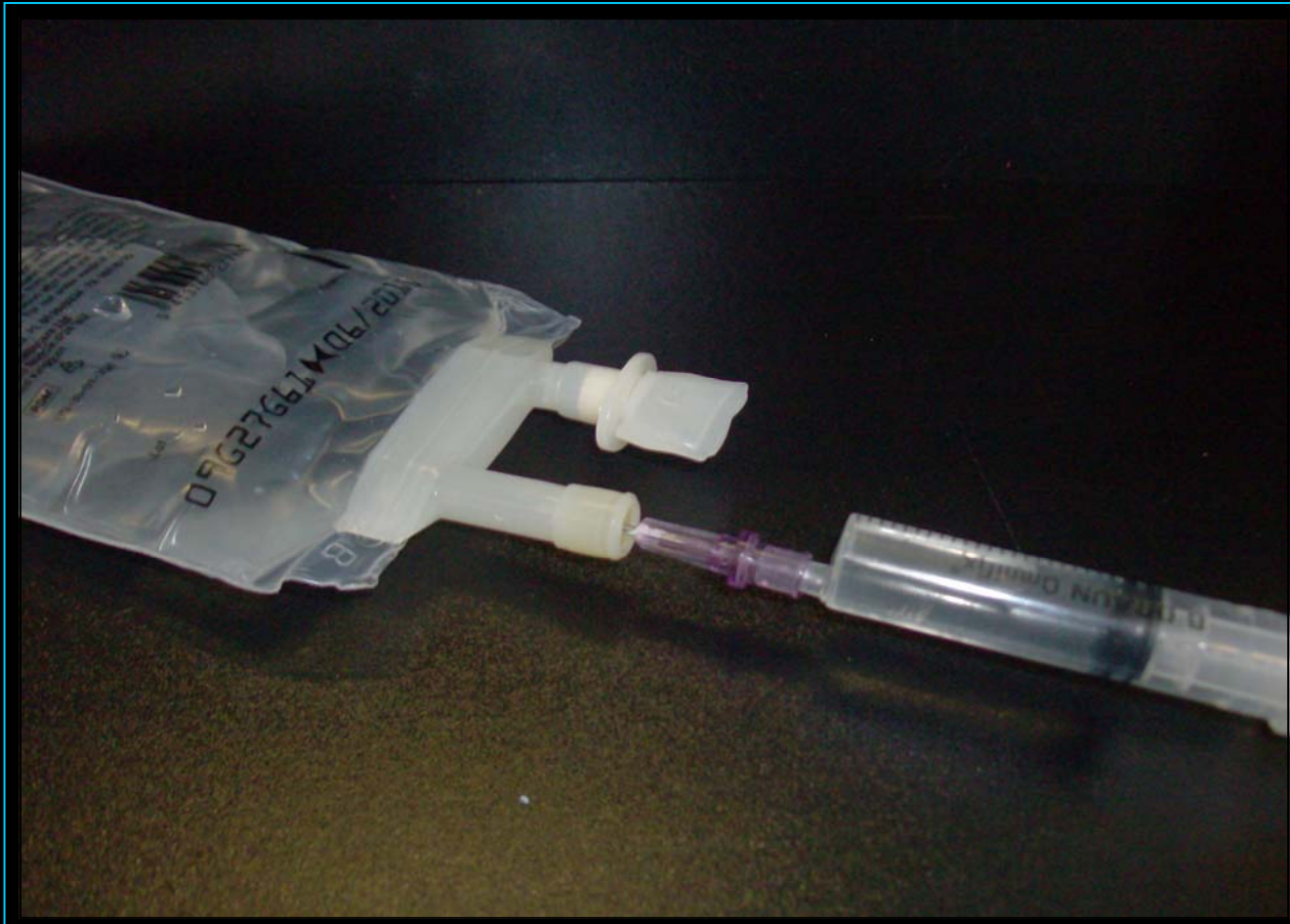
Remove cap from vial and insert blunt fill filter needle through centre of rubber bung.
Add 2 ml of water for injection to the vial, remove the needle and gently rotate the vial to avoid frothing up the medication, leave for 1 minute. Repeat procedure for 2nd vial.

Hydrocortisone Infusion



Using the same blunt fill needle draw up 2 ml from each vial.
Remove blunt fill filter needle from the syringe and dispose of it in a sharps bin.
Replace with a new blunt fill filter needle.
(This will ensure that no particles are transferred to the infusion bag.)

Hydrocortisone Infusion



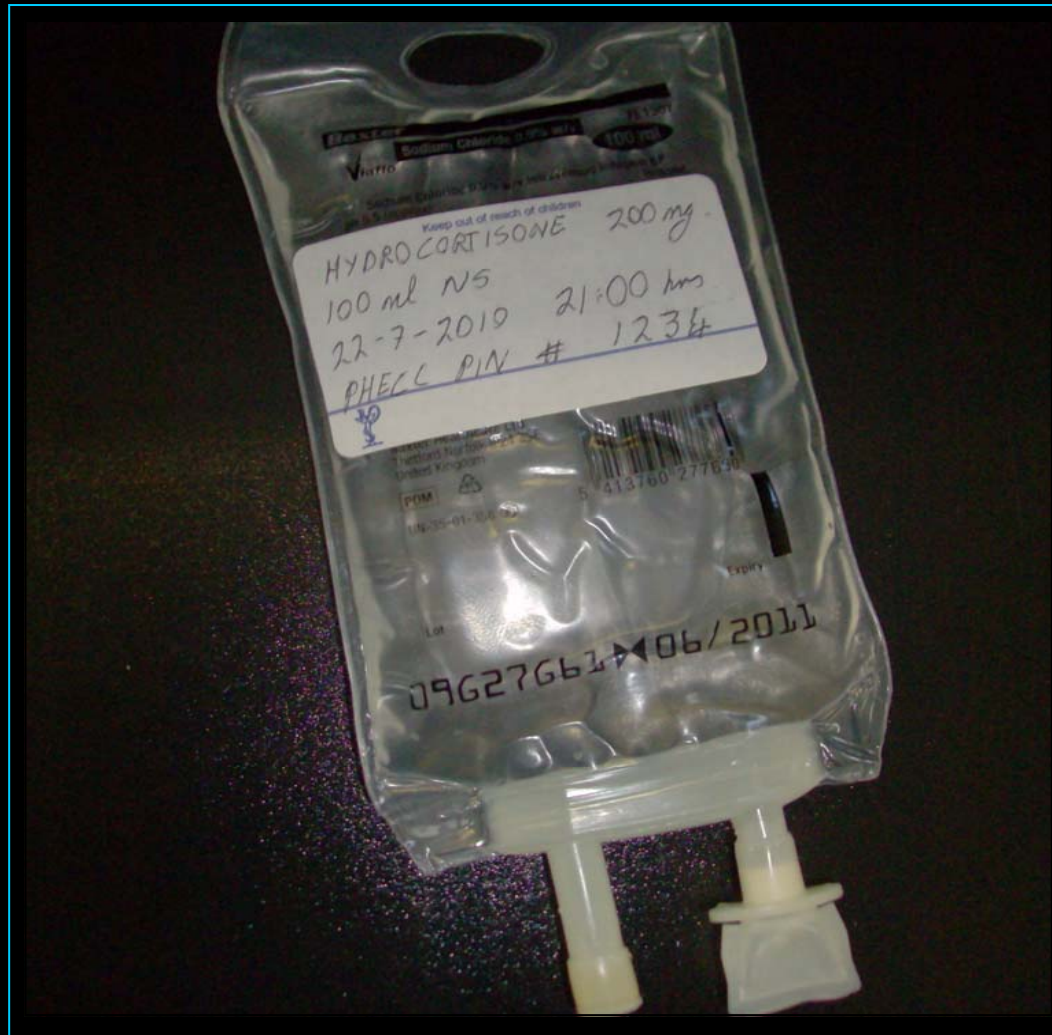
Discard excess medication from syringe if preparing a paediatric infusion.
For paediatrics under 6yo, 50 ml of normal saline may be used to mix infusion.
Insert blunt fill filter needle into the injection port of the 100ml normal saline infusion bag and inject the required volume.

Hydrocortisone Infusion



Dispose of needle and syringe into sharps bin.

Hydrocortisone Infusion



Invert bag 3 to 4 times and label Infusion with drug name, drug dosage, volume of NS, date, time and your PHECC pin #.

Hydrocortisone Infusion



Check drip set (20 gtt/ml), close roller clamp,
1/2 fill drip chamber, flush line without wasting medication.

Hydrocortisone Infusion



Hydrocortisone infusions are given over 1 - 10 minutes, so opening up the giving set to a rate greater than 200 gtts / min or 20 gtts / 6 seconds is appropriate.

Hydrocortisone Infusion



Connect hydrocortisone infusion set. Set drip rate.

Hydrocortisone Infusion

MEDICAL TREATMENT INFORMATION			
TIME (24H)		MEDICATION TREATMENT	
12	30	Hydrocortisone infusion @ > 20 gtts / 5 seconds	
DOSE	ROUTE	CODE (SELECT)	PN
200mg	IV	HC	1234

Record hydrocortisone infusion administration on PCR. Monitor the patient.

Hydrocortisone Infusion

1. Assemble equipment needed.
2. Perform 7R's of drug administration.
3. Confirm presentation of hydrocortisone. (100mg / 2ml)
4. Calculate volume required for adult dosage of 200mg. 2 vials required.
5. Connect a blunt fill filter needle to a 5ml syringe, withdraw 4 ml of water for injection.
6. Remove cap from 1st vial and insert blunt fill filter needle through centre of rubber bung. Add 2 ml of water for injection to the vial, remove the needle and gently rotate the vial to avoid frothing up the medication, leave for 1 minute. Repeat procedure for 2nd vial.
7. Using the same blunt fill needle draw up 2 ml from each vial. Remove blunt fill filter needle from the syringe and dispose of it in a sharps bin. Replace with a new blunt fill filter needle. (This will ensure that no particles are transferred to the infusion bag.)
8. Discard excess medication from syringe if preparing a paediatric infusion. For paediatrics under 6yo, 50 ml of normal saline may be used to mix infusion.
9. Insert blunt fill filter needle into the injection port of the 100ml normal saline infusion bag and inject the required volume. Dispose of needle and syringe into sharps bin. Invert bag 3/4 times.
10. Label Infusion with - Drug name, dosage, volume of NS, date, time and your PHECC pin #.
11. Check drip set (20 gtts/ml), close roller clamp, 1/2 fill drip chamber, flush line without wasting medication.
12. Hydrocortisone infusions are given over 1 - 10 minutes so opening up the giving set to a rate greater than 200 gtts / min or 20 gtts / 6 seconds is appropriate.
13. Connect and administer the hydrocortisone, set drip rate.
14. Record hydrocortisone infusion administration on PCR.
15. Monitor the patient.