

Soluble Insulin (Actrapid®) 8 units and Glucose 20g in 100ml IV infusion for the management of acute hyperkalaemia in adults

- This guide is to be used in conjunction with the **hyperkalaemia management guideline** on Microguide.
- Give **10% Calcium gluconate** if prescribed, before the Insulin/Glucose infusion.
- The whole process should have a **two person check**.
- Ensure **blood glucose monitoring** is undertaken every 30 minutes.

1. You will need:

- **One** vial of **glucose 20g in 100ml** solution for infusion
- An **insulin syringe**
- **Actrapid** insulin vial
- **50ml Sodium chloride 0.9%** infusion bag for flushing



2. Draw up **8 units** of Actrapid into the insulin syringe.

3. Inject the **Actrapid** insulin into the glucose vial using one of the three **outer marked addition ports of the rubber bung** and mix well by rotating the vial gently. **Check** the solution for cloudiness or solid precipitates.

4. Attach a drug additive **label** onto the vial.



DRUGS ADDED TO THIS INFUSION			
PATIENT	PATIENT A	WARD	RAOSTOCK
DRUG	8 UNITS ACTRAPID in 20% w/v	AMOUNT	100ml
	GLUCOSE	BATCH No.	639070
DILUENT			KT6V062
DATE PREP'D	28/08/20	EXP. DATE	28/08/20
TIME PREP'D	16:00	EXP. TIME	17:00
		ROUTE	IV
DISCONTINUE IF CLOUDINESS OR PRECIPITATE DEVELOPS			

5. Spike the **central addition port** of the vial's rubber bung with the **volumetric pump giving set**

6. Hang the vial on a drip stand, **prime the line** and **open the venting port** on the giving set



7. Set the volumetric pump to give **80ml** over **30 minutes**. (24mls used to prime the line)

8. Once the glucose/insulin infusion has finished, **flush the line** by hanging a bag of **50ml sodium chloride 0.9%** and infuse over **10 minutes** to ensure the full dose of insulin/glucose is administered to the patient.

Blood Glucose Monitoring: Take measurements before and after starting the infusion. Then measure BM every 30 minutes for the first 2 hours and then every hour for a further 4 hours. Record the results on the diabetes monitoring chart. If pre-treatment BM is <7mmol/L, an infusion of 10% glucose at a rate of 50ml/hr should be given for 5 hours after the insulin-glucose infusion has finished. If at any time BM is <4mmol/L treat as per trust hypoglycaemia guidelines.