

How to make up **10 units** of Actrapid® (soluble) insulin in 50ml glucose 50% vial using the hyperkalaemia kit

Protect the cardiac membrane: give 10ml of calcium gluconate 10% IV over 2 mins (NB if patient on digoxin, and calcium gluconate required, give slowly over 20 mins in 100ml of glucose 5%).

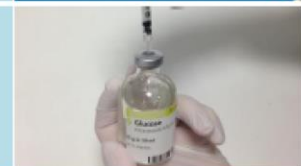
1. With the nurse in charge, obtain an Actrapid® vial from the pharmaceutical fridge.
2. Take the glucose 50% glass vial from the kit. Remove its protective cap.



3. Measure **10 units** of insulin using an insulin syringe from the kit:
 - a. Draw the plunger back to the **10 unit** mark on the insulin syringe. Check the **10 units** of insulin obtained with the senior nurse on duty.
 - b. Note **10 units** of insulin is contained in 0.1ml
 - c. Record administration of this and other medicines used to treat hyperkalaemia on the Kardex. Ensure both signatures for double check are documented on the Kardex.



4. Inject the **10 units** of insulin into the glucose 50% glass vial.
5. Mix.



6. Take Chemoprotect® Spike from kit and remove protective sheath.



7. Pierce the glucose 50% glass vial with the Chemoprotect® Spike.



8. Screw the 50ml syringe onto Chemoprotect® Spike and draw up the contents of the vial.
9. Remove the 50ml syringe from Chemoprotect® Spike and expel air
10. Administer into a large vein by slow IV injection over 5 mins.



Monitor and document blood glucose 30 mins after administration of insulin/glucose and then hourly up to 6 hours after completion of administration.

Monitor U&Es 30 mins after each administration of insulin/glucose. If good response, check U&Es 1-2 hours after last intervention