

St George Hospital Renal Department – Internal Only

USE OF DIA-STOP

SUMMARY:

- Dia-Stop is a single use device designed to create haemostasis in the haemodialysis puncture sites.

EQUIPMENT:

1. Dia-stop plastic pressure armlet – for one patient use only
2. Dia-stop cushion (single use)

PROCEDURE:

1. Remove Dia-stop cushion from sterile pouch and attach it to the velcro attachment on the Dia-stop plastic armlet and put aside ready for use
2. Prepare the cannula to be removed by holding the needle in place and gently removing all tapes – it may be necessary to gently loosen the wings away from the skin as well
3. Slightly withdraw the needle and place the Dia-stop armlet around the arm so that the Dia-stop pressure cushion is directly over the needle puncture site – the two sides of the armlet need to be kept straight – you may need to place a pillow under the patient's arm so there is room for the armlet to remain straight
4. Join the ends of the plastic armlet by sliding the multi-step locking system together still making sure that the pressure cushion is directly over the puncture site
5. Apply pressure gradually by adjusting the multi-step locking system until the armlet is holding the pressure cushion in place while still allowing the needle to be removed
6. Withdraw the needle completely, apply a little more pressure using the armlet locking system and observe the absorbent white foam of the pressure cushion for any blood leakage
7. If blood begins to soak into the foam cushion and/or blood is starting to spread onto the patient's skin, adjust the armlet by tightening the multi-step locking system a little more
8. Compression of the dark section of the cushion to less than half its original thickness indicates a suitable level of pressure
9. Allow a minimum of 10 to 15 minutes for haemostasis, then check to see if this has occurred successfully – release the multi-step locking system and remove the pressure cushion carefully from the site
10. If haemostasis has occurred, apply sterile gauze to the puncture site and use tape to secure the gauze in place - gauzes should be removed after 4 hours
11. Detach the single use cushion from the plastic armlet and dispose in contaminated waste
12. Clean the plastic armlet with viraclean after each use and place it in the patient's folder ready for re-use – this armlet can be used for up to 15 times

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CONSIDERATIONS:

1. May not work for all patients if the fistula is located in an awkward position
2. May not be appropriate for patients who have skin which freely moves across their fistula

REFERENCE:

Control Medics Pty Ltd. (2006). Retrieved March 2012 from <http://www.controlmedics.com.au>