Bwrdd Iechyd Prifysgol Caerdydd a'r Fro
Cardiff and Vale University Health Board

APOMORPHINE ADMINISTERING PROCEDURE VIA SUB-CUTANEOUS INFUSION DEVICE TO IN-PATIENTS WITH PARKINSON'S DISEASE

Reference No:	UHB 184	**Version No:**	1	**Previous Trust / LHB Ref No:**	T/276

Documents to read alongside this Procedure	N/A

Classification of document:	Corporate
Area for Circulation:	In-patient clinical areas
Author/Reviewee:	Parkinson's Disease Specialist Nurse / Medical Equipment Training Officer
Executive Lead:	Medical Director
Group Consulted Via/ Committee:	Medicines Management Group
Approved by:	Medicines Management Group
Date of Approval:	25 February 2013
Date of Review:	25 February 2015
Date Published:	26 April 2013

Version Number	Date of Review Approved	Date Published	Summary of Amendments
1	25/02/2013	26/04/2013	Document updated. Supersedes previous Trust procedure reference no 276

PROCEDURE ADMINISTERING APOMORPHINE VIA SUB-CUTANEOUS INFUSION DEVICE TO IN-PATIENTS WITH PARKINSON'S DISEASE

- Patients who are receiving Apomorphine therapy will normally use a specific ambulatory device, the APO-GO pump, which is set up by their carers; however staff in the acute hospital setting are not trained to use this device so an alternative, the McKinley T34, is to be used.
- Please see overleaf for the full procedure/checklist involved in setting up a McKinley T34 syringe driver to administer Apomorphine in an acute hospital setting.
- Do not alter this procedure unless advised to do so by the Parkinson's disease Nurse or Doctor.
- Apomorphine stains green – these stains are resistant to most cleaning methods, be careful during set up and disposal of syringes.
- To reduce skin irritation it is important to alternate the site of injection daily. Three sites are used – the anterior abdominal wall and the anterior aspect of each thigh.

If you have any queries or experience any problems regarding the guidance in this document, please contact:-

The Parkinson's Disease Nurse Specialist can be contacted on Rookwood Ext. 33838

Clinical Engineering Help Desk (UHW Ext. 45678) for information on the T34 Syringe Driver.

Pharmacy (UHW Ext. 42988; Llandough Ext. 25261) for information on Apomorphine.

Cardiff and Vale University Health Board

CHECKLIST FOR SETTING UP A McKINLEY T34 SYRINGE DRIVER FOR APOMORPHINE

Place tick in box

1. Apomorphine is available from pharmacy in pre-filled 10ml syringes (5mg/ml). ☐
2. Obtain a McKinley T34 and disposables pack from the Medical Equipment Loan Service. ☐
3. Calculate the correct volume of Apomorphine for the patient's prescription:
   (The usual dosage is between 4-7mg/hr)
   For example.
   4.5mg/hr over 15 hours.
   4.5 x 15 = 67.5mg = 13.5ml
   Therefore draw up 14.5ml to compensate for priming the line. ☐
4. Calculate the rate required (in this case after priming):
   $$rate = \frac{volume\ (ml)\ remaining\ in\ syringe}{time\ in\ hours}$$ ☐

Draw up the required dose of Apomorphine, from the pre-filled syringes:

5. -Take the Apo-go connecter that is provided with the pre-filled syringe from Pharmacy and detach one of the caps. Screw open end onto the luer lock syringe.
   -Detach the second connecter cap. Remove the grey rubber cap from the Pre-Filled Syringe and attach to the connecter.
   -Holding the syringes vertically, push down on the plunger of the pre-filled syringe to transfer the required volume of Apomorphine. ☐
6. Prepare a label and attach to the syringe. ☐
7. Examine T34 to ensure it is serviceable. ☐
8. Insert battery – switch on T34. ☐
9. Wait for self check to complete:
   Display lights up
   Alarm sounds
   Drive mechanism moves to last position
   Configured data is displayed ☐
10. Connect the butterfly set to syringe and prime the line ☐
11. Position the drive mechanism on the T34 to fit syringe length using the ◄◄ and the ►► keys. ☐
12. Fit the syringe and confirm the type and size. ☐
13. Insert the butterfly device subcutaneously and secure with a transparent dressing. ☐
14. Confirm the volume measured by the T34 (this should be the volume to be infused) ☐
15. Enter the calculated rate in ml/hr using the ▲ and ▼ keys. ☐
16. Confirm the rate entered. ☐
17. The display will show the current infusion data:
    Volume xx.xml
    Duration xx:xx
    Rate x.xxml/hr ☐
18. If correct confirm the settings. ☐
19. Start the infusion & lock the keypad [*i*]. ☐
20. Place the syringe driver <u>correctly</u> into its box and lock. ☐
21. Place the syringe driver out of direct sunlight at approximately the same height as the infusion site.
    Document date, time and volume left in syringe. ☐
22. Check syringe driver after 10 minutes to:
    - ensure that the volume is decreasing appropriately
    - the site is not inflamed
    - that the battery capacity is greater than 30% ☐