

Introducing the McKinley T34 Syringe Pump into the Isle of Man



Background:

A syringe driver is a safe, well established and cost effective way of delivering a continuous subcutaneous infusion (CSCI) in palliative care. Palliative care patients often present with multiple symptoms that can necessitate the need to use several drug treatments. When patients can no longer take oral medications a CSCI is a simple and effective way to control symptoms.

The Isle of Man (IOM) has been using the Graseby MS16a syringe driver for delivering subcutaneous medication. This driver now fails to meet a few fundamental safety requirements delineated by the International Electrotechnical Commission (IEC) 60601-2-24. In line Medicines and Healthcare products Regulatory (MHRA) requirements for infusion devices the IOM will change to the McKinley T34 syringe pump from October 2010.

The McKinley T34 pump is a portable battery operated infusion pump. It has improved safety features, and meets British and European guidelines. The McKinley T34 model is calibrated in millilitres per hour and all T34 pumps for palliative care are set up to deliver the syringe content by continuous subcutaneous infusion over a 24 hour period only. The McKinley T34 is safe, simple and reliable, hence reducing the risk of clinical error.

Advantages of the T34 syringe pump compared with MS16A

- Complies with the with all the safety features that the (MHRA) recommends and IEC 60601-2-24 propose as essential.
- The infusion rate cannot be altered once the device is infusing.
- The user does not perform any calculations thereby significantly reducing the risk of programming errors.
- The device will not work unless the syringe is attached securely.
- Syringe recognition.
- 3 point contact recognition.
- LCD and instructions.
- Superior range of alarms.
- The infusion rate is determined automatically.
- Log event memory maintained.
- Patient safety (rigid lock box, with key).

Disadvantages of the T34 compared with the MS16A

- . Weight
- . Size
- . Battery life

Clinical training:

16th -18th August 2010

Undertaken by CME McKinley Clinical Support Staff

Competence – based key trainer workshops - 2 hours

Key trainers appointed from Hospice IOM, each ward in Nobles Hospital & Ramsey Cottage Hospital and 2 district nurses. This provides specialist training on the full range of features and functions available on the device. It includes competence – based self assessment in the safe use of the device

Competence –based device training workshop -1 hour

This training included all the elements required for a user to use the device safely.



McKinley T34 syringe pump

Safety / Risk Management

All staff who are using the new McKinley T34 pump **MUST** have undertaken training before they use this pump as part of their patient care.

All staff using a syringe pump must be personally competent and accountable in the use and operation of such devices.

Syringe pumps may be used infrequently and competency can be difficult to maintain. The provision of a local policy and guidance on the use of the T34 McKinley syringe pump builds on this process to enable dissemination of consistent advice and best practice

All syringe pumps must be serviced yearly by the EBMA department

All incidents should be reported to the appropriate person within the organisation following their own protocol.

References:

McKinley Medical UK Ltd. Ambulatory Syringe Pump Instruction manual McKinley T34, June 2005

NHS Greater Glasgow & Clyde. McKinley T34 Syringe Pump Guidelines for Use in Adult Palliative Care Patients. January 2009

Open to all staff

Monday 16th August	6.00pm -7.00pm 7.00pm -8.00pm	Open to all staff
Tuesday 17th August	9.30am- 10.30am 11.00am -12.00	Open to all staff
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Wednesday 18th August	9.30am- 10.30am 11.00am -12.00	Open to all staff

Train the Trainer

Date	Time	Staff
Monday 16th August	2.00pm - 4.30pm	Hospice – DN Train the Trainer
Tuesday 17th August	1.30pm – 3.30pm	Nobles/ Ramsey Staff Train the Trainers

Training documents

- 2x pocket guides / pump
- 1x wall guide per area
- Option to access McKinley on-line interactive learning and training resources
- 1x learning portfolio per trainee.