Royal Devon & Exeter NHS Hospital

Helping patients stay at home

Introduction

Best practice guidelines recommend that peripherally inserted central line catheters (PICCs)/Midlines should be placed using ultrasound in the upper arm. Once placed in this position, it is difficult for patients to self-medicate and continued treatment would need to take place in hospital. The development of Bionector TKO® Self-Administration Set means that patients are now able to self-administer in the comfort of their own home therefore, eliminating hospital stay, reducing the need for community nursing, as well as improving the overall patient experience.

To minimise catheter occlusions, the hospital uses Vygon's Bionector TKO®; a needle-free device with a valve to stop catheter tip reflux. The need for patient self-administration was identified and Vygon UK were approached to work with the Trust to develop a prototype that would meet this need.

Results

The Bionector TKO SAS with integrated 27cm extension line means more patients can be discharged home and treatment can be followed-up in clinic. Patient feedback of the new extension line has been overwhelmingly positive, allowing them the opportunity to get on with normal life. The financial benefits for the hospital are considerable. The new treatment regime saves clinician time to administer the therapies as well as the cost of a hospital bed.

Department of Health stated NHS hospital stay in 2017 **£400⁽¹⁾ PER DAY**

Endocarditis / Osteomyelitis treatment is 6 weeks long (IVAB) x £400 per day

The cost per patient for therapy duration £16,800

Annually, how many bed days were saved from patients receiving IVAB at home?

**613 DAYS SAVED
OR £245,200**

Data taken between August 2016 to August 2017

Discussion & Conclusion

As a result the Bionector TKO SAS is available UK wide so patients may benefit from the innovative design, developed to reduce costs, increase efficiencies and ultimately improve patient care. This can be demonstrated by 614 hospital bed days being released while patients self-administered their treatment at home. The home delivery system also means that patients have consumables and medications delivered at home further simplifying treatment and management.

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