Evaluation of the use of the FAS Endoluminal brush and 20% ethanol flushes to unblock central venous catheters used for long term Parenteral Nutrition

Winnie Magambo
CNS Nutrition
Cardiff and Vale uLHB
Wales HPN Group
AIM

The aim was to reduce the number of line replacements due to line occlusions from lipid deposits in CVC’s used for long term PN.
METHOD

• A retrospective audit was done on all the patients receiving long term PN over the preceding 4 years.

• All long term CVC’s used for PN which are reported as being occluded had an FAS Endoluminal brushing and 20% ethanol flush as first line treatment.

• Procedure was performed by a nutrition nurse.
RESULTS

**Outcomes**

- no. patient episode
- no. of patients
- no. of endo-brushing
- no. of cleared occlusions
- no.of failed endo-brushes
- part. Cleared

**Life Span of CVC**

- no. of patients
- no. of years
- 2005-2006
- 2006-2007
- 2007-2008
- 2008-2009

- <1yr
- 1-3yrs
- 3-5yrs
- >5yrs

- 0 5 10 15 20
- 25 30
OUTCOMES

• Reduction in CVC replacements due to lipid deposits
• weekly 20% ethanol flushes implemented for PN CVC patency maintenance
• Improved patient experience and vascular access preservation
• Other contributing factors
• Number of lipid bag infusions reduced.
Dioch/Thank you
REFERENCES


• Hardy G. Ball P Clogbusting: time for a concerted approach to catheter occlusions? *Current Opinion in Clinical Nutrition and Metabolic Care* 2005, 8:277-283


• Tranter S. Donoghue J. Brushing has made a sweeping change: use of the endoluminal FAS brush in haemodialysis central venous catheter management. *Aust Crit Care* 2000;13(1):10-13