

Using SecurAcath on ICU

Dr Matt Jones

Consultant Anaesthetist

Clinical Lead for Vascular Access

UK NIVAS Board Member

One of 2 Main sites - 15 ICU Beds



East Kent
Hospitals University
NHS Foundation Trust



History

- Securacath used for PICC lines by IV access team
- What about use on CICC (CVCs) on ICU?
- Looked at evidence around sutureless fixation
- Looked at our current practice

Evidence



Guidelines for the Prevention of Intravascular Catheter-Related Infections, 2011

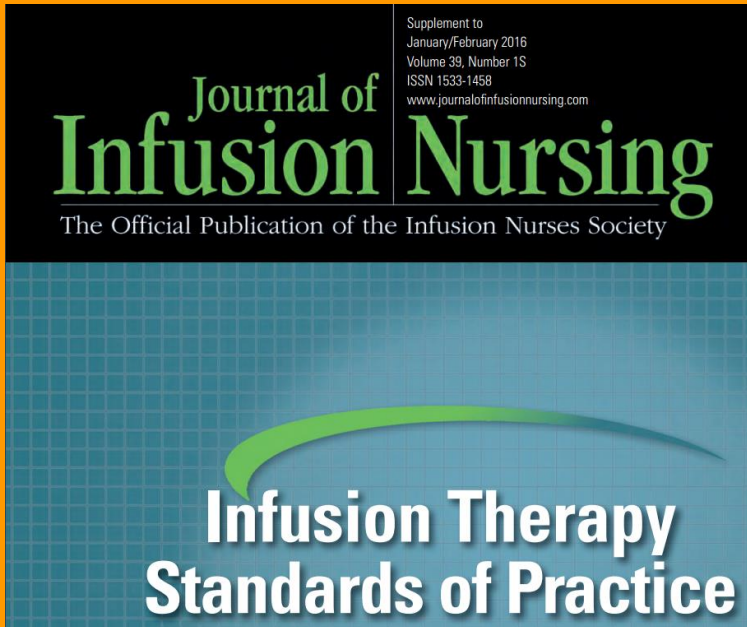
Catheter Securement Devices

Sutureless securement devices can be advantageous over suture in preventing catheter-related BSIs.

Catheter Securement Devices

Use a sutureless securement device to reduce the risk of infection for intravascular catheters [105]. Category II

Evidence INS 2016



Consider use of an engineered stabilization device (ESD) to stabilize and secure VADs as inadequate stabilization and securement can cause unintentional dislodgment and complications requiring premature VAD removal.

B. Avoid use of tape or sutures, as they are not effective alternatives to an ESD. Rolls of nonsterile tape can become contaminated with pathogenic bacteria, although its contribution to VAD infection has not been quantified. Sutures are associated with needlestick injury, in addition to supporting the growth of biofilm and increasing the risk of catheter-related bloodstream infection. 7-10 (II, Regulatory)

Current Practice 2014/5

- Looked at securement options
- Looked at dressing options
- Undertook local trials of many products and examined published evidence
- Concluded that best combination was:
 - Securacath -SECUREMENT
 - Biopatch -INFECTION PREVENTION
 - Grip-Lok CVC -CONVENIENCE
 - Tegaderm Advanced CVC Dressing

Current Practice 2014/5

- Undertook Audit of CVCs
- Snapshot on Monday every week
- 6 months in Total
- Looking at Securement and Dressing
(Often inter-related)

Audit Collection

Date:			Bed No.			Hosp. No:		
SECUREMENT					BIOPATCH		DRESSING	
Securacath / Suture (circle)			Griplok			Present Y / N Score 1 / 0	Correct Position Y / N Score 1 / 0	
Present Y / N Score 1 / 0	Present Y / N Score 1 / 0		Correct Position Y / N Score 1 / 0		Type Tegaderm: Y / N Score 1 / 0			
Correct Y / N Score 1 / 0	Correct Y / N Score 1 / 0		Correct Size Y / N Score 1 / 0		Sealed: Y / N Score 1 / 0			
Tip Position on CXR: cms above carina.....cms cms below carina.....cms					TOTAL SCORE / 11		Soiled: Y / N Score 0 / 1	







HOLD

8F

SecurAcath®

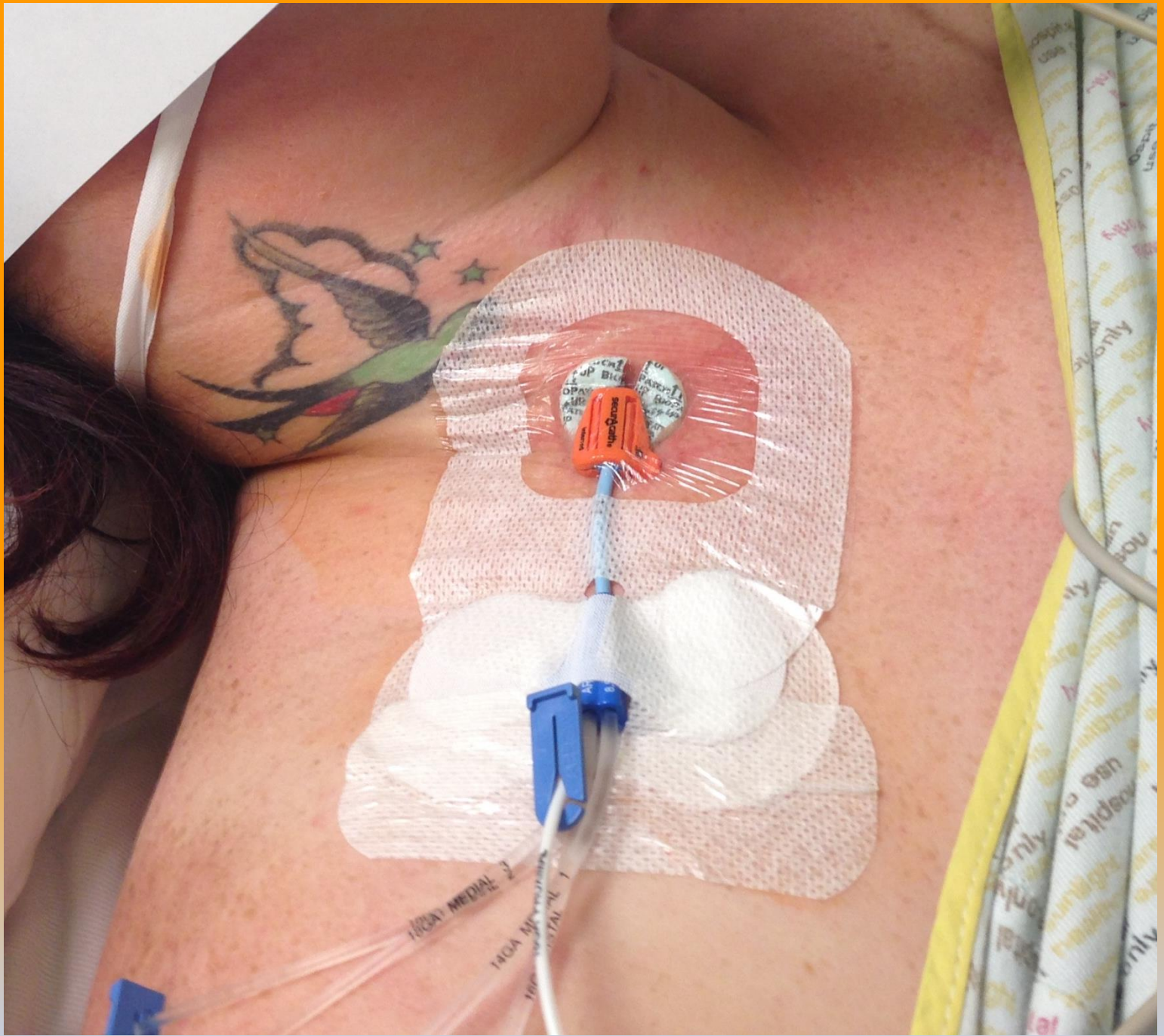
LIFT

BIOPATCH
UP
BIOPATCH
UP
BIOPATCH
UP
BIOPATCH
UP
BIOPATCH
UP
BIOPATCH
UP







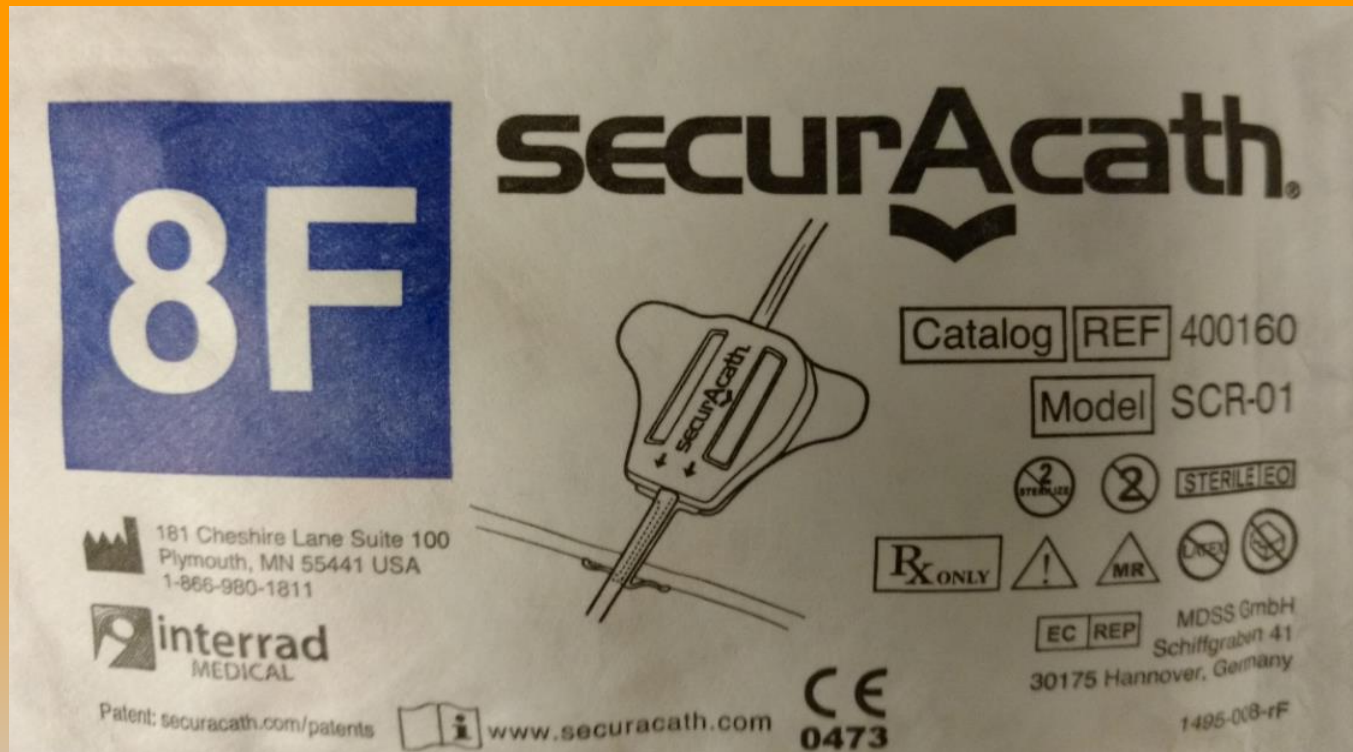


Introduction of Securacath


- Challenging. “Old habits die hard”
- Removed sutures from packs
- Lots of complaints/failures initially
- Lots of training, posters and practice essential
- Regular auditing
- Gradual acceptance
- Now routine, no complaints

Introduction of Securacath

- Use an 8Fr Securacath for an 8.5Fr Catheter




Introduction of Securacath

- Use an 8Fr Securacath for an 8.5Fr Catheter
- May need a longer CVC as need space on outside for securacath (16cm  20cm)
- Expand hole using introducer/dilator

Expand Hole



Introduction of Securacath

- Use an 8Fr Securacath for an 8.5Fr Catheter
- May need longer CVCs as need space on outside for securacath (16cm  20cm)
- Expand hole using introducer/dilator
- Make sure securacath is deep enough
- Insert in direction of catheter positioning
- Make sure both sides are clicked down properly

Benefits

- Less dislodgement
- Easier cleaning (360°)
- Less bleeding and “mess” (no suture holes)
- No needle disposal/injury
- Patient comfort (especially when awake)

Comfort (movement and beard)



Benefits

- Less dislodgement
- Easier cleaning (360°)
- Less bleeding and “mess” (no suture holes)
- No needle disposal/injury
- Patient comfort (especially when awake)
- ?Less line infections and CRBSI
- Now very high staff and patient satisfaction

NICE

National Institute for
Health and Care Excellence

[Home](#) > [NICE Guidance](#) > [Service delivery, organisation and staffing](#) > [Surgical care](#)

SecurAcath for securing percutaneous catheters

Medical technologies guidance [MTG34] Published date: June 2017 [Register as a stakeholder](#)

Questions?

Dr Matt Jones

Consultant Anaesthetist

Clinical Lead for Vascular Access

mattjones1@nhs.net

