

Vascular Access Devices Policy & Procedures 03 November 2021

Document Profile

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Туре	Policy & Procedures
Title	Vascular Access Devices Policy & Procedures
Author	Mo de Gruchy, adapted from original policies created by Carol Rowley-Blackwell FNHC
Category	Clinical
Description	A policy and procedures covering the use and ongoing care of Vascular Access Devices
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Approved by	Rosemarie Finley
Date approved	8 December 2021
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Version control / changes made

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Date	Version	Summary of changes made	Author
September 2021	1	This policy combines and replaces previous separate policies for Cannulation and Midline Vascular Access Devices Mo de Gruchy	
		Content of previous policies reviewed and revised	
		Reference list revised and updated	
November 2021	1.1	References to Royal Marsden procedures removed and references to ANTT® procedures inserted	Mo de Gruchy

CONTENTS

1. INTRODUCTION

1.1 Rationale

A Vascular Access Device (VAD) is a device that is inserted into either a vein or an artery, via the peripheral or central vessels, to provide for either diagnostic (blood sampling or central venous pressure reading) or therapeutic (administration of medications, fluids and/or blood products) purposes.

Types of VAD include (also see Glossary):

- o Peripheral cannula
- o Midline catheter
- Peripherally Inserted Central Catheter (PICC)
- Skin-tunnelled catheter

Historically, the insertion practice and ongoing care of VADs has varied significantly, dependent upon the specialty and experience of the practitioner involved in the care.

Variation in the standard of care constitutes a clinical risk and increases the chance of patients suffering complications related to VAD insertion and ongoing care, such as Healthcare Associated Infections (HAIs).

The purpose of this policy is to inform all relevant practitioners of their role and responsibilities to support the standardisation of safe practice relating to insertion and ongoing care of VADs and thereby reduce the incidence of VAD-related infections.

1.2 Scope

This policy applies to all staff involved in the insertion and ongoing care and maintenance of VADs in adult patients. This includes Registered Nurses who have the support of FNHC and their respective managers in the undertaking of this practice. It identifies both the insertion procedures for VADs and the ongoing care management principles that must be adhered to within FNHC.

1.3 Role and Responsibilities

Chief Executive Officer (CEO)

The CEO is responsible for ensuring that:

- ✓ systems are in place to manage risk associated with insertion and care of VADs
- ✓ resources are made available to support good practice in the above

Operational Leads

Operational Leads are responsible for:

- ✓ implementing this policy and associated procedures within their areas
- ✓ monitoring compliance with the requirements of this policy

Team Leads

Team Leads are responsible for ensuring that staff:

- ✓ are suitably trained to carry out the procedures
- ✓ maintain their work competencies to undertake the insertion and care of VADs as appropriate to their role
- √ have ready access to the relevant policy, procedures and documentation to support the above, as appropriate to their role

Individual Staff

It is the duty of all those who insert and manage VADs to understand the risks associated with such devices and be responsible for updating their knowledge and maintaining the highest standard of practice.

2. POLICY

2.1 Training

Practitioners undertaking the insertion and care of VADs must have received theoretical and practical training covering device-specific insertion, formal education in the principles of device management and have been deemed competent in these skills (RCN 2016).

Where these procedures are an expected part of their role, FNHC staff should access the <u>HCS Venous Blood Sampling and Intravenous Cannulation Workbook</u>, attend a mandatory study day and be assessed as competent in practice. These resources can be used by staff new to these skills and those needing an update.

2.2 Infection Prevention and Control

Adherence to best practice in infection prevention and control will underpin clinical practice to reduce the risk of Healthcare Associated Infections (HAIs).

The insertion of a VAD is regarded as a minor surgical procedure and therefore the utmost care and adherence to strict infection prevention and control procedures is paramount. The principles of ANTT® aseptic technique should be adhered to, as per the ANTT Peripheral Cannulation procedure guidelines in the FNHC ANTT Policy (currently under review).

Thorough hand decontamination is the single most effective method in reducing HAIs and must be practiced prior to the insertion or manipulation of a VAD.

Prior to insertion of VADs the intended site should be decontaminated with an appropriate antimicrobial solution i.e. 2% chlorhexidine in 70% isopropyl alcohol (Chloraprep).

3. PROCEDURE

3.1 Peripheral VADs (cannulas)

3.1.1 Insertion, Care and Maintenance

Adherence to the <u>ANTT Peripheral Cannulation</u> guidelines will be adopted by all practitioners undertaking the procedure of peripheral cannula insertion, adapting as practically required depending on location e.g. a patient's own home.

Indwelling cannulas should be checked and condition documented on a daily basis (see 3.1.2). If there are no signs of phlebitis and the line is patent they can remain in place as long as clinically in use.

Cannulas should be removed/replaced every 72 hours. If a practitioner is unsure as to whether a cannula should be removed, they should discuss with their Team Lead.

3.1.2 Documentation

A PVAD Care Bundle (appendix 1) should be used for any patient with a cannula is likely to be in situ for more than 24 hours. Where a care bundle is not required the documentation of the insertion and removal of the patient's cannula must be recorded in the patient's nursing notes.

Should a patient subsequently require admission as an in-patient, a Care Bundle should be completed retrospectively.

If a patient is discharged from hospital or any other in-patient setting with a cannula in situ then the Care Bundle should follow the patient and be kept in the patient's record.

If however there is no Care Bundle in place, the information should be obtained from the referrer and entered onto part 1 of the FNHC care bundle document indicating that this insertion was undertaken by a different care provider. Part 2 should then commence on the appropriate post-insertion day with a single line scored through the days when care was not provided by FNHC.

The following stages should be followed when utilising the Care Bundle:

Part 1 of the care bundle must be fully completed following the insertion of the PVAD:

- affix a patient label to the care bundle or complete the patient's demographic details
- complete the clinical area details and practitioner identifier details
- complete Part 1 and sign each metric

Part 2 must be completed on a daily basis whilst the cannula is in place

Part 3 must be completed on PVAD removal

File the completed PVAD care bundle in the patient's nursing notes.

3.2 Midline catheters

3.2.1 Insertion, Care and Maintenance

Adherence to the <u>ANTT Peripheral Cannulation</u> guidelines will be adopted by all practitioners undertaking the procedure of midline catheter insertion, adapting as practically required depending on location e.g. a patient's own home.

3.2.2 Documentation

All aspects of care from insertion and daily/weekly care to removal should be documented using the Midline VAD Care Bundle (appendix 2).

If a patient is discharged from hospital or any other in-patient setting with a mid-line catheter in situ, the care bundle, if used within that setting, should follow the patient and be kept in the patient's nursing records. The mid-line catheter should be labelled with details of the line type, expiry date, who inserted it and who to contact in the event of any issues.

If however there is no care bundle in place, the information should be obtained from the referrer and entered onto part 1 of the FNHC care bundle document indicating that this insertion was undertaken by a different care provider. Part 2 should then commence on the appropriate post-insertion day with a single line scored through the days when care was not provided by FNHC.

The following stages should be followed when utilising the Care Bundle:

Part 1 of the care bundle must be fully completed following the insertion of the MLVAD:

- affix a patient label to the care bundle or complete the patient's demographic details
- complete the clinical area details and practitioner identifier details
- complete Part 1 and sign each metric

Part 2 must be completed on a daily basis – this section is on the back of the care bundle

All aspects of day 7 should also be completed as per the bundle

Part 3 must be completed on MLVAD removal

File the completed Midline VAD care bundle in the patient's nursing notes.

4. CONSULTATION PROCESS

Name	Title	Date
Judy Foglia	Director of Governance Regulation and Care	07/10/2021
Gilly Glendewar	Clinical Nurse Specialist Tissue Viability	07/10/2021
Fiona Le Ber	Clinical Nurse Specialist Bladder & Bowel	07/10/2021
Louise Hamilton	Team Lead RRRT	07/10/2021
Clare Stewart	Op Lead OOH Services	07/10/2021
Tia Hall	Op Lead Adult Services	07/10/2021
Elspeth Snowie	Clinical Effectiveness Facilitator	07/10/2021
Justine Bell	Education Lead and Practice Development Nurse	07/10/2021

5. IMPLEMENTATION PLAN

Action	Responsible Person	Planned timeline		
Email to all staff	Education and Development Secretary/Administrative Assistant	Within two weeks of ratification		
	Education and Development Secretary/Administrative Assistant	Within two weeks of ratification		

6. MONITORING COMPLIANCE

Compliance with this policy and procedures will be monitored through audit of observed practice in the insertion, care and maintenance of VADs.

7. EQUALITY IMPACT STATEMENT

Family Nursing & Home Care is committed to ensuring that, as far as is reasonably practicable, the way services are provided to the public and the way staff are treated reflects their individual needs and does not discriminate against individuals or groups on any grounds.

This policy document forms part of a commitment to create a positive culture of respect for all individuals including staff, patients, their families and carers as well as community partners. The intention is to identify, remove or minimise discriminatory practice in the areas of race, disability, gender, sexual orientation, age and 'religion, belief, faith and spirituality' as well as to promote positive practice and value the diversity of all individuals and communities.

The Family Nursing & Home Care values underpin everything done in the name of the organisation. They are manifest in the behaviours employees display. The organisation is committed to promoting a culture founded on these values.

Always:

- ✓ Putting patients first
- √ Keeping people safe
- ✓ Have courage and commitment to do the right thing
- ✓ Be accountable, take responsibility and own your actions
- ✓ Listen actively
- ✓ Check for understanding when you communicate
- ✓ Be respectful and treat people with dignity
- ✓ Work as a team.

This policy should be read and implemented with the Organisational Values in mind at all times.

6. GLOSSARY OF TERMS

Midline catheter: a small plastic catheter that is inserted via the antecubital veins and advanced into the veins of the upper arm but not extending past the axilla (usually about 20cm in length). They provide a long term alternative to a central line and are ideal for the purpose of administering longer term medications, fluid and/or blood products, with an indwelling time of up to 4 weeks.

Peripheral cannula: a small flexible plastic tube inserted into a small vein for therapeutic purposes such as the short term administration of medications, fluids and/or blood products. The insertion of peripheral intravenous cannulae is one of the most common invasive procedures performed in hospital, and is becoming increasingly more common in the community, offering a means of access to a patient's vascular system.

Peripherally Inserted Central Catheter (PICC): a soft, flexible, central venous catheter inserted into an extremity, usually an arm, and advanced until the tip is positioned in the lower third of the superior vena cava

Skin-tunnelled catheter: a vascular access device whose proximal end is tunnelled subcutaneously from the insertion site and brought out through the skin at an exit site

7. REFERENCES

Royal College of Nursing (2016) *Standards for Infusion Therapy 4th edition.* Available at <u>Standards for infusion therapy | Infection prevention and control | Royal College of Nursing (rcn.org.uk)</u>. Last accessed 22nd September 2021

10. APPENDIX

Appendix 1 Peripheral Vascular Access Device Care Bundle

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Appendix 2 Midline Vascular Access Device Care Bundle

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Date Day 1:	Required?	Dressing	Score Score	Score	Flush	Action	Signature
MLVAD							
24 hour post in	nsertion dre	ssing chec	k - change if r	not clean a	nd intact		
Date Day 2:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Date Day 3:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Date Day 4:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Date Day 5:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Date Day 6:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Day 7							
Date:	Required?	Dressing	Insertion VIP	End VIP	Flush	Action	Signature
	·		Score	Score			
MLVAD							
Change Griplo							
			with CloraPrep	and allow	to dry		
Change Clear Change needle			connector bun	a)			
Date Day 8:	Required?		Insertion VIP	•	Flush	Action	Signature
MLVAD	rtequileu:	Diessing	Score	Score	liusii	Action	Signature
Date Day 9:	Required?	Dressing	Insertion VIP	End VIP	Flush	Action	Signature
	Required?	Diessing	Score	Score	Fiusii	Action	Signature
MLVAD	D	D	In a set in a A/ID	EIV/ID	Florida	A - 4'	0:
Date Day 10:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD					<u> </u>	1	
Date Day 11:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD					<u> </u>	1	
Date Day 12:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Date Day 13:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Day 14							
Date Day 14:	Required?	Dressing	Insertion VIP Score	End VIP Score	Flush	Action	Signature
MLVAD							
Change Griplo			used with ChloraPre	en and allo	w to dry		
Change Clear			WILL SHOIAPTE	p and ano	v to dry		
			connector bung	g)			
		(-			_

Appendix 3 Equality Impact Screening Tool

Stage 1 - Screening

Title of Procedural Document: Vascular Access Devices Policy

Date of Assessment	October 2021	Responsible Department	Governance
Name of person completing assessment	Mo de Gruchy	Job Title	Quality, Performance and Development Nurse

Does the policy/function affect one group less or more favourably than another on the basis of :

	Yes/No	Comments
• Age	No	
Disability	No	
Learning disability; physical disability; sensory impairment and/or mental health problems e.g. dementia		
Ethnic Origin (including hard to reach groups)	No	
Gender reassignment	No	
Pregnancy or Maternity	No	
• Race	No	
• Sex	No	
Religion and Belief	No	
Sexual Orientation	No	
If the answer to all of the above questions is NO, the EIA is complete. If YES, a full impact assessment is required: go on to stage 2, page 2	No	

Stage 2 - Full Impact Assessment

What is the impact	Level of Impact	Mitigating Actions (what needs to be done to minimise / remove the impact)	Responsible Officer

Monitoring of Actions

The monitoring of actions to mitigate any impact will be undertaken at the appropriate level