Maidstone and **MHS** Tunbridge Wells

Ref: FOI/GS/ID 4756

NHS Trust

Please reply to:

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05 July 2018

Freedom of Information Act 2000

I am writing in response to your request for information made under the Freedom of Information Act 2000 in relation to Peripheral Venous Cannulation Policy.

You asked: Please may I request a copy of the trust's current Peripheral Intravenous Cannulation Policy.

Trust response:

Please see the following policy.

MAIDSTONE AND TUNBRIDGE WELLS NHS TRUST

Peripheral Venous Cannulation Policy and Procedure

Chairman: David Highton Chief Executive: Miles Scott Trust Headquarters: Maidstone Hospital, Hermitage Lane, Maidstone, Kent ME16 9QQ Telephone: 01622 729000 / 01892 823535

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Hospitals NHS Trust			
Document Lead:	Medical Director		
Directorate:	Diagnostics, Therapies and Pharmacy		
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Approved by:	Infection Prevention and Control Committee members (via consultation), 17th November 2015		
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Document history

Requirement for document:	 The purpose of this policy and procedure is to ensure that healthcare professionals follow the procedure and principles of care for insertion of peripheral vascular access devices. This policy and procedure addresses the principles of insertion and on-going care of peripheral vascular access devices to prevent the introduction of potentially pathogenic micro-organisms to patients, via the skin, or vascular access devices.
Cross references:	 Burke K (2000) 'Combating phlebitis: a peripheral cannula grading scale' Nursing times 20 (96) 29 Good Medical Practice 2006 GMC Centres for Disease Control and Prevention (2002). Morbidity and Morbidity Weekly Report Guidelines for the Prevention of Intravascular Catheter-Related Infections 9 August Vol 51 No RR-10 Cox, C. (2010) Legal Responsibility and Accountability Nursing Management, 17, 3, 18-20 Department of Health (2008). The Health and Social Care Act 2008. Code of practice for the NHS on the prevention and control of health care associated infections and related guidance. London DH January 2009 Department of Health. (2003). Winning Ways Working Together to Reduce Healthcare Associated Infection in England Epic 3: National Evidence-Based Guidelines for Preventing Healthcare- Associated Infection in NHS Hospitals in England. Journal of Hospital Infection 8651 (2014) S1-S70 Hindley, G. (2004). Infection control in peripheral cannulae Nursing Standard 18/27 37-40 Infection Prevention Society (2001) Guidelines for Preventing Intravascular Catheter Related Infection Lavery, I. (2003). 'Peripheral intravenous cannulation and patient consent'. Nursing Standard April 25 15 (32) Lister S, Dougherty L (2010). Marsden Manual of Clinical Nursing Procedures Blackwell Sciences Seventh Edition May, D. & Brewer, S. (2001). Sharps Injury: prevention and management. Nursing Midwifery Council The Code for nurses and Midwives (2015) Rowley S (2015) The ANTT Clinical Guidelines Bundle www.antt.org.uk Royal College of Nursing. Standards for Infusion Therapy (2010) RCN www.rcn.org.uk Department of Health (2007) Saving Lives: reducing infection, delivering clean and safe care. Control of Substances Hazardous to Health (COSHH) regulations 2002 (as amended) S1 2002/2677 Council Directive 2010/32/EU (2010) Implementing the

Associated documents:	Maidstone and Tunbridge Wells NHS Trust. Hand Hygiene Procedure Staff Leaflet [RWF-OWP-APP245]
	Maidstone and Tunbridge Wells NHS Trust. Standard Infection Control Precautions Policy and Procedure [RWF-OPPPCSS-C-PATH26]
	• Maidstone and Tunbridge Wells NHS Trust. <i>Single Use Medical Devices Policy and Procedure</i> [RWF-OPPPCSS-C-PATH4]
	Maidstone and Tunbridge Wells NHS Trust. Blood and Body Fluid Spills, Procedure for the Safe Handling of [RWF-OPPPCSS-C-PATH6]
	Maidstone and Tunbridge Wells NHS Trust. Bloodborne Infections, Policy and Procedure for the Care of Patients [RWF-OPPPCSS-C-PATH7]
	Maidstone and Tunbridge Wells NHS Trust. Sharps / Splash Injuries Policy and Procedure, Prevention and Management of [RWF-OPPPCS-C-WF5]
	Maidstone and Tunbridge Wells NHS Trust. <i>Healthcare Waste, Policy and Procedure for the Management of</i> [RWF-OPPPCS-NC-FH6]
	Maidstone and Tunbridge Wells NHS Trust. Aseptic Non Touch Technique (ANTT) Policy and Procedure. [RWF-OPPPCSS-C-PATH5]
	Maidstone and Tunbridge Wells NHS Trust. Patient Identification Policy and Procedure [RWF-OPPPCS-C-NUR2]
	Maidstone and Tunbridge Wells NHS Trust. Cannula, Insertion and care of your [STANDARD PRINT LEAFLET] [RWF-OPLF-PCS168]
	 Maidstone and Tunbridge Wells NHS Trust. Cannula, Insertion and care of your [LARGE PRINT LEAFLET] [RWF-OPLF-PCS183]
	Maidstone and Tunbridge Wells NHS Trust. <i>Medicines Policy and Procedure.</i> [RWF-OPPPCSS-C-PHAR1]

Version control:			
Issue:	Description of changes:	Date:	
1.0	First iteration of policy/procedure	August 2011	
2.0	Reviewed and amended	August 2013	
3.0	 Reviewed and amended. Maidstone and Tunbridge Wells NHS Trust. Aseptic Non Touch Technique (ANTT) Policy and Procedure. [RWF-OPPPCSS-C-PATH5] Epic 3: National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England. Journal of Hospital Infection 86S1 (2014) S1-S70 Sclerosed: a thickening or hardening of a body part Palpable: able to be touched or felt Flexion: a bending movement around a joint in a limb, that decreases the angle between the bones of the limb at the joint Fistula: an abnormal connection or passageway between 2 organs of the body, or between an organ and the outside of the body Port/lumen: the bore of a tube Median cubital vein: superficial vein of the upper limb, in the elbow joint It is the responsibility of healthcare workers to ensure they are trained and competent in performing the aseptic technique. (Epic 3 SP40/1) It is the responsibility of all clinical staff to ensure that they are aware of manufacturers' advice relating to the individual catheter, connection and administration set dwell time, and compatibility with antiseptics 	February 2016	

 and other fluids, to ensure the safe use of the devices. (Epic 3 IVAD2) The Director for Infection Prevention and Control will require assurance through audit, that all staff adhere to the policy The Vascular Access Specialist Practitioner will also lead on the annual audit of compliance with this policy, against Saving Lives criteria (see appendix 4). *Chemotherapy – When administering Systemic Anti-Cancer Therapy (SACT), ideally the practitioner should site the cannula. However, if the cannulation has been undertaken by another experienced practitioner who is competent to cannulate, ensure the patency of the cannula. SACT should never be given via a cannula for which you do not know the insertion history or by whom it was inserted. 	
 70% alcohol, to decontaminate skin prior to procedure) Saving Lives documentation Limbs on the same side as an axillary node dissection (wherever possible) Avoid using the limb of a renal patient with an existing fistula Cannulas inserted by paramedics under aseptic conditions will be labelled with a green sticker and cannulas not inserted in aseptic 	
 conditions will be labelled with a red sticker Give the patient a copy of the Trust's 'Insertion and Care of your Cannula" leaflet. Deletion of Competency Assessment for Acute and Emergency Support Workers 	

Policy statement for

Peripheral Venous Cannulation Policy

Preventing and managing healthcare associated infection is a priority for all NHS organisations. Therefore the prevention of infections by contamination is essential. Good practice is vital; this includes aseptic technique which incorporates appropriate hand hygiene, decontamination of skin and good preparation and handling of equipment.

This policy applies to all staff undertaking peripheral venous cannulation in adult or paediatric healthcare, within Maidstone and Tunbridge Wells NHS Trust (MTW / the Trust).

Peripheral Venous Cannulation Procedure

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1.0 Introduction and scope

Insertion criteria: This policy and procedure applies to all healthcare professionals working within the Trust, who are registered healthcare professionals: Nurses, Midwives, Medical staff and Allied Healthcare Professionals whose role necessitates the insertion of peripheral cannulae in adults or children.

This policy and procedure also applies to Acute and Emergency Support Workers (Band 3) who undergo a rigorous competency based training package, to accredit them to cannulate patients identified by a registered practitioner, in their given areas. Please refer to the competency training package in **Appendix 7**.

Continuing care: This policy and procedure applies to all healthcare staff who care for patients. Visual Infusion Phlebitis (VIP) scores can be carried out by any member of staff caring for patients with a peripheral cannula, i.e. Clinical Support Workers (CSW), Registered Nurses, Medical staff and Allied Healthcare Professionals (AHP).

This policy and procedure covers aseptic non-touch technique (ANTT), the use of safer sharps, the prevention of needlestick injury, and may overlap with other Trust policies which can be viewed on Q-Pulse.

2.0 Definitions and acronyms

- ANTT: aseptic non touch technique
- **Asepsis:** is the method by which we prevent microbial contamination during clinically invasive interventions
- **Cannula:** a peripheral venous cannula is a flexible hollow tube containing a needle that is placed into a venous blood vessel
- Chloraprep: (SePP) 70% alcohol and 2% Chlorhexidine 0.67 mls
- **Epic 3:** National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England
- **Fistula:** an abnormal connection or passageway between 2 organs of the body, or between an organ and the outside of the body
- Flexion: a bending movement around a joint in a limb, that decreases the angle between the bones of the limb at the joint
- Median cubital vein: superficial vein of the upper limb, in the elbow joint
- MTW: Maidstone and Tunbridge Wells NHS Trust
- Palpable: able to be touched or felt
- **PGD:** Patient Group Direction
- **Port/lumen:** the bore of a tube
- Sanicloth CHG 2%: pre-moistened wipe used for cleaning all ports/hubs prior to access
- Sclerosed: a thickening or hardening of a body part
- VIP: Visual Infusion Phlebitis

3.0 Duties

- Accountability and responsibility
 - It is the responsibility of all clinical staff to ensure they are trained and competent in performing the aseptic technique. (Epic 3 SP40/1)
 - It is the responsibility of all clinical staff to ensure that they use safety sharps where provided, and activate passive / active safety features before safe disposal.
 - It is the responsibility of all clinical staff to ensure that they maintain an aseptic non touch technique (ANTT) when inserting a peripheral venous cannula.
 - It is the responsibility of all clinical staff to ensure that they maintain their knowledge and clinical competence.
 - It is the responsibility of all clinical staff to ensure that they are aware of manufacturers' advice relating to the individual catheter, connection and administration set dwell time, and compatibility with antiseptics and other fluids, to ensure the safe use of the devices. (Epic 3 IVAD2)

Assessment of competencies

 Assessment of the fundamental principles of cannulation will be made against specific criteria, in order for the practitioner to declare their competence.

Only a qualified registered competent practitioner can assess and declare competence. (See **Appendix 7**)

- The Director for Infection Prevention and Control will require assurance through audit, that all staff adhere to the policy and procedure.
- **The Infection Prevention and Control Team** is responsible for promoting this policy and procedure and overseeing regular audits.
- The Vascular Access Specialist Practitioner is responsible for promoting this policy and procedure and providing education to Trust employees who have been identified by their managers as requiring training. The post-holder will also act as a resource and will update the policy and procedure in line with current evidence and National guidelines. The Vascular Access Specialist Practitioner will also lead on the annual audit of compliance with this policy and procedure, against Saving Lives criteria (see Appendix 4).
- Service leads and managers are responsible for ensuring that their staff have access to, are aware of, understand and comply with this policy and procedure. They are also responsible for ensuring that staff have attended either the Trust intravenous cannulation and venepuncture course, or validated training where content can demonstrate competence against the criteria within this policy and procedure for safe insertion procedure.
- It is the responsibility of **each individual healthcare worker** to comply with the requirement of this procedure.

4.0 Training / competency requirements

Training needs analysis:

	C	
Registered healthcare practitioner (RHP)		
Training level	Formal training received from this Trust or previous Trust must demonstrate compliance against the criteria within this policy and procedure for safe insertion and removal procedures and be assessed as competent; RHP must provide evidence of the content of any previously completed course.	
Method of	Formal Trust peripheral venous cannulation course delivered by	
delivery	PowerPoint, practical demonstration, e-learning and simulated	
	practice on manikins.	
Evidence of	Assessment and declaration of competence (Appendix 7) to be	
competency	completed and signed off by RHP's supervisor and line manager.	
Timescale	Newly registered nurses may attend the course at their manager's discretion. Practitioners must declare competency within 4 months of attending formal Trust training.	
	RHPs must ensure they have an Assessment and declaration of	
	competence completed and signed annually.	
Responsibility	RHPs must take responsibility to maintain competence.	

Acute and Emergency Support Worker (AESW)			
Training level	Rigorous competency based training package, to accredit them to		
	cannulate patients identified by a registered practitioner, in their		
	given areas		
Method of	Formal Trust peripheral venous cannulation course delivered by		
delivery	PowerPoint, practical demonstration, e-learning and simulated		
	practice on manikins.		
Evidence of	Assessment and declaration of competence (Appendix 7) to be		
competency	completed and signed off by RHP's supervisor and line manager.		
Timescale	AESW must ensure they have an Assessment and declaration of		
	competence completed and signed annually.		
Responsibility	AESW must take responsibility to maintain competence.		

It is anticipated that all Doctors will be competent at venous cannulation prior to joining the Trust and that all healthcare professionals will adhere to this policy and procedure.

Healthcare professionals identified by their clinical managers as working in an environment where there is a clinical need for them to perform venous cannulation, may do so providing they fulfil the following requirements:

 Practitioners are required to attend a formal training session e.g. Trust venous cannulation course and carry out sufficient practice until they demonstrate their competence to another competent Supervisor. Supervisors are currently competent practitioners who may be a nurse/midwife, Allied Health Professional (AHP) or more senior doctor. Staff that join the Trust need to provide evidence of previous training content and demonstrate competence against the criteria within this policy and procedure for safe insertion procedure.

- The intravenous cannulation competency protocol (see Appendix 7) should be used, with the practitioner taking responsibility for their own competency. The maintenance of competence remains the responsibility of the practitioner as they are accountable for their actions (see cross references).
- All healthcare professionals need to have a working knowledge of the law and how it relates to their actions (Lavery 2003).
- Ward/Department managers will ensure the contents of the policy, procedure and any subsequent amendments are regularly brought to the attention of their staff.

5.0 Procedure

5.1 Indications for peripheral venous cannulation

Peripheral cannulation is usually performed in the arm for **short-term** therapy only.

The choice of vein needs to be appropriate for the proposed use of the cannula, necessitating knowledge of anatomy and physiology of veins.

Peripheral cannulae may be inserted for:

- · Short-term administration of intravenous drugs
- Emergency access
- Administration of blood and blood products
- Re-hydration/administration of I/V fluids
- Nutrition following consultation with pharmacy and nutrition team
- *Chemotherapy When administering Systemic Anti-Cancer Therapy (SACT), ideally the practitioner should site the cannula. However, if the cannulation has been undertaken by another experienced practitioner who is competent to cannulate, ensure the patency of the cannula is checked (i.e. the blood flow present) and the location of the cannula. SACT should never be given via a cannula for which you do not know the insertion history or by whom it was inserted.
- Unnecessary cannulation should be avoided as peripheral cannulation is associated with an increased risk of bacteraemia and associated complications.

5.2 Vein selection

The following principles apply to vein selection:

- Use lower veins first
- Use veins that feel soft and resilient
- Use large veins where possible
- Use straight veins suited to cannula length
- Select veins which are free from obvious valves
- Avoid insertion of cannulae over joints
- Avoid Metacarpal where possible
- Use a distal vein on the patient's non-dominant arm wherever possible

The following table shows the correct gauge selection

5.3 Cannula selection: (safety cannulae only)

Gauge (G)	Flow rate (ml/min)	Colour	General uses
14	265	Brown	Used in theatres/ emergency for rapid transfusion of blood or viscous fluids
16	170	Grey	As 14G
18	90	Green	Blood transfusions, cell separation, large volumes of fluid, nutrition
20	55	Pink	Blood transfusions, large volumes of fluids
22	35	Blue	Blood transfusions, most medications, fluids
24	24	Yellow	Medications, short-term infusions, including SACT (systemic anti-cancer therapy) fragile veins, children

5.4 Areas to avoid

- Veins that feel hard and sclerosed
- Areas of flexion
- Veins in close proximity to arteries
- Limbs with fractures
- Limbs on the same side as an axillary node dissection (wherever possible)
- Previously cannulated veins
- Avoid using the limb of a renal patient with an existing fistula
- Sites close to existing wounds
- Median cubital veins (may be needed for venous blood sampling)
- Previous thrombus on that arm

5.5 Equipment for insertion

Always use:

- An Aseptic Non Touch Technique (ANTT)
- Cannula of correct size (safety cannula only)
- Clean well-fitting examination gloves and aprons
- MTW cannulation pack including 0.67 mls SePP, (skin cleansing agent containing 2% Chlorhexidine Gluconate and 70% alcohol, to decontaminate skin prior to procedure) (see Appendix 6)
- Sharps bin
- Sterile Sodium Chloride 0.9% for injection
- Blunt drawing up needle
- Saving Lives documentation

5.6 Insertion technique

Insertion procedure	Rationale
Identify the patient as per MTW Patient	To ensure correct patient
Identification Policy and Procedure	
Explain the procedure to the patient. Ask patient	To ensure patient
for sites which should not be accessed and	understanding and consent
patient preference for site. Seek verbal consent	
and co-operation in language that they	
understand and back up with written information if	
requested. Give the patient a copy of the Trust's	
'Insertion and Care of your Cannula" leaflet.	
Allow time for the patient to ask questions.	
Discuss the patient's previous experiences e.g.	To establish venous history
needle phobias, preferences	
Check and clarify allergies with the patient	To ensure patient is not
	allergic to anything being
	used in the procedure
Assess patient and position them on chair, bed or	To maintain the comfort and
couch	safety of the patient if they
	experience a vaso-vagal
	(fainting) episode
Select the correct safety cannula size for	To reduce unnecessary
patient/infusion needs	trauma to the vein and
	needlestick injuries
Decontaminate hands using an alcohol-based	To minimise the risk of cross
hand rub or by washing with liquid soap and	infection
water for 20-40 seconds	
Check integrity of packaging and expiry date.	To maintain asepsis
Open the pack onto a trolley/procedure tray which	
has been cleaned with a Clinell Universal Wipe	
Wash and dry patient's arm with soap and water if	To adequately clean skin
visibly dirty	
Choose site according to clinical need and	To dilate veins by
condition. Apply tourniquet at least 10cm above	obstruction of venous return
the selected insertion site	
Find a suitable palpable vein	To reduce trauma to vein
Decontaminate hands for 20-40 seconds using	To minimise the risk of
alcohol-based hand rub allow 30 seconds to dry	infection
and then apply clean well-fitting examination	
gloves	
Decontaminate site with Chloraprep SePP for 30	To minimise the risk of
seconds (included in pack). Use an alcohol	infection
povidone-iodine solution for patients with a history	
of Chlorhexidine sensitivity and apply in the same	
way as SePP. Allow the SePP to dry for 30	
seconds before inserting the catheter. Do not re-	
palpate the vein or touch the skin after cleansing	
Fold down the wings of cannula (if present) and	To detect faulty equipment
inspect for faults. Do not withdraw the needle	

Insertion procedure	Rationale
Insert the cannula, bevel up at the manufacturer's	To facilitate a smooth
recommended angle (usually between 10-40	insertion and reduce
degrees) until flashback is observed	mechanical phlebitis
Level the device, advance the cannula a few	To avoid puncturing the vein
millimetres into the vein and withdraw the needle	wall
slightly, observing for second 'flashback' of blood	I o ensure the vein remains
into the shaft. Maintaining anchor tension with	immobilised thereby
one hand and holding the flashback chamber of	reducing risk of puncturing
thumb plate with the other, advance the cannula	the vessel
Only one vescular device should be used for each	To maintain aconsis
cannulation attempt	To maintain asepsis
Release tourniquet, remove and dispose into	To decrease pressure on
clinical waste stream.	the vein and for patient's
	comfort
Apply digital pressure above tip of cannula,	I o reduce risk of
remove needle, and dispose of sharp directly into	needlestick injury
snarps bin.	To any control in order damate of
Attach primed needle-free connector (primed with	To prevent air entry/protect
0.9% hormal saline) using an aseptic technique	To minimize rick of infection
Apply steme, transparent, semi-permeable, i/v	and to socure the conculo
Eluch the conculo with 5,10 mls of storile codium	To provent exclusion and
chloride 0.9% for injection. Patient Group	check patency
Direction (PGD) can be used by trained and	check patency
competent PGD user. Saline must be prescribed	
and administration documented.	
Discard gloves, then apron and decontaminate	Epic 3 Guidelines
hands	
Remove waste into appropriate container –	To ensure safe disposal and
sharps must be disposed of at the point of use	reduce needlestick injuries
directly into a sharps container	For patients with VHF/Ebola
	requiring cannulation,
	please refer to Infection
	Prevention and Control
	Policy for specific details
Document all insertions to comply with Saving	I o meet patient care and
Lives on IVI I vv peripheral cannulation insertion	legal requirements
record (Appendix 5). Document insertion time (24	
nour clock) date, size/colour of cannula and name	
or person inserting the device. Record the	
review/removal date (72 hours) sticky labels	
supplied with pack	
supplied with pack.	

Additional notes

- A peripheral cannula inserted in an emergency situation where aseptic non touch technique (ANTT) has been compromised should be replaced within 24 hours.
- Cannulas inserted by paramedics under aseptic conditions will be labelled with a green sticker and cannulas not inserted in aseptic conditions will be labelled with a red sticker.
- Cannulae must not be left in situ for longer than 72 hours without discussion with senior team or Infection Prevention and Control Team. In this instance rationale should be clearly stated in the documentation and VIP scores completed 8 hourly.

It is recommended that each practitioner is only allowed 2 attempts per patient; they must then refer to a more experienced practitioner.

Report

 If a Visual Infusion Phlebitis (VIP) score of 2 or above is recorded, the cannula must be removed immediately. Document actions and discuss with the Infection Prevention and Control Team/Microbiologist. <u>A swab should be taken if</u> there is pus present at the insertion site and the swab sent to <u>Microbiology along with the tip of the cannula</u>. An incident report (Datix) must be completed.

Management of the cannula	Rationale
The number of lines and ports/lumens will be kept to an absolute minimum.	To reduce the risk of cross infection (DH recommendation 2004)
A needle free system should be used for accessing an injection access site.	RCN (2010) recommendation HSE Directive 2013
Intermittent administration sets should be changed every 24 hours if remaining connected to the device. Disconnected fluids/drugs half way through infusion should not be re-connected. Continuous IV sets to be changed in line with this policy and procedure.	To reduce the risk of infection RCN (2010)
The maximum expiry date for any infusion prepared in a clinical area is 24 hours or less in accordance with the manufacturer's specification of product characteristics.	DH recommendation (2004) to help avoid the risk of infection
Avoid bandaging the cannulation site wherever possible. However, if a bandage is essential to secure the cannula, consider using an elasticated	To enable accurate VIP scoring and to assess skin integrity

5.7 Management of peripheral venous cannula insertion

Management of the cannula	Rationale	
net bandage. If a full bandage is required, it should be removed at least every 8 hours in order to inspect the site.		
Devices designed for splinting should be used to facilitate infusion delivery only when the device is placed in or around an area of flexion or is at risk of dislodgement. Splints should be removed and the skin condition and circulatory status of the patient's extremity should be assessed at regular intervals.	RCN recommendations (2010)	
When manipulating a line/cannula an aseptic non touch technique (ANTT) should be used. Ensure all devices which come into contact are sterile. Do not disconnect devices from cannula during administration – only upon completion.	To prevent cross infection. RCN Recommendation (2010) Epic 3 (2013)	
Prior to accessing the system, decontaminate ports using Sanicloth CHG 2% and wipe for 30 seconds allowing to dry for 30 seconds.	Essential to prevent entry of microorganisms in to the system via the port	
The cannula should be flushed at least daily, before, between and after drug administration with 5-10mls sterile normal saline (0.9%) for injection in a 10ml syringe.	To maintain patency. To prevent drug incompatibilities.	
The dressing should be changed when it becomes loose, damp or soiled.	To reduce the risk of cross infection.	
As aseptic non touch technique (ANTT) should be used when changing the dressing. The insertion site and area beneath the dressing should be cleaned in a cross-hatch fashion with SePP for 30 seconds and allow to dry for 30 seconds.	Skin cleansing of the insertion site is one of the most important measures of preventing catheter related infection.	
history of Chlorhexidine sensitivity. Clean in the same way.		
If the site appears infected or has a VIP score of 2 or greater, the cannula must be removed, a swab should be taken and sent with the tip of the cannula to	The microbiology results may indicate which antibiotic may need to be prescribed	

Management of the cannula	Rationale
microbiology for culture and sensitivity. An incident report (Datix) must be completed.	
Any incidence of phlebitis, along with intervention, treatment, and corrective action should be documented in the patient's notes.	To provide evidence of any actions taken and aid communication.
If a peripheral venous cannula is not being used/required for access, it should be removed.	The longer a peripheral venous cannula remains in situ, the greater the risk of infection.
Documentation of on-going care and VIP score should be recorded every 8 hours.	

Please note:

Peripheral cannula should **not** be used for routine blood sampling. However, if absolutely necessary, the cannula can be used to draw blood using a large syringe (larger than 10mls) **ONCE ONLY**, immediately following insertion of the cannula.

Re-apply tourniquet above the cannula, wait for vein engorgement and draw blood SLOWLY using minimal force. Excess force will both haemolyse the sample and cause thrombophlebitis/collapse of the vein.

5.8 Complications

The complications of peripheral venous cannulation are as follows:

Complication	Influencing factors
Mechanical phlebitis: This is	Inappropriate device selection
associated with injury to the tunica	Placement of a large cannula in a
intima from a cannula rubbing against	small vein
the inside of the vein wall	Placement of a cannula near to
	joints or areas of flexion
Chemical phlebitis: This is associated	Intravenous medications that
with injury to the tunica intima by	deviate from the bloods normal pH
solutions infused into the venous	or osmolarity
system	
Infective phlebitis: This is associated	Poor aseptic technique when
with injury to the tunica intima caused	inserting or accessing the cannula
by bacteria irritating the vein wall	Ineffective hand decontamination
Cannula occlusion: This is	Flush being administered incorrectly
associated with the cannula being	Precipitates formed due to
partially or completely blocked	drug/solution incompatibility or bio

	film
Infiltration: This is the inadvertent	Poor monitoring of the infusion
administration of a non-vesicant	Cannula not being secure and
medication or solution into the	dislodging
surrounding tissue	
Extravasation: This is the inadvertent	Poor monitoring of the infusion
administration of a vesicant medication	Cannula not being secure and
or solution into the surrounding tissue	dislodging
Haematoma: This is associates with	Poor cannulation technique/removal
blood leaking out of the vessel wall	

5.9 Removal of peripheral venous cannula

Equipment

- Clean examination gloves
- Sterile gauze and tape
- Sharps bin

Removal of peripheral venous cannula	Rationale	
Peripheral venous cannula should be re-sited every 72 hours wherever clinically possible	DH recommendation (2004) RCN (2010)	
Removal of the intravenous cannula should be an aseptic procedure	To prevent cross infection as well as contamination of the catheter tip	
Explain procedure to the patient and gain consent	To ensure patient understanding	
Decontaminate hands using alcohol- based hand rub or handwashing with liquid soap and water	To reduce cross infection	
Apply clean examination gloves	To maintain universal precautions	
Remove dressing using ANTT	To expose cannula site	
Gently withdraw cannula using a slow movement and keeping hub parallel with skin	To ease withdrawal and prevent damage to the vein	
Apply pressure for 30 seconds to 1 minute with sterile gauze or until bleeding has stopped	To prevent haematoma	
Document the date and time of removal, on the peripheral cannula insertion record, in the patient's notes. Include the name of the person removing the device.	To meet legal requirements – Saving Lives	
If the site appears infected (VIP score of 2) a swab should be taken and sent with the tip of the cannula to microbiology for culture and sensitivity. An incident report should be logged online (e-reporting / Datix).	The microbiology result may indicate which antibiotic is required should the patient develop signs of septicaemia.	

Evaluation

Ensure that the principles of peripheral venous cannula insertion are adhered to and good asepsis is maintained throughout the entire process.

6.0 Monitoring and audit

The Director of Infection Prevention and Control as Chair of the Infection Prevention and Control Committee will be responsible for monitoring compliance with this procedure on behalf of the Trust.

The Infection Prevention and Control team and Vascular Access Specialist Practitioner are responsible for auditing compliance with this policy and procedure, and for ensuring all wards and departments have appropriate access to equipment/materials to undertake peripheral venous cannulation.

APPENDIX ONE

Process requirements

1.0 Implementation and awareness

- Once ratified the document lead or author will submit this policy/procedural document to the Clinical Governance Assistant who will activate it on the Trust approved document management database on the intranet, under 'Trust policies, procedures and leaflets'.
- A monthly publications table is produced by the Clinical Governance Assistant which is published on the Trust intranet under "Policies"; notification of the posting is included on the intranet "News Feed" and in the Chief Executive's newsletter.
- On reading of the news feed notification all managers should ensure that their staff members are aware of the new publications.

2.0 Review

This policy / procedure will be reviewed at least every three years or sooner in relation to new guidance.

3.0 Archiving

The Trust intranet retains all superseded files in an archive directory in order to maintain document history.

APPENDIX TWO

CONSULTATION ON: Peripheral Venous Cannulation Policy and Procedure **Consultation process** – Use this form to ensure your consultation has been adequate for the purpose.

Please return comments to: Vascular Access Specialist Practitioner **By date:** December 11th 2015

Name:	Date sent	Date reply	Modification	Modification
		received	suggested?	made?
			Y/N	Y/N
Chief Executive	17.11.15			
Chief Operating Officer	17.11.15			
Chief Nurse	17.11.15			
Medical Director	17.11.15	18.11.15	Y	Y
ADNS emergency and medical services	17.11.15			
ADNS Surgery, Critical Care,	17.11.15			
Orthopaedics and Oncology				
ADNS & Head of Midwifery	17.11.15	01.12.15	Y	Y
CD Anaesthetics and Critical Care	17.11.15			
CD Surgery	17.11.15	17.11.15	Ν	
CD Orthopaedics	17.11.15			
CD Oncology	17.11.15			
AD of Quality and Governance	17.11.15			
Consultant Microbiologist – DIPC	17.11.15			
Consultant Microbiologist	17.11.15			
Consultant Microbiologist	17.11.15			
Consultant Microbiologist	17.11.15			
Chief Pharmacist	17.11.15			
Consultant Nurse and DDIPC	17.11.15			
Lead Nurse IPC	17.11.15	18.11.15	Y	Y
Senior Nurse IPC	17.11.15			
Matron IPC	17.11.15			
Senior Nurse Advisor OH	17.11.15			
Risk Manager	17.11.15			
Tissue Viability Nurse	17.11.15	18.11.15	Ν	
CNS Oncology	17.11.15	23.11.15	Y	Y
Lead Professional Standards	17.11.15			
Professional Standards	17.11.15	11.12.15	Ν	
Dep Professional Standards	17.11.15			
Theatre practitioner	17.11.15			
Outreach Sister	17.11.15			
Cons Anaesthetist	17.11.15	18.11.15	Y	Y
IPCC Committee Members	17.11.15			
Lead Cancer Nurse		27.11.15	Y	Y
Lead Chemotherapy Nurse		27.11.15	Y	Y
Clinical Governance Assistant	14.01.16	18.01.16	Y	Y

APPENDIX THREE

Equality Impact Assessment

In line with race, disability and gender equalities legislation, public bodies like MTW are required to assess and consult on how their policies and practices affect different groups, and to monitor any possible negative impact on equality. The completion of the following Equality Impact Assessment grid is therefore mandatory and should be undertaken as part of the policy development and approval process. Please note that completion is mandatory for all policy development exercises. A copy of each Equality Impact Assessment must also be placed on the Trust's intranet.

Title of Policy or Practice	Peripheral venous cannulation policy and procedure	
What are the aims of the policy	To ensure safe insertion of peripheral venous	
or practice?	cannula.	
Identify the data and research		
used to assist the analysis and		
Analyse and assess the likely	Is there an adverse impact or notential	
impact on equality or notential	discrimination (ves/no)	
discrimination with each of the	discrimination (yeshio).	
following groups.	If ves give details	
Males or Females	No	
People of different ages	No	
People of different ethnic groups	No	
People of different religious beliefs	No	
People who do not speak English	Yes interpreters could be employed	
as a first language		
People who have a physical	No	
disability		
People who have a mental	No	
disability		
Women who are pregnant or on	No	
maternity leave		
Single parent families	No	
People with different sexual	NO	
Orientations	No	
(part time, full time, job chara, chart		
term contractors employed		
unemployed)		
People in deprived areas and	No	
people from different socio-		
economic groups		
Asylum seekers and refugees	No	
Prisoners and people confined to	No	
closed institutions, community		
offenders		
Carers	No	
If you identified potential	No	
discrimination is it minimal and		
justifiable and therefore does		
assessment?		
Prisoners and people confined to closed institutions, community offenders Carers If you identified potential discrimination is it minimal and justifiable and therefore does not require a stage 2 assessment?	No No No	

When will you monitor and review your EqIA?	Alongside the policy/procedure
Where do you plan to publish the results of your Equality Impact Assessment?	As Appendix 3 of this policy/procedure on the Trust approved document management database on the intranet, under 'Trust policies, procedures and leaflets'.

FURTHER APPENDICES

The following appendices are published as related links to the main policy /procedure on the Trust approved document management database on the intranet (Trust policies, procedures and leaflets):

No.	Title	Unique ID
4	Peripheral vascular catheter (PVC) audit tool	RWF-OWP-APP136
5	Peripheral cannula insertion record (adult)	RWF-OWP-APP137
6	Maidstone and Tunbridge Wells cannulation pack	RWF-OWP-APP138
7	Competency assessment document	RWF-OWP-APP139