**Prevention and prophylaxis for venous thromboembolism (VTE) in adult patients v2.0**

Ensure patient safe**ty** is optimised resulting in the best outcomes

The purpose of this policy is to ensure trust compliance to NICE Clinical Guideline 92 and Department of Health Regulations

Key Features:

* Policy that is based on NICE Clinical Guideline 92 published January 2010
* Risk Assessment Tool based on DOH risk assessment tool published March 2010
* Recommended Pharmacological and mechanical devices
* Responsibilities of individuals in assessing and prescribing to reduce DVT risk

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**Accountable Directorate** : Group 2

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| Relevant External Standards/ Legislation | * NICE Clinical Guideline 92 (January 2010) Venous Thromboembolism: reducing the risk * Department of Health Venous Thromboembolism (VTE) Risk Assessment * Venous thromboembolism: reducing the risk of venous thromboembolism (deep vein thrombosis and pulmonary embolism) in patients admitted to hospital National Clinical Guideline Centre – Acute Published by the and Chronic Conditions (formerly the National Collaborating Centre for Acute Care) at The Royal College of Physicians of London, * Government Response to the House of Commons Health Committee Report on the Prevention of Venous Thromboembolism in Hospitalised Patients – Second Report of Session 2004–05 * Prophylaxis of Venous Thromboembolism , SIGN Publication No. 62 * Reducing the risk admitted to hospital NICE guideline Draft for consultation, March 2009 of venous thromboembolism (deep vein thrombosis and pulmonary embolism) in patients |
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| 0.1 | Draft | May 2009  June 2009  June 2009 | Corporate Nursing  Mr Budhoo (CD Surgery)  Chris Wright (Matron Surgery) | Use Trust Template  Consult with medicine  Consult with Orthopaedics  Ask Band 5 to read document | Trust Template Used  Medicine to be consulted  Orthopaedics to be consulted  Band 5 Nurse read document |
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# Introduction

An estimated 25,000 people in the UK die from preventable hospital-acquired venous thromboembolism (VTE) every year1. Treatment of non-fatal symptomatic VTE and related long-term morbidities is associated with considerable cost to the health service and an adverse impact on quality of life.

VTE is a condition in which a blood clot (a thrombus) forms in a vein. It most commonly occurs in the deep veins of the legs; this is called deep vein thrombosis. The thrombus may dislodge from its site of origin to travel in the blood – a phenomenon called embolism.

VTE encompasses a range of clinical presentations. Venous thrombosis is often asymptomatic; less frequently it causes pain and swelling in the leg. Part or all of the thrombus can come free and travel to the lung as a potentially fatal pulmonary embolism.

Symptomatic venous thrombosis carries a considerable burden of morbidity, sometimes over a long term because of chronic venous insufficiency. This in turn can cause venous ulceration and development of a post-thrombotic limb (characterised by chronic pain, swelling and skin changes).

The risk of developing VTE depends on the condition and/or procedure for which the patient is admitted and on any predisposing risk factors (such as age, obesity and concomitant conditions).

# Circulation

This policy applies to all staff with clinical responsibility for VTE risk assessment, prevention and treatment, whether in a permanent or temporary role on behalf of HEFT

# Scope

**3.1** **Includes**:

This policy applies to all adult patients requiring hospitalisation including day case patients

## Patient exclusions:

There is an agreed cohort which also includes:

* Paediatric patients
* Out Patients
* Patients having endoscopy and procedures on cohort exemption list
* Patients not admitted to hospital
* Patients admitted for treatment of VTE

# Reason for development

Heart of England NHS Foundation Trust (HEFT) has a statutory obligation to patients to ensure compliance to NICE guidelines. The Trust makes patient safety a top priority.

The purpose of this policy is to provide clear guidance to staff on VTE risk assessment and prophylaxis for patients and to ensure compliance with NICE Clinical Guideline 92 and Department of Health regulations.

NICE recommends that patients should be assessed to identify their risk factors for developing VTE.

VTE risk assessment is a mandatory CQUIN in the 2010/11 payment framework.

# Aims and objectives

* To identify all patients who may be at risk of developing a VTE
* To implement interventions to reduce the risk of a VTE occurring during in-patient stay or treatment that increases risks.
* To ensure a risk assessment is completed on admission of a patient to hospital and again after seventy two hours (after initial assessment). Thereafter, assessment will be as appropriate and depending on significant changes to medical condition.
* To make explicit that prophylaxis **must not** be prescribed unless a **valid and up to date VTE risk assessment is present**
* Healthcare professionals will give patients verbal and/or written information about the risks of VTE and the effectiveness of prophylaxis.
* To ensure VTE prophylaxis is documented in patients’ notes/care record in a standardised manner using a systematic approach across the Trust.

Information for patient is available on the Trust Patient and Information Database

# Definitions and abbreviations

## Venous Thromboembolism (VTE):

The formation of a blood clot (thrombus) in a vein which may dislodge from its site of origin to cause an embolism

## VTE prophylaxis:

The active mechanism in reducing the risk of a VTE from occurring.

* Mechanical thromboprophylaxis devices include graduated compression stockings, intermittent pneumatic compression and venous foot pumps. All increase venous outflow or reduce stasis within the leg veins.
* Chemical thromboprophylaxis is pharmaceutical intervention to decrease the clotting ability of the blood. Drugs will be prescribed in accordance with current version of hospital formulary.

## Major bleeding:

A bleeding event that results in one or more of the following;

* Death
* A decrease in haemoglobin concentration of ≥2 g/dl
* Transfusion of ≥2 units of blood
* Bleeding into a retroperitoneal, intracranial or intraocular site
* A serious or life threatening clinical event

## Renal failure

* An estimated glomerular filtration rate (eGFR) <30 ml/min/1.73 m2

## Significantly reduced mobility

Bedbound, unable to walk unaided or likely to spend a substantial proportion of the day

In bed or in a chair

## Abbreviations

|  |  |
| --- | --- |
| BMI: body mass index | INR: international normalised ratio (standardised laboratory measure of blood coagulation) |
| Dabigatran: dabigatran etexilate | LMWH: low molecular weight heparin |
| DVT: deep vein thrombosis | PE: pulmonary embolism |
| Fondaparinux: fondaparinux sodium | UFH: unfractionated heparin |
| HRT: hormone replacement therapy | VTE: venous thromboembolism |

N.B. The drugs listed may not be included in the hospital formulary and the clinician must be guided by best practice, clinical judgement and advice from a hospital pharmacy if required.

# Policy Standards

Please read this document:<http://sharepoint/vte/NICE%20Guidence%20on%20VTE/VTEQualityStandard%20(2).pdf>

In Summary:

|  |  |
| --- | --- |
|  | **Quality statements** |
| 1 | All patients, receive an assessment of VTE and bleeding risk (**Appendix 1**), within 24 hrs of admission, using the clinical risk assessment criteria described in **Appendix 2** |
| 2 | Patients are re-assessed 72 hours after initial assessment for risk of VTE and bleeding. |
| 3 | Patients provided with anti-embolism stockings have them fitted and monitored in accordance with NICE guidance (**Appendix 4**) |
| 4 | Patients/carers are offered verbal and written information on VTE prevention as part of the admission process **(See Trust Patient Advice and Information Database).** |
| 5 | Patients assessed to be at risk of VTE are offered VTE prophylaxis in accordance with NICE guidance. (**Appendices 3-5)** |
| 6 | Patients/carers are offered verbal and written information on VTE prevention as part of the discharge process. |
| 7 | Patients are offered extended (post hospital) VTE prophylaxis in accordance with NICE guidance. |
| 8 | Clinical guidelines for the management of DVT and PE when a positive diagnosis has been made are available on the Trust clinical guidelines SharePoint. |

# **Responsibilities**

## Chief Executive

The Chief Executive retains overall accountability for policies within the trust. Operational responsibility for this policy is delegated to the Trust Medical Director and Group Medical Directors.

## Trust Medical Director

The Medical Director for the Trust is accountable for Trust implementation of this policy and delegates responsibility to the Group Medical Directors.

## Group Medical Directors

Group Medical Directors are accountable for the implementation of this policy within their group. They delegate responsibility for the implementation to the clinical directors.

### 8.4 Clinical Director

All clinical directors are accountable for the implementation of this policy within their directorates.

Consultants are responsible for ensuring that all junior doctors on their team have clear expectation clarity with regard to VTE Risk assessment and VTE prophylaxis

That any training needs identified are actioned.

### 8.5 Admitting Consultant

The admitting consultant is responsible for ensuring compliance with this policy for their patients.

### 8.6 Junior Doctors

* Junior doctors are accountable and responsible for risk assessing patients admitted into hospitals and undertake review.

Medical staff are responsible for documenting reasons for deviation from the recommended VTE prophylaxis stated in the risk assessment and guidance provided in this policy.

* Ward/Departmental Managers must ensure that nurses receive appropriate training and education in order to deliver on their responsibilities and accountabilities
* Training records are maintained locally

### Nurses

The pre-assessment nurses are responsible for risk assessing all elective surgical patients, attending the pre-operative assessment clinic.

The doctor will be responsible for prescribing relevant prophylaxis where applicable.

Nurses have a responsibility and are accountable for promoting patient safety and are responsible for monitoring the presence of a valid VTE risk assessment.

## Board and Committee Responsibilities

### Ratifying Board and Committee Responsibilities

* This policy will be approved at the Clinical Standards Committee meeting following trust wide consultation
* This policy will be ratified by Clinical Standards Committee
* The author will have responsibility for the development and review of this policy.

### Trust Board Responsibilities

The trust board has overall accountability and responsibility for ensuring there are safe systems of practice in place to enable the effective delivery of patient care.

### Executive Committee Responsibilities

The executive committee has the responsibility to ensure that Trust policies support operational practices, which result in the delivery of an effective service.

### Trust Thrombosis Committee

The Trust Thrombosis Committee will review the policy and use of VTE prophylaxis and monitor use in liaison with the directorates to ensure that VTE prophylaxis is of the expected standard.

# Training Requirements

* VTE thromboprophylaxis training is included on the mandatory training data set for all relevant clinical staff.
* Attendance at this training will be recorded via the Trust training database
* Healthcare professionals in direct contact with patients will be expected competence to adhere to the manufacturer’s instructions in fitting compression stockings. This can be delegated to other non trained member provided the healthcare professional is satisfied that the individual achieves the level of competence required
* All staff who have direct contact with patients will be required to update their knowledge regarding the prevention and management of VTE as care and practice changes
* Where training needs are identified the line manager will make sure that the appropriate training is sourced and undertaken.

# Monitoring and Compliance

Compliance and monitoring of this policy will be conducted via the following:

|  |  |  |  |
| --- | --- | --- | --- |
| Audit /  Quality Monitoring | Staff Responsible | Reporting to | Frequency |
| **Risk assessments:**  VTE risk assessment compliance audit using icare system  Monitoring of CQUIN target | Ward/unit managers | Group governance reporting framework  This is a patient safety dimension on the blox report  CQRG | Monthly |
| **Prophylaxis procedure when VTE is suspected:**  Snapshot analysis of patients received thromboprophylaxis as listed on the Electronic Prescribing system. | Anticoagulant Team | Hospital Thrombosis Committee and thereby to Drugs and Therapeutics Committee and Safety Committee | Quarterly |
| Review of all VTE’s registered in the Trusts anticoagulant clinics to determine whether there was a failure of inpatient thromboprophylaxis process | Anticoagulant Team | Hospital Thrombosis Committee and thereby to Drugs and Therapeutics Committee. | Continuous monitoring |
| **Management of patient when positive diagnosis has been made:**  Audit of patient’s case notes for evidence of adherence to this protocol. | Medical clinical audit | Local Directorate Audit Facilitator + Hospital Thrombosis Committee and thereby to Drugs and Therapeutics Committee and Safety Committee | Quarterly |
| **Training** | Faculty | Monitoring via corporate induction and mandatory training | Monthly |

# References

1. House of Commons Health Committee (2005). The prevention of venous thromboembolism in hospitalised patients, London:The Stationery Office.
2. NICE Clinical Guideline 92 (January 2010) Venous Thromboembolism: reducing the risk. http://guidance.nice.org.uk/CG92
3. NICE Clinical Guideline 46 (2007) Reducing the risk of venous thromboembolism (deep vein thrombosis and pulmonary embolism) in patients undergoing surgery. National Institute of Clinical Excellence. http://guidance.nice.org.uk/CG46
4. Department of Health Venous Thromboembolism (VTE) Risk assessment tool <http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_088215>
5. Venous thromboembolism: reducing the risk of venous thromboembolism (deep vein thrombosis and pulmonary embolism) in patients admitted to hospital. National Clinical Guideline Centre – Acute Published by the and Chronic Conditions (formerly the National Collaborating Centre for Acute Care) at The Royal College of Physicians of London,
6. Government Response to the House of Commons Health Committee Report on the Prevention of Venous Thromboembolism in Hospitalised Patients – Second Report of Session 2004–05

7. Prophylaxis of Venous Thromboembolism, SIGN Publication No. 62 <http://www.sign.ac.uk/guidelines/fulltext/62/index.html>

8. Clinical Guideline for the management of thromboprophylaxis in the antenatal, intrapartum and postnatal period.

# **Appendix 1: Risk Assessment and re-assessment procedure**

Identifying those at risk of developing a VTE is the first stage in VTE prophylaxis.

**A risk assessment should be completed for all adult patients admitted to the trust as an inpatient or surgical/ medical day case.**

* A VTE risk assessment should be carried out in Pre-Operative Assessment/ pre admission clinic for all elective patients. This can be performed up to 17 weeks prior to admission. Where a pre operative attendance does not occur this will be completed on the patients admission to hospital.
* If a risk assessment has not been done at pre-op it should be done on admission to ward or admission lounge. SAU is for surgical emergency patients not elective.
* If the patient is to be admitted, a VTE risk assessment will be completed no later than 24 hours of decision to admit and the recommended thromboprophylaxis prescribed.
* Nurses may assess patients provided that they are competent in assessing such patients for risk factors.
* DVT prophylaxis both pharmaceutical and mechanical compression stockings have to be prescribed by medically qualified personnel (**Appendix 4 and 5)**
* Risk assessment can be carried out by a qualified healthcare professional however; it is the responsibility of the prescriber to ensure that prescribing of DVT prophylaxis is appropriate and should check that the risk assessment is appropriate.
* A repeat assessment will be completed 72 hours after initial assessment.

**Planning for discharge**

* Offer patients and/or their families or carers verbal and written information (from the patient information database) on:

1. Signs and symptoms of DVT and PE
2. Importance of seeking medical help and who to contact if DVT, PE or other adverse event suspected.
3. If discharged with VTE prophylaxis, also offer patients and/or their families or carers information on:
   * Correct use and duration of VTE prophylaxis at home
   * Importance of using VTE at home correctly and for the recommended duration
   * Signs and symptoms of adverse events related to VTE prophylaxis
   * Who to contact if they have problems using VTE prophylaxis at home.
4. If discharged with anti-embolism stockings, ensure that the patient understands the

benefits of wearing them

1. Understands the need for daily hygiene removal
2. Is able to remove and replace the stockings or has someone who can do this
3. Knows what to look for, such as skin marking, blistering or discolouration, particularly over heels and bony prominences
4. Knows who to contact if there is a problem

**If discharged with pharmacological or mechanical VTE prophylaxis ensure that:**

1. The patient is able to use it or has someone who can do this
2. The patient’s GP is notified.

Information for patient is available on the Trust Patient Advice and and Information Database.

# Appendix 2: VTE Risk assessment tool

|  |
| --- |
| **Risk Assessment for Venous Thromboembolism** |

Step: 1**Risk assess all patients within 24 hours of decision to admit. A repeat assessment will be completed 72 hours after initial assessment or whenever clinical situation changes**

|  |
| --- |
| Surgical patient |
| Medical patient expected to have ongoing reduced mobility >3 days relative to normal state |
| Medical patient NOT expected to have significantly reduced mobility relative to normal |

Step: 2 **Assess Thromobosis (tick all the boxes that apply). Any tick should prompt thromboprophylaxis if no bleeding risk**

|  |  |
| --- | --- |
| Patient Related | Admission Related |
| |  | | --- | | Active cancer or cancer treatment | | Age> 60 | | Dehydration | | Known thrombophilias | | Personal history or first-degree relative with a history of VTE | | One or more significant medical comorbidities (e.g., heart disease, metabolic, endocrine or respiratory pathologies, acute infections, inflammatory conditions) | | Obesity (BMI >30 kg/m2) | | Use of hormone replacement therapy | | Use of oestrogen-containing contraceptive therapy | | Varicose veins with phlebitis | | Pregnancy or< 6 weeks post partum (see separate pregnancy risk assessment chart) | | |  | | --- | | Significantly reduced mobility for 3 days or more | | Hip or knee replacement | | Hip fracture | | Total anaesthetic + surgical time > 90 minutes | | Surgical involving pelvis or lower limb with a total anaesthetic + surgical time > 60 minutes | | Acute surgical admission with inflammatory or intra-abdominal condition | | Critical care admission | | Surgery with significant reduction in mobility | | Any additional VTE risk factors considered significant by clinicians | | No significant risk factor | |

Step: 3**Assess Bleed Risk (tick all the boxes that apply). If bleeding risk sufficient omit pharmacological prophylaxis**

|  |  |
| --- | --- |
| Patient Related | Admission Related |
| |  | | --- | | Active bleeding | | Acquired bleeding disorder (e.g. acute liver failure) | | Concurrent use of anticoagulants known to increase the risk of bleeding (such as warfarin with INR>2) | | Acute Stroke | | Thrombocytopaenia (platelets < 75x109/l) | | Uncontrolled systolic hypertension, (=230/120mmHg) | | Untreated inherited bleeding disorders e.g. haemophilia and von Willebrand's disease | | |  | | --- | | Neurosurgery, spinal surgery or eye surgery | | Other procedure with high bleeding risk | | Lumbar puncture/epidural/spinal anaesthesia expected within next 12 hours | | Lumbar puncture/epidural/spinal anaesthesia expected within next 4 hours | | Any additional bleeding risk factors considered significant by clinicians | | No significant risk factor | |

Step: 4**Prescribe Thromboprophylaxis (please tick type given)**

|  |
| --- |
| Pharmacological thromboprophylaxis (Enoxaparin) |
| Mechanical thromboprophylaxis (caution peripheral vascular disease) |
| None |

# Appendix 3 Preferred types of Thromboprophylaxis

1. **Low Molecular Weight Heparin (see trust guideline ‘Low molecular weight Heparin’)**

* The trust’s Low Molecular Weight Heparin of choice is Enoxaparin (Clexane, Sanofi-Aventis). For prescribing information see BNF and summary of Product Characteristics (SPC).
* <http://www.medicines.org.uk/EMC/medicine/12847/SPC/Clexane+Syringes+and+Clexane+Multidose+Vial>
* Low molecular weight Heparin in contraindicated in patients with renal failure or a history of Heparin-induced thrombocytopenia (HIT).
* Low Molecular Weight Heparin is only licensed to be given in abdomen or thigh and therefore should not be given in any other site.

1. **Unfractionated Heparin**

* Unfractionated heparin is used in patients with severe renal impairment who are assessed to receive thromboprophylaxis (See BNF and SPC).
* Unfractionated Heparin in contraindicated in patients with a history of Heparin-induced thrombocytopenia (HIT).

3. **Oral Direct Thrombin / Factor Xa inhibitors (Dabigatran, Rivaroxaban).**

These are both currently licensed only for thromboprophylaxis following hip and knee arthroplasty. For further information see BNF and SPC’s

**4. Important exceptions and considerations**

Some patients will be taking oral anticoagulants (usually warfarin) prior to admission.All such patients admitted routinely should have a plan for management of anticoagulation. If warfarin is continuing during admission, patients do not need additional thromboprophylaxis.

If warfarin is discontinued for example peri-operatively, then thromboprophylaxis should be considered until oral anticoagulation is re-instituted and therapeutic.

# Appendix 4: Guide for mechanical prophylaxis

Base the choice of mechanical VTE prophylaxis on clinical condition, surgical procedure and patient preference. Choose any one of:

• Anti-embolism stocking (thigh or knee length depending on Trust standard)

• Foot impulse devices

• Intermittent pneumatic compression devices (thigh or knee length depending on Trust standard)

**Anti-embolism stockings**

1. **Do not offer** anti-embolism stockings to patients with:

* Suspected or proven peripheral arterial disease
* Peripheral arterial bypass grafting
* Peripheral neuropathy or other causes of sensory impairment
* Local condition in which stockings may cause damage, such as fragile ‘tissue paper’ skin, dermatitis, gangrene or recent skin graft
* Known allergy to material of manufacture
* Cardiac failure
* Severe leg oedema or pulmonary oedema from congestive heart failure
* Unusual leg size or shape
* Major limb deformity preventing correct fit.
* Use caution and clinical judgement when applying anti-embolism stockings over venous ulcers or wounds.

1. Measure legs and use correct stocking size. Staff who fit stockings should be trained in their use and should show patients how to use them.
2. If oedema or postoperative swelling develops, ensure legs are re-measured and stockings refitted.
3. If arterial disease suspected, seek expert opinion before fitting stockings.
4. Use stockings that provide graduated compression and produce a calf pressure of 14–15 mmHg.
5. Encourage patients to wear the stockings day and night from admission until they no longer have significantly reduced mobility.
6. Remove stockings daily for hygiene purposes and to inspect skin condition. If patient has significant reduction in mobility, poor skin integrity or sensory loss, inspect skin two or three times per day, particularly over heels and bony prominences.
7. Discontinue use of stockings if there is marking, blistering or discolouration of skin, particularly over heels and bony prominences, or if patient has pain or discomfort. If suitable, offer intermittent pneumatic compression or foot impulse devices as alternative.
8. Show patients how to use anti-embolism stockings correctly and ensure they understand that this will reduce their risk of developing VTE.
9. Monitor use of anti-embolism stockings and offer assistance if they are not being worn correctly.

**Foot impulse and intermittent pneumatic compression devices**

1. Do not offer these devices to patients with a known allergy to the material of manufacture.
2. Encourage patients on the ward who have these devices to use them for as much of the time as is possible and practical, both when in bed and when sitting in a chair.
3. Consider offering additional mechanical or pharmacological VTE prophylaxis if patient is at risk of VTE. Take into account risk of bleeding and of co morbidities such as arterial thrombosis.
4. If the risk of bleeding outweighs the risk of VTE, offer mechanical VTE prophylaxis.
5. Do not offer additional pharmacological or mechanical VTE prophylaxis to patients who are taking vitamin K antagonists and who are within their therapeutic range, providing anticoagulant therapy is continued.
6. Do not offer additional pharmacological or mechanical VTE prophylaxis to patients who are having full anticoagulant therapy (for example, fondaparinux sodium, LMWH or UFH).

# Appendix 5 Guidance on VTE prophylaxis

Does risk of VTE outweigh risk of bleeding

See separate pathway below

Yes

No

Prescribe Enoxaparin – Clexane (LMWH)

Dose below

(or UFH in renal failure)

Continue until patient no longer at increased risk of VTE

Prescribe anti-embolism stockings

(thigh or knee length)

Re-assess risks of bleeding and VTE within 24 hours of admission and whenever clinical situation changes

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin (100 units/mg)** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in General Medical Patients**

Duration – 7 days or until mobile whichever longer

Is pharmacological VTE prophylaxis? contraindicated

Yes

No

Has the patient been admitted for a stroke?

Yes

No

**Patients admitted for stroke**

Do **NOT** prescribe anti-embolism stockings

Risk of bleeding (haemqrrhagic transformation of stroke or bleeding into another site) low?

No

Considering offering foot impulse or intermittent pneumatic compression device until patient can have pharmacological VTE prophylaxis

Prescribe Prophylactic dose Enoxaparin (or UFH in renal failure)

Reassess within 24 hours of admission and whenever clinical situation changes

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in suspected stroke patients**

When acute event over and patients condition stable Stop Enoxaparin (Clexane) (or UFH in renal failure)

Does patient have major restriction of mobility, previous history of VTE, dehydration or co-morbidity (such as malignant disease?

Yes

Haemorrhagic stroke excluded?

Yes

No

No

Yes

Balance the risks of VTE and bleeding before offering VTE prophylaxis

Offer Enoxaparin (Clexane)

(or UHF in renal failure)

Continue until patient no longer at increased risk of VTE

If patient having oncological treatment and ambulant ?

Do not routinely offer pharmacological or mechanical VTE prophylaxis

Reassess with 24 hours of admission and whenever clinical situation changes

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Medical patients with cancer or a central venous catheter**

Is patient ambulant?

Patients with cancer

Patients with central venous catheters

Do not routininely offer pharmacological or mechanical VTE prophylaxis

Yes

No

VTE risk increased?

Yes

No

Yes

No

VTE risk increased?

Offer Enoxaparin (Clexane)

(or UHF in renal failure)

Yes

No

Balance the risks of VTE and bleeding before offering VTE prophylaxis

Patients in palliative care

Considering offering

Enoxaparin (Clexane)

(or UHF in renal failure)

If patient has potentially reversable acute pathology

Do not offer pharmacological or mechanical VTE prophylaxis

Review decisions about VTE prophylaxis daily, taking into account potential risks and benefits and views of the patient, family and/or carers.

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Medical patients in palliative care**

If patient in terminal care of end of life pathway

Balance the risks of VTE and bleeding before offering VTE prophylaxis

**Gastrointestinal Surgery**

Offer mechanical prophylaxis at admission. Continue until mobility no longer significantly reduced

Is VTE risk increased ?

Offer mechanical prophylaxis at admission. Continue until mobility no longer significantly reduced

Add Enoxaparin (or UFH in renal failure)

Continue until mobility no longer significantly reduced (generally 5-7 days)

If major cancer surgery in abdomen or pelvis continue for 28 days

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Surgical Patients (excluding Orthopaedics)**

Is VTE risk increased ?

**Gynaecological, thorasic and urological surgery**

If risk of major bleeding low

If risk of major bleeding low

**All bariatric surgery**

Mechanical Prophylaxis include any one of:

* Anti-embolism stockings (thigh or knee length)
* Foot impulse devices
* Intermittent pneumatic compression devices (thigh or knee length

Balance the risks of VTE and bleeding before offering VTE prophylaxis

**Vascular Surgery**

Offer mechanical prophylaxis at admission.

If peripheral vascular disease present, seek expert opinion before fitting anti-embolism stockings

Continue until mobility no longer significantly reduced

Is VTE risk increased ?

Offer mechanical prophylaxis at admission. Continue until mobility no longer significantly reduced

**If major risk of bleeding is low**

Add Enoxaparin (or UFH for patients with renal failure)

Continue until mobility no longer significantly reduced (generally 5-7 days) including after discharge in day case patients

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Surgical Patients (excluding Orthopaedics)**

Is VTE risk increased ?

**Other surgery**

**Day surgery**

Is VTE risk increased ?

Mechanical Prophylaxis include any one of:

* Anti-embolism stockings (thigh or knee length)
* Foot impulse devices
* Intermittent pneumatic compression devices (thigh or knee length

Balance the risks of VTE and bleeding before offering VTE prophylaxis

**Elective Hip Replacement**

1-12 hours after surgery

Provided there are no contraindications, commence pharmacological VTE prophylaxis

Continue for 28-35 days

At Admission

Offer mechanical VTE prophylaxis

Continue until mobility no longer significantly reduced

1-12 hours after surgery

Provided there are no contraindications, commence pharmacological VTE prophylaxis

Continue for 10-14 days

Phamacological VTE Prophylaxis

* Enoxaparin starting 6-12 hours post surgery
* Dabigatran starting 1-4 hours post surgery
* Rivaroxaban starting 6-10 hours post surgery

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Orthopaedic Surgery (1)**

At Admission

Offer mechanical VTE prophylaxis

Continue until mobility no longer significantly reduced

**Elective Knee Replacement**

1 Mechanical Prophylaxis include any one of:

* Anti-embolism stockings (thigh or knee length)
* Foot impulse devices
* Intermittent pneumatic compression devices (thigh or knee length

Balance the risks of VTE and bleeding before offering VTE prophylaxis

Hip Fracture

6 – 12 hours post surgery

Restart Enoxaparin (Clexane)

(or UHF in renal failure)

Continue for 28-35 days

At Admission

Offer mechanical VTE prophylaxis1

Continue until mobility no longer significantly reduced

If no contraindications give Enoxaparin (or UFH in renal failure).

6 – 12 hours post surgery

Restart Enoxaparin (Clexane)

(or UHF in renal failure)

Continue both mechanical and enoxaparin prophylaxis until mobility no longer significantly reduced

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Orthopaedic Surgery (2)**

Other Orthopaedic Surgery

STOP Enoxaparin 12 hours pre surgery

At admission

Assess patients risk of VTE

If VTE risk increased:

Offer mechanical VTE prophylaxis1

(Upper limb surgery – Do not routinely offer VTE prophylaxis)

1 Mechanical Prophylaxis include any one of:

* Anti-embolism stockings (thigh or knee length)
* Foot impulse devices
* Intermittent pneumatic compression devices (thigh or knee length

Balance the risks of VTE and bleeding before offering VTE prophylaxis

**Patient admitted with major injury**

Assess VTE risk – If increased

Give Enoxaparin (or UHF in renal failure)

Continue until plaster cast removed

Offer mechanical VTE prophylaxis1 at admission or as soon as clinically possible

Continue until mobility no longer significantly reduced

**Patient having lower limb plaster cast**

|  |  |
| --- | --- |
| **Body weight** | **Enoxaparin Dose** |
| <50 kg | 20 mg once daily |
| 50 - 90 kg | 40 mg once daily |
| 91 - 130 kg | 60 mg once daily |
| 131 - 170 kg | 80 mg once daily |
| >170 kg | 0.6 mg/kg/day |

**DoH/ NICE pathway for Thromboprophylaxis in Trauma**

**Patient admitted with spinal injury**

Assess patients risks of VTE and Bleeding

If risk of VTE outweighs risk of bleeding and bleeding risk is low

Give Enoxaparin (or UFH in renal failure)

Continue until mobility no longer significantly reduced

Regularly re assess risks of VTE and bleeding

1 Mechanical Prophylaxis include any one of:

* Anti-embolism stockings (thigh or knee length)
* Foot impulse devices
* Intermittent pneumatic compression devices (thigh or knee length

Pathway for Thromboprophylaxis in pregnancy and up to 6 weeks post partum

See Trust Clinical Guideline for the management of thromboprophylaxis in the antenatal, intrapartum and postnatal period.

**Appendix 7 :**

**Equality Impact Assessment (EIA)**

It is not anticipated that this policy will have any impact on equality and diversity on ratification

**The following must be completed for all policies. Without them a policy will not be ratified. They should be sent as separate documents to the departmental gatekeeper for inclusion on the supporting documents section of the SharePoint Policy site.**

**Consultation and Ratification**

Policy draft circulated to GMD, clinical directors, head of nursing, Pharmacy clinical director, Thromboprophylaxis committee. For comments and improvement as necessary.

## Equality and Diversity - Policy Screening Checklist

|  |  |
| --- | --- |
| **Policy/Service Title: Policy for Venous Thromboembolism prophylaxis in adult inpatients** | **Directorate:** |
| **Name of person/s auditing/developing/authoring a policy/service:** | |
| **Aims/Objectives of policy/service: To ensure compliance to NICE Guidelines** | |

|  |
| --- |
| **Policy Content:**   * For each of the following check the policy/service is sensitive to people of different age, ethnicity, gender, disability, religion or belief, and sexual orientation? * The checklists below will help you to see any strengths and/or highlight improvements required to ensure that the policy/service is compliant with equality legislation. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Check for DIRECT discrimination against any group of SERVICE USERS:** | | | | | | | |
| **Question:** Does your policy/service contain any statements/functions which may exclude people from using the services who otherwise meet the criteria under the grounds of: | | **Response** | | **Action required** | | **Resource implication** | |
| **Yes** | **No** | **Yes** | **No** | **Yes** | **No** |
| **1.1** | Age? | X |  |  |  |  |  |
| **1.2** | Gender (Male, Female and Transsexual)? |  | **X** |  |  |  |  |
| **1.3** | Disability? |  | **X** |  |  |  |  |
| **1.4** | Race or Ethnicity? |  | **X** |  |  |  |  |
| **1.5** | Religious, Spiritual belief (including other belief)? |  | **X** |  |  |  |  |
| **1.6** | Sexual Orientation? |  | **X** |  |  |  |  |
| **1.7** | Human Rights: Freedom of Information/Data Protection |  | **X** |  |  |  |  |
| If yes is answered to any of the above items the policy/service may be considered discriminatory and requires review and further work to ensure compliance with legislation. | | | | | | | |
| **2. Check for INDIRECT discrimination against any group of SERVICE USERS:** | | | | | | | |
| **Question:** Does your policy/service contain any statements/functions which may exclude employees from operating the under the grounds of: | | **Response** | | **Action required** | | **Resource implication** | |
| **Yes** | **No** | **Yes** | **No** | **Yes** | **No** |
| **2.1** | Age? |  | **X** |  |  |  |  |
| **2.2** | Gender (Male, Female and Transsexual)? |  | **X** |  |  |  |  |
| **2.3** | Disability? |  | **X** |  |  |  |  |
| **2.4** | Race or Ethnicity? |  | **X** |  |  |  |  |
| **2.5** | Religious, Spiritual belief (including other belief)? |  | **X** |  |  |  |  |
| **2.6** | Sexual Orientation? |  | **X** |  |  |  |  |
| **2.7** | Human Rights: Freedom of Information/Data Protection |  | **X** |  |  |  |  |
| If yes is answered to any of the above items the policy/service may be considered discriminatory and requires review and further work to ensure compliance with legislation. | | | | | | | |
| **TOTAL NUMBER OF ITEMS ANSWERED ‘YES’ INDICATING DIRECT DISCRIMINATION =** | | | | | | | |
| **3. Check for DIRECT discrimination against any group relating to EMPLOYEES:** | | | | | | | |
| **Question:** Does your policy/service contain any conditions or requirements which are applied equally to everyone, but disadvantage particular persons’ because they cannot comply due to: | | **Response** | | **Action required** | | **Resource implication** | |
| **Yes** | **No** | **Yes** | **No** | **Yes** | **No** |
| **3.1** | Age? |  | **X** |  |  |  |  |
| **3.2** | Gender (Male, Female and Transsexual)? |  | **X** |  |  |  |  |
| **3.3** | Disability? |  | **X** |  |  |  |  |
| **3.4** | Race or Ethnicity? |  | **X** |  |  |  |  |
| **3.5** | Religious, Spiritual belief (including other belief)? |  | **X** |  |  |  |  |
| **3.6** | Sexual Orientation? |  | **X** |  |  |  |  |
| **3.7** | Human Rights: Freedom of Information/Data Protection |  | **X** |  |  |  |  |
| If yes is answered to any of the above items the policy/service may be considered discriminatory and requires review and further work to ensure compliance with legislation. | | | | | | | |
| **4. Check for INDIRECT discrimination against any group relating to EMPLOYEES:** | | | | | | | |
| **Question:** Does your policy/service contain any statements which may exclude employees from operating the under the grounds of: | | **Response** | | **Action required** | | **Resource implication** | |
| **Yes** | **No** | **Yes** | **No** | **Yes** | **No** |
| **4.1** | Age? |  | **X** |  |  |  |  |
| **4.2** | Gender (Male, Female and Transsexual)? |  | **X** |  |  |  |  |
| **4.3** | Disability? |  | **X** |  |  |  |  |
| **4.4** | Race or Ethnicity? |  | **X** |  |  |  |  |
| **4.5** | Religious, Spiritual belief (including other belief)? |  | **X** |  |  |  |  |
| **4.6** | Sexual Orientation? |  | **X** |  |  |  |  |
| **4.7** | Human Rights: Freedom of Information/Data Protection |  | **X** |  |  |  |  |
| If yes is answered to any of the above items the policy/service may be considered discriminatory and requires review and further work to ensure compliance with legislation. | | | | | | | |
| **TOTAL NUMBER OF ITEMS ANSWERED ‘YES’ INDICATING INDIRECT DISCRIMINATION =** | | | | | | | |

# 

**Signatures of authors / auditors: Date of signing:**

**Equality Action Plan/Report**

|  |
| --- |
| **Directorate:** |

|  |
| --- |
| **Service/Policy: Policy for Venous Thromboembolism prophylaxis in adult inpatients** |

|  |
| --- |
| **Responsible Manager:** |

|  |
| --- |
| **Name of Person Developing the Action Plan: Thomas Russell** |

|  |
| --- |
| **Consultation Group(s): Surgical Directorate** |

|  |
| --- |
| **Review Date:** |

The above service/policy has been reviewed and the following actions identified and prioritised.

All identified actions must be completed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Action:** | **Lead:** | **Timescale:** |
| Rewriting policies or procedures |  |  |
| Stopping or introducing a new policy or service |  |  |
| Improve /increased consultation |  |  |
| A different approach to how that service is  managed or delivered |  |  |
| Increase in partnership working |  |  |
| Monitoring |  |  |
| Training/Awareness Raising/Learning |  |  |
| Positive action |  |  |
| Reviewing supplier profiles/procurement  arrangements |  |  |
| A rethink as to how things are publicised |  |  |
| Review date of policy/service and EIA: this  information will form part of the Governance  Performance Reviews |  |  |
| If risk identified, add to risk register. Complete an  Incident Form where appropriate. |  |  |

**When completed please return this action plan to the Trust Equality and Diversity Lead; Pamela Chandler or Jane Turvey. The plan will form part of the quarterly Governance Performance Reviews.**

|  |  |  |  |
| --- | --- | --- | --- |
| Signed by Responsible Manager: |  | Date: |  |

## Approval/Ratification Checklist

|  |  |
| --- | --- |
| **Title** | **Policy for Venous Thromboembolism prophylaxis in inpatients.** |

|  |  |  |
| --- | --- | --- |
|  | **Ratification checklist** | **Details** |
| 1 | Is this a: Combined Policy & Procedure | |
| 2 | Is this: New | |
| 3\* | Format matches Policies and Procedures Template (Organisation-wide) | yes |
| 4\* | Consultation with range of internal /external groups/ individuals | Maria McKenzie (Corporate Nursing)  Misra Budhoo (Clinical Director for Surgery)  Chris Wright (General Surgery Matron) |
| 5\* | Equality Impact Assessment completed | Yes |
| 6 | Are there any governance or risk implications? (e.g. patient safety, clinical effectiveness, compliance with or deviation from National guidance or legislation etc) | Compliance with NICE clinical guideline 92 |
| 7 | Are there any operational implications? | Roll out planned trustwide to ensure uniformity of assessment. |
| 8 | Are there any educational or training implications? | Current practice is incorporated in this guidance. Risk assessment tool is new but easy to follow. |
| 9 | Are there any clinical implications? | Current in patient prophylaxis already in use |
| 10 | Are there any nursing implications? | Nursing roles already include instructions on use of anti embolism stockings and administering of prophylaxis. Role for training patient in extended prophylaxis |
| 11 | Does the document have financial implications? | Printing costs and for developing of electronic version |
| 12 | Does the document have HR implications? | None envisaged |
| 13\* | Is there a launch/communication/implementation plan within the document? | E-mail circulation to all relevant staff involved in assessing and prescribing DVT prophylaxis. |
| 14\* | Is there a monitoring plan within the document? | Yes managed by Neil Smith and anticoag nurses |
| 15\* | Does the document have a review date in line with the Policies and Procedures Framework? | Yes Jan 2011 |
| 16\* | Is there a named Director responsible for review of the document? | Clinical Director for Surgery |
| 17\* | Is there a named committee with clearly stated responsibility for approval monitoring and review of the document? | Surgical Quality and Safety Committee |

Document Author / Sponsor

Signed ……………………… ………….…………

Title…………………………………………………

Date…………………….………….………….……

**Approved** by (Chair of Trust Committee or Executive Lead)

Signed ……………………… ………….…………

Title…………………………………………………

Date…………………….………….………….……

**Ratified** by (Chair of Trust Committee or Executive Lead)

Signed ……………………… ………….…………

Title…………………………………………………

Date....................................................................

## Launch and Implementation Plan

To be completed and attached to any document which guides practice when submitted to the appropriate committee for consideration and approval.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Action*** | ***Who*** | ***When*** | ***How*** |
| Identify key users / policy writers | Qualified Nurses  Medical Staff | June 2009  June 2009 | SSNT, Meeting with relevant nursing staff  Via Email |
| Present Policy to key user groups | SSNT  Quality and Safety Committee | June 2009  July 2009 | Presented to SSNT  Presented to Quality and Safety Committee |
| Add to Policies and Procedures intranet page / document management system. | Safety & Governance |  | Upload onto Trust intranet site |
| Offer awareness training / incorporate within existing training programmes |  |  |  |
| Circulation of document(paper) |  |  | N/A |
| Circulation of document(electronic) | Gatekeeper (Nursing) | Following Ratification | Converted into PDF then loaded onto system, link circulated |