APPENDIX 1: ORTHOPAEDICS & TRAUMA VENOUS GUIDELINE FOR ADULTS (≥16 YEARS) (for use in co	
For EVERY Patient (see overleaf): CONSIDER MECHANICAL PROPHYLAXIS – please tick □ Anti-Embolic Stockings / □ Flowtron (Intermittent PC) / □ Foot Impulse Device Establish if VTE prophylaxis required using flow chart below Give patient VTE information Review VTE Prophylaxis every 48 hours	Write or attach label CHI No: Surname: Forename: Address: Date of Birth:
<ol> <li><u>THROMBOSIS RISK FACTORS</u> (tick all that apply)</li> <li>Patient Related         <ul> <li>Age &gt;60 years of age</li> <li>Dehydration</li> <li>Obesity (BMI &gt;30kg/m<sup>2</sup>)</li> <li>Any significant medical illness (e.g. heart, metabolic, endocrine, or respiratory disease; acute infection; inflammatory condition)</li> <li>Use of hormone replacement therapy</li> <li>Use of oestrogen-containing contraceptive</li> <li>Active cancer or cancer treatment</li> <li>Known thrombophilias</li> <li>Pregnancy or &lt;6 weeks post-partum</li> <li>Varicose veins with phlebitis</li> <li>Personal history or first degree relative with a history of VTE</li> <li>Any admissions or illnesses <u>YES / NO / N.A.</u></li> </ul> </li> </ol>	Admission Related         Significantly reduced mobility for 3 days or more         Surgery with significant reduction in mobility         Critical care admission e.g. HDU/ITU         Hip or knee replacement         Hip fracture         Total anaesthetic + surgical time > 90 minutes         Surgery involving pelvis or lower limb with a total anaesthetic + surgical time > 60 minutes         Acute surgical admission with inflammatory or intra-abdominal condition         Achilles tendon rupture         Ankle fracture with splint/cast + non weight-bearing         Lower limb injury with splint/cast + non weight-bearing
At least one risk factor present	NO risk factors present           VTE thromboprophylaxis not required           Early mobilisation           Consider mechanical prophylaxis
CONTRAINDICATIONS (tick all that apply) Patient Related     Active bleeding     Recent stroke     Acute gastro-duodenal ulcer     Acute bacterial endocarditis     Known hypersensitivity (including HIT)     Thrombocytopaenia (Platelets <75x10 <sup>9</sup> /L)     Concurrent use of oral anticoagulants – see main guideline     Concurrent use of oral dual antiplatelets–see main guideline     Concurrent use of therapeutic heparin     Untreated inherited bleeding disorders e.g. haemophilia,     von Willebrand disease     Acquired bleeding disorders e.g. acute liver failure     Uncontrolled hypertension ≥230/120 mmHg	
NO contra-indications present	At least one contra-indication present
Prescribe VTE prophylaxis         Image: No risk factors: VTE prophylaxis not required         Image: Risk factor(s): subcutaneous dalteparin/ Oral aspirin 150 rivaroxaban 10mg (see over for treatment pathways)         Image: Patient declined prophylaxis	Do not prescribe VTE thromboprophylaxis  Consider mechanical prophylaxis  Document in notes if not prescribed for any other reason
	Signature SMC / NMC No

## ORTHOPAEDICS / TRAUMA THROMBOPROPHYLAXIS FOR ADULTS (>16 YEARS)

**Disclaimer if declining VTE Prophylaxis** 

I confirm that the risk of deep venous thrombosis and pulmonary embolus has been discussed with me. I wish to decline the recommended prophylaxis.

Print Name

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Mechanical Prophylaxis:** 

- Apply on admission and continue until there is a return to the pre-morbid level of mobility
- Contraindications: Pulmonary oedema, Peripheral vascular disease, Peripheral arterial disease, Cellulitis, Leg 0 oedema, Leg/foot ulceration, Pressure sore, Peripheral neuropathy, Local leg conditions i.e. dermatitis, extreme deformity; acute stroke
- Advice on how to apply correctly and recommended wear should be given to the patient
- Intermittent Pneumatic Compression (IPC) devices (Flowtron®) or foot impulse devices should be applied perioperatively

Emergency Admission/Trauma	<b>Pelvic fracture</b> - Dalteparin 5000 units <sup>#</sup> subcutaneously 6-12 hours post-operatively then once daily subcutaneously for 28 days. Withhold 12 hours prior to surgery.
	<b>Hip Fracture</b> - Dalteparin 5000 units <sup>#</sup> subcutaneously 6-12 hours post-operatively then once daily subcutaneously for 35 days. Withhold 12 hours prior to surgery.
	Spinal Injury Patients are treated as per Local Spinal Injuries Policy
Elective Total Hip replacement	<b>First line</b> : Dalteparin 5000 units <sup>#</sup> subcutaneously 6-8 hours post-operatively then once daily subcutaneously for 35 days.
	<b>Second Line:</b> Dalteparin 5000 units <sup>#</sup> subcutaneously 6-8 hours post-operatively then once daily for 10 days and then Aspirin 150mg once daily for a further 28 days
Elective Total Knee replacement	First Line: Dalteparin 5000 units <sup>#</sup> subcutaneously 6-8 hours post-operatively then once daily subcutaneously for 14 days
	Second line: Aspirin 150mg once daily for 14 days.
Other elective/trauma admissions	Dalteparin 5000 units <sup>#</sup> subcutaneously 6-8 hours post-operatively then once daily until discharge/mobile.
Consider additional predisposing risk factors – see risk assessment tool	Extended prophylaxis should be considered for patients with additional predisposing risk factors.
Outpatients and Day Surgery patients treated for lower limb injuries that require them to be non- weight bearing	<b>First Line</b> : Rivaroxaban 10mg orally, once daily for period of immobility (maximum 35 days)
	<b>Second Line</b> : Dalteparin (see section 8.1 in main guideline for dosing information) subcutaneously, once daily for period of immobility (maximum 35 days)

## DO NOT GIVE LMWH if Epidural/Spinal Anaesthesia/Lumbar Puncture in previous 4 hours or expected within next 12 hours

# Dalteparin dose: If patient weight <50kg consider reducing dose to 2500 units. If patient weight 100-150kg consider increasing dose to 5000 units twice daily. If patient weight > 150kg consider increasing dose to 7500 units twice daily. In patients with eGFR < 30ml/min refer to main guideline for dosing information

## **General measures:**

- Facilitate early mobilisation as soon as possible
- Ensure adequate hydration
- Reassess VTE risk and bleeding risk regularly, review treatment plan where appropriate and document any changes in notes
- Do not offer VTE prophylaxis to patients on full anticoagulant therapy
- Patients on established anti-platelet therapy
  - Assess risks and benefits of stopping
  - Do not regard ant-platelet therapy as adequate VTE thromboprophylaxis 0

Reference: ADTC 250A1/02 Supersedes: ADTC 250A1/01 Page 2 of 2 Written by: Mr A Tanagho, Consultant Orthopaedic Surgeon and K Griffiths Senior Pharmacist, on behalf of SLWG Date updated: December 2022 Date approved: 03 February 2023 (minor amendments 09/05/23) Review date: February 2026