

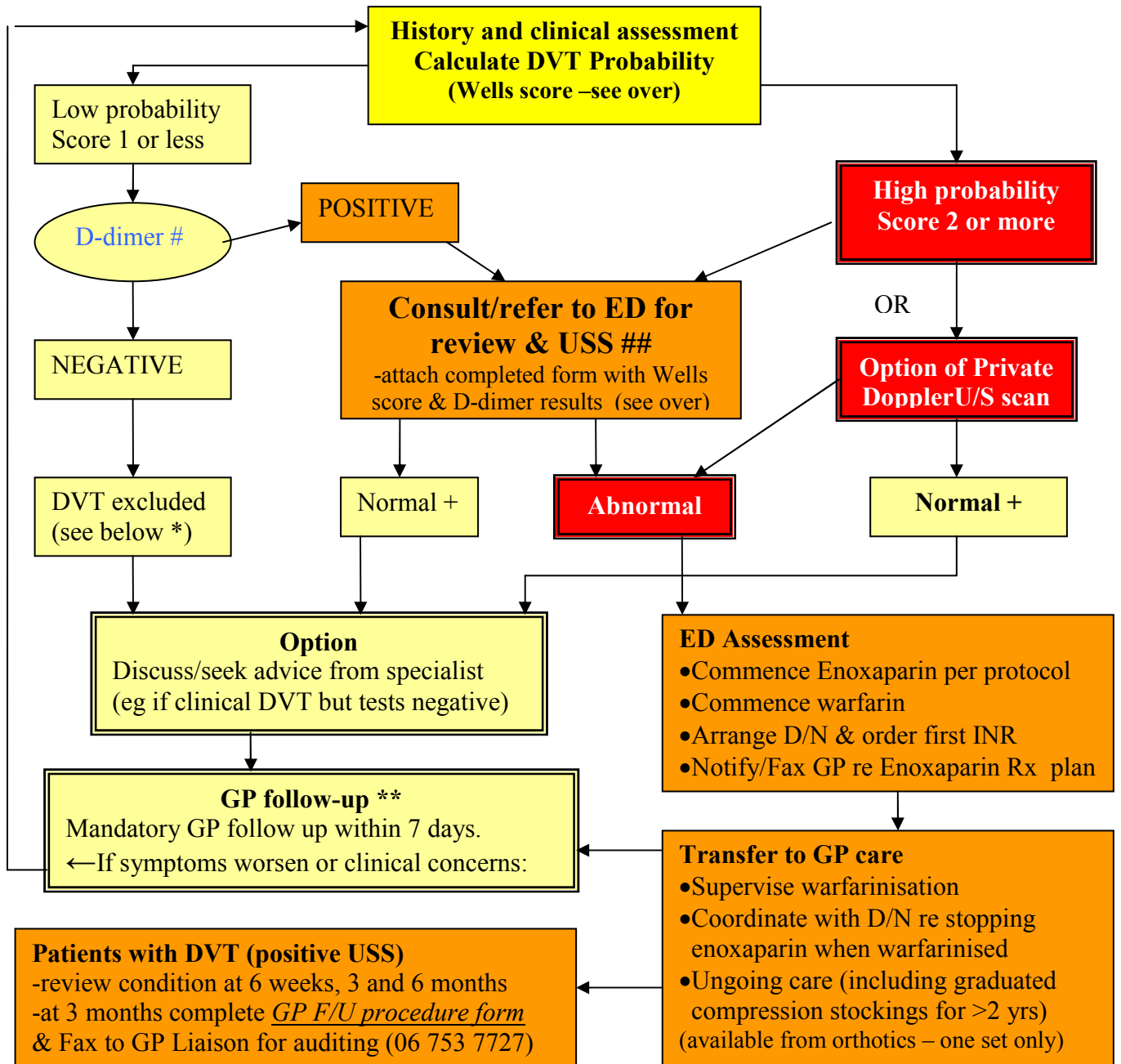
<p><u>Investigation Advice</u></p> <p><u>High Probability of a DVT</u></p> <p>Clinical score 2 or more, OR low clinical score plus positive D-dimer.</p> <ul style="list-style-type: none"> • ALL cases should undergo ultrasound scanning. • ALL cases of DVT are referred to ED. • If DVT has not been confirmed by ultrasound, then: <ul style="list-style-type: none"> ❖ HIGH CLINICAL RISK with negative D-dimer. Some may need referral for further investigation (venography), while those not admitted require a repeat USS within 7 days. Despite a normal USS, the likelihood of DVT in this group can be as much as 5 – 18% over 3 months. However the overall risk of DVT following two normal USS within 7 days is low. ❖ LOW CLINICAL RISK with positive D-dimer GP to clinically review within 7 days with a repeat clinical score. According to result follow with either D-dimer or repeat Doppler USS. Follow-up as per algorithm. Those with ongoing symptoms should be followed up with D-Dimer & USS if appropriate. <p>REFERENCES: www.sign.ac.uk/guidelines/fulltext/36/section2.html www.bcsghguidelines.com/pdf/OutpatientDVT211003.pdf <i>Acknowledgements to Waitemata Primary Options</i></p>	<p><u>Low Probability of a DVT</u></p> <p>Clinical score of 1 or less AND a negative D-dimer. These patients do not require any further investigation to exclude DVT (unless their symptoms worsen in which case they will require re-assessment). However, close follow up is important over the following 3 months.</p> <p><i>Prior to being sent home, all patients in this group require education regarding the following:</i></p> <ol style="list-style-type: none"> 1. Advice about the signs and symptoms of pulmonary embolus or worsening DVT, and what to do about it should they have any concerns. 2. Repeat assessment within 7 days to review with further telephone contact again at 6 weeks and 3 months. Patients with worsening symptoms require careful re-evaluation & repeat investigation as indicated – either D-dimer or USS. <p><i>Patients with Persistent Symptoms</i> All patients with persisting symptoms at follow up require further assessment. This means repeating the clinical score and following with either D-dimer or USS. <i>NB. This is a guideline only. Go with your clinical judgement and refer if clinical suspicion of DVT despite negative tests.</i></p> <p>This advice on the investigation of suspected DVT is consistent with accepted best practice.</p>
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Complete Clinical Risk Assessment

Risk Factor Assessment (using Modified Wells Criteria Score)	If yes add	Score	Exclusions	
Active cancer (treatment in past 6 mths or palliative)	1		<p><i>The following have not yet been validated for use with the clinical score assessment, and if present, consider Doppler ultrasound:</i></p> <ul style="list-style-type: none"> • UNDER 18 YEARS OF AGE • PREGNANCY • ORAL CONTRACEPTION • LONG HAUL AIR TRAVEL • PREVIOUS DVT OR P.E.* <p><i>* All patients with previous DVT/PE are considered “high risk” and as well as undergoing USS, referral to hospital for further assessment is recommended regardless of the US result.</i></p>	
Paralysis, paresis or recent immobilisation lower limb	1			
Recent immobilisation >3 days, or major surgery in last 12 weeks	1			
Localised tenderness along distribution of deep veins	1			
Calf swelling > 3cm compared asymptomatic side (measured at 10 cm below tibial tuberosity)	1			
Pitting oedema confined to symptomatic leg	1			
Distended non varicose superficial veins on symptomatic side	1			
Previously documented DVT	1			
Entire leg swollen	1			
Is alternative diagnosis as likely as, or more likely than DVT ?	Subtract 2			
Total Clinical Score				
<p><i>In patients with symptoms in both legs, the more symptomatic leg is used.</i></p> <p>Clinical probability of DVT is:</p> <ul style="list-style-type: none"> ➤ Unlikely if score is 1 or less. If D-dimer negative, DVT effectively excluded ➤ Likely if score is 2 or more -all cases undergo D-dimer. Refer for further assessment 				<p>Order urgent bloods for D-Dimer, FBC, APPT, INR, U&E, LFT, Creatinine & Albumin Do thrombophilia screen if patient <45 or recurrent thrombosis or FH of thrombosis. <i>(If done at Medlab mark result to be linked to hospital Labcare)</i></p> <p>Urgent D-Dimer: Result: _____</p>

**SUSPECTED LOWER LIMB DVT – GP INVESTIGATION/MANAGEMENT
ALGORITHM**

TARANAKI BASE HOSPITAL OCTOBER 2006.



NOTES: D-dimer is an effective **exclusion** test for DVT in low probability groups. However, a positive D-dimer does not reliably confirm the presence of DVT (raised also in infection, cancer, trauma, etc).

Calf DVT carries a low risk of PE. However, 20-30% of calf DVT may extend to proximal veins, which carries a **high probability** of PE, hence the need to investigate all suspected cases

Currently USS can only be ordered via ED or consultant. If sending patient to ED provide full details of clinical assessment, D-dimer, etc.

* Prevalence of DVT with **low probability** score & **negative D-dimer** is < 1% over 3 months

** **Low probability with positive D-dimer & negative USS:** < 6% will have DVT over next 3 months

+ If **high probability** score: 2 negative U/S within 7 days has negative predictive value of 98%

NB The full **DVT guideline & GP F/U procedure form** is available under GP Liaison/Guidelines on DHB website/intranet, or via Case Managers. A DVT patient information booklet will be provided to patients at ED. **To allow for audit of this protocol, please return completed F/U form at 6 month visit.**