

DEEP VEIN THROMBOSIS AND PULMONARY EMBOLISM (DVT/PE) MEDICATIONS*

Brand	Generic	Form(s)	Indication(s)	Adult Dosing
ANTICOAGULANTS				
COUMARINS				
Coumadin	warfarin	tabs inj	Prophylaxis and treatment of DVT or PE	Individualize. IV: give as slow bolus dose over 1–2min into a peripheral vein. Initially 2–5mg orally or IV daily. <i>Usual maintenance:</i> 2–10mg daily. Variations in CYP2C9 or VKORC1 enzymes: use lower initial dose. Adjust dose and interval to maintain target INR 2.5 (2–3).
DIRECT THROMBIN INHIBITORS				
Iprivask	desirudin	inj	DVT prophylaxis – hip replacement surgery	Administer 15mg SC inj (preferably in the abdomen or thigh) every 12hrs starting up to 5–15min before surgery (after induction of regional block anesthesia, if used); may continue for 9–12 days post-op.
FACTOR Xa INHIBITORS				
Arixtra	fondaparinux	inj	DVT prophylaxis – abdominal surgery; hip replacement or fracture surgery; knee replacement Acute DVT or PE (with warfarin)	2.5mg SC once daily (after hemostasis is established, no earlier than 6–8hrs post-op) for 5–9 days. <i>Abdominal:</i> max 10 days. <i>Hip or knee replacement:</i> max 11 days. <i>Hip fracture:</i> give for up to 24 more days (max 32 days total). (<50kg): 5mg; (50–100kg): 7.5mg; (>100kg): 10mg; for all: give SC once daily for at least 5 days (usually 5–9 days; max 26 days) until adequately anticoagulated with warfarin (INR 2–3); start warfarin within 72hrs.
Xarelto	rivaroxaban	tabs	Treatment of DVT, PE To reduce the risk of recurrence of DVT, PE following 6 months treatment DVT prophylaxis – hip or knee replacement	15mg twice daily for first 21 days for the initial treatment, then 20mg once daily for the remaining treatment and the long-term reduction in the risk of recurrence of DVT and PE 10mg once daily 6–10hrs after surgery once hemostasis established. <i>Hip:</i> 35 days. <i>Knee:</i> 12 days.
HEPARINS				
—	heparin sodium	inj	Postoperative DVT and PE low-dose prophylaxis – major abdominothoracic surgery or at risk of developing thromboembolic disease Prophylaxis and treatment of PE	<i>See literature.</i> >40yrs undergoing major surgery: 5000 Units SC (in the arm or abdomen) 2hrs before surgery and 5000 Units every 8–12hrs thereafter for 7 days or until the patient is fully ambulatory, whichever is longer. <i>See literature.</i> Individualize based on lab results and disease.
LOW MOLECULAR WEIGHT HEPARINS				
Fragmin	dalteparin	inj	DVT prophylaxis – abdominal surgery DVT prophylaxis – hip replacement DVT prophylaxis – medical patients Extended treatment of symptomatic VTE (proximal DVT/PE), to reduce the recurrence of VTE in cancer patients	2500 Units SC once daily 1–2hrs before surgery and repeated once daily postoperatively. <i>High risk:</i> 5000 Units SC evening before surgery then once daily after surgery OR 2500 Units SC 1–2hrs before surgery followed by 2500 Units SC 12hrs later, then 5000 Units SC once daily. <i>Usual duration of administration:</i> 5–10 days. <i>Post-op start:</i> 2500 Units SC 4–8hrs after surgery, then 5000 Units SC once daily. <i>Pre-op (day of surgery):</i> 2500 Units SC 2hrs before surgery, followed by 2500 Units SC 4–8hrs after surgery, then 5000 Units SC once daily. <i>Pre-op (evening before surgery):</i> 5000 Units SC 10–14hrs before surgery, followed by 5000 Units SC 4–8hrs after surgery, then 5000 Units once daily. <i>Usual duration of administration:</i> 5–10 days after surgery. 5000 Units SC once daily (usually for 12–14 days). 200 Units/kg SC once daily for 1 month, then 150 Units/kg SC once daily for 2–6 months; max 18,000 Units/day.
Lovenox	enoxaparin	inj	DVT prophylaxis – abdominal surgery DVT prophylaxis – hip replacement DVT prophylaxis – knee replacement DVT prophylaxis – medical patients Acute DVT with or without PE (inpatient) Acute DVT without PE (outpatient)	40mg SC once daily 2hrs prior to surgery for up to 12 days. 30mg SC every 12hrs or 40mg SC once daily starting 12hrs before surgery for up to 14 days. 30mg SC every 12hrs for up to 14 days. 40mg SC once daily for up to 14 days. <i>Inpatient:</i> 1mg/kg SC every 12hrs or 1.5mg/kg SC once daily for up to 17 days with warfarin; start warfarin within 72hrs. <i>Outpatient:</i> 1mg/kg SC every 12hrs for up to 17 days; with warfarin; start warfarin within 72hrs.
THROMBOLYTICS				
TISSUE PLASMINOGEN ACTIVATORS (tPA)				
Activase	alteplase	inj	Management of acute massive PE	100mg IV infusion over 2hrs. Concomitant use with heparin.

NOTES

DVT = deep vein thrombosis; inj = injection; PE = pulmonary embolism; SC = subcutaneous; tabs = tablets; VTE = venous thromboembolism
*Usual adult dosing based on manufacturers' PI. For more information see individual drug monographs. (Rev. 11/2012)