Antidote Generic Brand Year Mechanism Indications Route Half-life Excre-Monitoring Regional Metabo-Timing lism tion Rivaroxaban XARELTO 2011 Selective, non-Prevention of VTE P0 5-9 hrs None listed. Hepatic; Renal and None required. None officially. AT-III dependent and stroke CYP450 drug GI Rivaroxaban-cali-Possible value of brated PT or anti-Factor Xa inhibiinteractions Prothrombin Factor Xa assay complex concentor can be used. trate infusion 2011 P0 Tricagrelor BRILINTA P2Y₁₂ADP Reduce risk of throm-7 hrs for tri-Recommended to Hepatic: Hepatic None. None. receptor platelet botic events in cagrelor; 9 stop more than 5 CYP3A4/5 metaboinhibitor hrs for active patients with Acute days before surgery drug interaclism: no metabolite tions coronary syndrome renal excretion PRADAXA 2010 P0 12-17 hrs Dabigatran Direct thrombin Prevention of VTE None officially. Typi-Minimal Renal None required. None. Combina-Inhibitor and stroke cally wait 2-3 halfaPTT and thromtion of charcoal lives to allow drug bin time can proand dialysis to to be cleared. vide qualitative reduce drug coninformation. INR tent: blood transis not useful. fusions to control bleeding. P0 Renal and Prasugrel EFFIENT 2009 P2Y₁₂ ADP Reduce risk of throm-7 hrs (2-15 Recommended to Hepatic None. Platelet transfureceptor platelet botic events in hrs) stop 7-10 days GI sions inhibitor patients with Acute before surgery Coronary Syndrome (irreversible platelet managed by PCI inhibition) Desirudin **IPRIVASK** 2003 Thrombin Prophylaxis for VTE in SQ BID 2-4 hrs Initiate after Renal Renal aPTT No specific antiinhibitor dote: Blood tranship replacement regional anesthesia; Typically wait fusions are 2-3 half-lives prior appropriate: to pulling catheter; thrombin rich confirm aPTT plasma concentrates and DDAVP may be helpful Fondaparinux ARIXTRA 2001 Selective AT-III Prevention and treat-SQ Qday 17-21 hrs Remove catheter Minimal Renal None required. None officially. Anti-Xa levels Possible value of mediated Factor ment of VTE 36 hrs after last can measure Xa inhibitor dose; restart 12 hrs recombinant after pulling catheactivity. PT and Factor VIIa (with ter PTT are note transexamic acid) useful. Tinzaparin INNOHEP 2000 Low molecular Treatment of VTE SQ Qday 3-4 hrs Not listed. Desulphation Renal None required. Blood transfuweight heparin and depolyaPTT and PT are sions; protamine merization NOT useful for monitoring Lepirudin 1998 IV 1-2 hrs Renal aPTT REFLUDAN Thrombin Prophylaxis for VTE in Initiate after Catabolic No specific antiinhibitor patients with Heparegional anesthehydrolysis dote: Blood transrin-induced thrombosia; Typically wait fusions cytopenia 2-3 half-lives prior recommended; to pulling catheter; hemodialvsis mav confirm aPTT help AGRYLIN 1997 P0 1.3 hrs Anagrelide Platelet reducing Thrombocythemia, Increased Platelet Hepatic; Renal Platelet count Platelet transfu-CYP1A2 agent; cAMP reduce risk of thromcount in 4 days; sions PDEIII inhibitor bosis check Platelet count before procedure

Table 1. Listing of several relatively new anticoagulant and antithrombotic agents along with relevant pharmacologic data.