## Anti-coagulant drugs

Treatment of Thromboembolism						
	Normal dose range	eGFR (mL/min/1.73m²)				
		30–59	< 30			
Dalteparin	200 units/kg SC daily or 100 units/kg SC twice daily (consider if > 100kg)	100%	Reduce dose, but no recommendations; dose based upon anti-Xa levels. Consultation with a specialist recommended			
Enoxaparin	1 mg/kg SC twice daily or 1.5 mg/kg SC daily	100%; monitor for bleeding	1 mg/kg SC daily and consultation with a specialist recommended			
Tinzaparin	175 units/kg SC daily	100%	Reduce dose, but no recommendations. Use with caution. Consultation with a specialist recommended. Studies show no accumulation to 20 ml/min, but limited data in those with lower GFR.			
Nadroparin	171 U/kg SC daily (or 86 U/kg SC twice daily for those with increased risk of bleeding)	Decrease dose by 25-33%	Use contraindicated			
Rivaroxaban	15 mg PO BID x 3 weeks, then 20 mg PO daily	100%	Avoid			
Dabigatran	150 mg PO BID	100% 110 mg recommended in patients > 80 years old or > 75 years old, plus one other bleeding risk factor.	Avoid			
Apixaban	10 mg PO BID x 7 days then 5mg PO BID x 3 months minimum	100%	Use with caution at GFR 15- 29ml/min, and avoid with GFR <15 ml/min			
Edoxaban	60 mg PO daily	30 mg daily  Reduce dose for those with GFR 30-50 ml/min, body weight 60 KG or less, or concomitant use of P-Glycoprotein inhibitors (except Amiodarone and Verapamil)	Avoid			

The Chronic Kidney Disease (CKD) Clinical Pathway is a resource for primary care providers to aid in the diagnosis, medical management, and referral of adults with CKD.



## Anti-coagulant drugs

## Thromboembolism prophylaxis eGFR (mL/min/1.73m<sup>2</sup>) Normal dose range 30-59 < 30 5000 units SC daily 100% Reduce dose, but no recommendations. Dalteparin Suggest monitoring Anti XA levels. Some data suggests no accumulation in eGFR < 30 ml/min for > 7 days 20-30 mg SC daily 40 mg SC daily or 30 mg SC 100% Enoxaparin twice daily( or 30-40 mg SC BID for high BMI) 100% Reduce dose, but no recommendations. 50-75 anti-Xa units/kg SC Tinzaparin Use with caution. Evidence suggests daily no accumulation down to 20 ml/min See alternate dosing for general and bariatric surgery 2850 - 5700 units SC daily Reduce dose by 25-Reduce dose by 25-33% Nadroparin depending on indication 33% (some suggest no change) 220 mg PO daily No adjustment Avoid. No Adjustment provided. This Dabigatran necessary unless population excluded from trials. GFR <50ml/min & taking concomitant P-Glycoprotein inhibitor 150 mg daily has been used in those with GFR 30-50 ml/min with hip and knee replacement Rivaroxaban 10 mg PO daily Avoid Use with caution and monitor for bleeding 30-59 15-30 < 15 2.5 mg PO BID 100% Caution, increased Avoid **Apixaban**





bleeding risk (CrCl < 30 ml/min were excluded from trials)

## Anti-coagulant drugs

Treatment of Atrial Fibrillation						
	Normal dose range	eGFR (mL/min/1.73m²)				
		> 50	30–50	< 30		
Dabigatran	150 mg PO BID	100%	100%; consider 110 mg PO BID in patients ≥ 80 years old, or those ≥ 75 years old & 1 bleeding risk factor	Avoid		
Rivaroxaban	20 mg PO daily	100%	15 mg PO daily	Avoid		
Apixaban	5 mg PO BID	100%	Dose reduction to 2.5 mg PO BID recommended for patients with two of the following: >80 years old, body weight < 60 kg, or Secr > 133umol/L	Avoid for GFR < 15 ml/min.  No dosage recommendations for those with GFR between 15 and 24 ml/min		
Edoxaban	60 mg PO daily	100%	30 mg PO daily recommended for those with one or more of the following: GFR 30-50 ml/min, body weight < 60 kg concomitant use of P-Glycoprotein inhibitors (except Amiodarone and Verapamil)	Avoid		

