

SUPPLEMENTAL MATERIAL

Table S1. Doses and common side effects of antiarrhythmic drugs and anticoagulants used in atrial fibrillation.

Antiarrhythmic/ Anticoagulant		Doses for Atrial Fibrillation	Toxicity	
Class	Drug		Non-cardiotoxicity	Cardiotoxicity
IA	Procainamide	IV Loading: up to 17 mg/kg at 20 to 50 mg/min or 100 mg every 5 min; administer until arrhythmia is controlled Maintenance IV: 1 to 4 mg/min CrCl 10-50: reduce continuous IV 25-50% CrCl <10: reduce continuous IV 50-75%	Positive ANA titer, lupus like syndrome	Hypotension
	Disopyramide	100-200 mg q 6 hr; maximum 800 mg/d (immediate release)	Anticholinergic	CHF exacerbation, TdP
	Quinidine	200-300 mg Q6 -8 hr maximum 600 mg t.i.d.	Thrombocytopenia, cinchonism, pruritus, rash	QRS prolongation, TdP
IC	Flecainide	50-100 mg b.i.d.; maximum 300-400 mg/d	Dizziness, headache, visual blurring,	1:1 atrial flutter, ventricular tachycardia, unmask Brugada pattern
	Propafenone	150-300 mg q 8hr (immediate release)	Metallic taste, dizziness	
II	Carvedilol	Immediate release: 3.125-25 mg b.i.d., extended release 10-80 mg/day daily	Dizziness, fatigue, weight gain, diarrhea	Bradycardia, heart block, hypotension
	Metoprolol	Oral:25-100 mg b.i.d.(immediate release) 50-400 mg daily (extended release) IV:2.5-5 mg over 2 min;repeat dose every 5 min as needed; maximum 15 mg	Dizziness, fatigue, depression	Bradycardia, heart block, hypotension
	Esmolol	IV loading dose: 500 mcg/kg over 1 min, follow by 50-300 mcg/kg/min	Dizziness, nausea	Bradycardia, heart block, hypotension
III	Amiodarone	IV: 300 mg over 1h, then 10-50 mg/h over 24 h Oral maintenance: 100-200 mg daily	Pulmonary, hepatitis, thyroid toxicity, photosensitivity, skin discoloration, nausea, ataxia, tremor, alopecia	Bradycardia
	Dronedarone	400 mg b.i.d.	Anorexia, nausea, hepatotoxicity	Bradycardia
	Dofetilide	CrCl>60:500 µg b.i.d., CrCl 40-60: 250 µg b.i.d., CrCl 20-39: 125 µg b.i.d.	Nausea, headache	TdP
	Ibutilide	IV 0.01 mg/kg (<60 kg) or 1 mg (≥60 kg) over 10 min	Nausea, headache	TdP
	Sotalol	Oral:80-120 b.i.d.; maximum 240 mg b.i.d. (daily dose if CrCl 30-60) IV: 75 mg b.i.d.; maximum 150 mg b.i.d. (daily dose if CrCl 40-60)	Fatigue, dizziness, dyspnea, weakness	Bradycardia, TdP
IV	Diltiazem	Oral:120-360 mg/d (3-4 divided doses in immediate release/ daily in extended release) IV 0.25 mg/kg bolus over 2 min , then 5-15 mg/h	Peripheral edema, dizziness,	Bradycardia, heart block, hypotension, vasodilation
	Verapamil	Oral: 40-480 mg/d (b.i.d. in immediate release/daily in extended release) IV: 0.075–0.15 mg/kg bolus over 2 min; then 0.005 mg/kg/min	Headache, gingival hyperplasia, fatigue, dizziness	Bradycardia, heart block, hypotension
Na/K ATPase inhibitor	Digoxin	IV loading 0.25-0.5 mg, repeat doses of 0.25 mg q 6 hr; maximum 1.5 mg per day, followed by oral maintenance dose of 0.125 to 0.25 mg daily	Nausea, visual disturbance	Bradycardia, heart block, ventricular arrhythmias
Factor Xa inhibitor	Apixaban	5 mg b.i.d. 2.5 mg b.i.d. if at least 2 of (age ≥80 years, BW 60 kg, or Cr ≥1.5 mg/dL) 2.5 mg b.i.d. when co-administered with Ritonavir	Nausea	Hemorrhagic shock
	Rivaroxaban	CrCl >50 mL/min: 20 mg daily CrCl 15 - 50 mL/min: 15 mg daily	Insomnia, pruritus	Hemorrhagic shock
	Edoxaban	60 mg daily 30 mg daily if met one of the following criteria; CrCL 30-50 mL/min, BW <60 kg, or concomitant use of azithromycin (P-glycoprotein inhibitors)	Rash, abnormal liver function tests	Hemorrhagic shock
Thrombin inhibitor	Dabigratan	CrCl >30 mL/min: 50 mg daily CrCl 15-30 mL/min: 75 mg daily	Dyspepsia	Hemorrhagic shock
Vitamin K antagonist	Warfarin	Titrate for INR goal 2-3	Diarrhea, bloating, rash	Hemorrhagic shock, vasculitis
Heparin	Unfractionated heparin	Bolus 60 to 80 units/kg (maximum: 5,000 units), followed by IV 12-18 units/kg/h (maximum: 1,000 units/h)	Thrombocytopenia	Hemorrhagic shock
	Low molecular weight heparin	1 mg/kg every 12 hours; adjust dose based on anti-Xa monitoring	Edema, nausea	Hemorrhagic shock

ANA: antinuclear antibody; b.i.d.: twice daily; BW: body weight; Cr: creatinine; CHF: congestive heart failure; CrCl: creatinine clearance; INR: the international normalized ratio; IV: intravenous; Na/K: sodium/potassium; t.i.d.: three times daily; TdP: torsades de pointes.