

similar to quinidine Pharmacologic effects automaticity (pukinj fiber) conduction ERP,APD Adverse reaction: cardiotoxic effects; Extracardiotoxicity: syndrome resembling lupus erythematosus--- increased antinuclear Ab titer

Antiarrhythmic agents-Ib IB-lidocaine Mechanism: Na, + K Pharmacologic effects automaticity (slow velocity of P-4 in PF) APD/ERP terminate reentry + K hyperpolarization

Clinic use : first choice for ventricular tachycardia and fibrillation after myocardial infarction Adverse reaction : Least cardiotoxic effects Neurologic: paresthesias, tremor, convulsions, slurred speech, hearing disturbances, lightheadedness

Antiarrhythmic agents-Ib IB-phenytoin sodium Mechanism similar to lidocaine Pharmacologic effects * decrease automaticity in PF * compete with cardiac glycoside for combination of Na-K-ATPase Clinic use: to treat digoxin-induced dysrhythmias

Antiarrhythmic agents-Ic IC-Propafenone Mechanism Na, (0, 4), -R Pharmacologic effects automaticity conduction Clinic use: supraventricular arrhythmias ADR: QT ;metallic taste, constipation

Antiarrhythmic agents-II -R antagonists Mechanism -R, Na, ERP + K Clinic use SVT, Af, hyperthyrosis ADR SB, AVB, HF, Hypotension, Asthma.

Antiarrhythmic agents-III Selectively prolong repolarization Mechanism (Amiodarone) : block K+, Na+, Ca++ Pharmacological actions " Reduce automaticity in sinoatrial node and PF " slow conduction in atrioventricular node and PF " prolong ERP in atria and PF Clinic uses : " Supraventricular (atrial fibrillation), ventricular (tachycardia/fibrillation) tachyarrhythmias AR: photosensitive skin, thyroid abnormalities (hypo- and hyper-), pulmonary fibrosis, corneal deposits, neurological and gastrointestinal disturbances

Antiarrhythmic agents-IV CCB: verapamil Pharmacological actions " reduce automaticity in sinoatrial node and atrioventricular node by slowing P-4 velocity " slow conduction in atrioventricular node " prolong ERP Clinic uses: " to prevent or terminate recurrence of paroxysmal SVT; " to reduce the ventricular rate in patients with atrial fibrillation

Others : adenosine Mechanism: Inhibit atrioventricular nodal conduction Increase atrioventricular nodal refractory period Pharmacokinetics: t <10 s Clinic use: paroxysmal supraventricular tachycardia; WPW

Antiarrhythmic agents *Drugs to treat Bradycardia Atropine, Iso. 8 Common ADR of Antiarrhythmic agents is proarrhythmia.

The classification of arrhythmia The classification of Antiarrhythmic agents . The mechanisms of them Common ADR of them

Review & questions The classification of arrhythmia The classification of Antiarrhythmic agents . The mechanisms of them Common ADR of them

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