amiodarone pharmacodynamics

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Pharmacodynamics. Amiodarone belongs to a class of drugs called Vaughan-Williams Class III antiarrhythmic agents. It is used in the treatment of a wide range of cardiac tachyarhthmias, including both ventricular and supraventricular (atrial) arrhythmias. After intravenous administration in man, amiodarone relaxes ?Identification ?Pharmacology ?Interactions. Pharmacodynamics. considered a Class III antiarrhythmic; also possesses electrophysiologic characteristics of all 4 Vaughan Williams classes; like Class I drugs, Amiodarone blocks sodium channels at rapid pacing frequencies; like Class II drugs, it exerts antisympathetic activity through beta-adrenoreceptor (weak). Somani P(1). Author information: (1)Department of Pharmacology, Medical College of Ohio, Toledo Amiodarone is a unique class III antiarrhythmic drug with several unusual pharmacokinetic, pharmacodynamic, and toxicological actions which are quite distinct from those of the standard antiarrhythmic drugs. Amiodarone is an iodinated benzofuran derivative with recognised antiarrhythmic activity in man. As yet, its pharmacokinetic behaviour has not been satisfactorily characterised. Specific and sensitive high-pressure liquid chromatographic methods have become available only recently and this partly explains the scarcity of. Feb 15, - The purpose of this study is to investigate the pharmacokinetics and pharmacodynamics of amiodarone (AMD), a K+ channel blocker, in ponies. AMD is an antiarrhythmic drug used in human cardiology for many years. In several clinical studies in humans, it has shown few side effects and an excellent. Dronedarone, a benzofuran containing chemical compound, is a derivative of amiodarone which is classified as a Class III antiarrhythmic agent. It is prescribed to the cardiovascular patients who have paroxysmal or persistent atrial fibrillation to lower the chances of hospitalization. Amiodarone, sotalol, procainamide. Pharmacodynamics of Amiodarone. Itsuo Kodama. 1) [in Japanese]. Released /09/ Full Text PDF [K]. Abstracts; References(29). [in Japanese]. Full Text PDF [K]. Copyright THE JAPANESE SOCIETY OF ELECTROCARDIOLOGY. Top of this Page. 8 g ## ## $#_ 0 2 4 6 8 10 12 12 7 30 90 Time (hr) Time (days) Figure Mean serum concentrations of amiodarone as a function of time in a series of subjects given oral amiodarone alone (dotted line with circles) or with grapefruit juice (solid line with squares). Grapefruit juice, a known inhibitor. Jump to Pharmacodynamics - Pharmacodynamics. In animals and humans, the use of IV amiodarone has been shown to produce negative inotropic and vasodilatory effects. In clinical studies of patients with refractory VF or hemodynamically unstable VT, treatment-emergent, drug-related hypotension occurred in Pharmacodynamics Ventricular antiarrhythmic action: Although generally considered a class III drug, amiodarone hydrochloride has activity in each of the four Vaughn-Williams antiarrhythmic classes. It increases the action potential duration (repolarization inhibition). With prolonged therapy, the effective refractory period.