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Diltiazem

National Cancer Institute

Source

National Cancer Institute. Diltiazem. NCI Thesaurus. Code C61725.

A benzothiazepine derivative with anti-hypertensive, antiarrhythmic properties. Diltiazem blocks voltage-sensitive calcium channels in the blood vessels, by inhibiting the ion-control gating mechanisms, thereby preventing calcium levels increase by other revenues. Alternatively, it has been suggested that this agent also interferes with the release of calcium from the sarcoplasmic reticulum and inhibits the influx of extracellular calcium across both the myocardial and vascular smooth muscle cell membranes. The overall low calcium levels leads to dilatation of the main coronary and systemic arteries and decreasing myocardial contractility, decreased peripheral arterial resistance, improved oxygen delivery to the myocardial tissue, and decreased cardiac output.

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