

題名:The negative effect of tetrahydropalmatine on left ventricular pressure in isolated rat heart is through calcium influx inhibition.

作者:劉如濟

Ju-Chi Liu; Paul Chan.

貢獻者:醫學系內科學科

上傳時間:2009-10-06T04:17:08Z

摘要:The active ingredient dl-tetrahydropalmatine (THP) isolated from the traditional Chinese herb *Corydalis racemosa* has been found to have antihypertensive effects. However, severe cardiac and neurological toxic effects were reported from using this herb for the treatment of pain. In an isolated perfused rat heart model, THP at the concentration of 100 μM was found to have a negative effect (-45%) on left ventricular pressure and this effect was produced concentration-dependently from concentrations lower than 50 μM . In isolated cardiomyocytes, radioactive calcium influx was also inhibited significantly by THP at the concentration of 100 μM and this effect was also in a concentration-dependent manner (-39%). In a patient with latent heart disease, the use of *Corydalis* should probably be detrimental, the toxic effect was probably due to calcium influx inhibition.