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The pharmacologic activities of *Pistia stratiotes* were studied. Calcium channel blocking activity of a methanol extract of the whole plant was demonstrated using isolated segments of rabbit jejunum and confirmed via inhibition by pretreatment with verapamil. Additionally, the plant extract exhibited dose-related bronchodilating activity on isolated guinea pig trachea and neuromuscular blocking action, which was also dose-related. The plant extract caused a decrease in blood pressure in anaesthetised rats. After a 10 g dose of the extract, systolic and diastolic blood pressures fell by 18% and 10%, respectively. Further doses of the plant extract produced slight decreases in blood pressures in anaesthetised rats. The systolic, diastolic and mean blood pressures before the extract were all significantly higher ($P < 0.001$) than those following the administration of the extract.