A significant decrease in blood pressure through intervention of family-based health education program among community residents in Taiwan

葉錦榮

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摘要

Abstract

Objective: To evaluate the effect on decrease in blood pressure of modifying risk factors for stroke, such as blood lipid profiles, diet habits and indices of body weight, through a family-based nutrition health education programme among hypertensive patients and pre-hypertensive subjects without taking any antihypertensive

drugs.

Design and setting: This was a community-based prospective study. The study population was randomly selected from communities in Taipei; potential subjects

were invited by telephone to participate.

Subjects: After excluding subjects whose blood pressure was normal and those using antihypertensive drugs, there were 390 participants included in the study. Subjects in the intervention group (n 293) received nutrition health education on

blood pressure control and stroke-related risk factor modification at each visit.

Non-intervention subjects (n 97) only acquired a general education sheet available.

in clinics. The blood pressure of study subjects was measured at baseline and 6-month follow-up to evaluate the intervention's effect on decrease in blood pressure.

Results: Significant decreases of 2?0mmHg and 5?9mmHg in systolic blood pressure were observed both in pre-hypertensive and hypertensive subjects in the

intervention group. Additionally, intervention subjects with improvement of total

cholesterol and LDL cholesterol, decrease in indices of body weight and increase in consumption of fruit and vegetables also had significant lowering of blood pressure.

Conclusions: The present study provided evidence that the blood pressure of prehypertensive

and hypertensive subjects could decrease significantly, without taking antihypertensive drugs, after modifying blood lipid profiles and waist by dietary habits changed through a family-based nutrition heath education programme, resulting in a significant effect on stroke risk reduction.