than normal therapy group (562 m vs 513 m, p < 0.05) at 3 months after operate. Still after 6 months, the left ventricular ejection fraction were more higher in Buchang group than normal therapy group (65.3% vs 60.8%, p < 0.05). 6 minuters walk distance test were more higher in Buchang group than normal therapy group (541 m vs 502 m, p < 0.05). Moreover after 3 months, the level of vCD40L were lower in Buchang group than normal therapy group (2.25 ng/ml vs 2.62 ng/ml, p < 0.01), the numbers of EPCs were more in Buchang group than normal therapy group (57.1±5.8 vs 32.4±4.6, p < 0.05).

Conclusion This study suggested that Danhong injection combined naoxintong pills could decreased vCD40L level, increased EPCs level, improved cardiac function at ACS patients with PCI therapy. It was worthy for deeply research.

**e0317 COMPARATIVE EFFECTIVENESS OF RENIN ANGIOTENSIN SYSTEM BLOCKADES PLUS CCBs OR DIURETICS FOR ESSENTIAL HYPERTENSION A SYSTEMATIC REVIEW**

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**Background** The relative effectiveness of two combination therapies-Renin Angiotensin System (RAS) blockades/calcium channel blockers (CCBs) versus RAS blockades/diuretics for lowering blood pressure is unknown. This systematic review is to compare the benefits and harms of RAS blockades plus CCBs versus RAS blockades plus diuretics for treating essential hypertension in adults.

**Methods** We retrieved MEDLINE, the Cochrane Central Register of Controlled Trials, EMBASE and SCI using computer to identify relevant randomised controlled trials in English that directly compared the effect of RAS blockades plus CCBs with that of RAS blockades plus diuretics in adult patients with essential hypertension, reported an outcome of mean difference of BP reduction or interest, lasted at least 4 weeks, and included at least 20 patients. A standardised protocol with predefined criteria was used to extract data on study design, interventions, population characteristics, and outcomes; We evaluated study quality and applicability; and assessed the strength of the evidence for key outcomes.

**Results** Five clinical studies were eventually included. We found no significant difference between RAS blockades/CCBs with RAS blockades/diuretics in reduction of blood pressure. However, RAS blockade/CCBs associated with significant stronger DBP response rate. No differential effects were observed for the incidence of adverse events.

**Conclusion** Available evidence shows that RAS blockade/CCBs and blockade/diuretics have similar effects on blood pressure control. High strength of evidence is needed. Data regarding is patient subgroups were missing.

**e0318 PITAVASTATIN CALCIUM IMPROVES CAROTID ARTERIOSCLEROSIS IN PATIENTS WITH HYPERCHOLESTEROLAEMIA**

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**Objective** Hence, our aims were to elucidate the changes of the carotid arterial structure and functions in patients with the HC. The purpose of the present study was to investigate the effect of pitavastatin calcium on arteriosclerosis of carotid artery in patients with hypercholesterolemia (HC).

**Methods** A total of 40 patients with HC were administered pitavastatin calcium 1 mg or 2 mg daily for 8 weeks and thirty healthy subjects were chosen as controls. Carotid atherosclerosis was evaluated by high-resolution B-mode ultrasonography (5-MHz linear array transducer; Sequia 512, Siemens). The right and left common carotid arteries (CCA) were assessed in the antero-oblique direction. For each study the following parameters were assessed and calculated using the following formulae, respectively: (1) IMT; (2), Vs, Vd, Vm, (3): Ep [Pressure-strain elastic modulus, Ep = (SBP-DBP)/(Db-Dd)× Dd], Ep* Ep* =Ep/DBP (4): {B=ln (SBP/DBP)/(Dd-Ds)/Dd}, (5): AC [Arterial compliance, AC = π × (Ds×Dd-Dd×Dd)×4/(SBP-DBP)], (6):Rl:RI=(Vs-Vd)/Vs, (7): Pl:PI=(Vs-Vd)/Vm, (8) plaque index.

**RESULTS** (1) As compared with healthy control group, IMT, β in the HC group was significantly higher (p < 0.001), while Vs, RI, AC in the HC group were markedly lower (p < 0.01). (2) In HC patients, β level was significantly reduced (p < 0.001), and, RI, AC were improved significantly (p < 0.05, p < 0.001 respectively) 8 weeks after treatment as compared with those before treatment, however, no significant difference was noted in IMT.

**Conclusion** Our findings demonstrated that (1) Significant alterations to carotid arterial structure and functions were found in the HC patients, including thickened IMT, distended vessel diameter, reduced elasticity and augmented stiffness. (2) Carotid arterial functions were markedly ameliorated after treatment with pitavastatin calcium for 8 weeks.

**e0319 PREDICTING 30-DAY MORTALITY AMONG PATIENTS HOSPITALISED FOR DECOMPENSATED HEART FAILURE**

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**Objective** We investigated clinical correlates of in-hospital mortality and comorbidity of patients demonstrating heart failure progression in a large population.

**Methods** We included 6,949 patients with demonstrating heart failure who were hospitalised from the period of January 1, 1993, to December 31, 2007, at Chinese PLA General Hospital in Beijing. Hospital mortality and comorbidities were examined for the patients primarily admitted for decompenated HF.

**Results** The 30-day in-hospital mortality was 5.4% in patients. Cox regression multivariate analysis showed that a history of cor pulmonale, stroke, renal failure, cirrhosis of liver-myocardial infarction, pneumonia, gastrointestinal bleeding and multiple organ dysfunction syndromes and age older than 65 years were the only independent predictors of in-hospital mortality. Using the regression coefficient as a benchmark, we calculated a convenient score. Nearly 25% of the patients with the score >6 died compared with only 1.2% of the patients with the score of 0.

**Conclusion** Medical comorbidity at admission or age older than 65 years is an independent risk factor for 30-day mortality in patients with heart failure. The study illustrates that medical comorbidities at admission have proved to be a major prognostic marker for immediate poor outcome in the patients with heart failure. The score may help to identify patients who are more likely to have a risk of in-hospital mortality within 30-days.

**e0320 IMPACT OF PLAQUE MORPHOLOGY ON INTIMAL HYPERPLASIA AFTER STENTING ASSESSED BY OPTICAL COHERENCE TOMOGRAPHY**


**Objective** The objective of this study was to evaluate whether the plaque morphology can affect the in-stent neointimal hyperplasia.