

"Exercise-based cardiac rehabilitation was found to be effective in reducing overall and cardiovascular mortality in patients with CHD."

Exercise-based cardiac rehabilitation effective for coronary heart disease

CLINICAL QUESTION

How effective is exercise-based cardiac rehabilitation on mortality, morbidity, and health-related quality of life (QOL) in patients with coronary heart disease (CHD)?

BOTTOM LINE

Compared to usual care, in medium to longer-term follow-up (≥ 12 months) exercise-based cardiac rehabilitation was found to be effective in reducing overall and cardiovascular mortality in patients with CHD, and appeared to reduce the risk of hospital admissions in the shorter term (< 12 months follow-up). There was no reduction seen in the risk of total myocardial infarction, coronary artery bypass graft, or percutaneous transluminal coronary angioplasty.

CAVEAT

There appears to be little difference between exercise alone, or in combination with psychosocial or educational cardiac rehabilitation interventions. There were insufficient data to definitely conclude that exercise-based cardiac rehabilitation improves health-related QOL compared to control. Despite inclusion of more recent trials, the population studied was predominantly male, middle-aged, and low risk.

CONTEXT

The burden of CHD worldwide is one of concern to patients and healthcare agencies alike. Exercise-based cardiac rehabilitation aims to improve health outcomes for people with CHD through either regular exercise alone, or a combination of exercise with education and psychological support.

COCHRANE SYSTEMATIC REVIEW

Heran BS, Chen JM, Ebrahim S, *et al.* Exercise-based cardiac rehabilitation for coronary heart disease. *Cochrane Database Syst Rev* 2011; **(7)**: CD001800. DOI: CD001800. 10.1002/14651858.CD001800.pub2.

This review contains 47 studies involving 10 794 participants.

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