

Coenzyme Q10 doesn't prevent periprocedural myocardial injury

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(HealthDay)—Pre-treatment with coenzyme Q10 (CoQ10) before

elective percutaneous coronary intervention (PCI) does not reduce periprocedural myocardial injury (PMI), but does significantly decrease high-sensitivity C-reactive protein (hs-CRP) levels, according to a study published online July 6 in *Cardiovascular Therapeutics*.

Naser Aslanabadi, M.D., from the Tabriz University of Medical Sciences in Iran, and colleagues randomized 100 patients scheduled for elective PCI to receive a 300-mg loading dose CoQ10 12 hours before procedure. Creatine kinase-MB (CK-MB) and troponin-I levels were measured before procedure, and eight and 24 hours after, while hs-CRP was measured at baseline and 24 hours after.

The researchers observed no differences in CK-MB elevation (above the upper limit normal) between the two groups ($P = 0.806$). Similarly, elevated troponin-I was the same in both groups. There was no significant change seen in the level of [cardiac biomarkers](#). However, a significant reduction in hs-CRP level occurred in the CoQ10 group ($P = 0.032$).

"The results showed that pretreatment with 300-mg CoQ10 12 hours before [procedure](#) could not [reduce] PMI following elective PCI; however, [it] significantly decreased hs-CRP, which can partially support the anti-inflammatory effects of CoQ10 in preventing PMI," the authors write.

More information: [Abstract](#)
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