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SEARCH THIS JOURNAL	ARCH THIS JOURNAL       approach to treating heart failure         TICLES IN PRESS       Roberto Ferrari, MD, PhD ab         THOR INFORMATION       Received 22 November 1996; received in revised form 23 June 1997; accepted 1 July 1997.         VIRNAL INFORMATION       Received 22 November 1996; received in revised form 23 June 1997; accepted 1 July 1997.         Aims and Scope       Roberto Ferrari, MD, PhD ab         Editorial Board       Received 22 November 1996; received in revised form 23 June 1997; accepted 1 July 1997.         Permission to Reuse       Propionyl-L-carnitine (PLC) is a naturally occurring compound that has been considered for the treatment of congestive heart failure (CHF). The rationale for its use in this pathology is related to its effects on cardiac and skeletal muscle. Chronic treatment with PLC improves the contraction of isolated and aerobic perfused rabbit hearts. The compound improves energy metabolism and myocardial contractility in different experimental models of heart failure, such as pressure-overloaded rats, infarct model of heart failure, and rabbit with			ABSTRACT + REFS
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RSS by	by increased workload. It therefore seems likely that PLC is able to correct some metabolic steps of the process that leads to heart failure. In addition, PLC may be helpful in heart failure because of its specific action on peripheral skeletal muscle. Administration of PLC in patients with CHF improves skeletal muscle metabolism by increasing pyruvate flux into the Krebs cycle and by decreasing lactate production. These effects occur in the absence of major hemodynamic and neuroendocrinologic changes and may underlie the ability of PLC to increase exercise performance in patients with heart failure. In a randomized study of 50 patients with mild CHF, PLC increased the maximal exercise time, reduced lactate production, and improved left ventricular ejection fraction. There have been two large-scale trials on the effects of PLC on both cardiac and peripheral muscle function in CHF. One is ongoing; the other one, which just ended, failed to show an improvement in exercise capacity in the population studied. A benefit was evident only in a subgroup of patients with preserved ejection fraction and impaired baseline exercise duration.			
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