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Vitamin D deficiency and myocardial diseases

Stefan Pilz, Andreas Tomaschitz, Christiane Drechsler, Jacqueline M. Dekker, Winfried März

First published: 04 August 2010 | <https://doi.org/10.1002/mnfr.200900474> | Citations: 98

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Abstract

Vitamin D deficiency is common among patients with myocardial diseases because sun-induced vitamin D production in the skin and dietary intake of vitamin D is often insufficient. Knockout mice for the vitamin D receptor develop myocardial hypertrophy and dysfunction. It has also been shown that children with rickets who suffered from severe heart failure could be successfully treated with supplementation of vitamin D plus calcium. In adults, almost all patients with heart failure exhibit reduced 25-hydroxyvitamin D levels, which are used to classify the vitamin D status. In prospective studies, vitamin D deficiency was an independent risk factor for mortality, deaths due to heart failure and sudden cardiac death. Several vitamin D effects on the electrophysiology, contractility, and structure of the heart suggest that vitamin D deficiency might be a causal factor for myocardial diseases. Data from interventional trials, however, are rare and urgently needed to elucidate whether vitamin D supplementation is useful for the treatment of myocardial diseases. In our opinion, the current knowledge of the beneficial effects of vitamin D on myocardial and overall health strongly argue for vitamin D supplementation in all vitamin D-deficient patients with or at high risk for myocardial diseases.

1 Introduction

Vitamin D deficiency is commonly observed in patients suffering from myocardial diseases 1. Sun exposure, which induces vitamin D production in the skin, is often limited in these

Volume 54, Issue 8
Special Issue: The Vitamin D Revolution
August 2010
Pages 1103-1113

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