

Low vitamin D linked with lower kidney function after transplantation

March 28 2013

Vitamin D deficiency may decrease kidney function in transplant recipients, according to a study appearing in an upcoming issue of the *Journal of the American Society of Nephrology (JASN)*. The finding suggests that vitamin D supplementation may help improve the health of kidney transplant recipients.

Vitamin D deficiency is prevalent in patients with kidney failure. It's not clear how this affects patients after they receive a kidney transplant. To investigate, Frank Bienaimé, MD (Université Paris Descartes and INSERM and Assistance Publique Hopitaux de Paris) and his colleagues studied a group of 634 kidney recipients who underwent transplantation between January 2005 and June 2010.

The researchers found that low vitamin D levels measured at three months after transplantation were linked with lower kidney function and increased kidney scarring at 12 months post-transplant. Other hormones involved with mineral metabolism were not predictors of kidney function or scarring after one year.

"This result suggests that maintaining vitamin D concentration within the normal range would prevent renal function deterioration after renal transplantation," said Dr. Bienaimé. "Vitamin D supplementation, a simple and inexpensive treatment, may improve transplantation outcomes." He encouraged the design of <u>randomized controlled trials</u> to evaluate the potential of vitamin D supplements to maintain kidney function following transplantation.



More information: The article, entitled "Vitamin D Status and Outcomes After Renal Transplantation," will appear online on March 28, 2013, <u>doi: 10.1681/ASN.2012060614</u>

Provided by American Society of Nephrology

Citation: Low vitamin D linked with lower kidney function after transplantation (2013, March 28) retrieved 2 May 2024 from <u>https://medicalxpress.com/news/2013-03-vitamin-d-linked-kidney-function.html</u>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.