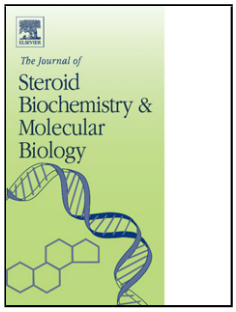

Title: Vascular function and cholecalciferol supplementation in CKD: A self-controlled case series

Authors: Vivek Kumar, Ashok Kumar Yadav, Manphool Singhal, Vinod Kumar, Anupam Lal, Debasish Banerjee, Krishan Lal Gupta, Vivekanand Jha

PII: S0960-0760(18)30001-3
DOI: https://doi.org/10.1016/j.jsbmb.2018.01.001
Reference: SBMB 5097

To appear in: *Journal of Steroid Biochemistry & Molecular Biology*

Received date: 2-11-2017
Revised date: 26-12-2017
Accepted date: 3-1-2018

Please cite this article as: Kumar V, Yadav AK, Singhal M, Kumar V, Lal A, Banerjee D, Gupta KL, Jha V, Vascular function and cholecalciferol supplementation in CKD: A self-controlled case series, *Journal of Steroid Biochemistry and Molecular Biology* (2010), https://doi.org/10.1016/j.jsbmb.2018.01.001

Title

Vascular function and cholecalciferol supplementation in CKD: A self-controlled case series

Authors and affiliations Vivek Kumar,[1] Ashok Kumar Yadav,[1] Manphool Singhal,[2] Vinod Kumar,[1] Anupam Lal,[2] Debasish Banerjee,[3,4] Krishan Lal Gupta,[1] Vivekanand Jha[1,5,6]

[1]Department of Nephrology, Postgraduate Institute of Medical Education and Research, Chandigarh, India

[2]Department of Radiodiagnosis, Postgraduate Institute of Medical Education and Research, Chandigarh, India

[3]Renal and Transplantation Unit, St. George's University Hospitals National Health Service Foundation Trust, London, UK

[4]Molecular and Clinical Sciences Research Institute, St. George's, University of London, London, UK

[5]George Institute for Global Health, New Delhi, India

[6]George Institute for Global Health, University of Oxford, Oxford, UK

Corresponding author and address Dr Vivek Kumar Assistant Professor, Department of Nephrology Post Graduate Institute of Medical Education and Research, Sector 12 Chandigarh 160012 India Email: enigma165@yahoo.co.in

Highlights

- Cholecalciferol supplementation in patients with CKD and vitamin D deficiency improved endothelial function (FMD) and vascular stiffness (PWV)
- NMD also improved which is a novel finding and needs to be explored further
- PTH decreased with cholecalciferol supplementation
- FGF-23 also decreased with cholecalciferol supplementation unlike previously reported increase with use of activated vitamin D