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## Fibroblast growth factor-23 levels in maintenance hemodialysis patients in India.

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### Abstract

Fibroblast growth factor-23 (FGF-23) levels start rising early in patients with chronic kidney disease and is implicated in cardiovascular and overall mortality of hemodialysis patients. We conducted a prospective observational cohort study in stable dialysis patients looking into the levels of FGF-23 in hemodialysis patients and its association with various demographic and biochemical variables and mortality. A total of 91 patients were enrolled in the study. The mean FGF-23 levels were very high (1152.7 pg/ml). FGF-23 levels were significantly associated with serum phosphorus and parathyroid hormone (PTH) levels in univariate and multivariate analysis. No significant association between FGF-23 and cardiovascular comorbidities and overall mortality was seen. FGF-23 levels rise exponentially in maintenance hemodialysis patients. There is a strong association between FGF-23 and phosphorus and PTH levels. No association between FGF-23 and mortality was noted in our patients.

**KEYWORDS:** Fibroblast growth factor-23; hemodialysis; mortality; parathyroid hormone; phosphorus

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