

## Torque Teno Virus (TTV) infection in hemodialysis patients

**Kishore Mandal**

All India Institute of Medical Sciences, India

Present study describes the prevalence and association of torque teno virus (TTV) infection with blood transmitted viral hepatitis including hepatitis B virus (HBV) and hepatitis C virus (HCV) infections in patients with chronic renal failure (CRF) on maintenance hemodialysis. TTV infection was diagnosed with detection of TTV-DNA in serum using polymerase chain reaction (PCR) technique. TTV-DNA was estimated in a total number of hundred patients with CRF simultaneously with 100 voluntary blood donors as controls. The markers of HBV and HCV were also tested in sera samples of these patients. TTV-DNA was detected in 39 of 100 patients (39%) with CRF and 27 of 100 (27%) healthy control. Analysis of results demonstrated HBsAg, IgM anti-HBc, anti-HCV and HCV core antigen in 5.0%, 3.0%, 6.0% and 4.0% patients, respectively. This study could not show any association of TTV with HBV and HCV infections for the transmission pattern or any impact on severity of diseases caused by these viruses in CRF patients. TTV also could not show any association with demographic characteristics of patients, duration of dialysis, number of blood transfusions and renal / liver function of the patients. As such, this study concludes that TTV appears a benign pathogen, showing no sign of renal / liver damage or any change in severity of diseases caused by blood borne hepatitis viruses.

### Biography

Kishore mandal has completed his MD in Laboratory Medicine from All India Institute of Medical Sciences, New Delhi, India.

[kpmandal2007@rediffmail.com](mailto:kpmandal2007@rediffmail.com)