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This study was carried out to detect human Cytomegalovirus (HCMV) IgG and IgM antibodies using IgG and IgM ELISA in renal transplant patients in Khartoum state, Sudan and to improve the diagnosis of HCMV through the introduction of Real-time PCR. A total of 98 plasma samples were collected at random from renal transplant patients at Ibin Sina hospital and Salma Centre for transplantation and haemodialysis from August to September 2006. Among the 98 renal transplant patients, 65 were males and 33 females. The results revealed that, HCMV IgG was present in all patients' plasma 98/98 (100%), while only 6/98 (6.1%) have IgM antibodies in their plasma. The results of the IgG suggested a high incidence of previous infection in all tested groups, while the finding of IgM may reflect a recent infection and reactivation. The load of HCMV DNA was detected in 32 patients 32/98 (32.7%) with real-time PCR. HCMV detection with real-time PCR in the present study indicated high prevalence among renal transplant patients in Khartoum. In conclusion, the incidence and existence of HCMV in Khartoum State was documented through the detection of HCMV specific antibodies.

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