

## Letter to the Editor

### **New-onset Diabetes after Kidney Transplantation and the Role of Cytomegalovirus**

*To the Editor,*

We read with interest the article entitled, “New-onset Diabetes after Kidney Transplantation: Incidence, Risk Factors, and Outcomes” which was published in your valuable journal. Aleid et al evaluated the incidence, risk factors, and outcomes of the New-onset Diabetes after Kidney Transplantation (NODAT) among 500 kidney transplant patients between 2003 and 2009.<sup>1</sup>

In this study, Aleid et al showed that advanced age, obesity, positive history of diabetes, hepatitis C infection, impaired fasting glucose, and impaired glucose tolerance were risk factors for NODAT in renal transplant recipients.<sup>1</sup>

In addition, some other studies have revealed the impact of cytomegalovirus (CMV) infection on NODAT.<sup>2</sup> In a meta-analysis study, we also found that the risk of NODAT among CMV-infected transplant patients was 1.96-fold than the control group.<sup>3</sup> Moreover, Hjelmesaeth et al also found higher risk for NODAT (4-fold than controls) in patients with CMV infection.<sup>4</sup>

Thus, we should evaluate all transplant patients with NODAT for the presence of CMV infection. It is obvious that CMV infection is an important complication after kidney transplantation and determination of this serious infection as a risk factor of NODAT could be life-saving issue.

**Conflict of interest:** None declared.

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#### **References**

1. Aleid H, Alhuraiji A, Alqaraawi A, et al. New-onset diabetes after kidney transplantation: Incidence, risk factors, and outcomes. *Saudi J Kidney Dis Transpl* 2016;27:1155-61.
2. Chow KM, Li PK. Review article: New-onset diabetes after transplantation. *Nephrology (Carlton)* 2008;13:737-44.
3. Einollahi B, Motalebi M, Salesi M, Ebrahimi M, Taghipour M. The impact of cytomegalovirus infection on new-onset diabetes mellitus after kidney transplantation: A review on current findings. *J Nephropathol* 2014;3:139-48.
4. Hjelmesaeth J, Sagedal S, Hartmann A, et al. Asymptomatic cytomegalovirus infection is associated with increased risk of new-onset diabetes mellitus and impaired insulin release after renal transplantation. *Diabetologia* 2004; 47:1550-6.

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