Percentage of circulating CD8+ T lymphocytes is associated with albuminuria in type 2 diabetes mellitus

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Abstract

T lymphocytes play a crucial role in the development of diabetic proteinuria. However, the alteration of circulating T lymphocytes has not been investigated in a type 2 diabetic cohort. A cross-sectional study was conducted in Peking University Aerospace Center Hospital. 510 participants were type 2 diabetes mellitus, 30-70 years of age. Patients with immune disease or dysfunction, infection, or end-organ damage were excluded. The percentage of circulating CD8+ T lymphocytes was significantly associated with albuminuria in the cohort. The impact of albuminuria to CD8+ T lymphocytes in a multivariate linear regression model was indicated by the B-coefficient (95% confidence interval) 1.812 (0.204 – 3.421, \(P = 0.03\)). Our data first showed that the percentage of circulating CD8+ T cells is associated with albuminuria in type 2 diabetes mellitus.

Biography

Yuanjie Mao has completed his MD and PhD from Peking University, and is a licensed cardiologist in China. Now he is doing postdoctoral studies in Division of Metabolism, Endocrinology & Diabetes and Department of Biochemistry, National Cerebral and Cardiovascular Center, Japan. He has published 5 papers in reputed journals.