

LETTER

Age at Diagnosis of Diabetes in Young Men is Associated with Albuminuria [Letter]

Wenjian Li

Department of Urology, Changzhou Third People's Hospital, Changzhou Medical Center, Nanjing Medical University, Changzhou, Jiangsu, People's

Correspondence: Wenjian Li, Department of Urology, Changzhou Third People's Hospital, Changzhou Medical Center, Nanjing Medical University, 300 Lanling North Road, Changzhou, Jiangsu, 213001, People's Republic of China, Tel +86-0519-82009011, Email bolite@163.com

Dear editor

Zhang Q's team published a paper titled "Age at Diagnosis of Diabetes in Young Men is Associated with Albuminuria" in Diabetes, Metabolic Syndrome and Obesity. Congratulations to the team on their research findings.

The study included 1900 patients with T2D categorized into two groups based on age at onset (early: ≤ 45 years and late: > 45 years). Through the use of univariate and multivariate analysis methods, this study successfully identified risk factors for albuminuria. The results demonstrate that early-onset disease is a significant risk factor for albuminuria, with a prevalence rate of 35.08% compared to 29.92% in patients with late-onset disease. Significant risk factors were identified for patients with late-onset disease, including disease duration and glycosylated hemoglobin (HbA1c) levels. Conversely, the risk was associated with increased body mass index (BMI) and systolic blood pressure for patients with early-onset disease.

The findings hold significant value in the academic field and have positive implications for guiding the prevention, diagnosis, and treatment of complications in patients with T2D. This study provides new insights for research in this field.

However, this study has some limitations that require further exploration and improvement. Firstly, as noted by the authors, the study design was cross-sectional, and the study population was limited to hospitalized patients in a single center, which may have limited the generalizability and reliability of the findings to some extent. Future studies should use a multicenter, prospective, long-term follow-up design and expand the sample to include patients from different geographic regions and medical centers better to understand the relationship between age of onset and albuminuria.

Secondly, the study's baseline data was not comprehensive enough and lacked detailed analysis of demographic characteristics, socioeconomic status, lifestyle, smoking and alcohol consumption history, diabetes treatment status, medication history, and associated comorbidities. All of these factors may have an impact on the occurrence of albuminuria.^{2,3} Therefore, the accuracy of the available results may be somewhat compromised. Since the study subjects were hospitalized patients, most relevant data should be available from the medical records. Therefore, researchers should thoroughly review and organize medical record data to include these critical factors in the analysis, enhancing the accuracy and reliability of the results.

The study found differences in risk factors for albuminuria between genders but did not explore the specific causes and mechanisms of these differences in depth. Previous studies suggest that a significant decrease in estrogen levels in menopausal women may be associated with the development of albuminuria. ^{4,5} Therefore, it is important to focus on sex hormone levels, especially estrogen, in female patients, given that this study used 45 years as the cut-off for proteinuria risk analysis. To reveal the potential mechanisms behind gender differences, it is recommended that authors further analyze the menopausal status, contraceptive use, and sex hormone levels of female patients.

By implementing these recommendations, researchers can improve the quality of their studies and provide a more accurate scientific basis for managing type 2 diabetes and its complications.

Li Dovepress

Disclosure

The author declares no conflicts of interest in this communication.

References

1. Zhang Q, Li B, Lu Y, Yang S, Wu Y, Wu Y. Age at diagnosis of diabetes in young men is associated with albuminuria. *Diabetes Metab Syndr Obes*. 2024;17:1543–1549. doi:10.2147/DMSO.S454867

- 2. Retnakaran R, Cull CA, Thorne KI, Adler AI, Holman RR. Risk factors for renal dysfunction in type 2 diabetes: U.K. prospective diabetes study 74. *Diabetes*. 2006;55(6):1832–1839. doi:10.2337/db05-1620
- 3. Radcliffe NJ, Seah JM, Clarke M, MacIsaac RJ, Jerums G, Ekinci EI. Clinical predictive factors in diabetic kidney disease progression. *J Diabetes Investig*. 2017;8(1):6–18. doi:10.1111/jdi.12533
- 4. Maric C. Sex, diabetes and the kidney. Am J Physiol Renal Physiol. 2009;296(4):F680-688. doi:10.1152/ajprenal.90505.2008
- 5. Valdivielso JM, Jacobs-Cachá C, Soler MJ. Sex hormones and their influence on chronic kidney disease. Curr Opin Nephrol Hypertens. 2019;28 (1):1–9. doi:10.1097/MNH.0000000000000463

Dove Medical Press encourages responsible, free and frank academic debate. The contentTxt of the Diabetes, Metabolic Syndrome and Obesity 'letters to the editor' section does not necessarily represent the views of Dove Medical Press, its officers, agents, employees, related entities or the Diabetes, Metabolic Syndrome and Obesity editors. While all reasonable steps have been taken to confirm the contentTxt of each letter, Dove Medical Press accepts no liability in respect of the contentTxt of any letter, nor is it responsible for the contentTxt and accuracy of any letter to the editor.

Diabetes, Metabolic Syndrome and Obesity

Dovepress

Publish your work in this journal

Diabetes, Metabolic Syndrome and Obesity is an international, peer-reviewed open-access journal committed to the rapid publication of the latest laboratory and clinical findings in the fields of diabetes, metabolic syndrome and obesity research. Original research, review, case reports, hypothesis formation, expert opinion and commentaries are all considered for publication. The manuscript management system is completely online and includes a very quick and fair peer-review system, which is all easy to use. Visit http://www.dovepress.com/testimonials.php to read real quotes from published authors.

Submit your manuscript here: https://www.dovepress.com/diabetes-metabolic-syndrome-and-obesity-journal

https://doi.org/10.2147/DMSO.S472312