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Prevalence and Risk Factors for Diabetic Peripheral Neuropathy in Type 2 Diabetes in 14 Countries: The INTERPRET-DD Study

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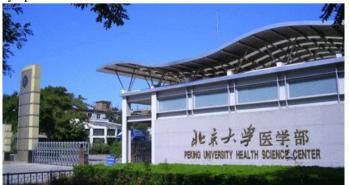
Abstract

Aim: Diabetic peripheral neuropathy (DPN) is a common but severe microvascular complication of diabetes. We report the prevalence and risk factors for DPN in people with type 2 diabetes in 14 different countries.

Methods: A total of 2733 people with type 2 diabetes aged 18-65 years (45.3% men, mean duration of diabetes 8.8 years) was included in the International Prevalence and Treatment of Diabetes and Depression (INTERPRET-DD) study, which was conducted in 14 countries. Face-to-face interviews were conducted to collect sociodemographic characteristics and medical records of subjects using a structured questionnaire and laboratory tests were subsequently carried out for clinical measurement. Depressive symptoms were measured using the Patient Health Questionnaire-9. The multilevel mixed-effects logistic regression accounting for clustering of participants within the country was used to determine potential risk factors.

Results: The overall prevalence of DPN was 26.71% and the country-specific prevalence showed considerable variation. Multivariate analysis revealed that longer duration of diabetes (OR: 1.08 per 1-year increase, 95% CI: 1.06-1.09), poor glycemic control (OR: 1.11 per 1% increase in HbA1c, 95% CI: 1.05-1.18), history of hypertension (OR: 1.58, 95% CI: 1.18-2.12), cardiovascular diseases (OR: 2.07, 95% CI: 1.55-2.78) and depressive symptoms (OR: 1.92, 95% CI: 1.43-2.58) were independently associated with DPN.

Conclusions: The results of this international study suggest that more than a quarter of individuals with type 2 diabetes are affected by DPN, which is significantly associated with longer duration of diabetes, poor glycemic control, history of hypertension, cardiovascular diseases and depressive symptoms.



Biography:

Yanhui Lu has completed her PhD from Captital Medical University and postdoctoral studies from School of Nursing, PKU University. She has presided 2 national/provincial projects and published more than 20 SCI papers

Speaker Publications:

- 1. "Ecological pest control fortifies agricultural growth in Asia-Pacific economies".
- 2. "Body-weight fluctuation and risk of diabetes in older adults: the China Health and Retirement Longitudinal Study (CHARLS)".
- 3. "27-Hydroxycholesterol contributes to cognitive deficits in APP/PS1 transgenic mice through microbiota dysbiosis and intestinal barrier dysfunction".
- 4. "Can contamination by major systemic insecticides affect the voracity of the harlequin ladybird?".
- 5. "Landscape Effects on the Abundance of in Cotton Fields". 3rd International Conference on Obesity and Chronic Diseases; Webinar- June 15-16, 2020.

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