

**Title: *Prospective Study of Diet Quality, Dietary Urate Index and Survival of Parkinson's Disease Patients***

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**ABSTRACT:** Despite important improvements in Parkinson's disease (PD) therapy, PD patients have a higher mortality than individuals without PD. Diet is a crucial and modifiable factor for survival. However, there are no studies examining the association between diet and survival of PD patients. We propose to conduct a prospective study to investigate whether overall diet quality and dietary urate index, reflecting overall effect of diet on plasma urate, are associated with the survival of Parkinson's disease (PD) patients in the Health Professionals Follow-up Study (HPFS) and the Nurses' Health Study (NHS). After 18-24 years follow-up, we documented 661 incident PD cases, and 204 deaths among them. We will examine associations between diets before and after onset of PD and survival of PD patients. Our study will offer a better understanding the mechanisms underlying the survival of PD patients, and hopefully, provide practical interventional methods.