Supplementary Information for Association between Parkinson's disease and risk of prostate cancer in different populations: An updated meta-analysis

Title of manuscript:
Association between Parkinson's disease and risk of prostate cancer in different populations: An updated meta-analysis

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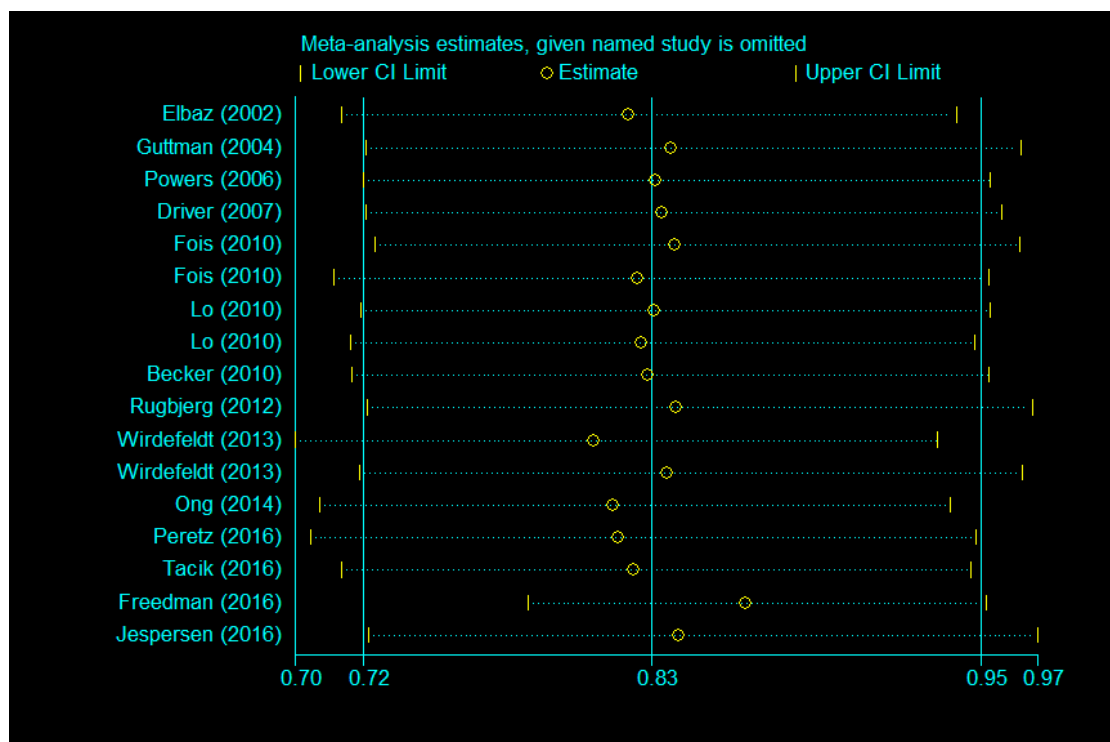Department of Neurology, Second Xiangya Hospital, Hunan, P.R. China

**Figure S1:** Sensitivity analysis for the association between Parkinson's disease and risk of prostate cancer in Western population.
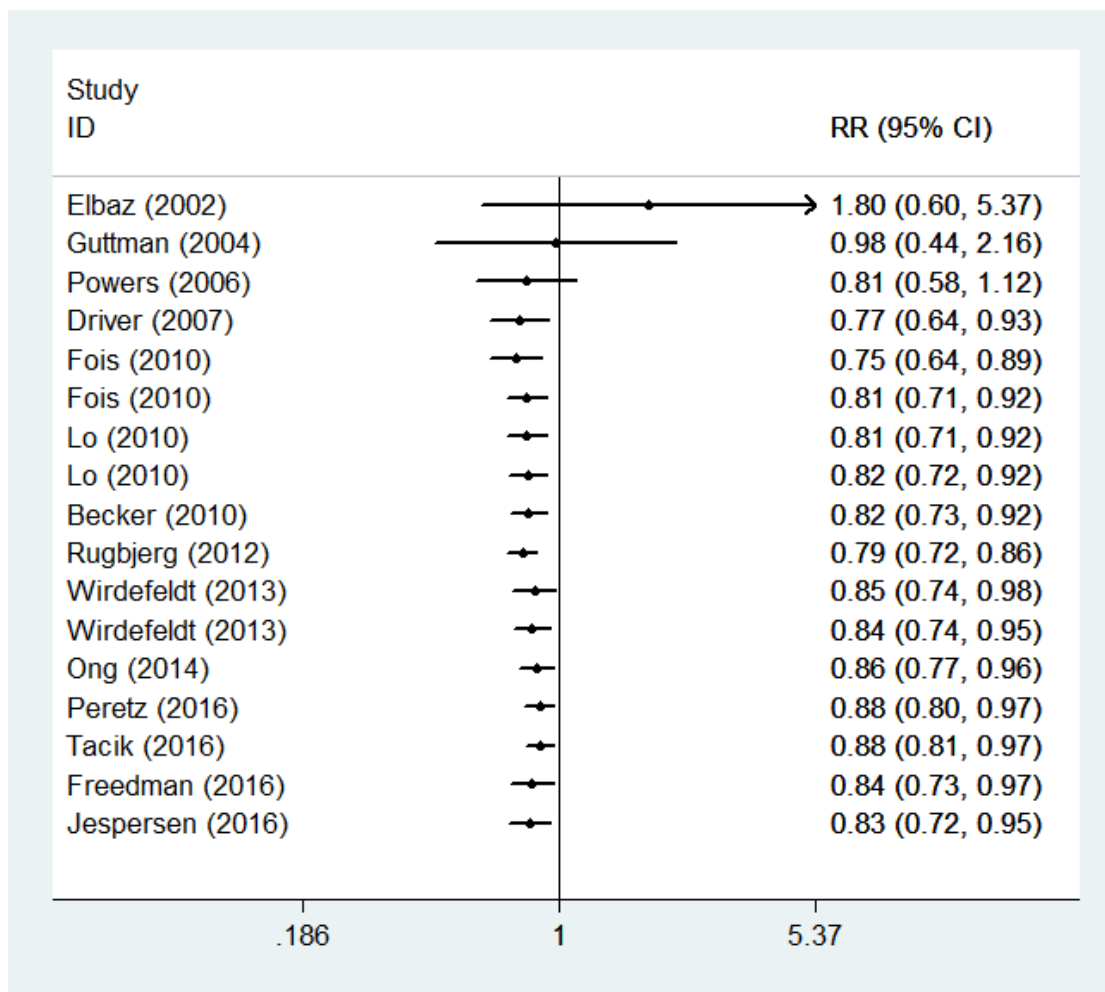
**Figure S2:** Cumulative meta-analysis or the association between Parkinson's disease and risk of prostate cancer in Western population.
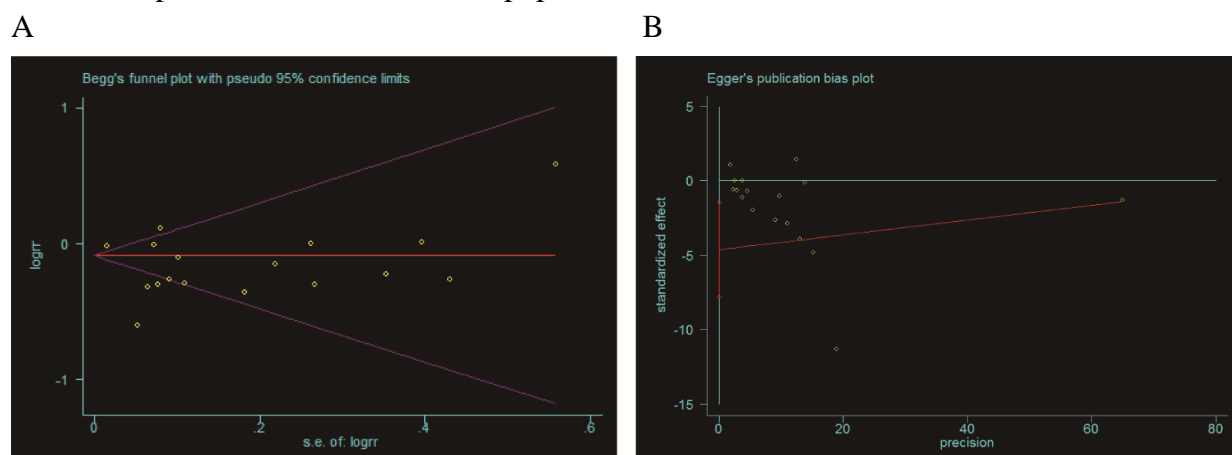
A                                       B



**Figure S3:** Test result for publication bias. (A) Begg's test; (B) Egger's test.

| Study/ year | Selection | | | | Control for important factors* | Exposure | | | NOS Score |
| | Adequate definition of cases | Representativeness of cases | Selection of controls | Definition of controls | | Ascertainment of exposure | Same method to ascertain for cases and controls | Nonresponse rate | |
|---|---|---|---|---|---|---|---|---|---|
| Elbaz 2002 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 7 |
| Guttman 2004 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 6 |
| Powers 2006 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 6 |
| Driver 2007 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 6 |
| Fois 2010 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 7 |
| Lo 2010 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 7 |
| Becker 2010 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 6 |
| Rugbjerg 2012 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Wirdefeldt 2013 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 7 |
| Ong 2014 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Lin 2015 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 7 |
| Peretz 2016 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 7 |
| Tacik 2016 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 5 |
| Freedman 2016 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 5 |
| Jespersen 2016 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 7 |

**Table S1.** The quality of the included studies assessed by NOS.*: a maximum of two stars can be allotted in this category, one for age, sex, the other for other important controlled factors.