**SUPPLEMENTARY TABLES**

**Supplementary Table 1. Search Strategy.**

| Code | Strategy                                                                                     |
|------|---------------------------------------------------------------------------------------------|
| #1   | Multiple System Atrophy[All Fields] OR MSA[All Fields] OR Shy-Drager Syndrome[All Fields] OR Shy Drager Syndrome[All Fields] OR olivopontocerebellar atrophy[All Fields] OR OPCA[All Fields] OR striatonigral degeneration[All Fields] |
| #2   | Smoking[All Fields] OR Nicotine[All Fields] OR Cigar*[All Fields] OR Tobacco[All Fields]    |
| #3   | #1 and #2                                                                                   |

**Supplementary Table 2. The Joanna Briggs Institute Critical Appraisal Tool for Case-Control Studies.**

| Code   | Were the groups comparable other than the presence of disease in cases or the absence of disease in controls? | Were cases and controls matched appropriately? | Were the same criteria used for identification of cases and controls? | Was exposure measured in a standard, valid and reliable way? | Was exposure measured in the same way for cases and controls? | Were confounding factors identified? | Were strategies to deal with confounding factors stated? | Were outcomes assessed in a standard, valid and reliable way for cases and controls? | Was the exposure period of interest long enough to be meaningful? | Was appropriate statistical analysis used? |
|--------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|-----------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| Zhou 2016 | Yes                                                                                                       | Yes                                           | Yes                                                                 | No                                                                 | Yes                                                        | Yes                                             | Yes                                                                         | Yes                                                                            | Unclear                                                                          | Yes                           |
| Seo 2010  | Yes                                                                                                       | Yes                                           | Yes                                                                 | No                                                                 | Yes                                                        | Yes                                             | Yes                                                                         | Yes                                                                            | Yes                                                                               | Yes                           |
| Vanacore 2000 | Yes                                                        | Yes                                           | Yes                                                                 | No                                                                 | Yes                                                        | Yes                                             | Yes                                                                         | Yes                                                                            | Yes                                                                               | Yes                           |
| Chrysostome 2004 | Yes                                                        | Yes                                           | Yes                                                                 | No                                                                 | Yes                                                        | No                                              | No                                                                          | Yes                                                                            | Unclear                                                                          | Yes                           |
| Vidal 2008 | Yes                                                                                                       | Yes                                           | Yes                                                                 | No                                                                 | Yes                                                        | Yes                                             | Yes                                                                         | Yes                                                                            | Unclear                                                                          | Yes                           |

**Supplementary Table 3. The Newcastle-Ottawa Quality Assessment Scale for Case-Control Studies.**

| Code    | Selection | Exposure |
|---------|------------|-----------|
| Zhou 2016 | 1 1 1 1 2 | 0 1 0 7 |
| Seo 2010  | 1 1 1 1 2 | 0 1 0 7 |
| Vanacore 2000 | 1 1 1 1 2 | 0 1 0 7 |
| Chrysostome 2004 | 1 1 1 1 1 | 0 1 0 6 |
| Vidal 2008 | 1 1 1 1 2 | 0 1 0 7 |