

**Appendix S1**

**SUPPLEMENTARY METHODS**

*Pertaining data analysis*

- Productivity was proxied by earnings: gross earnings consist of: salary (including: taxable and non-taxable salary, fringe benefits, severance payments, value of stock options and sickness benefits paid by the employer), net profits from self-employed business and other taxable income (including fees from lectures and consulting business).
- A common approach to estimating the cost associated with a disease or an intervention in a population-based study is to compare the patients' and reference individuals' mean costs in year  $t$  minus their mean costs in the year leading up to the patients receiving their diagnosis. This approach considers both the costs before the index date and the costs of individuals without the disease and thus provides an estimate of the costs attributable to the disease (difference-in-difference approach).