

## Accepted Manuscript

Title: The Benefits of Avoiding Cancer (or Dying from Cancer): Evidence from a Four-country Study

Authors: Anna Alberini, Milan Ščasný

PII: S0167-6296(16)30508-2  
DOI: <http://dx.doi.org/10.1016/j.jhealeco.2017.08.004>  
Reference: JHE 2049

To appear in: *Journal of Health Economics*

Received date: 9-12-2016  
Revised date: 10-8-2017  
Accepted date: 14-8-2017



Please cite this article as: Alberini, Anna, Ščasný, Milan, The Benefits of Avoiding Cancer (or Dying from Cancer): Evidence from a Four-country Study. *Journal of Health Economics* <http://dx.doi.org/10.1016/j.jhealeco.2017.08.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## The Benefits of Avoiding Cancer (or Dying from Cancer): Evidence from a Four-country Study

By

Anna Alberini and Milan Ščasný<sup>1</sup>

Last revision: 10 August 2017

Last revision by: Anna

<sup>1</sup> Alberini is a professor at AREC, University of Maryland, College Park, and an affiliate researcher with FEEM, Italy. Address for correspondence: Anna Alberini, AREC, 2200 Symons Hall, University of Maryland, College Park, MD 20742. Email: [aalberin@umd.edu](mailto:aalberin@umd.edu). Scasny is a researcher at Charles University Environment Center, Prague, email: [milan.scasny@czp.cuni.cz](mailto:milan.scasny@czp.cuni.cz). This research received funded from the European Chemicals Agency within a project entitled “*Stated-preference study to examine the economic value of benefits of avoiding selected adverse human health outcomes due to exposure to chemicals in the European Union.*” Additional support was provided by the Czech Science Foundation (grant GA15-23815S) and the European Union’s Horizon 2020 Research and Innovation Staff Exchange programme under the Marie Skłodowska-Curie (grant 681228, GEMCLIME). We are grateful to Matti Vainio, Richard Dubourg and Christoph Rheinberger for their helpful comments at various stages of this research.

**Abstract.** We use stated-preference methods to estimate the cancer Value per Statistical Life (VSL) and Value per Statistical Case (VSCC) from a representative sample of 45-60-year olds in four countries in Europe. We ask respondents to report information about their willingness to pay for health risk reductions that are different from those used in earlier valuation work because they are comprised of two probabilities—that of getting cancer, and that of dying from it (conditional on getting it in the first place). The product of these two probabilities is the unconditional cancer mortality risk. Our hypothetical risk reductions also include two severity-related attributes—quality-of-life impacts and pain. The results show that respondents did appear to have an intuitive grasp of compound probabilities, and took into account each component of the unconditional cancer mortality risk when answering the valuation questions. We estimate the cancer VSL to be between approximately € 2 and 5.950 million, depending on whether the (unconditional) mortality risk was reduced by lowering the chance of getting cancer, increasing the chance of surviving cancer, or both. The VSCC is estimated to be up to € 0.578 million euro, and its magnitude depends on the initial (conditional) cancer mortality and on the improvement in survival. The survey responses show that our measures of cancer severity—impacts on daily activities and pain—have little or no effect on the WTP to reduce the adverse health risks.

**Keywords:** Cancer risk; Value of a Statistical Life; Value of a Statistical Case of Cancer; mortality risk reduction; stated preferences.

---

Download English Version:

<https://daneshyari.com/en/article/7362974>

Download Persian Version:

<https://daneshyari.com/article/7362974>

[Daneshyari.com](https://daneshyari.com)