

Bendix Carstensen — short biography

Senior Statistician

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MSc Mathematical Statistics, University of Copenhagen, 1983

Born: 14 July 1952



Employment

Research

Senior statistician, Steno Diabetes Center, April 1999 –

Senior statistician, Danish Zoonosis Center, Danish Veterinary Laboratory, Ministry of Food, Agriculture and Fishery, August 1995 – March 1999.

Statistician, Danish Cancer Registry, Institute of Cancer Epidemiology, Danish Cancer Society, June 1984 – July 1995

Research assistant, Statistical Research Unit, Copenhagen, Danish Medical and Social Science Research Councils. February 1983 – May 1984.

Teaching

External lecturer, Department of Biostatistics, University of Copenhagen, 1995 –

Taught several international courses in Epidemiology, Demographic Methods in Epidemiology
Statistical computing with R, and various advanced statistical topics.

Research areas

1. Application of registers in surveillance of public health. In my current job this has primarily focused on diabetes on the last 10 years, but I have previously been working in cancer epidemiology [[1](#), [4](#), [5](#), [6](#), [7](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#)].
2. I am the maintainer (and a contributor to) the R-package `Epi` for statistical and demographic analysis in epidemiology, <http://BendixCarstensen.com/Epi/>

Biostatistics

1. Analysis of follow-up data from register studies and demographic databases:
 - Age-period-cohort models [[16](#), [17](#)].
 - Multistate models and their practical application [[2](#), [8](#), [9](#), [11](#), [18](#)].
2. Comparison of clinical measurement methods. This is a topic where I have been involved with the clinical departments and laboratory at Steno Diabetes Center in providing practical analyses and as a consequence also in development of the methodology [[19](#), [20](#), [21](#), [22](#), [23](#), [24](#), [25](#)]
3. I am the maintainer (and main author of) the R-package `MethComp` for statistical analysis of method comparison studies, <http://BendixCarstensen.com/MethComp/>

Selected publications

A complete list of publications is in the full version of my CV:

<http://BendixCarstensen.com/cv.pdf>

- [1] B. Carstensen, M. E. Jørgensen, and S. Friis. The epidemiology of diabetes and cancer. *Curr. Diab. Rep.*, 14(10):535, Oct 2014.
- [2] S. Iacobelli and B. Carstensen. Multiple time scales in multi-state models. *Stat Med*, 32(30):5315–5327, Dec 2013.
- [3] J. A. Johnson, B. Carstensen, D. Witte, S. L. Bowker, L. Lipscombe, A. G. Renehan, and the Diabetes and Cancer Research Consortium. Diabetes and cancer (1): evaluating the temporal relationship between type 2 diabetes and cancer incidence. *Diabetologia*, 55(6):1607–1618, Jun 2012.
- [4] B. Carstensen, D. R. Witte, and S. Friis. Cancer occurrence in Danish diabetic patients: duration and insulin effects. *Diabetologia*, 55(4):948–958, Apr 2012.
- [5] M. B. Hansen, M. L. Jensen, and B. Carstensen. Causes of death among diabetic patients in Denmark. *Diabetologia*, 55(2):294–302, Feb 2012.
- [6] B. Carstensen and Borch-Johnsen K. Register-based studies of diabetes. *Scandinavian Journal of Public Health*, 39(7 suppl):175–179, 2011.
- [7] B. Carstensen, Christensen J.K., Marcussen M.M., and Borch-Johnsen K. The National Diabetes Register. *Scandinavian Journal of Public Health*, 39(7 suppl):58–61, 2011.
- [8] Bendix Carstensen and Martyn Plummer. Using Lexis objects for multi-state models in R. *Journal of Statistical Software*, 38(6):1–18, 1 2011.
- [9] Martyn Plummer and Bendix Carstensen. Lexis: An R class for epidemiological studies with long-term follow-up. *Journal of Statistical Software*, 38(5):1–12, 1 2011.
- [10] JK Kristensen, TB Drivsholm, B Carstensen, M Steding-Jensen M, and A Green. [Validation of methods to identify known diabetes on the basis of health registers] (in Danish). *Ugeskr Laeger*, 169(18):1687–1692, 2007.
- [11] B. Carstensen, J.K. Kristensen, P. Ottosen, and K. Borch-Johnsen. The Danish National Diabetes Register: Trends in incidence, prevalence and mortality. *Diabetologia*, 51:2187–2196, 2008.
- [12] Freddie Bray, Bendix Carstensen, Henrik Moller, Marco Zappa, Maja Primic Zakelj, Gill Lawrence, Matti Hakama, and Elisabete Weiderpass. Incidence trends of adenocarcinoma of the cervix in 13 European countries. *Cancer Epidemiol Biomarkers Prev*, 14(9):2191–2199, Sep 2005.
- [13] A Prener and B Carstensen. Month of birth and testicular cancer risk in Denmark. *Am J Epidemiol*, 131(1):15–19, Jan 1990.
- [14] Carstensen B and Jensen OM. *Atlas of Cancer incidence in Denmark 1970–79*. Danish Cancer Society and Environmental Protection Agency, Copenhagen, 1986.
- [15] Jensen OM, Carstensen B, Glatre O, Malker B, Pukkala E, and Tulinius H. *Atlas of Cancer Incidence in the Nordic Countries*. Nordic Cancer Union, 1988.

- [16] B Carstensen. Age-Period-Cohort models for the Lexis diagram. *Statistics in Medicine*, 26(15):3018–3045, July 2007.
- [17] B Carstensen. Age-Period-Cohort models for the Lexis diagram (author’s reply). *Statistics in Medicine*, 27:1561–1564, 2007.
- [18] Bendix Carstensen. Demography and epidemiology: Practical use of the Lexis diagram in the computer age, or: Who needs the Cox-model anyway? Technical Report 06.2, Department of Biostatistics, University of Copenhagen, <http://publichealth.ku.dk/sections/biostatistics/reports/2006/rr-06-2.pdf>, 2006.
- [19] B. Carstensen. *Comparing Clinical Measurement Methods: A practical guide*. Wiley, 2010.
- [20] B. Carstensen. Comparing methods of measurement: Extending the LoA by regression. *Stat Med*, 29:401–410, Feb 2010.
- [21] B Carstensen, J Simpson, and LC Gurrin. Statistical models for assessing agreement in method comparison studies with replicate measurements. *International Journal of Biostatistics*, 4(1):Article 16, 2008.
- [22] B Carstensen, J Lindström, J Sundvall, K Borch-Johnsen, J Tuomilehto, and the DPS Study Group. Measurement of blood glucose: Comparison between different types of specimens. *Ann Clin Biochem.*, 45(2):140–148, 2008.
- [23] S.S. Rasmussen, C. Glümer, A. Sandbaek, T. Lauritzen, B. Carstensen, and K. Borch-Johnsen. Short-term reproducibility of impaired fasting glycaemia, impaired glucose tolerance and diabetes The ADDITION study, DK. *Diabetes Res Clin Pract*, Dec 2007.
- [24] B Carstensen. Comparing and predicting between several methods of measurement. *Biostatistics*, 5(3):399–413, Jul 2004.
- [25] S Colagiuri, A Sandbæk, B Carstensen, J Christensen, C Glümer, T Lauritzen, and K Borch-Johnsen. Comparability of venous and capillary glucose measurements in blood. *Diabetic Medicine*, 20(11):953–956, Nov 2003.