

CV compiled Tuesday 30th March, 2010, 11:21

Bendix Carstensen

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Education:

Cand. scient. (MSc) in Mathematical Statistics, University of Copenhagen: January 1983

Graduated gymnasium (high school): June 1971

Date of birth: 14 July 1952

Private address: Møllegaardsvej 5, DK-2100 København Ø, +45 39 18 60 48.

Employment

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

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

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

Senior statistician, Steno Diabetes Center, April 1999 –

Assistant lecturer, Statistical Institute, University of Copenhagen, August 1985 – December 1997.

External lecturer, Department of Biostatistics, University of Copenhagen, January 1998 –.

Research areas

My expertise and interests are in two areas: Biostatistics and Epidemiology/Public Health; in the latter primarily the methodological aspects.

My current specific areas of research are:

Biostatistics:

1. Analysis of follow-up data from register studies and demographic databases:
 - Age-period-cohort models [21, 16].
 - Multistate models and their practical application [9, 25].
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 [1, 10, 11, 14, 36, 37]

Epidemiology:

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. [18, 9, 28, 79, 76].
2. Use of clinical databases for surveillance of patient medical histories. Potential and (in particular) limitations of the results that can be obtained from these.

In addition to this I have a rather broad experience in practical biostatistical and epidemiological collaborative work; this should be apparent from the list of publications.

Teaching

Assistant teacher in theoretical statistics for economists Statistical Institute, University of Copenhagen, August 1986 – December 1997.

Course over “Statistical models in epidemiology” by Clayton & Hills, for the scientific staff of the cancer registry. September–December 1993 (with Gerda Engholm & Geert Schou)

Lectures for post-graduate MDs (PhD-students) in basic statistics and statistical methods in epidemiology. University of Copenhagen, Department of Biostatistics, University of Copenhagen, 1994–

Lectures and exercises on Linear models at European Educational Programme in Epidemiology, Firenze, July 1997.

Lectures and exercises on Statistical Methods in Epidemiology at European Educational Programme in Epidemiology, Firenze, annually 1999–2006.

Lectures on Cohort Studies, Parametrizations of Generalized Linear models and Age-Period-Cohort modelling at Statistical Practise in Epidemiology for Statisticians, Oulanka, Finland, March 2000.

Lectures on Survival analysis and Cohort studies. Research School for Clinicians, Karolinska Institutet, Stockholm, biannually 2001–2005.

Lectures on Statistical Methods in Epidemiology at Diabetology Research Course in Epidemiology and Biostatistics, India, annually 2001–2005.

Course director and teacher at: “Statistical practice in Epidemiology”, Tartu, Estonia, annually 2002–2008.

Course director and teaching assistant at “Bayesian Data Analysis”. Danish Research School of Biostatistics, Copenhagen May 2006 & August 2008 and Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, June 2007.

Modern Demographic Methods in Epidemiology:

- Stockholm, 2-3 February 2006 (using R).
- Oslo, 28 February - 1 March 2007 (with Paul Lambert, using Stata)
- Aalborg, 14-16 January 2008 (using R).
- Melbourne, February 2008 (with Paul Dickman, using Stata & R)

Statistical Analysis of Method Comparison Studies:

- Karolinska Institutet, Stockholm, November 2007.
- School of Population Health, Melbourne, February 2008.
- Adelaide, February 2009.

Age-Period-Cohort models. Research course at Max Planck Institute for Demographic Research, Rostock. March 2009 (with Eva Gelnarova).

Publications

- [1] B. Carstensen. Comparing methods of measurement: Extending the LoA by regression. *Stat Med*, 29:401–410, Feb 2010.
- [2] K. Akram, U. Pedersen-Bjergaard, B. Carstensen, K. Borch-Johnsen, and B. Thorsteinsson. Prospective and retrospective recording of severe hypoglycaemia, and assessment of hypoglycaemia awareness in insulin-treated Type 2 diabetes. *Diabet. Med.*, 26:1306–1308, Dec 2009.
- [3] A. M. Vaiserman, M. D. Khalangot, B. Carstensen, M. D. Tronko, V. I. Kravchenko, V. P. Voitenko, L. V. Mechova, N. M. Koshel, and P. E. Grigoriev. Seasonality of birth in adult type 2 diabetic patients in three Ukrainian regions. *Diabetologia*, Sep 2009.

- [4] P. Poulsen, L. G. Grunnet, K. Pilgaard, H. Storgaard, A. Alibegovic, M. P. Sonne, B. Carstensen, H. Beck-Nielsen, and A. Vaag. Increased risk of type 2 diabetes in elderly twins. *Diabetes*, 58:1350–1355, Jun 2009.
- [5] L. G. Sadleir, I. E. Scheffer, S. Smith, B. Carstensen, K. Farrell, and M. B. Connolly. EEG features of absence seizures in idiopathic generalized epilepsy: impact of syndrome, age, and state. *Epilepsia*, 50:1572–1578, Jun 2009.
- [6] C. Lau, U. Toft, I. Tetens, B. Carstensen, T. Jørgensen, O. Pedersen, and K. Borch-Johnsen. Dietary Patterns Predict Changes in Two-Hour Post-Oral Glucose Tolerance Test Plasma Glucose Concentrations in Middle-Aged Adults. *J. Nutr.*, Jan 2009.
- [7] J. Svensson, A. Lyngaae-Jørgensen, B. Carstensen, L. B. Simonsen, and H. B. Mortensen. Long-term trends in the incidence of type 1 diabetes in Denmark: The seasonal variation changes over time. *Pediatr Diabetes*, Nov 2008.
- [8] L. G. Sadleir, I. E. Scheffer, S. Smith, B. Carstensen, J. Carlin, M. B. Connolly, and K. Farrell. Factors influencing clinical features of absence seizures. *Epilepsia*, 49:2100–2107, Dec 2008.
- [9] B Carstensen, JK Kristensen, P Ottosen, and K Borch-Johnsen. The Danish National Diabetes Register: Trends in incidence, prevalence and mortality. *Diabetologia*, 51:2187–2196, 2008.
- [10] 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.
- [11] 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.
- [12] M.V. Andersen, T. Rosenberg, M. la Cour, J.F. Kiilgaard, J.U. Prause, P.H. Alsbirk, K. Borch-Johnsen, T. Peto, B. Carstensen, and A.C. Bird. Prevalence of Age-Related Maculopathy and Age-Related Macular Degeneration among the Inuit in Greenland The Greenland Inuit Eye Study. *Ophthalmology*, Feb 2008.
- [13] J. Johannesen, S. Eising, S. Kohlwes, S. Riis, M. Beck, B. Carstensen, I. Bendtson, and J. Nerup. Treatment of Danish adolescent diabetic patients with CSII - a matched study to MDI. *Pediatr Diabetes*, 9:23–28, Feb 2008.
- [14] 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.

- [15] C. Lau, C. Glümer, U. Toft, I. Tetens, B. Carstensen, T. Jørgensen, and K. Borch-Johnsen. Identification and reproducibility of dietary patterns in a Danish cohort: the Inter99 study. *Br J Nutr*, pages 1–10, Oct 2007.
- [16] B Carstensen. Age-Period-Cohort models for the Lexis diagram (author’s reply). *Statistics in Medicine*, 27:1561–1564, 2007.
- [17] J Rosenbauer and K Strassburger. Comments on: ”Age-Period-Cohort models for the Lexis diagram”. *Statistics in Medicine*, 27:1557–1561, 2007.
- [18] 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.
- [19] J Svensson, B Carstensen, HB Mortensen, K Borch-Johnsen, and the Danish Study Group of Childhood Diabetes (DSBD). Growth in the first year of life and the risk of type 1 diabetes in a Danish population. *Paediatric and Perinatal Epidemiology*, 21:44–48, 2007.
- [20] Marina L Hughes, Bendix Carstensen, James L Wilkinson, and Robert G Weintraub. Angiographic diagnosis, prevalence and outcomes for left ventricular noncompaction in children with congenital cardiac disease. *Cardiol Young*, 17(1):56–63, Feb 2007.
- [21] B Carstensen. Age-Period-Cohort models for the Lexis diagram. *Statistics in Medicine*, 26(15):3018–3045, July 2007.
- [22] A M Vaiserman, B Carstensen, V P Voitenko, M D Tronko, V I Kravchenko, M D Khalangot, and L V Mechova. Seasonality of birth in children and young adults (0-29 years) with type 1 diabetes in Ukraine. *Diabetologia*, 50(1):32–35, Jan 2007.
- [23] Nina Martinsen, Marit E Jorgensen, Peter Bjerregaard, Allan Krasnik, Bendix Carstensen, and Knut Borch-Johnsen. Predictions of type 2 diabetes and complications in Greenland in 2014. *Int J Circumpolar Health*, 65(3):243–252, Jun 2006.
- [24] K Akram, U Pedersen-Bjergaard, B Carstensen, K Borch-Johnsen, and B Thorsteinsson. Frequency and risk factors of severe hypoglycaemia in insulin-treated Type 2 diabetes: A cross-sectional survey. *Diabet Med*, 23(7):750–756, Jul 2006.
- [25] 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://biostat.ku.dk/reports/2006/rr-06-2.pdf/>, 2006.
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- [27] Jannet Svensson, Bendix Carstensen, Henrik B Mortensen, and Knut Borch-Johnsen. Early childhood risk factors associated with Type 1 diabetes — Is gender important? *Eur J Epidemiol*, 20(5):429–434, 2005.
- [28] 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.
- [29] Sara K Hansen, Eva-Maria D Nielsen, Jakob Ek, Gitte Andersen, Charlotte Glümer, Bendix Carstensen, Peter Mouritzen, Thomas Drivsholm, Knut Borch-Johnsen, Torben Jorgensen, Torben Hansen, and Oluf Pedersen. Analysis of separate and combined effects of common variation in KCNJ11 and PPARG on risk of type 2 diabetes. *J Clin Endocrinol Metab*, 90(6):3629–3637, Jun 2005.
- [30] Cathrine Lau, Kristine Faerch, Charlotte Glümer, Inge Tetens, Oluf Pedersen, Bendix Carstensen, Torben Jorgensen, and Knut Borch-Johnsen. Dietary glycemic index, glycemic load, fiber, simple sugars, and insulin resistance: the Inter99 study. *Diabetes Care*, 28(6):1397–1403, Jun 2005.
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- [35] M N Skov, A G Spencer, B Hald, L Petersen, B Nauerby, B Carstensen, and M Madsen. The role of litter beetles as potential reservoir for *Salmonella enterica* and thermophilic *Campylobacter* spp. between broiler flocks. *Avian Dis*, 48(1):9–18, Jan 2004.
- [36] B Carstensen. Comparing and predicting between several methods of measurement. *Biostatistics*, 5(3):399–413, Jul 2004.
- [37] 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.

- [38] P. Jacobsen, L. Tarnow, B. Carstensen, P. Hovind, O. Poirier, and H. H. Parving. Genetic variation in the Renin-Angiotensin system and progression of diabetic nephropathy. *J. Am. Soc. Nephrol.*, 14:2843–2850, Nov 2003.
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- [42] Eva-Maria D Nielsen, Lars Hansen, Bendix Carstensen, Soren M Echwald, Thomas Drivsholm, Charlotte Glümer, Birger Thorsteinsson, Knut Borch-Johnsen, Torben Hansen, and Oluf Pedersen. The E23K variant of Kir6.2 associates with impaired post-OGTT serum insulin response and increased risk of Type 2 diabetes. *Diabetes*, 52(2):573–577, Feb 2003.
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- [52] E Lorenzen, B Carstensen, and N J Olesen. Inter-laboratory comparison of cell lines for susceptibility to three viruses: VHSV, IHN and IPNV. *Dis Aquat Organ*, 37(2):81–88, Jul 1999.
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- [54] F M Aarestrup and B Carstensen. Effect of tylosin used as a growth promoter on the occurrence of macrolide-resistant enterococci and staphylococci in pigs. *Microb Drug Resist*, 4(4):307–312, Winter 1998.
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- [58] K J Hamberg, B Carstensen, T I Sørensen, and K Eghøj. Accuracy of clinical diagnosis of cirrhosis among alcohol-abusing men. *J Clin Epidemiol*, 49(11):1295–1301, Nov 1996.
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- [81] Bendix Carstensen. %lexis: a SAS-macro for splitting follow-up time. www.biostat.ku.dk/~bxc/Lexis/Lexis.sas, Accessed Tuesday 30th March, 2010.

Selected talks and presentations

Slide presentations for most of these are available at my homepage.

- Comparing and predicting between measurement methods. ISCB, Stockholm, August 2001.
- Comparing and predicting between measurement methods. CEBU, Royal Children’s Hospital, Melbourne, 30 April, 2003.
- Nested and matched case-control studies. Invited seminar at NHMRC Clinical Trials Centre, Sydney, 23 May 2003.
- Age-period-cohort models: beyond the 5×5 year classes. 3rd Nordic Conference on Epidemiology, Kuopio, Finland, June 2004.
- Who needs the Cox model anyway? ISCB, Leiden, Netherlands, August 2004.
- Residual confounding. Invited talk, Danish Epidemiological Society, Hindsgavl, September 2004.
- Who needs the Cox model anyway? La Sapienza, Rome, September 2004.
- Demography and epidemiology: Practical use of the Lexis diagram in the computer age. Invited talk, Finnish Statistical Society, Oulu, May 2005.
- Demography and epidemiology: Age-Period-Cohort models in the computer age. ISCB 26, Szeged, August 2005.

- Who needs the Cox model anyway? Statistical Society of Australia, Melbourne, 13 December 2006.
- Comparing measurement methods. ISCB, Alexandroupolis, Greece, August 2007.
- The Danish National Diabetes Register. 43rd meeting of the European Association for the Study of Diabetes, Amsterdam, September 2007.
- Method Agreement for Continuous Responses. Invited talk, NordStat2008, Vilnius, June 2008.
- Models for Method Comparison Studies, 29th ISCB, Copenhagen, August 2008.
- Future burden of Diabetes: The Danish National Diabetes Register. 44th meeting of the European Association for the Study of Diabetes, Rome, September 2008.
- Overview of Danish National Diabetes Registry projects. Invited talk, ACHORD scientific retreat, Banff, March 2009.
- Lexis diagrams and analysis of register data: Practical use of Lexis diagrams in the analysis and routine reporting from population registers. Statistics for Health Registers and Linked Databases Milton Keynes, UK, May 2009
- Practical aspects of multistate modelling: Representation, timescales and prediction. Invited talk, ISI2009, Durban, August 2009. [Also given at Department of Biostatistics, UNiversity of Copenhagen, November 2009]
- Cancer pattern among Danish diabetes patients. Association of Nordic Cancer Registries, Sigtuna, Sweden, September 2009

Software

- Main author of the SAS-macro %Lexis.sas for use in time-splitting of follow-up studies, particularly in register-follow-up. Available as:
<http://www.pubhealth.ku.dk/~bxc/Lexis/Lexis.sas>.
- I maintain the Epi package for **R**. Further details about the package and latest version available at:
<http://www.pubhealth.ku.dk/~bxc/Epi>
- I am the main author and maintainer of the MethComp package for **R**. Further details about the package and latest version available at:
<http://www.pubhealth.ku.dk/~bxc/MethComp>

Referee activity

I have since 2006 been the consultant statistical reviewer for “Diabetologia”, official journal of the European Association for the Study of Diabetes (EASD).

The years below refer to the year of sending the report to the editor, not to potential year of publication.

Year	#		
		Acta Oncologica	2009
		American Journal of Epidemiology	2002, 2009
		BioMedCentral Cancer	2002
		BioMedCentral Nephrology	2002
		BioMedCentral Cancer	2004, 2005
		BioMedCentral Medical Genetics	2004
		BioMedCentral Infectious diseases	2004, 2005(2)
		BioMedCentral Medical Informatics and Decision making	2004
		BioMedCentral Public Health	2006(2), 2007
		BioMedCentral Medical Research Methodology	2008
		BioMedCentral Surgery	2006
		Biometrical Journal	2004
		Biometrics	1991, 1992, 1994, 1995,
			1996(3), 1998, 2005, 2008
		British Journal of Cancer	1994, 1995
		Computational Statistics and Data Analysis	1994
		Diabetes	2000(2)
		Diabetic Medicine	2004, 2005, 2006, 2009(2)
		Diabetes & Metabolism	2008
		Diabetologia	2005(6), 2006(7),
			2007(12), 2008(8), 2009(8)
		Epidemiology	2008(2), 2009
		European Journal of Public Health	1994, 1996(2), 1998
		European Journal of Cancer	1996(2), 1997, 2006
		Informatik, Biometrie und Epidemiol in Med und Biol	1994
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