Knute D. Carter

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Education

Ph.D.	Biostatistics	The University of Iowa	2013
M.S.	Biostatistics	The University of Iowa	2007
B.Sc. (Hons)	Ma. & Comp. Sc.	The University of Adelaide	1993
B.Sc.	Ma. & Comp. Sc.	The University of Adelaide	1992

Current Position and Appointments

Aug 2022 – present
Clinical Associate Professor; Department of Biostatistics, The University of Iowa
Jul 2026 – present
Director of Graduate Studies; Department of Biostatistics, The University of Iowa
Director; Statistics & Analytics Core,
Institute for Public Health Practice, Research and Policy, The University of Iowa

Previous Positions

Aug 2016 – Jun 2026	Deputy Director, Statistics & Analytics Core, Institute for Public Health Practice, Research and Policy, (formerly Center for Public Health Statistics), The University of Iowa
Aug 2016 – Jul 2022	Clinical Assistant Professor Department of Biostatistics, The University of Iowa
Aug 2014 – Aug 2016	Visiting Assistant Professor Department of Biostatistics, The University of Iowa
Jan 2014 – Aug 2016	Associate Research Scientist Center for Public Health Statistics, The University of Iowa
Jan 2014 – May 2014	Adjunct Assistant Professor Department of Biostatistics, The University of Iowa
Jan 2005 – Jan 2014	Graduate Research Assistant Public Policy Center, The University of Iowa
May 2012 – Aug 2012	Graduate Research Assistant Center for Public Health Statistics, The University of Iowa
Sep 2003 – Mar 2004	Research Fellow (Statistics) School of Dental Science, The University of Melbourne
Apr 1994 – Mar 2003	Research Officer AIHW Dental Statistics and Research Unit, Dental School, The University of Adelaide
Dec 1992 – Mar 1993	Research Officer Senior Secondary Assessment Board of South Australia

Research Interests

Biostatistics	Model Selection	Observational Data Analysis
Analysis of Health Claims	Population Survey Methods	Survival Analysis

Awards for Teaching

- College of Public Health Faculty Teaching Award (< 10 years), 2020.

Teaching Experience

Course Title	Institution	Terms Instructed
Introductory Longitudinal Data Analysis	The University of Iowa	1 (Instructor of Record)
Public Health Science	The University of Iowa	10 (Instructor/co-instructor)
Introduction to Biostatistics	The University of Iowa	10 (Instructor of Record)
Applied Categorical Data Analysis	The University of Iowa	1 (Instructor of Record)
Applied Survival Analysis	The University of Iowa	3 (Instructor of Record)
Scholarly Integrity in Biostatistics	The University of Iowa	2 (Instructor of Record)
Introduction to Research Methods	The University of Adelaide	3 (Instructor of Record)
Inference II	The University of Adelaide	2 (Teaching Assistant)
Distribution Theory II	The University of Adelaide	2 (Teaching Assistant)

Ph.D. Dissertation

- Carter, K. D. (2013). "Best-Subset Model Selection Based on Multitudinal Assessments of Likelihood Improvements." Dissertation advisor: Professor Joseph E. Cavanaugh.

Refereed Publications *(S: submitted, A: accepted, IP: in press)*

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MyNCBI: https://www.ncbi.nlm.nih.gov/myncbi/knute.carter.1/bibliography/public/

[S] Orzel, J., Huang, A., Shelton, J., Carter, K. D., Fuller, L., Cooper, C., and Edwards, A. (2025+). Bladder and bowel dysfunction in children with ADHD and comorbid psychiatric diseases. *Clinical Practice in Pediatric Psychology*, [Submitted, Mar 2025].

[S] Shields, R. K., Dudley–Javoroski, S., Carter, K. D., and Zorn, A. (2025+). Gender-based differences in student traits and learner experiences in medical and physical therapy education. *BMC Medical Education*, [Submitted, Feb 2025].

[S] Swanson, M. B., Torner, J. C., Carter, K. D., Carnahan, R. M., Zhao, K., and Mohr, N. M. (2025+). Geographic proximity to care, childhood opportunity, and clinical outcomes in pediatric sepsis. *Pediatric Emergency Care*, [Submitted, Aug 2024].

[S] Laroia, S., Saad Eddin, A., Rao, K., Pham, H., Davis, C., Carter, K. D., and Davis, T. (2025+). Implementations of standardized chest tube removal protocol in patients with pneumothorax following CT guided percutaneous lung biopsy reduces complications: a retrospective analysis of 725 patients. *Journal of Vascular and Interventional Radiology*, [Submitted, Jun 2024].

[S] Ortega-Verdugo, P., Warren, J., Shane, D., Kolker, J., Carter, K. D., Gaeth, G., and Kateeb, E. (2025+). Cost-effectiveness of stepwise removal versus traditional caries removal. *JDR Clinical & Translational Research*, [Submitted, Jun 2024].

[64] Vakkalanka, J. P., Young, T. L., Bianchi, G., Ullrich, F., Carter, K. D., Mohr, N. M., and Gutierrez, J. (2026). Outcomes associated with hospital at home vs traditional inpatient stay. *JAMA Network Open*, **9**(5), e2610810. DOI: 10.1001/jamanetworkopen.2026.10810

[63] Lockwood, G., Leach, A. J., Shelton, J., Carter, K. D., Hansen, J., Edwards, A., Storm, D. W., Zee, R. S., Ebert, K., Wojcik, L., Cannon, S. T., Chamberlin, J. D., Sheth, K., Fox, J., Braga, L. H., Welch, V., Khoury, A. E., Kern, N. G., Davis–Dao, C., Dudley, A. G., Wehbi, E., Williamson, S., Herndon, C. D. A., and Cooper, C. S. (2025). Interrater reliability of objective and subjective measures of urinary tract dilation by pediatric urologists: a multicenter analysis. *Journal of Pediatric Urology*, **21**(6), 1764–1770. DOI: 10.1016/j.jpurol.2025.06.025

[62] Vakkalanka, J. P., Young, T., Carter, K. D., Ullrich, F., Ward, M. M., and Mohr, N. M. (2025). Permissive telehealth state licensure policies are associated with increased telehealth utilization. *Telemedicine and e-Health*, **31**(9), 1096–1105. DOI: 10.1089/tmj.2025.0089

[61] Liang, I.-C., Gilardoni, E., Berdaweel, I. A., Carter, K. D., and Anderson, E. J. (2025). Low plasma carnosinase-1 activity in patients with left ventricular systolic dysfunction: implications for carnosine therapy in heart failure. *International Journal of Molecular Sciences*, **26**(6), 2608. DOI: 10.3390/ijms26062608

[60] Priya, S., Reutzel, A., Ferreira Dalla Pria, O. A., Goetz, S., Pham, H. T. D., Alatoum, A., Aher, P. Y., Narayanasamy, S., Nagpal, P., and Carter, K. D. (2025). Addressing inter-reconstruction variability in multi-energy myocardial CT radiomics: the benefits of ComBat harmonization. *European Journal of Radiology*, **183**(Feb), 111891. DOI: 10.1016/j.ejrad.2024.111891

[59] Vakkalanka, J. P., Lund, B. C., Arndt, S., Carter, K. D., and Carnahan, R. (2025). The association between telehealth use during buprenorphine treatment for opioid use disorder and clinical outcomes: a retrospective cohort study. *Telemedicine and e-Health*, **31**(3), 257–268. DOI: 10.1089/tmj.2024.0410

[58] Livorsi, D. J., Packiam, V. T., Shi, Q., Alberding, S. Y., Carter, K. D., Brown, J. A., Mason, J. B., Weiss, J. P., and Steinberg, R. L. (2025). A pilot intervention trial to reduce the use of post-procedural antimicrobials after common endourologic surgeries. *Infection Control and Hospital Epidemiology*, **46**(1), 50–56. DOI: 10.1017/ice.2024.172

[57] Law, K. B., McCord, C., Ward, M. M., Ullrich, F., Marcin, J. P., Carter, K. D., Nelson, E. L., and Merchant, K. A. S. (2025). Differences in behavioral health treatment among rural American clinics utilizing in-person and telehealth treatment modalities. *Journal of Technology in Behavioral Science*, **10**(2), 364–372. DOI: 10.1007/s41347-024-00436-4

[56] Renner, L. M., Hartley, C. C., and Carter, K. D. (2024). It's not all or nothing: women's differential use of help-seeking strategies in response to intimate partner violence. *Journal of Family Violence*. DOI: 10.1007/s10896-024-00717-9

[55] O'Shea, A. M. J., Mulligan, K., Carter, K. D., Haraldsson, B., Wray, C. M., Shahnazi, A., and Kaboli, P. J. (2024). Comparing Federal Communications Commission and Microsoft estimates of broadband access for mental health video telemedicine among veterans: retrospective cohort study. *Journal of Medical Internet Research*, **26**, e47100. DOI: 10.2196/47100

[54] Dudley–Javoroski, S., Cooper, C. S., Jackson, J. B., Zorn, A., Carter, K. D., and Shields, R. K. (2024). Tolerance for ambiguity: correlations with medical and physical therapy student traits and experiences within the learning environment. *Academic Medicine*, **99**(6), 644–653. DOI: 10.1097/ACM.0000000000005631

[53] Vakkalanka, J. P., Holcombe, A., Ward, M. M., Carter, K. D., McCoy, K. D., Clark, H. M., Gutierrez, J. T., Merchant, K. A. S., and Mohr, N. M. (2024). Chronic disease management through clinical video telehealth on health care utilization, and mortality in the Veterans Health Administration: a retrospective cohort study. *Telemedicine and e-Health*, **30**(5), 1279–1288. DOI: 10.1089/tmj.2023.0285

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[48] Ortega-Verdugo, P., Warren, J. J., Gaeth, G. J., Carter, K. D., Kateeb, E., Kolker, J. L., and Shane, D. M. (2023). Assessing the acceptability of less invasive caries removal techniques for treating deep carious lesions: a conjoint survey among dentists practicing in a midwestern American state. *Caries Research*, **57**(3), 243–254. DOI: 10.1159/000533658

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[43] Ward, M. M., Carter, K. D., Bhagianadh, D., Ullrich, F., Merchant, K. A. S., Marcin, J. P., Law, K. B., McCord, C., Neufeld, J., Nelson, E., and Shane, D. M. (2023). Comparison of telehealth and in-person behavioral health services and payment in a large rural multi-site usual care study. *Telemedicine and e-Health*, **29**(11), 1613–1623. DOI: 10.1089/tmj.2022.0445

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[38] Ward, M. M., Ullrich, F., Merchant. K. A. S., Carter, K. D., Bhagianadh, D., Lacks, M., Taylor, E., and Gordon, J. (2022). Describing changes in telebehavioral health utilization and services delivery in rural school settings in pre- and early stages of the COVID-19 public health emergency. *Journal of School Health*, **92**(5), 452–460. DOI: 10.1111/josh.13150

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[35] Del Vecchio, N. J., McDowell, B. D., Carter, K. D., Askelson, N. M., Chrischilles, E. A., Lynch, C. F., and Charlton, M. E. (2021). Relationships between health literacy, having a cancer care coordinator, and long-term health-related quality of life among cancer survivors. *Supportive Care in Cancer*, **29**(12), 7913–7924. DOI: 10.1007/s00520-021-06356-w

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[32] Ward, M. M., Carter, K. D., Ullrich, F., Merchant, K. A. S., Natafgi, N., Zhu, X., Weigel, P., Heppner, S., and Mohr, N. M. (2021). Averted transfers in rural emergency departments using telemedicine: rates and costs across six networks. *Telemedicine and e-Health*, **27**(5), 481–487. DOI: 10.1089/tmj.2020.0080

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[30] Nidey, N., Carnahan, R., Carter, K. D., Strathearn, L., Bao, W., Greiner, A., Jelliffe-Pawlowski, L., Tabb, K. M., and Ryckman, K. (2020). Association of mood and anxiety disorders and opioid prescription patterns among postpartum women. *The American Journal on Addictions*, **29**(6), 463–470. DOI: 10.1111/ajad.13028

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and Surveillance Consortium (CanCORS). (2016). The effect of receiving treatment within a clinical trial setting on survival and quality of care perception in advanced stage non-small cell lung cancer. *American Journal of Clinical Oncology*, **39**(2), 126–131. DOI: 10.1097/COC.0000000000000029

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Policy Reports

- Vakkalanka, J. P., Young, T., Carter, K. D., Ullrich, F., Ward, M. M. and Mohr, N. M. (2025) State-Level Interstate Medical Licensure Policies for Telehealth from 2018–2022: Assessing Changes Before and After the Onset of the COVID-19 Public Health Emergency. Rural Telehealth Research Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T., and Carter, K. D. (2013). Iowa Family Planning Demonstration Evaluation Second Waiver Period. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T., Damiano, P. C. and Carter, K. D. (2013). Outcomes of care for Iowa Medicaid enrollees: state fiscal year 2012. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Damiano, P. C., Willard, J. C., Momany, E. T., Park, K., Skemp, E. and Carter, K. D. (2011). Evaluation of the IowaCare program: baseline information for the medical home expansion. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T. and Carter, K. D. (2011). Iowa family planning demonstration evaluation. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T., Damiano, P. C. and Carter, K. D. (2011). Outcomes of care for Iowa Medicaid enrollees: state fiscal year 2010. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T., Carter, K. D. and Damiano, P. C. (2011). Outcomes of the IowaCare program for year ending September 30, 2010. Public Policy Center, The University of Iowa, Iowa City, Iowa.
- Momany, E. T. and Carter, K. D. (2010). Iowa family planning demonstration evaluation: annual report. Public Policy Center, The University of Iowa, Iowa City, Iowa.

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- Chalmers, J. M., Spencer, A. J., Carter, K. D., King, P. L. and Wright, C. (2009). Caring for oral health in Australian residential care. Dental statistics and research series no. 48. AIHW cat. no. DEN 193. Australian Institute of Health and Welfare, Canberra, Australia.
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- Teusner, D. N., Mihailidis, S., Carter, K. D. and Spencer, A. J. (2005). The South Australian dental labour force. AIHW cat. no. POH 5. Australian Institute of Health and Welfare, Canberra, Australia.
- Momany, E. T., Damiano, P. C. and Carter, K. D. (2005). Outcomes of care for Iowa Medicaid managed care enrollees: state fiscal years 2003 and 2004. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, Iowa.
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- Chalmers, J. M., Carter, K. D. and Spencer, A. J. (2005). The oral health of older adults with dementia. Dental statistics and research series no. 29. AIHW cat. no. DEN 111. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Spencer, A. J., Teusner, D. N., Carter, K. D. and Brennan, D. S. (2003). The dental labour force in Australia: the position and policy directions. AIHW cat. no. POH 2. Australian Institute of Health and Welfare, Canberra, Australia.
- Carter, K. D. and Stewart, J. F. (2003). National dental telephone interview survey 2002. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- AIHW DSRU (2002). Public perceptions of dentistry: stimulus or barrier to better oral health. Dental statistics and research series no. 25. AIHW cat. no. DEN 96. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

- Carter, K. D. and Stewart, J. F. (2002). National dental telephone interview survey 1999. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2002). Rural oral health and access to dental care – 1994–96 and 1999: research report. AIHW cat. no. DEN 86. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Chalmers, J. M., Carter, K. D., Hodge, C. P., Fuss, J. M. and Spencer, A. J. (2001). The Adelaide dental study of nursing homes: one-year follow-up 1999. Dental statistics and research series no. 23. AIHW cat. no. DEN 84. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- AHMAC (2001). Oral health of Australians: national planning for oral health improvement: final report. South Australian Department of Human Services, Adelaide, South Australia.
- DSRU (2001). Oral health and access to dental care – the gap between the 'deprived' and the 'privileged' in Australia: research report. AIHW cat. no. DEN 67. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2001). Oral health and access to dental care – 1994–96 and 1999: research report. AIHW cat. no. DEN 73. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Chalmers, J. M., Hodge, C. P., Fuss, J. M., Spencer, A. J. and Carter, K. D. (2000). The Adelaide dental study of nursing homes 1998. Dental statistics and research series no. 22. AIHW cat. no. DEN 83. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). Oral health and access to dental care – older adults in Australia: research report. AIHW cat. no. DEN 72. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). The Adelaide dental study of nursing homes: one-year follow-up: research report. AIHW cat. no. DEN 71. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). Oral health and access to dental care – migrants in Australia: research report. AIHW cat. no. DEN 70. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). Access to dental services of Australian children and adolescents: research report. AIHW cat. no. DEN 68. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). Oral health and access to dental services among Indigenous Australians: research report. AIHW cat. no. DEN 64. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Chalmers, J. M., Hodge, C. P., Fuss, J. M., Spencer, A. J. and Carter, K. D. (1999). The Adelaide dental study of nursing homes: baseline data collection report 1998. AIHW cat. no. DEN 53. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
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- DSRU (1999). Adult oral health and access to dental care: research report. AIHW cat. no. DEN 62. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (1999). Oral health and access to dental care in rural and remote areas of Australia: research report. AIHW cat. no. DEN 50. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Stewart, J. F., Carter, K. D. and Brennan, D. S. (1998). Adult access to dental care – rural and remote dwellers. Dental statistics and research series no. 17. AIHW cat. no. DEN 41. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

- Carter, K. D. (Chapter 4) in DSRU (1998). Australia's oral health and dental services. Dental statistics and research series no. 18. AIHW cat. no. DEN 13. AIHW Dental Statistics and Research Unit, Canberra, Australia.
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- Brennan, D. S. and Carter, K. D. (1998). Adult access to dental care – Indigenous Australians. Dental statistics and research series no. 16. AIHW cat. no. DEN 40. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Brennan, D. S., Carter, K. D., Stewart, J. F. and Spencer, A. J. (1997). Commonwealth Dental Health Program evaluation report 1994–1996. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (Carter, K. D., Brennan, D. S. and Stewart, J. F.). (1996). Commonwealth Dental Health Program research report 3. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (Carter, K. D., Brennan, D. S. and Stewart, J. F.). (1995). Commonwealth Dental Health Program research report 2. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (Carter, K. D., Brennan, D. S. and Stewart, J. F.). (1995). Commonwealth Dental Health Program research report 1. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Allister, J. H., Brennan, D. S., Carter, K. D., Davies, M. J., Slade, G. D., Spencer, A. J., Stewart, J. F., Szuster, F. S. P. and Thomson, W. M. (1995). Commonwealth Dental Health Program baseline evaluation report 1994. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Carter, K. D. (1995). National dental telephone interview survey 1995. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- Carter, K. D., Stewart, J. F., Davies, M. J., Szuster, F. S. P., Allister, J. H., Slade, G. D. and Spencer, A. J. (1994). National dental telephone interview survey 1994. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

Consultancy Reports

- DSRU (2000). The 1999 Victorian oral health services labour force planning project. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (2000). Evaluation of the impact of the introduction of copayments in public dental services – Report 4. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (1999). Evaluation of the impact of the introduction of copayments in public dental services. Interim Report Number 3. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
- DSRU (1998). Evaluation of the impact of the introduction of copayments in public dental services. Interim Report Number 1. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

Invited Presentations

- Carter, K. D. and Chorazy, M. L. (October, 2018). Designing and redesigning a new undergraduate course. ICONext, University of Iowa; Iowa City, Iowa.
- Carter, K. D. and Hovland, M. (January, 2017). UI predictive modeling for recruitment and retention. BI Community Presentation, University of Iowa; Iowa City, Iowa.
- Carter, K. D. (April, 2016). Using SAS to connect to the data warehouse. UI Informatics Showcase Symposium, University of Iowa; Iowa City, Iowa.
- Carter, K. D. and Brown, G. D. (December, 2015). Predictive modelling techniques with application to enrollment management at UI. Departmental Colloquium, Department of Biostatistics, University of Iowa; Iowa City, Iowa.
- Carter, K. D. (October, 2015). Using SAS to connect to the data warehouse. Institutional Data Users Group, University of Iowa; Iowa City, Iowa.

Contributed Presentations: Conferences and Meetings

- Carter, K. D. and Chorazy, M. L. Designing and redesigning a new undergraduate course. Unizin Summit 2019, Denver, Colorado, USA, 17–19 April 2019.
- Chorazy, M. L., Carter, K. D., and Strack, S. Breaking down silos: an integrated approach to teaching epidemiology and biostatistics in undergraduate public health programs. 2019 Undergraduate Public Health and Global Health Education Summit, Arlington, Virginia, USA, 20 March 2019.
- Nidey, N., Carnahan, R., Carter, K. D., Jasper, E., Greiner, A., Tabb, K. M., Jelliffee-Pawlowski, L., and Ryckman, K. Mental health disorders & postpartum opioid prescription patterns. The Society for Maternal-Fetal Medicine, The Pregnancy Meeting, 39th Annual Meeting, Las Vegas, Nevada, USA, 11–16 February 2019.
- Zamba, K. D., Ahrens, M., Carter, K. D., and Wall, M. Divergence measures between normal subjects and glaucoma patients with mild visual loss using threshold automated perimetry of the full visual field. 23rd International Visual Field and Imaging Symposium, Ishikawa Ongakudo, Kanazawa, Japan, 11–13 May 2018.
- Donovan, B. M., Breheny, P. J., Baer, R. J., Robinson, J. G., Saftlas, A. F., Bao, W., Greiner, A. L., Carter, K. D., Rand, L., Jelliffee-Pawlowski, L., and Ryckman, K. Development and validation of a clnical model for early pregnancy prediction of gestational diabetes mellitus risk in nulliparous women. The Society for Maternal-Fetal Medicine, The Pregnancy Meeting, 38th Annual Meeting, Dallas, Texas, USA, 29 January – 3 February 2018.
- Askelson, N. M., Chi, D. L., Carter, K. D., Momany, E. T., Kuthy, R., Hanson, J., Ortiz, C. and Damiano, P. C. Health communication interventions to increase early preventive dental visits for preschool-age children enrolled in Medicaid: a formative research perspective. 140th American Public Health Association Annual Meeting, San Francisco, California, 27–31 October 2012.
- Carter, K. D., Chalmers, J. M., Spencer, A. J., Roberts-Thomson, K. F. and Thomson, W. M. Challenges in caries analysis for longitudinal geriatric oral epidemiological studies. 84th General Session of the International Association for Dental Research, Brisbane, Australia, 28 June – 1 July 2006.
- Spencer, A. J., Carter, K. D. and Brennan, D. S. Current and future demand for dental services in Australia. J Dent Res 2001;80(4):978 (Abstract no. 232). 40th Annual Scientific Meeting of the International Association of Dental Research (Australian & New Zealand Division), Perth, 2–5 July 2000.

- Carter, K. D. and Stewart, J. F. Oral health status and access to dental care for rural and remote older Australians. Book of Abstracts 2000:26 (Abstract no. 39). The First International Conference on Rural Aging, Charleston, West Virginia, USA, 7–11 June 2000.
- Carter, K. D. and Stewart, J. F. Influence of perceived need on use of dental services. Conference book 1999:37 (Abstract no. 7). American Association of Public Health Dentistry, 62nd Annual Meeting, Honolulu, Hawaii, 6–8 October 1999.
- Carter, K. D. Utilisation of dental services during a public-funded dental program. Program and Abstracts 1997:174. Public Health Association of Australia 29th Annual Conference Melbourne 5–8 October 1997.
- Carter, K. D. Characteristics of long-term non-attenders of dental services. Conference book 1996:173. Public Health Association of Australia, 28th Annual Conference, Perth, 29 September – 2 October 1996.
- Gaughwin, A., Carter, K. D. and Spencer, A. J. Social values of parents in choice of children's dental care. J Dent Res 1995;74:409 (Abstract no. 72). International Association for Dental Research, 73rd General Session Singapore, 28 June – 1 July 1995.
- Carter, K. D. and Spencer, A. J. Analysis of waiting times for dental care. J Dent Res 1995;74:756 (Abstract no. 83). International Association for Dental Research, Australian and New Zealand Division, Melbourne, 25–28 September 1994.

- Currently funded as a co-investigator on a National Institutes of Health R01 grant (R01–HL173594). Project Title: "Characterizing a High Reliability Implementation Program for Sepsis: Sepsis Tools AND Accurate Reporting of Outcome Differences (STANDARD) Study." PI: Nick Mohr Amount of funding: 5% of salary. Period of funding: August 2025 to June 2029.
- Currently funded on a Iowa Department of Health & Human Services contract. Project Title: "Identifying Key Drivers of Cancer in Iowa." PI: Edith Parker Amount of funding: 5% of salary. Period of funding: July 2025 to July 2027.
- Currently funded as a co-investigator on a Congressionally Directed Medical Research Programs (DoD) grant (HT94252410160). Project Title: "Women's Health in Tuberous Sclerosis Complex: A Population Based Assessment of Morbidity to Inform Clinical Care." PI: Lyndsay Harshman Amount of funding: 3% of salary. Period of funding: July 2024 to July 2027.
- Currently funded as a co-investigator on a National Institutes of Health R01 grant (5 R01 HD106986-02; subaward 30007487-03). Project Title: "Emerging Challenges in NBS: Benefits and Harms of Receiving Uncertain Prognoses after NBS." PI: Beth Tarini Amount of funding: 5% of salary. Period of funding: September 2022 to September 2027.
- Currently funded as a co-investigator on a US DHHS, Health Resources & Services Administration grant (6 U3G RH40003-05-05). Title of proposal: "Telehealth Focused Rural Health Research Center Cooperative Agreement." PI: Nick Mohr. Amount of funding: 4% of salary. Period of funding: September 2020 to September 2030.
- Currently funded on a IA DHS; US DHHS, Centers for Medicare & Medicaid Services grant (MED-21-008). Title of proposal: "Evaluation of the Iowa Wellness Plan Section 1115 Demonstration." PI: Natoshia Askelson. Amount of funding: 10% of salary. Period of funding: July 2020 to July 2026.
- Currently funded as a co-investigator on an Iowa Department of Public Health (Centers for Disease Control & Prevention) grant (PUHE-CCI-25-702). Title of proposal: "Screening Data Management." PI: Jacob Oleson. Amount of funding: 4% of salary. Period of funding: August 2016 to July 2026.
- Funded as a co-investigator on a National Institutes of Health R01 grant (R01–HD095068). Title of proposal: "Unresolved Issues in Newborn Screening: Quantifying the Harms of a False Positive Result." PI: Beth Tarini. Amount of funding: 10% of salary. Period of funding: September 2018 to June 2023.
- Funded as a co-investigator on a Health Resources and Services Administration grant (U1C–RH29074). Title of proposal: "Telehealth Focused Rural Health Research Center Cooperative Agreement." PI: Marcia Ward. Amount of funding: 10% of salary. Period of funding: November 2015 to August 2019.
- Funded as a co-investigator on a Centers for Medicare & Medicaid Services grant (MED–16–022). Title of proposal: "Iowa's State Innovation Models (SIM)." PI: Peter Damiano. Amount of funding: 10% of salary. Period of funding: May 2017 to April 2019.
- Funded as a co-investigator on a Centers for Disease Control & Prevention grant (U01–DD001118). Title of proposal: "Comp D – Cost of Illness Analysis of Muscular Dystrophies and Neuromuscular Disorders." PI: Paul Romitti. Amount of funding: 5% of salary. Period of funding: September 2016 to August 2018.
- Funded as a co-investigator on a Centers for Disease Control & Prevention grant (U01–DD001119). Title of proposal: "Comp A – MD and Neuromuscular Disorder Surveillance and Research in Iowa." PI: Paul Romitti. Amount of funding: 5%–10% of salary. Period of funding: March 2016 to December 2017.

- Funded as a co-investigator on a Centers for Disease Control & Prevention grant (U01–DD001118). Title of proposal: "Comp D – Cost of Illness Analysis of Muscular Dystrophies and Neuromuscular Disorders." PI: Paul Romitti. Amount of funding: 10% of salary. Period of funding: September 2015 to February 2016.
- Funded as a co-investigator on a National Health and Medical Research Council grant. Title of proposal: "The Oral Health of Community-Living Older Adults with Dementia." PI: A. John Spencer.
- Funded as a co-investigator on a National Health and Medical Research Council grant. Title of proposal: "The South Australian Longitudinal Study." PI: Jane Chalmers.
- Funded as a co-investigator on a National Health and Medical Research Council grant. Title of proposal: "Explaining social inequality in population oral health using a multilevel approach." PI: A. John Spencer.

Graduate Advising

- Served on 20 doctoral committees, including 2 current.
- Supervised 5 preceptorships.
- Have been a member of 17 comprehensive individualized Ph.D. exam committees.

Professional Activities: Instiutional

- Faculty Senate (Fall 2024, Fall 2025)
- UI Working Group: Integrative Student Success – Predictive Data and Systems Tactic (2023–24)

Professional Activities: Collegiate

University of Iowa, College of Public Health

- Faculty Council (elected, Jun 2020 – present)
- MPH Program Committee (Nov 2017 – present)
- Co-Chair Strategic Planning Committee (Oct 2019 – Jun 2021)
- Undergraduate Public Health Methods Course Developers Group (Jan 2016 – Dec 2019)
- Research Council, Center Representative (elected, Aug 2016 – May 2019)
- Statistical Methods Task Force (Apr 2017 – Apr 2019)
- Curricular Innovations (MPH Program) Committee (Aug 2016 – Oct 2017)

Professional Activities: Departmental

University of Iowa, College of Public Health, Department of Biostatistics

- MPH / Certificate Admissions Committee (Sep 2024 – present)
- Chair, M.S. Core Exam Committee (Summer 2020–2025; Winter 2022)
- Member, Colloquium Committee (Sep 2017 – present)
- Co-chair, Colloquium Committee (Aug 2015 – Aug 2017)
- Member, M.S. Core Exam Committee (Winter 2015–18; Summer 2017, 2018)
- Member, Student Awards Committee (Aug 2014 – Sep 2017)

Journal Reviews

- *Biometrical Journal*
- *BMJ Open*
- *Communications in Statistics – Simulation and Computation*
- *Gerodontology*
- *Heliyon*
- *Journal of Speech, Language, and Hearing Research*
- *Research in Statistics*
- *Scandinavian Journal of Statistics*
- *The American Journal of Drug and Alcohol Abuse*
- *The American Statistician*
- *The Journal of Rural Health*

Professional Societies

- American Statistical Association
- International Biometric Society (ENAR)

Awards for Professional and Academic Achievement

- Editorial Board of the Telemedicine and e-Health Journal recognized our publication as Best Paper for 2021.
- College of Public Health Faculty Teaching Award (< 10 years), 2020.
- Milford E. Barnes Award (for outstanding graduate student in Biostatistics), The University of Iowa, 2014.
- Delta Omega Public Health Honorary Society, 2008.
- Dux of Urrbrae Agricultural High School, 1988.
- UAHS Prizes for Chemistry, Mathematics I and II, and Physics, 1988.
- JT Mortlock Scholarship for Academic Excellence, 1988.