

Knute D. Carter, PhD

College of Public Health Curriculum Vitae

Department of Biostatistics

knute-carter@uiowa.edu

March 2026

Educational and Professional History

Degrees Earned

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| 1992 | BSc in Mathematics & Computer Science, The University of Adelaide, Adelaide, Australia |
| 1993 | BSc (Hons) in Mathematics & Computer Science, The University of Adelaide, Adelaide, Australia
Honors/Distinctions: Honors |
| 2007 | MS in Biostatistics, The University of Iowa, Iowa City, Iowa |
| 2013 | PhD in Biostatistics, The University of Iowa, Iowa City, Iowa
Mentor: Joseph E Cavanaugh (Advisor), Dissertation: Best-Subset Model Selection Based on Multitudinal Assessments of Likelihood Improvements (PhD Dissertation) |

Employment History

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| 1992 - 1993 | Research Officer, Senior Secondary Assessment Board of South Australia, Adelaide, Australia |
| 1994 - 2003 | Research Officer, AIHW Dental Statistics and Research Unit, Dental School, The University of Adelaide, Adelaide, Australia |
| 2003 - 2004 | Research Fellow (Statistics), School of Dental Science, The University of Melbourne, Melbourne, Australia |
| 2012 | Graduate Research Assistant, Center for Public Health Statistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2005 - 2014 | Graduate Research Assistant, Public Policy Center, The University of Iowa, Iowa City, Iowa |
| 2014 | Adjunct Assistant Professor, Department of Biostatistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2014 - 2016 | Associate Research Scientist, Center for Public Health Statistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2014 - 2016 | Visiting Assistant Professor, Department of Biostatistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2016 - 2022 | Clinical Assistant Professor, Department of Biostatistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2016 - Present | Deputy Director, Center for Public Health Statistics, The University of Iowa College of Public Health, Iowa City, Iowa |
| 2022 - Present | Clinical Associate Professor, Department of Biostatistics, University of Iowa College of Public Health, Iowa City, Iowa |

Honors and Awards

1988	Dux of Urrbrae Agricultural High School
1988	JT Mortlock Scholarship for Academic Excellence
1988	UAHS Prizes for Chemistry, Mathematics I and II, and Physics, 1988
2008	Delta Omega Public Health Honorary Society, The University of Iowa
2014	Milford E. Barnes Award (for outstanding graduate student in Biostatistics), Department of Biostatistics, University of Iowa
2020	CPH Faculty Teaching Award, College of Public Health/University of Iowa, Iowa City, Iowa

Teaching

Course Teaching

University of Iowa

Spring 2014	Applied Survival Analysis, BIOS:5610, Credit Hours: 3, Enr: 17, Percent of Course: 100.0%
Fall 2014	Introduction to Biostatistics, BIOS:5110, Credit Hours: 3, Enr: 90, Percent of Course: 100.0%
Spring 2015	Applied Survival Analysis, BIOS:6210:0001, Credit Hours: 3, Enr: 12, Percent of Course: 100.0%
Fall 2015	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 27
Fall 2015	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 28
Fall 2015	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 26
Fall 2015	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 25
Fall 2015	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 106
Spring 2016	Applied Survival Analysis, BIOS:6210:0001, Credit Hours: 3, Enr: 9, Percent of Course: 100.0%
Fall 2016	Introductory Longitudinal Data Analysis, BIOS:6310:0001, Credit Hours: 3, Enr: 17, Percent of Course: 100.0%
Spring 2017	Preceptorship in Biostatistics, BIOS:7500:4882, Percent of Course: 100.0%
Spring 2017	Public Health Science, CPH:1600:0AAA
Fall 2017	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 94, Percent of Course: 100.0%
Fall 2017	Preceptorship in Biostatistics, BIOS:7500:7835, Percent of Course: 100.0%
Spring 2018	Public Health Science, CPH:1600:0AAA, Percent of Course: 100.0%
Fall 2018	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
Fall 2018	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%

Fall 2018	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 17, Percent of Course: 100.0%
Fall 2018	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Fall 2018	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 88, Percent of Course: 100.0%
Spring 2019	Public Health Science, CPH:1600:0AAA, Enr: 125, Percent of Course: 50.0%
Fall 2019	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 27, Percent of Course: 100.0%
Fall 2019	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Fall 2019	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 16, Percent of Course: 100.0%
Fall 2019	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Fall 2019	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 95, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0A01, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0A02, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0A03, Credit Hours: 3, Enr: 18, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0A04, Credit Hours: 3, Enr: 22, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0A06, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
Spring 2020	Public Health Science, CPH:1600:0AAA, Enr: 101, Percent of Course: 100.0%
Fall 2020	Applied Categorical Data Analysis, BIOS:5130:0001, Credit Hours: 3, Enr: 16, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0A01, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0A02, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0A03, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0A04, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0A06, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Spring 2021	Public Health Science, CPH:1600:0AAA, Enr: 109, Percent of Course: 100.0%
Fall 2021	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 13, Percent of Course: 100.0%

Fall 2021	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Fall 2021	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 80, Percent of Course: 100.0%
Fall 2021	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Fall 2021	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Spring 2022	Public Health Science, CPH:1600:0A04, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Spring 2022	Public Health Science, CPH:1600:0AAA, Enr: 89, Percent of Course: 100.0%
Spring 2022	Public Health Science, CPH:1600:0A01, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Spring 2022	Public Health Science, CPH:1600:0A02, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Spring 2022	Public Health Science, CPH:1600:0A03, Credit Hours: 3, Enr: 18, Percent of Course: 100.0%
Fall 2022	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
Fall 2022	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
Fall 2022	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 24, Percent of Course: 100.0%
Fall 2022	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2022	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 101, Percent of Course: 100.0%
Spring 2023	Public Health Science, CPH:1600:0A01, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Spring 2023	Public Health Science, CPH:1600:0A02, Credit Hours: 3, Enr: 22, Percent of Course: 100.0%
Spring 2023	Public Health Science, CPH:1600:0A03, Credit Hours: 3, Enr: 22, Percent of Course: 100.0%
Spring 2023	Public Health Science, CPH:1600:0A04, Credit Hours: 3, Enr: 17, Percent of Course: 100.0%
Spring 2023	Public Health Science, CPH:1600:0AAA, Enr: 84, Percent of Course: 100.0%
Fall 2023	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
Fall 2023	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2023	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 19, Percent of Course: 100.0%
Fall 2023	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%

Fall 2023	Introduction to Biostatistics, BIOS:4120:0AAA, Enr: 93, Percent of Course: 100.0%
Spring 2024	Public Health Science, CPH:1600:0A01, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Spring 2024	Public Health Science, CPH:1600:0A02, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Spring 2024	Public Health Science, CPH:1600:0A03, Credit Hours: 3, Enr: 20, Percent of Course: 100.0%
Spring 2024	Public Health Science, CPH:1600:0A04, Credit Hours: 3, Enr: 23, Percent of Course: 100.0%
Spring 2024	Public Health Science, CPH:1600:0AAA, Enr: 93, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0A01, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0A02, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0A03, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0A04, Credit Hours: 3, Enr: 29, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0A05, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Fall 2024	Introduction to Biostatistics, BIOS:4120:0AAA, Credit Hours: 0, Enr: 129, Percent of Course: 100.0%
Spring 2025	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1; Enr: 23; Percent of Course: 100%
Spring 2025	Scholarly Integrity in Biostatistics Postdocs, BIOS:7604:0001, Credit Hours: 0; Enr: 1; Percent of Course: 100%
Spring 2025	Public Health Science, CPH:1600:0AAA, Credit Hours: 3, Enr: 71, Percent of Course: 100.0%
Fall 2025	Introduction to Biostatistics, BIOS:4120:0AAA, Credit Hours: 3, Enr: 111, Percent of Course: 100.0%
Spring 2026	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1; Enr: 16; Percent of Course: 100%
Spring 2026	Scholarly Integrity in Biostatistics Postdocs, BIOS:7604:0001, Credit Hours: 0; Enr: 1; Percent of Course: 100%
Spring 2026	Public Health Science, CPH:1600:0AAA, Credit Hours: 3, Enr: 95, Percent of Course: 100.0%

Other Institutions

1991	Distribution Theory II, The University of Adelaide, Percent of Course: 100.0%
1992	Inference II, The University of Adelaide, Percent of Course: 100.0%
1993	Introduction to Research Methods, The University of Adelaide, Percent of Course: 100.0%

Scholarship/Professional Productivity

Publications or creative works

Peer-reviewed papers and journal articles

1. Thomson, W. M., Stewart, J. F., **Carter, K. D.** & Spencer, A. J. (1996). Dental anxiety among Australians. (Vols. 46). (4), pp. 320-324. International Dental Journal. [PMID: 9147119.](#)
2. Thomson, W. M., Stewart, J. F., **Carter, K. D.** & Spencer, A. J. (1996). Patient mobility in Australian Dentistry. (Vols. 13). (2), pp. 99-104. Community Dental Health. [PMID: 8763141.](#)
3. Thomson, W. M., Stewart, J. F., **Carter, K. D.** & Spencer, A. J. (1997). Public perception of cross-infection control in dentistry. (Vols. 42). (5), pp. 291-296. Australian Dental Journal. [PMID: 9409043.](#)
4. Thomson, W. M., Stewart, J. F., **Carter, K. D.** & Spencer, A. J. (1997). The Australian public's perception of mercury risk from dental restorations. (Vols. 25). (6), pp. 391-395. Community Dentistry and Oral Epidemiology. [PMID: 9429810.](#)
5. Chalmers, J. M., Kingsford Smith, D. & **Carter, K. D.** (1998). A multidisciplinary dental program for community-living adults with chronic mental illness. (Vols. 18). (5), pp. 194-201. Special Care in Dentistry. [PMID: 10219184.](#)
6. Chalmers, J. M., Hodge, C., Fuss, J. M., Spencer, A. J., **Carter, K. D.** & Mathew, R. (2001). Opinions of dentists and directors of nursing concerning dental care provision for Adelaide nursing homes. (Vols. 46). (4), pp. 277-283. Australian Dental Journal. [PMID: 11838875.](#)
7. Chalmers, J. M., Hodge, C., Fuss, J. M., Spencer, A. J. & **Carter, K. D.** (2002). The prevalence and experience of oral diseases in Adelaide nursing home residents. (Vols. 47). (2), pp. 123-130. Australian Dental Journal. [PMID: 12139265.](#)
8. Chalmers, J. M., **Carter, K. D.**, Fuss, J. M., Spencer, A. J. & Hodge, C. P. (2002). Caries experience in existing and new nursing home residents. (Vols. 19). (1), pp. 30-40. Gerodontology. [PMID: 12164237.](#)
9. Chalmers, J. M., **Carter, K. D.** & Spencer, A. J. (2002). Caries incidence and increments in community-living older adults with and without dementia. (Vols. 19). (2), pp. 80-94. Gerodontology. [PMID: 12542217.](#)
10. Chalmers, J. M., **Carter, K. D.** & Spencer, A. J. (2003). Oral diseases and conditions in community-living older adults with and without dementia. (Vols. 23). (1), pp. 7-17. Special Care in Dentistry. [PMID: 12887148.](#)
11. Chalmers, J. M., **Carter, K. D.** & Spencer, A. J. (2004). The oral health of Adelaide nursing home residents: Longitudinal study. (Vols. 23). (2), pp. 63-70. Australasian Journal on Ageing.
12. Sanders, A. E., Slade, G. D., **Carter, K. D.** & Stewart, J. F. (2004). Trends in prevalence of complete tooth loss among Australians, 1979-2002. (Vols. 28). (6), pp. 549-554. Australian and New Zealand Journal of Public Health. [PMID: 15707204.](#)
13. Chalmers, J. M., **Carter, K. D.** & Spencer, A. J. (2005). Caries incidence and increments in Adelaide nursing home residents. (Vols. 25). (2), pp. 96-105. Special Care in Dentistry. [PMID: 15856916.](#)
14. Chalmers, J. M., King, P. L., Spencer, A. J., Wright, F. A. & **Carter, K. D.** (2005). The oral health assessment tool - validity and reliability. (Vols. 50). (3), pp. 191-199. Australian Dental Journal. [PMID: 16238218.](#)
15. Thomson, W. M., Chalmers, J. M., Spencer, A. J., Slade, G. D. & **Carter, K. D.** (2006). A longitudinal study of medication exposure and xerostomia among older people. (Vols. 23). (4), pp. 205-213. Gerodontology. [PMID: 17105501.](#)
16. Damiano, P. C., Momany, E. T., **Carter, K. D.**, Jones, M. P. & Askelson, N. M. (2008). Time to first dental visit after initially enrolling in Medicaid and S-SCHIP. (Vols. 46). (12), pp. 1234-1239. Medical Care. [PMID: 19300313.](#)

17. Askelson, N. M., Campo, S. & **Carter, K. D.** (2011). Completely isolated? Health information seeking among social isolates. (Vols. 38). (2), pp. 116-122. *Health Education & Behavior*. DOI: [10.1177/1090198110369055](https://doi.org/10.1177/1090198110369055). PMID: 21191084.
18. Campo, S., Askelson, N. M., **Carter, K. D.** & Losch, M. (2012). Segmenting audiences and tailoring messages: Using the Extended Parallel Process Model and cluster analysis to improve health campaigns. (Vols. 18). (2), pp. 98-111. *Social Marketing Quarterly*.
19. Askelson, N. M., Chi, D. L., Momany, E. T., Kuthy, R. A., **Carter, K. D.**, Field, K. & Damiano, P. C. (2015). The importance of efficacy: Using the Extended Parallel Process Model to examine factors related to preschool-age children enrolled in Medicaid receiving preventive dental visits. (Vols. 42). (6), pp. 805-813. *Health Education & Behavior*. DOI: [10.1177/1090198115580575](https://doi.org/10.1177/1090198115580575). PMID: 25862302.
20. Abu-Hejleh, T., Chrischilles, E. A., Halfdanarson, T. R., Simon, C., Pendergast, J. F., Jiang, D., Smith, C. J., Porter, A. T., **Carter, K. D.**, Wallace, R. B. & CanCORS Consortium (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. (Vols. 39). (2), pp. 126-131. *American Journal of Clinical Oncology*. DOI: [10.1097/COC.000000000000029](https://doi.org/10.1097/COC.000000000000029). PMID: 24632817. PMCID: PMC4411190.
21. Alshawabkeh, L. I., Hu, N., **Carter, K. D.**, Opotowsky, A. R., Light-McGroary, K., Cavanaugh, J. E. & Bartlett, H. L. (2016). Wait-list outcomes for adults with congenital heart disease listed for heart transplantation in the U.S. (Vols. 68). (9), pp. 908-917. *Journal of the American College of Cardiology*. DOI: [10.1016/j.jacc.2016.05.082](https://doi.org/10.1016/j.jacc.2016.05.082). PMID: 27561764.
22. Ghazal, T. S., Levy, S. M., Childers, N. K., **Carter, K. D.**, Caplan, D. J., Warren, J. J., Cavanaugh, J. E. & Kolker, J. (2018). Mutans streptococci and dental caries: A new statistical modeling approach. (Vols. 52). (3), pp. 246-252. *Caries Research*. DOI: [doi: 10.1159/000486103](https://doi.org/10.1159/000486103). PMID: 29393143.
23. Ortega-Verdugo, P., Warren, J. J., Kolker, J. L., **Carter, K. D.**, Guzman-Armstrong, S. & Gomez, M. R. (2018). Retrospective analysis of factors associated with the success of stepwise excavation procedure in deep carious lesions. (Vols. 149). (6), pp. 442-450. *Journal of the American Dental Association*. DOI: [doi: 10.1016/j.adaj.2018.01.004](https://doi.org/10.1016/j.adaj.2018.01.004). PMID: 29628115.
24. Alshawabkeh, L. I., Opotowsky, A. R., **Carter, K. D.**, Givertz, M. M., Landzberg, M. J., Urey, M. A. & Bartlett, H. L. (2018). Disparities in wait-list outcomes for adults with congenital heart disease listed for heart transplantation before and since revision of status I listing. (Vols. 122). (10), pp. 1761-1764. *The American Journal of Cardiology*. DOI: [doi: 10.1016/j.amjcard.2018.08.013](https://doi.org/10.1016/j.amjcard.2018.08.013). PMID: 30236623.
25. Ward, M. M., Merchant, K., **Carter, K. D.**, Zhu, X., Ullrich, F., Wittrock, A. & Bell, A. (2018). Use of telemedicine for ED physician coverage in critical access hospitals increased after CMS policy clarification. (Vols. 37). (12), pp. 2037-2044. *Health Affairs*. DOI: [doi: 10.1377/hlthaff.2018.05103](https://doi.org/10.1377/hlthaff.2018.05103). PMID: 30633684.
26. Donovan, B. M., Breheny, P. J., Robinson, J. G., Baer, R. J., Saftlas, A. F., Bao, W., Greiner, A. L., **Carter, K. D.**, Oltman, S. P., Randy, L., Jelliffe-Pawlowski, L. L. & Ryckman, K. K. (2019). Development and validation of a clinical model for early risk-prediction of gestational diabetes mellitus in nulliparous women. (Vols. 14). (4), pp. e0215173. *PLOS One*. DOI: [10.1371/journal.pone.0215173](https://doi.org/10.1371/journal.pone.0215173). PMID: 30978258. PMCID: PMC6461273.
27. Ghazal, T. S., Levy, S. M., Childers, N. K., **Carter, K. D.**, Caplan, D. J., Warren, J. J. & Kolker, L. (2019). Survival analysis of caries incidence in African-American school-aged children. (Vols. 79). (1), pp. 10-17. *Journal of Public Health Dentistry*. DOI: [doi: 10.1111/jphd.12289](https://doi.org/10.1111/jphd.12289). PMID: 30238461. PMCID: PMC6420363.
28. **Carter, K. D.** & Cavanaugh, J. E. (2020). Best-subset model selection based on multitudinal assessment of likelihood improvements. (Vols. 47). (13-15), pp. 2384-2420. *Journal of Applied Statistics*. DOI: [10.1080/02664763.2019.1645097](https://doi.org/10.1080/02664763.2019.1645097). PMID: 35707408. PMCID: PMC9041924.
29. Nidey, N., Tabb, K. M., **Carter, K. D.**, Bao, W., Strathearn, L., Rohlman, D. S., Wehby, G. & Ryckman, K. K. (2020). Rurality and risk of perinatal depression among women in the United States. (Vols. 36). (1), pp. 9-16. *The Journal of Rural Health*. DOI: [10.1111/jrh.12401](https://doi.org/10.1111/jrh.12401). PMID: 31602705.

30. Snyder, B. M., Baer, R. J., Oltman, S. P., Robinson, J. G., Breheny, P. J., Saftlas, A. F., Bao, W., Greiner, A. L., **Carter, K. D.**, Rand, L., Jelliffe-Pawlowski, L. L. & Ryckman, K. K. (2020). Early pregnancy prediction of gestational diabetes mellitus risk using prenatal screening biomarkers in nulliparous women. (Vols. 163). pp. 108139. *Diabetes Research and Clinical Practice*. DOI: [10.1016/j.diabres.2020.108139](https://doi.org/10.1016/j.diabres.2020.108139). PMID: [32272192](https://pubmed.ncbi.nlm.nih.gov/32272192/). PMCID: [PMC7269799](https://pubmed.ncbi.nlm.nih.gov/PMC7269799/).
31. Nidey, N., Carnahan, R., **Carter, K. D.**, Strathearn, L., Bao, W., Greiner, A., Jelliffe-Pawlowski, L., Tabb, K. M. & Ryckman, K. K. (2020). Association of mood and anxiety disorders and opioid prescription patterns among postpartum women. (Vols. 29). (6), pp. 463-470. *The American Journal on Addictions*. DOI: [10.1111/ajad.13028](https://doi.org/10.1111/ajad.13028). PMID: [32249527](https://pubmed.ncbi.nlm.nih.gov/32249527/).
32. Heppner, S., Mohr, N. M., **Carter, K. D.**, Ullrich, F., Merchant, K. & Ward, M. M. (2021). HRSA's evidence-based tele-emergency network grant program: Multi-site prospective cohort analysis across six rural emergency department telemedicine networks. (Vols. 16). (1), pp. e0243211. *PLoS One*. DOI: [10.1371/journal.pone.0243211](https://doi.org/10.1371/journal.pone.0243211). PMID: [33434197](https://pubmed.ncbi.nlm.nih.gov/33434197/). PMCID: [PMC7802919](https://pubmed.ncbi.nlm.nih.gov/PMC7802919/).
33. Del Vecchio, N. J., Askelson, N. M., **Carter, K. D.**, Chrischilles, E. A., Lynch, C. F. & Charlton, M. E. (2021). Patterns and characteristics of patients' selection of cancer surgeons. (Vols. 221). (5), pp. 1033-1041. *American Journal of Surgery*. DOI: [10.1016/j.amjsurg.2020.09.041](https://doi.org/10.1016/j.amjsurg.2020.09.041). PMID: [33969822](https://pubmed.ncbi.nlm.nih.gov/33969822/). PMCID: [PMC8110945](https://pubmed.ncbi.nlm.nih.gov/PMC8110945/).
34. Ward, M. M., **Carter, K. D.**, Ullrich, F., Merchant, K., Natafagi, N., Zhu, X., Weigel, P., Heppner, S. & Mohr, N. M. (2021). Averted transfers in rural emergency departments using telemedicine: Rates and costs across six networks. (Vols. 27). (5), pp. 481-487. *Telemedicine and e-Health*. DOI: <https://doi.org/10.1089/tmj.2020.0080>. PMID: [32835620](https://pubmed.ncbi.nlm.nih.gov/32835620/).
35. Chioreso, C., Schroeder, M. C., Gobovskaja-Rupp, I., Ammann, E., **Carter, K. D.**, Lynch, C. F., Chrischilles, E. A. & Charlton, M. E. (2021). Stage II/III rectal cancer post-treatment surveillance patterns of care: A SEER-Medicare study. (Vols. 17). (5), pp. 555972. *Advanced Research in Gastroenterology and Hepatology*. PMID: [37636523](https://pubmed.ncbi.nlm.nih.gov/37636523/). PMCID: [PMC10457021](https://pubmed.ncbi.nlm.nih.gov/PMC10457021/).
36. Nidey, N. L., Momany, A. M., Strathearn, L., **Carter, K. D.**, Wehby, G. L., Bao, W., Xu, G., Scheiber, F. A., Tabb, K., Froehlich, T. E. & Ryckman, K. K. (2021). Association between perinatal depression and risk of attention deficit hyperactivity disorder among children: A retrospective cohort study. (Vols. 63). pp. 1-6. *Annals of Epidemiology*. DOI: [10.1016/j.annepidem.2021.06.005](https://doi.org/10.1016/j.annepidem.2021.06.005). PMID: [34186179](https://pubmed.ncbi.nlm.nih.gov/34186179/). PMCID: [PMC9659329](https://pubmed.ncbi.nlm.nih.gov/PMC9659329/).
37. Del Vecchio, N. J., McDowell, B. D., **Carter, K. D.**, Askelson, N. M., Chrischilles, E. A., Lynch, C. F. & Charlton, M. E. (2021). Relationships between health literacy, having a cancer care coordinator, and long-term health-related quality of life among cancer survivors. (Vols. 29). (12), pp. 7913-7924. *Supportive Care in Cancer*. DOI: [10.1007/s00520-021-06356-w](https://doi.org/10.1007/s00520-021-06356-w). PMID: [34191127](https://pubmed.ncbi.nlm.nih.gov/34191127/). PMCID: [PMC8551039](https://pubmed.ncbi.nlm.nih.gov/PMC8551039/).
38. Ward, M. M., Ullrich, F., Merchant, K., **Carter, K. D.**, Bhagianadh, D., Lacks, M., Taylor, E. & 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. (Vols. 92). (5), pp. 452-460. *Journal of School Health*. DOI: [10.1111/josh.13150](https://doi.org/10.1111/josh.13150). PMID: [35195293](https://pubmed.ncbi.nlm.nih.gov/35195293/).
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 58. 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*, Advance online publication. DOI: [10.1089/tmj.2025.0089](https://doi.org/10.1089/tmj.2025.0089).
 59. 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](https://doi.org/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](https://doi.org/10.1016/j.ejrad.2024.111891).
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 62. 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, 50-56. DOI: [10.1017/ice.2024.172](https://doi.org/10.1017/ice.2024.172).
 63. 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](https://doi.org/10.1007/s41347-024-00436-4).

Non-peer-reviewed journal articles

1. **Carter, K. D.**, Stewart, J. F., Davies, M. J., Szuster, F. S., Allister, J. H., Slade, G. D. & Spencer, A. J. (1994). National dental telephone survey 1994. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
2. DSRU (**Carter, Brennan, Stewart**) (1995). Commonwealth Dental Health Program research report 1. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
3. Allister, J. H., Brennan, D. S., **Carter, K. D.**, Davies, M. J., Slade, G. D., Spencer, A. J., Stewart, J. F., Szuster, F. S. & Thomson, W. M. (1995). Commonwealth Dental Health Program baseline evaluation report 1994. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
4. **Carter, K. D.** (1995). National dental telephone interview survey 1995. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

5. DSRU (**Carter**, Brennan, Stewart) (1995). Commonwealth Dental Health Program research report 2. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
6. DSRU (**Carter**, Brennan, Stewart) (1996). Commonwealth Dental Health Program research report 3. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
7. Brennan, D. S., **Carter, K. D.**, Stewart, J. F. & Spencer, A. J. (1997). Commonwealth Dental Health Program evaluation report 1994-1996. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
8. Stewart, J. F., **Carter, K. D.** & 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.
9. 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.
10. **Carter, K. D.**, Brennan, D. S. & Stewart, J. F. (1998). Adult access to dental care - migrants. Dental statistics and research series no. 15. AIHW cat. no. DEN 33. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
11. Brennan, D. S. & **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.
12. **Carter, K. D.** & DSRU (1998). Australia's oral health and dental services. Dental statistics and research series no. 18. AIHW cat. no. DEN 14. (Chapter 4). AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
13. 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.
14. 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.
15. 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.
16. Chalmers, J. M., Hodge, C. P., Fuss, J. M., Spencer, A. J. & **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.
17. DSRU (1999). The Adelaide dental study of nursing homes: Research report. AIHW cat. no. DEN 53. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
18. Chalmers, J. M., Hodge, C. P., Fuss, J. M., Spencer, A. J. & **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.
19. 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.
20. 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.
21. 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.
22. DSRU (2000). The 1999 Victorian oral health services labour force planning project. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
23. 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.
24. 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.
25. 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.

26. AHMAC (2001). Oral health of Australians: National planning for oral health improvement: Final report. South Australian Department of Human Services, Adelaide, South Australia.
27. Chalmers, J. M., **Carter, K. D.**, Hodge, C. P., Fuss, J. M. & 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.
28. 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.
29. 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.
30. **Carter, K. D.** & Stewart, J. F. (2002). National dental telephone interview survey 1999. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
31. 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.
32. AIHW DSRU (2002). Public perceptions of dentistry: Stimulus of barrier to better oral health. Dental statistics and research series no. 25. AIHS cat. no. DEN 96. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.
33. Spencer, A. J., Teusner, D. N., **Carter, K. D.** & Brennan, D. S. (2003). The dental labour force in Australia: The position and policy directions. HIHW cat. no. POH 2. Australian Institute of Health and Welfare, Canberra, Australia.
34. Damiano, P. C., Momany, E. T., Flach, S. D., **Carter, K. D.** & Jones, M. P. (2005). Dental care: Access, use and cost of services for children in hawk-i. Report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
35. Teusner, D. N., Mihailidis, S., **Carter, K. D.** & Spencer, A. J. (2005). The South Australian dental labour force. AIHW cat. no. POH 5. Australian Institute of Health and Welfare, Canberra, Australia.
36. Chalmers, J. M., **Carter, K. D.** & 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.
37. Momany, E. T., Damiano, P. C. & **Carter, K. D.** (2005). Outcomes of care for children in hawk-i: FFY 2003. Report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
38. Momany, E. T., Damiano, P. C. & **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, IA.
39. Momany, E. T., Damiano, P. C. & **Carter, K. D.** (2006). Outcomes of care for Iowa Medicaid managed care enrollees: State fiscal year 2006. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
40. Momany, E. T., **Carter, K. D.** & Damiano, P. C. (2007). Outcomes of care for Iowa Medicaid managed care enrollees: State fiscal year 2007. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
41. Momany, E. T., **Carter, K. D.** & Damiano, P. C. (2008). Outcomes of care for Iowa Medicaid managed care enrollees: State fiscal year 2007. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
42. Chalmers, J. M., Spencer, A. J., **Carter, K. D.**, King, P. L. & 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.
43. Momany, E. T., Damiano, P. C. & **Carter, K. D.** (2009). Outcomes of care for Iowa Medicaid enrollees: State fiscal year 2008. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.

44. Momany, E. T. & **Carter, K. D.** (2010). Iowa family planning demonstration evaluation: Annual report. Public Policy Center, The University of Iowa, Iowa City, IA.
45. Momany, E. T., Damiano, P. C. & **Carter, K. D.** (2010). Outcomes of care for Iowa Medicaid enrollees: State fiscal year 2009. Final report to the Iowa Department of Human Services. Public Policy Center, The University of Iowa, Iowa City, IA.
46. Damiano, P. C., Willard, J. C., Momany, E. T., Park, K., Skemp, E. & **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, IA.
47. Momany, E. T., Damiano, P. C. & **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, IA.
48. Momany, E. T. & **Carter, K. D.** (2011). Iowa family planning demonstration evaluation. Public Policy Center, The University of Iowa, Iowa City, IA.
49. Momany, E. T., **Carter, K. D.** & Damiano, P. C. (2011). Outcomes of the IowaCare program for year ending September 30, 2010. Public Policy Center, The University of Iowa, Iowa City, IA.
50. Momany, E. T. & **Carter, K. D.** (2013). Iowa family planning demonstration evaluation second waiver period. Public Policy Center, The University of Iowa, Iowa City, IA.

Technical Reports

1. **Carter, K. D.** & Stewart, J. F. (2003). National dental telephone interview survey 2002. AIHW Dental Statistics and Research Unit, Adelaide, South Australia.

Other Publications

1. **Carter, K. D.** (2013). Best-Subset Model Selection Based on Multitudinal Assessments of Likelihood Improvements; Ph.D. Dissertation.

Research Interests/Current Projects

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

Grants and Contracts

Active (Funded)

1. Screening Data Management; Iowa Department of Health and Human Services, Centers for Disease Control & Prevention; Carter, Knute (Co-Investigator), Oleson, Jacob (Principal Investigator)
 - PUHE-CCI-25-702
 - Aug 1, 1995 - Jun 29, 2025
 - Amount: \$8,607,120.00, 3% effort
2. Telehealth Focused Rural Health Research Center Agreement; US Department of Health & Human Services, Health Resources & Services Administration; Carter, Knute (Co-Investigator), Ward, Marcia (Principal Investigator)
 - U3G RH40003
 - Sep 1, 2020 - Sep 21, 2025
 - Amount: \$3,799,997.00, 10% effort

3. Evaluation of the Iowa Wellness Plan Section 1115 Demonstration; Iowa Department of Health & Human Services; Carter, Knute (Co-Investigator), Damiano, Peter (Principal Investigator), Askelson, Natoshia (Principal Investigator), Momany, Elizabeth (Principal Investigator)
 - MED-21-008
 - Jul 1, 2020 - Jun 30, 2026
 - Amount: \$10,951,250.00, 10% effort
 - Major Goals: Amendment to PPC's base contract with Iowa Department of Human Services, MED-18-013. Purpose: The Iowa Wellness Plan (IWP) demonstration was first implemented on January 1, 2014, at the same time as Iowa's expansion of Medicaid to the new adult group took effect. Under the authority of section 1115(a)(1) of the Social Security Act (the Act), waivers of state plan requirements contained in section 1902 of the Act were granted subject to the special terms and conditions (STCs) for the Iowa Wellness Plan section 1115 demonstration effective from January 1, 2020 through December 31, 2024. CMS requires an independent party conduct an evaluation of the demonstration to ensure that the necessary data is collected at the level of detail needed to study the effectiveness of the demonstration, as specified in the STCs. The state must require the independent party to sign an agreement that the independent party will conduct the demonstration evaluation in an independent manner in accord with the CMS-approved Evaluation Design. The University of Iowa Public Policy Center will conduct the evaluation of the demonstration.
4. Women's Health in Tuberos Sclerosis Complex: A Population Based Assessment of Morbidity to Inform Clinical Care; Department of Defense Congressionally Directed Medical Research Programs; Carter, Knute D (Co-Investigator), Harshman, Lyndsay (Principal Investigator)
 - HT94252410160
 - Jul 1, 2024 - Jun 30, 2027
 - Amount: \$748,815.00, 6% effort
5. Emerging Challenges in NBS: Benefits and Harms of Receiving Uncertain Prognoses after NBS; Children's National Hospital, National Institutes of Health; Carter, Knute (Co-Investigator), Bernat, John (Principal Investigator)
 - R01 HD106986
 - Sep 1, 2022 - Aug 31, 2027
 - Amount: \$285,090.00, 5% effort
6. Enrollment Management and Student Success Predictive Analytics; Office of the Provost, BISSC; Carter, Knute D (Investigator)
 - Aug 1, 2015 - Present
7. Internal Award: Enrollment Management and Student Success Predictive Analytics; Office of the Provost, BISSC; Brown, Grant (Investigator)
 - No Contract #
 - Aug 2015 - Present

Completed

1. The Oral Health of Community-Living Older Adults with Dementia; National Health and Medical Research Council; Carter, Knute, Chalmers, J M, Spencer, A J
 - 1999
 - Amount: \$32,295.00
2. The Oral Health of Community-Living Older Adults with Dementia; National Health and Medical Research Council; Carter, Knute, Chalmers, J M, Spencer, A J
 - 2000

- Amount: \$31,045.00
3. The South Australian Longitudinal Study; National Health and Medical Research Council; Roberts-Thomson, K F, Carter, Knute, Spencer, A J, Chalmers, J M
 - 2002
 - Amount: \$113,493.00
 4. Explaining Social Inequality in Population Oral Health using a Multilevel Approach; National Health and Medical Research Council; Carter, Knute, Sanders, A E, Marcenes, W S, Turrell, G, Spencer, A J
 - 2003
 - Amount: \$66,016.00
 5. The South Australian Longitudinal Study; National Health and Medical Research Council; Roberts-Thomson, K F, Carter, Knute, Spencer, A J, Chalmers, J M
 - 2003
 - Amount: \$112,093.00
 6. Explaining Social Inequality in Population Oral Health using a Multilevel Approach; National Health and Medical Research Council; Carter, Knute, Sanders, A E, Marcenes, W S, Turrell, G, Spencer, A J
 - 2004
 - Amount: \$30,960.00
 7. IDPH FY16 Screening Data Management; Iowa Department of Public Health; Carter, K D (Director), Oleson, Jacob J (Principal Investigator)
 - #5886NB90
 - Aug 1, 1995 - Jun 29, 2017
 - Amount: \$320,577.00, 23% effort
 8. IDPH FY17 Screening Data Management; Iowa Department of Public Health; Carter, Knute D. (Co-Investigator), Oleson, Jacob J (Principal Investigator)
 - #5887NB90
 - Aug 1, 1995 - Jun 29, 2018
 - Breast and Cervical Cancer Early Detection Program, Data and Entry Analysis; WISEWOMAN Enhanced Design, Data Entry and Analysis; Data Management subcontract. Subcontract studies design, data management, and analysis on this project.
 9. Comp D-Cost of Illness Analysis of MD and Neuromuscular Disorders; Centers for Disease Control & Prevention
 - U01 DD001118
 - Sep 1, 2015 - Aug 31, 2018
 - Amount: \$82,781.00, 5% effort
 - CDC RFA-DD14-001, Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders, Component D: Pilot Research Study.
 10. IDPH FY18 Screening Data Management; Iowa Department of Public Health; Carter, K D (Co-Investigator), Oleson, J J (Principal Investigator)
 - #5888NB90
 - Aug 1, 1995 - May 29, 2019
 11. Iowa's State Innovation Models (SIM); Iowa Department of Human Services; Carter, Knute D. (Co-Investigator), Damiano, Peter (Principal Investigator)
 - MED-16-022
 - Oct 1, 2015 - Dec 31, 2019
 - Amount: \$751,459.00, 10% effort

- To conduct robust evaluations that demonstrate the effectiveness of the Iowa multi-payer value-based purchasing model based on the specific needs within Iowa's State Innovation Models (SIM) Cooperative Agreement with CMS.
12. Comp A-MD and Neuromuscular Disorder Surveillance and Research in Iowa; US Department of Health & Human Services, Centers for Disease Control & Prevention; Carter, K D (Statistician), Romitti, Paul (Principal Investigator)
 - U01 DD001119
 - Sep 1, 2014 - Aug 31, 2020
 - Amount: \$344,444.00, 10% effort
 - Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders, Component A: Core (Existing MD Surveillance and Research Programs).
 13. IDPH FY19 Screening Data Management; Iowa Department of Public Health; Carter, K D (Co-Investigator), Oleson, J J (Principal Investigator)
 - #5889NB90
 - Aug 1, 1995 - Jun 29, 2021
 14. IDPH FY20 Screening Data Management; Iowa Department of Public Health; Carter (Co-Investigator), Oleson, J J (Principal Investigator)
 - #58810N90
 - Aug 1, 1995 - Jun 29, 2022
 15. IDPH FY21 Screening Data Management; Iowa Department of Public Health; Carter, K D (Co-Investigator), Oleson, J J (Principal Investigator)
 - #5881NB90
 - Aug 1, 1995 - Jun 29, 2022
 - Direct Cost: \$331,671.00, 17% effort
 - Breast and Cervical Cancer Early Detection Program, Data and Entry Analysis; WISEWOMAN Enhanced Design, Data Entry and Analysis; Data Management subcontract. Subcontract studies design, data management, and analysis on this project.
 16. IDPH FY22 Screening Data Management; Iowa Department of Public Health; Carter, Knute (Co-Investigator), Oleson, Jacob (Principal Investigator)
 - Contract #5882NB90
 - Aug 1, 1995 - Jun 29, 2022
 - 17% effort
 - Breast and Cervical Cancer Early Detection Program, Data and Entry Analysis; WISEWOMAN Enhanced Design, Data Entry and Analysis; Data Management subcontract. Subcontract studies design, data management, and analysis on this project.
 17. IDPH FY23 Screening Data Management; Iowa Department of Public Health; Carter, Knute D (Co-Investigator), Oleson, Jacob J (Principal Investigator)
 - Contract #5883NB90
 - Aug 1, 1995 - Jun 29, 2023
 - Amount: \$8,004,487.00, 4% effort
 18. IDPH FY24 Screening Data Management; Iowa Department of Public Health; Carter, Knute D (Co-Investigator), Oleson, Jacob J (Principal Investigator)
 - Contract #5883NB90
 - Aug 1, 1995 - Jun 29, 2024
 - Amount: \$8,004,487.00, 4% effort

19. Unresolved Issues in Newborn Screening: Quantifying the Harms of a False Positive Result; Children's National Health System; Carter, K D (Co-Investigator), Daack-Hirsch, Sandra (Principal Investigator)

- #30004900
- Sep 15, 2018 - Jun 30, 2024
- Amount: \$648,577.00, Direct Cost: \$116,959.00, 10% effort
- The University of Iowa along with the Children's National Health System, the University of Michigan, Case Western Reserve University, and the Minnesota Department of Health are participating in a collaborative grant from the National Institutes of Health (NIH) to quantitate the harms associated with a false-positive newborn screening result. The PI responsible for overall coordination and completion of the project is Beth Tarini, MD, Associate Director, Center for Translational Science, Children's National Health System, Washington DC. The grant will collect newborn screening laboratory and clinical follow up data, and also survey families who have received a false positive newborn screen result to quantitate the health services impact from a false positive result. It is anticipated the outcome of this grant will inform State and National newborn screening policy and may impact considerations for addition of conditions to newborn screening panels.

20. Rural Health Research Grant Program Cooperative Agreement; US Department of Health & Human Services, Health Resources & Services Administration; Carter, Knute (Co-Investigator), Ward, Marcia (Principal Investigator)

- U1C RH29074
- Sep 1, 2015 - Aug 31, 2025
- Amount: \$4,124,999.26, 10% effort

Presentations

Invited Lectures

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| Oct 2015 | Using SAS to connect to the data warehouse. Presented at Institutional Data Users Group, University of Iowa, Iowa City, Iowa. |
| Dec 2015 | Carter, K. D. & Brown, G. D. Predictive modeling techniques with application to enrollment management at UI. Presented at Biostatistics Seminar Series, Department of Biostatistics, University of Iowa, Iowa City, Iowa. |
| Apr 2016 | Carter, K. D. Using SAS to connect to the data warehouse. Presented at UI Informatics Showcase Symposium, University of Iowa, Iowa City, Iowa. |
| Jan 2017 | Carter, K. D. & Hovland, M. UI Predictive Modeling for Recruitment and Retention. Presented at BI Community Presentation, University of Iowa, Iowa City, Iowa. |
| Oct 2018 | Carter, K. D. & Chorazy, M. L. Designing and Redesigning a New Undergraduate Course. Presented at ICONext, University of Iowa, Iowa City, Iowa. |

Oral Presentations

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| Sep 1994 | Carter, K. & Spencer, A. J. Analysis of waiting times for dental care. J Dent Res 1995; 4:756 (Abstract no. 83). Presented at Annual Conference, International Association for Dental Research, Australian and New Zealand Division, Melbourne, Australia. |
| Jul 1995 | Gaughwin, A., Carter, K. & Spencer, A. J. Social values of parents in choice of children's dental care. J Dent Res 1995; 74:409 (Abstract no. 72). Presented at 73rd General Session, International Association for Dental Research, Singapore. |

- Oct 1996 Carter, K. Characteristics of long-term non-attenders of dental services. Conference book 1996;173. Presented at 28th Annual Conference, Public Health Association of Australia, Perth, Australia.
- Oct 1997 Carter, K. Utilization of dental services during a public funded dental program. Program and Abstracts 1997:174. Presented at Annual Conference, Public Health Association of Australia, Melbourne, Australia.
- Oct 1999 Carter, K. & Stewart, J. F. Influence of perceived need on use of dental services. Conference book 1999:37 (Abstract no.7). Presented at 62nd Annual Meeting, American Association of Public Health Dentistry, Honolulu, Hawaii.
- Jun 2000 Carter, K. & 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). Presented at The First International Conference on Rural Aging, Charleston, West Virginia.
- Jul 2000 Spencer, A. J., Carter, K. & Brennan, D. S. Current and future demand for dental services in Australia. J Dent Res 2001; 80(4):978 (Abstract no. 232). Presented at 40th Annual Scientific Meeting of the International Association of Dental Research (Australian & New Zealand Division), International Association of Dental Research, Perth, Australia.
- Jul 2006 Carter, K., Chalmers, J. M., Spencer, A. J., Roberts-Thomson, K. F. & Thomson, W. M. Challenges in caries analysis for longitudinal geriatric oral epidemiological studies. Presented at 84th General Session, International Association for Dental Research, Brisbane, Australia.
- Oct 2012 Askelson, N. M., Chi, D. L., Carter, K., Momany, E. T., Kuthy, R., Hanson, J., Ortiz, C. & Damiano, P. C. Health communication interventions to increase early preventive dental visits for preschool-age children enrolled in Medicaid: A formative research perspective. Presented at 140th Annual Meeting, American Public Health Association, San Francisco, California.
- Feb 2018 Donovan, B. M., Breheny, P. J., Baer, R. J., Robinson, J. G., Saftlas, A. F., Bao, W., Greiner, A., Carter, K. D., Rand, L., Jelliffe-Pawlowski, L. & Ryckman, L. L. Development and Validation of a Clinical Model for Early Pregnancy Prediction of Gestational Diabetes Mellitus Risk in Nulliparous Women. Presented at The Pregnancy Meeting, 38th Annual Meeting, The Society for Maternal-Fetal Medicine, Dallas, Texas.
- May 2018 Zamba, K. D., Ahrens, M., Carter, K. D. & Wall, M. Divergence Measures between Normal Subjects and Glaucoma Patients with Mild Visual Loss using Threshold Automated Perimetry of the Full Visual Field. Presented at 23rd International Visual Field and Imaging Symposium, Kanazawa, Japan.
- Feb 2019 Nidey, N., Carnahan, R., Carter, K. D., Jasper, E., Greiner, A., Tabb, K. M., Jelliffe-Pawlowski, L. & Ryckman, K. K. Mental Health Disorders & Postpartum Opioid Prescription Patterns. Presented at The Pregnancy Meeting, 39th Annual Meeting, The Society for Maternal-Fetal Medicine, Las Vegas, Nevada.
- Mar 2019 Chorazy, M. L., Carter, K. D. & Strack, S. Breaking Down Silos: An Integrated Approach to Teaching Epidemiology and Biostatistics in Undergraduate Public Health Programs. Presented at 2019 Undergraduate Public Health and Global Health Education Summit, Arlington, Virginia.
- Apr 2019 Carter, K. D. & Chorazy, M. L. Designing and Redesigning a New Undergraduate Course. Presented at Unizin Summit, Denver, Colorado.

Service

Professional Service

Professional Organizations

2010 - 2015	American Association for the Advancement of Science, Member
2010 - Present	American Statistical Association, Member
2010 - Present	International Biometric Society, Member

Journal Reviews/Referee Manuscripts

2012 - Present	Gerodontology, Reviewer
2012 - Present	Scandinavian Journal of Statistics, Reviewer
2012 - Present	The American Statistician, Reviewer
2016 - Present	Communications in Statistics - Simulation and Computation, Reviewer
2016 - Present	The American Journal of Drug and Alcohol Abuse, Reviewer
2019 - Present	BMJ Open, Reviewer

Professional Consulting

2000	East Timor national oral health survey
2000	Gender equity in senior secondary school assessment (ESSSA) project
2000	New South Wales oral health services labour force planning project
2000	Papua New Guinea national oral health survey
2000	Victorian evaluation of the impact of the introduction of copayments in public dental services
2000	Victorian oral health services labour force planning project
2000	Vietnam national oral health survey

University, College, Department Service

College

1999 - 2003	Staff and postgraduate students (an average of 2-3 per year)
2016 - 2017	CPH MPH Advisory Council, Member
Aug 2016 - Oct 2017	CPH Curricular Innovations (MPH Program) Committee, Member
Aug 2016 - Jan 2019	CPH Research Council, Member
Apr 2017 - Jan 2019	CPH Statistical Methods Course Task Force, Member
Dec 2018 - Jan 2019	CPH Diversity, Equity, and Inclusion Strategic Planning Sub-Committee, Member
Sep 2020 - Jun 2023	CPH Faculty Council, Member
Jan 2016 - Present	CPH Undergraduate Public Health Methods Course Developers Group, Member
Jun 2017 - Present	CPH Diversity, Equity, and Inclusion Committee (Faculty Representative), Faculty Representative

Nov 2017 - Present	CPH MPH Program Core Faculty Advisory Group, Member
Oct 2019 - Present	CPH Strategic Planning Committee, Co-Chair
Aug 2020 - Present	CPH Diversity, Equity, and Inclusion Curriculum and Pedagogy Sub-Committee, Member
2021 - Present	CPH MPH Program Committee, Member

Department

Aug 2014 - Sep 2017	Biostatistics Student Awards Committee, Member
2015 - 2018	M.S. Core Exam Committee (Winter), Member
2017 - 2018	M.S. Core Exam Committee (Summer), Member
Sep 2021 - Aug 2022	M.S. Core Exam Committee (Winter 2022), Chair
Sep 2022 - Aug 2023	M.S. Core Exam Committee (Summer 2023), Chair
Aug 2015 - Present	Biostatistics Colloquium Committee (Co-Chair 2015-2017), Member
2017 - Present	M.S. Core Exam Committee (Summer) (Chair 2019-2021), Member