

CURRICULUM VITAE

Laura C. Hanson, MD, MPH

Personal Information

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Education

MPH, University of North Carolina, School of Public Health, Chapel Hill, North Carolina, 5/1991
(Epidemiology)
MD, Harvard Medical School, Boston, Massachusetts, 5/1986
BS, Duke University, Durham, North Carolina, 5/1982, summa cum laude (Botany)

Residency and Fellowships

1990 - 92 Robert Wood Johnson Clinical Scholar
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

1989 - 91 Geriatrics Fellowship
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

1988-89 Internal Medicine, PGY III
North Carolina Memorial Hospital
Chapel Hill, North Carolina

1986 - 88 Internal Medicine, PGY-I-II
Brigham and Women's Hospital
Boston, Massachusetts

Certification/Licensure

2018 Re-certification in Hospice & Palliative Medicine, American Board of Internal
Medicine

2012 Re-certification in Geriatrics, American Board of Internal Medicine

2009 Diplomate in Palliative Medicine, American Board of Internal Medicine

2003 Diplomate in Palliative Medicine, American Academy of Hospice and Palliative
Medicine

1992 Diplomate in Geriatrics, American Board of Internal Medicine

1989 Diplomate in Internal Medicine, American Board of Internal Medicine

1988 Medical License, North Carolina: License No. 33247

1987 Diplomate, National Board of Medical Examiners

Professional Experience - Employment History

2011 -- Professor
Division of Geriatric Medicine & Center for Aging and Health
University of North Carolina School of Medicine
Chapel Hill, North Carolina

2011 -- Adjunct Professor

Department of Epidemiology
University of North Carolina Gillings School of Public Health

2006 – 2011 Adjunct Associate Professor
Department of Epidemiology
University of North Carolina Gillings School of Public Health

1999 - 2011 Associate Professor
Division of General Medicine / Geriatric Medicine
University of North Carolina School of Medicine
Chapel Hill, North Carolina

2001 - 2002 Co-Director
Center on Health Ethics and Policy
UNC School of Medicine

1992 - 1999 Assistant Professor
Division of General Medicine and Program on Aging
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

1989 - 1992 Instructor, Department of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Additional Administrative Responsibilities

2018 - Medical Director, UNC Department of Medicine Palliative Care and Hospice Program
2017 - Co-Chair, Advance Care Planning Task Force for the UNC Health System
2006 - Assistant Director, Geriatric Medicine Fellowship
2001 - 2018 co-Director, UNC Palliative Care Program
1999 - 2002 Director of Clinical Services, UNC Program on Aging
1992 - 1998 Director, General Medicine Consult Service

Honors and Awards

2022 Indiana University IUCAR / RESPECT Visiting Scholar

2021 UNC Medical Center Quality and Safety award, for sustained improvement based on the work of our Mortality Reduction team.

2021 Stanley Aronson Lectureship in Hospice & Palliative Medicine, Department of Medicine, Brown Alpert School of Medicine Grand Rounds.

2020 Community Health Partnership award to Meghan McCann (UNC Medical Center Vice President of Operations) and Laura C. Hanson, MD (UNC Palliative Care Medical Director) from the Chatham County Board of Health for partnering on community response to the COVID-19 pandemic.

2017 2016-2017 Visiting Professor, "*in honor of our distinguished colleague and luminary teacher,*" Division of Geriatrics, University of California-San Francisco.

2017 Geriatrics Literature Year in Review selection for the Journal of the American Geriatrics Society as one of "*10 high-impact articles published in the geriatrics literature,*" for the Goals of Care study (JAMA Internal Medicine 2017).

- 2011 H. Fleming Fuller Award, UNC School of Medicine and UNC Hospitals, for recognition of a physician who demonstrates dedication to the highest standards of patient care, teaching and community service.
- 2011 Outstanding Excellence in Geriatric Research, American Geriatrics Society
- 2010 Cecil G. Sheps Distinguished Investigator Award
- 2001-2013 *America's Top Doctors*
- 2006 Healthcare Hero Award, from the Triangle Business Journal, for recognition of leadership in quality of care for geriatric patients and patients in palliative care
- 2006 Ewald W. Busse Award, for having a significant impact enhancing the health of older North Carolinians, NC Conference on Aging
- 2006 T. Reginald Harris Award, to the North Carolina physician with outstanding Achievements in the areas of health care quality and service to the medical community
- 2003 Book of the Year Award from the American Journal of Nursing, for Henderson M, Hanson LC, Reynolds K. *Improving Nursing Home Care of the Dying: A Training Manual for Nursing Home Staff*, Springer Publications, 2003.
- 2002 UNC School of Medicine Teaching Excellence Award
- 1999 Leadership Symposium, North Carolina Medical Society.
- 07/01/97 - 06/30/99 Soros Faculty Scholar, Project on Death in America
- 07/01/93 - 06/30/97 Robert Wood Johnson Generalist Faculty Scholar Award
- 09/82 - 06/86 Harvard National Scholarship, Harvard Medical School
- 09/78 - 06/82 Angier B. Duke Scholar, Duke University

Bibliography

E-publications

Winzelberg G, **Hanson LC**. "Palliative Care in the Nursing Home," Up To Date, September 2013-
<http://www.uptodate.com/contents/palliative-care-nursing-home>

Hanson LC. *Improving Advanced Dementia Care in Nursing Homes*. GeriPal podcast, April 4, 2017.
<https://www.geripal.org/2017/04/hanson-podcast-dementia.html>

Hanson LC, Schenck AP, Burstin H. *Measuring Quality of Care for Older Adults with Serious Illness*. Health Affairs invited blog post, January 22, 2014. <http://healthaffairs.org/blog/2014/01/22/measuring-quality-of-care-for-older-adults-with-serious-illness/>

Books

Henderson M, **Hanson LC**, Reynolds K. *Improving Nursing Home Care of the Dying: A Training Manual for Nursing Home Staff*, Springer Publications, 2003, pp 1-194.

Book Chapters (7)

Hanson LC. "Overview of the End-of-Life Experience in the United States," in *Improving Care at the End of Life*, Alan R. Weil and Rachel Dolan, eds. The Aspen Institute, 2016, pp. 21-36.

Hanson LC, Schenck AP, Burstin H. "Quality and Outcome Measures," in *Meeting the Needs of Older Adults with Serious Illness: Challenges and Opportunities in the Age of Health Care Reform*, Amy Kelley, Diane Meier, eds. Springer Publications, 2013.

Hanson LC, Ersek M. "Meeting Palliative Care Needs in Post-Acute Care Settings: 'To Help Them Live Until They Die,'" in *Care at the Close of Life: Evidence and Experience*, Stephen J. McPhee, Margaret A. Winker, Michael W. Rabow, Steven Z. Pantilat, Amy J Markowitz, eds. McGraw Hill Medical and JAMAevidence, publishers, 2010, pp. 513-522.

Winzelberg GS, **Hanson LC.** "Advocacy for Improving End-of-Life Care: A 30-year Healthcare Cultural Revolution," in *Patient Advocacy for Health Care Quality*. Jo Anne L. Earp, Elizabeth A. French, and Melissa B. Gilkey, editors, Jones and Barlett Publishers, 2008, pp. 333-358.

Danis M, **Hanson LC.** "Ethical Issues," in *New Frontiers in Geriatrics Research*, David Solomon, editor, American Geriatrics Society, 2004, pp 392-400.

Danis M, **Hanson LC,** Garrett J. "Experimental Methods," in *Methods in Medical Ethics*, Jeremy Sugarman and Daniel P. Sulmasy, editors, Georgetown University Press, 2001, pp 207-226 and 2nd Edition, 2010, pp 251-272.

Hanson LC. "Epidemiology of Infections in the Elderly", in *Epidemiologic Methods for the Study of Infectious Diseases*, James C. Thomas and David Weber, editors, Oxford Press, 2001, pp 394-403.

Manuscripts in preparation

Toles M, Preisser J, Colon-Emeric C, Naylor MD, Weinberger M, Zhang Y, **Hanson LC.** Connect-Home transitional care from skilled nursing facilities to home: a stepped wedge, cluster randomized trial.

Shmuel S, Pate V, Naumann RB, Duchesneau ED, Edwards JK, **Hanson LC,** Kinlaw AC, Funk MJ, Lund JL. Longitudinal patterns of anticholinergic and sedative drug load among older adults.

Lett E, Ernecoff NC, La Cava W, Weissman GE, Fashaw-Walters S, Tian J, Wessell K, Halpern S, **Hanson LC.** Study protocol for developing a mortality prediction model for long-term care facility residents with dementia in the United States.

Walling A, Ast K, Ahluwalia S, Dy S, Ersek M, Kamal A, **Hanson LC,** Ritchie C, Teno J, Harrison J. Patient reported measures for palliative care: the time is now.

Joni Gilissen J, Van den Block L, Korfage I, McMahan R, **Hanson LC** and Hickman L. Advance care planning trials in nursing homes: rationales behind outcomes to measure success.

Wessell KL, Childers J, **Hanson LC,** Tilly A, Bennett A. Health-related quality-of-life measurement tools for pediatric palliative care populations.

Manuscripts under review (5)

Wendlandt B, Pongracz L, Lin FC, Toles M, Gaynes BN, Hanson LC, Carson SS. PTSD symptom trajectories in family caregivers of patients with acute cardiorespiratory failure: a prospective cohort study. Submitted, Ann Intern Med July 2022.

Le Donne M, Kistler CE, Hanson LC, Kiyota A, Matsui T, Abe M, Inoue M. Translation and adaptation of a

workshop training Japanese primary care professionals on dementia-specific advance care planning skills. Submitted J Am Geriatr Soc, July 2022.

Niznik J, Gilliam M, Colon-Emeric C, Thorpe C, Lund JL, Berry SD, **Hanson LC**. Osteoporosis medications for older nursing home residents: current evidence and priorities for future research. Submitted JAMDA June 2022.

Teno JM, **Hanson LC**, Saliba D. Protecting seriously ill populations during dissemination of real-world healthcare innovation. Submitted J Am Geriatr Soc, February 2022.

Gromek K, Thorpe CT, Aspinall SL, **Hanson LC**, Niznik JD. Co-prescribing of anticholinergics and cholinesterase inhibitors: a potential deprescribing cascade. Submitted J Am Geriatr Soc December 2021.

Publications: Peer-reviewed (213)

Park EM, Deal AM, Heiling HM, Jung A, Yopp JM, Bowers SM, Hanson LC, Song MK, Valle CG, Yi B, Cassidy A, Won H, Rosenstein DL. Families Addressing Cancer Together (FACT): feasibility and acceptability of a web-based psychosocial intervention for parents with cancer. Support Care Cancer. 2022 Jul 13. doi: 10.1007/s00520-022-07278-x. Epub ahead of print. PMID: 35831719.

Hickman SE, Unroe KT, Mack LM, Wanzhu T, Stump TE, **Hanson LC**, Mitchell SL. The design and conduct of a pragmatic cluster-randomized trial of an advance care planning program for nursing home residents with dementia. In press, Clinical Trials May 2022.

Toles M, Leeman J, Gwyther L, Vu M, Vu T, **Hanson LC**. Unique care needs of people with dementia and their caregivers during transitions from skilled nursing facilities to home: a qualitative study. In press JAMDA May 2022.

Niznik JD, Berry SD, Syme M, Kelley CJ, **Hanson LC**, Harrison J. Addressing hesitancy to COVID-19 vaccines in healthcare assistants. In press Geriatric Nursing, March 2022.

Hendricksen M, Loizeau A, Habtemariam D, Anderson RA, **Hanson LC**, D'Agata EM, Mitchell SL. Provider adherence to the Trial to Reduce Antimicrobial use In Nursing home residents with Alzheimer's disease and other Dementias (TRAIN-AD) Intervention. Contem Clin Trials Commun 2022 Mar 25;27:100913. doi: 10.1016/j.conctc.2022.100913.

Park EM, Wang M, Bowers SM, Muriel AC, Rauch PK, Edwards T, Yi SM, Daniels B, **Hanson LC**, Song MK. Adaptation and psychometric evaluation of the Parenting Concerns Questionnaire - Advanced Disease (PCQ-AD). Am J Hosp Palliat Care 2021, e-published ahead of print.

Wendlandt B, Ceppe AS, Gaynes BN, Cox CE, **Hanson LC**, Nelson JE, Carson SS. Post-traumatic stress disorder symptom clusters in surrogate decision-makers of patients experiencing chronic critical illness. In press Crit Care Explor, in press January 2022.

Casey MF, Price L, Markwalter D, Bohrmann T, Tsujimoto TM, Lavin K, **Hanson LC**, Lin FC, Platts-Mills TF. Advance care planning for emergency department patients with COVID-19 infection: an assessment of a provider training program. In press Am J Hospice and Pall Med, December 2021.

DiMartino L, Miano T, Wessell KL, Bohac B, **Hanson LC**. Using natural language processing to identify late-stage cancer patients with uncontrolled symptoms in the electronic health record. J Pain Symp Manage, 2021 Nov 4:S0885-3924(21)00603-5 online ahead of print.

Gray NA, Kamal AH, Hanson LC, Bull J, Kutner JS, Ritchie CS, Johnson KS. Clinician perspectives guiding approach to comprehensiveness of palliative care assessment. J Palliat Med, 2022, 25:307-311.

Niznik JD, Aspinall S, **Hanson LC**, Gilliam MA, Li X, Kelley CJ, Thorpe CT. Patterns of oral bisphosphonate deprescribing in older nursing home residents with dementia. *Osteoporosis International*, 2021 Sep 4. Doi: 10.1007/s00198-021-06141-9. Online ahead of print.

Lund JL, Duberstein PR, Loh KP, Gilmore N, Plumb S, Lei L, Keil AP, Islam JY, **Hanson LC**, Giguere JK, Vogel BG, Burnette BL, Mohile SG. Life expectancy in older adults with advanced cancer: evaluation of a geriatric assessment-based prognostic model. *J Geriatr Onc* 2021, on line ahead of print.

Niznik JD, Harrison J, White E, Syme M, **Hanson LC**, Kelley CJ, Porter L, Berry SD. Perceptions of COVID-19 vaccines among healthcare assistants: a national survey. *J Am Geriatr Soc*, 2022; 70:8-18.

Chisholm L, **Hanson LC**, Zimmerman S, McConnell E, Rosemond C, Weiner BJ. Implementation of a Goals of Care communication innovation among nursing homes: a multiple case study design. *JAMDA*, 2021 e-published ahead of print.

Carpenter JG, **Hanson LC**, Hodgson N, Murray A, Hippe DS, Polissar NL, Ersek M. Implementing primary palliative care in post-acute nursing home care: protocol for an embedded pilot pragmatic trial. *Contemp Clin Trials Commun*, 2021 Jul 26;23:100822. doi: 10.1016/j.conctc.2021.100822. eCollection

Lowe JR, **Hanson LC**. Preventing death rattle with prophylactic subcutaneous scopolamine butylbromide. *JAMA*, 2021; 326:1263-1265.

Shmuel S, Pate V, Pepin MJ, Bailey JC, Golightly YM, **Hanson LC**, Sturmer T, Naumann RB, Gnjjidic D, Lund JL. Effects of anticholinergic and sedative medication use on fractures: a self-controlled design study. *J Am Geriatr Soc*, 2021 e-published ahead of print.

Mitchell SL, D'Agata EM, **Hanson LC**, Habtemariam DA, Scott EM, Stevens E, Whyman JD, Tsai T, Anderson RA, Shaffer ML. The Trial to Reduce Antimicrobial use In Nursing home residents with Alzheimer's disease and other Dementias (TRAIN-AD): a cluster randomized clinical trial to improve infection management in advanced dementia. *JAMA IM*, 2021; 181:1174-1182.

Kelley AS, **Hanson LC**, Ast K, Ciemins EL, Dunning SC, Meskow C, Ritchie CS. The serious illness population: ascertainment via electronic health record or claims data. *J Pain Symptom Manage*, 2021 Sep;62(3):e148-e155. doi: 10.1016/j.jpainsymman.2021.04.012. Epub 2021 Apr 29.

Wendlandt B, Chen YT, Lin FC, Toles MP, Gaynes BN, **Hanson LC**, Carson SS. Post-traumatic stress disorder symptom trajectories in ICU family caregivers. *In press Crit Care Explorations*, March 2021.

Wendlandt B, Ceppe A, Cox CE, **Hanson LC**, Nelson JE, Carson SS. The association between patient health status and surrogate decision maker PTSD symptoms in chronic critical illness. *Ann Am Thorac Soc* 2021; 18:1868-1875.

Ernecoff NC, Wessell KL, Bennett AV, **Hanson LC**. Measuring goal-concordant care in palliative care research. *J Pain Symptom Manage* 2021; e-published March 2021.

Porter LS, Steel JL, Fairclough DL, LeBlanc TW, Bull J, **Hanson LC**, Fischer S, Keefe FJ. Caregiver-guided pain coping skills training for patients with advanced cancer: results from a randomized clinical trial. *Palliative Medicine*, 2021 May;35(5):952-961. doi: 10.1177/02692163211004216. Epub 2021 Mar 29. PMID: 33775175

Hanson LC, Ernecoff NC, Wessell KL, Hanspal J, Lin FC, Collichio FA, DeWalt D, Milowsky MI, Rosenstein DL, Winzelberg GS, Wood WA. Pre-post evaluation of collaborative oncology palliative care for patients with Stage IV cancer. *J Pain Symptom Manage*, 2021; 62:e56-e64.

Ernecoff NC, Wessell KL, Wood WA, Winzelberg GS, Collichio FA, **Hanson LC**. How well do documented goals of care discussions for patients with Stage IV cancer reflect communication best practices? *BMC Palliative Care* 2021;20(1):1-8.

Toles M, Colon-Emeric C, **Hanson LC**, Naylor M, Weinberger M, Covington J, Preisser JS. Transitional care from skilled nursing facilities to home: study protocol for a stepped wedge cluster randomized trial. *BMC Trials*, 2021 Feb 5;22(1):120. doi: 10.1186/s13063-021-05068-0.

Kistler CE, Beeber AS, Winzelberg GS, Gabriel SL, Wretman CJ, **Hanson LC**. Evaluation of a training toolkit to improve primary care clinicians' skills for dementia advance care planning. *J Palliat Med*, 2021; 24:1183-1190.

Niznik J, Li X, Gilliam MA, **Hanson LC**, Aspinall SL, Colon-Emeric C, Thorpe CT. Are nursing home residents with dementia appropriately treated for fracture prevention? *JAMDA* 2021; 22(1):28-35.e.3. doi: 10.1016/j.jamda.2020.11.019. Epub 2020 Dec 13.

Hanson LC, Ernecoff NC, Wessell KL, Lin FC, Milowsky MI, Collichio FA, Wood WA, Rosenstein DL. Mortality risk for patients with Stage IV cancer and acute illness hospitalization. *J Pain Symptom Manage*, 2021; 61(4): 797-804.

Carpenter JG, Ulrich C, Hodgson N, **Hanson LC**, Ersek M. Alternative consent models in pragmatic palliative care clinical trials. *J Pain Symptom Manage*, 2021; 62:183-191.

Shmuel S, Pate V, Pepin MJ, Bailey JC, **Hanson LC**, Sturmer T, Naumann RB, Golightly YM, Gnjjidic D, Lund JL. Quantifying cumulative anticholinergic and sedative drug load among US Medicare beneficiaries. *Pharmacoepidemiology and Drug Safety* 2021; 30:144-156.

Kistler CE, Van Dongen MJ, Ernecoff N, Daaleman TP, **Hanson LC**. Evaluating the care provision of a community-based serious-illness care program via chart measures. *BMC Geriatrics*, 2020; 20:351. doi: 10.1186/s12877-020-01736-z. PMID: 32933473

Hanson LC. We will all be changed: palliative care transformation in the time of COVID-19. *J Palliat Med* 2020; 23:1145-1146.

Hanson LC, Bennett AV, Jonsson M, Kelley A, Ritchie C, Saliba D, Teno J, Zimmerman S. Selecting outcomes to ensure pragmatic trials are relevant to people living with dementia and caregivers. *J Am Geriatr Soc* 2020; 68 Suppl 2:S55-S61.

Tilly AE, Lavin K, **Hanson LC**. Lifestyle medicine interventions in patients with advanced disease receiving palliative or hospice care. *Am J Lifestyle Med* 2020; 14:264-266.

Harrison KL, Bull JH, Garrett SB, Bonsignore L, Bice T, **Hanson LC**, Ritchie CS. Community-based palliative care consultations: comparing dementia to non-dementia serious illnesses. *J Palliat Med*, 2020; 23:1021-1029.

Ernecoff NC, Wessell KL, **Hanson LC**, Shea CM, Dusetzina SB, Weinberger M, Bennett AV. Does receipt of recommended elements of palliative care precede in-hospital death or hospice referral? *J Pain Symptom Manage*, 2020; 59:778-786.

Kirk MA, Haines ER, Rokoske FS, Powell BJ, Weinberger M, **Hanson LC**, Birken SA. A case study of a theory-based method for identifying and reporting core functions and forms of evidence-based interventions. *Transl Behav Med* 2019; e-pub ahead of print.

Niznik JD, Zhao X, Aspinall SL, **Hanson LC**, Nace D, Thorpe JM, Thorpe CT. Risk for health events after deprescribing acetylcholinesterase inhibitors in nursing home residents with severe dementia. *J Am Geriatr Soc*, 2020; Oct;68(10):2412-2413. doi: 10.1111/jgs.16746. Epub 2020 Aug 10.

Sanders JJ, Paladino J, Reaves E, Leutke-Stahlman H, Price RA, Lorenz K, **Hanson LC**, Curtis JR, Meier DE, Fromme EK, Block SD. Quality measurement of serious illness communication: recommendations for health systems based on findings from a symposium of national experts. *J Palliat Med*, 2020; 23:13-21.

Ernecoff NC, Wessell KL, **Hanson LC**, Dusetzina SB, Shea CM, Weinberger M, Bennett AV. Elements of palliative care in the last six months of life: frequency, predictors and timing. *J Gen Intern Med* 2020; 35:753-761.

Ernecoff NC, Check D, Bannon M, **Hanson LC**, Dionne-Odum JN, Corbelli J, Klein-Fedyshin M, Schenker Y, Zimmermann C, Arnold RM, Kavalieratos D. Comparing specialty and primary palliative care interventions: analysis of a systematic review. *J Palliat Med*, 2020; 23:389-396.

Ernecoff NC, **Hanson LC**, Fox AL, Daaelman TP, Kistler CE. Palliative care in a community-based serious illness program: the REACH evaluation. *J Palliat Med*, 2020; 23:692-697.

Loizeau AJ, D'Agata EMC, Shaffer ML, **Hanson LC**, Anderson RA, Tsai T, Habtemariam DA, Bergman E, Carroll R, Cohen SM, Scott E, Stevens E, Whyman JD, Bennert EH, Mitchell SL. The Trial to Reduce Antimicrobial Use in Nursing Home Residents with Alzheimer's Disease and other Dementias: study protocol for a cluster randomized controlled trial. *Trials*, 2019; 20:594 e-published.

Ernecoff NC, Wessell KL, **Hanson LC**, Lee AM, Shea CM, Dusetzina SB, Weinberger M, Bennett AV. Electronic health record phenotypes for identifying patients with late-stage disease: a method for research and clinical application. *J Gen Intern Med*, 2019; 34:2818-2823.

Kirk MA, Birken S, Weinberger M, **Hanson LC**, Powell BJ, Rokoske F. Pilot test of hospice screening in home health. *J Palliat Med* 2019; 22:1266-1270.

Hanson LC. Notes from the Editor: Out of the comfort zone. *J Palliat Med*, 2019: 22-472-473.

Chua IS, Zachariah F, Dale W, Feliciano J, **Hanson LC**, Blackhall L, Quest T, Curseen K, Grey C, Rhodes R, Shoemaker L, Silveira M, Fischer S, O'Mahony S, Leventakos K, Trotter C, Sereno I, Kamdar M, Temel J, Greer JA. Early integrated telehealth versus in-person palliative care for patients with advanced lung cancer: a study protocol. *J Palliat Med* 2019; 22:7-19.

Kelley AS, Ferreira KB, Bollens-Lund E, Mather H, **Hanson LC**, Ritchie CS. Identifying older adults with serious illness: transitioning from ICD-9 to ICD-10. *J Pain Symptom Manage* 2019; 57:1137-1142.

Wendlandt B, Ceppe A, Choudhury S, Cox CE, **Hanson LC**, Danis M, Tulsky JA, Nelson JE, Carson SS. Modifiable elements of ICU supportive care and communication are associated with surrogates' PTSD symptoms. *Intensive Care Med* 2019; 45:619-626.

Ernecoff NC, Lin FC, Wessell K, **Hanson LC**. Quality of life with late-stage dementia: opportunities to intervene. *J Am Geriatr Soc* 2019; 67:1189-1196.

Daaleman TP, Ernecoff NC, Kistler CE, Reid A, Reed D, **Hanson LC**. The impact of a community-based serious illness care program on health care utilization and patient care experience. *J Am Geriatr Soc* 2019; 67:825-830.

Porter LS, Samsa G, Steel JL, **Hanson LC**, LeBlanc TW, Bull J, Fischer S, Keefe FJ. Caregiver-guided pain coping skills training for patients with advanced cancer: Background, design and challenges for the CaringPals study. *Clinical Trials* 2019; 16:263-272.

Cox CE, Hough CL, White DB, Jones DM, Kahn JM, Olsen MK, Lewis CL, **Hanson LC**, Carson SS. Effects of a personalized web-based decision aid for surrogate decision makers of patients with prolonged mechanical ventilation: a randomized clinical trial. *Ann Intern Med* 2019; 170:285-297.

Hanson LC, Kistler CE, Lavin K, Gabriel SL, Ernecoff NC, Lin FC, Sachs GA, Mitchell SL. Triggered palliative care for late-stage dementia: a pilot randomized trial. *J Pain Symptom Manage*, 2019; 57:10-19.

Cohen S, Volandes AE, Shaffer ML, **Hanson LC**, Habtemariam D, Mitchell SL. Concordance between proxy level of care preference and advance directives among nursing home residents with advanced dementia: a cluster randomized clinical trial. *J Pain Symptom Manage*, 2019; 57:37-46.

Wendlandt B, Ceppe A, Choudhury S, Nelson JE, Cox CE, **Hanson LC**, Danis M, Tulsy JA, Carson SS. Risk factors for post-traumatic stress disorder symptoms in surrogate decision-makers of patients with chronic critical illness. *Ann Am Thorac Soc* 2018; 15:1451-1458.

Toles M, Leeman J, Colon-Emeric C, **Hanson LC**. Implementing a standardized transition care plan in skilled nursing facilities. *J Appl Gerontol*, 2020; 39:855-862.

Toles M, Song MK, Lin FC, **Hanson LC**. Perceptions of family decision-makers of nursing home residents with advanced dementia regarding the quality of communication around end-of-life care. *J Am Med Dir Assoc* 2018; 19:879-883.

Ernecoff NC, Zimmerman S, Mitchell SL, Song MK, Lin FC, Wessell K, **Hanson LC**. Concordance between goals of care and treatment decisions for persons with dementia. *J Palliat Med* 2018; 21:1442-1447.

Mitchell SL, Shaffer ML, Cohen S, **Hanson LC**, Habtemariam D, Volandes AE. An advance care planning video decision support tool for nursing home residents with advanced dementia: a cluster randomized clinical trial. *JAMA Internal Med*, 2018;178:961-969.

Loizeau AJ, Shaffer ML, Habtemariam D, **Hanson LC**, Volandes AE, Mitchell SL. Perception of prognosis among proxies of nursing home residents with advanced dementia. *JAMA Internal Med*, 2018; 178:961-969.

DiMartino LD, Birken SA, **Hanson LC**, Trogdon JG, Clary AS, Weinberger M, Reeder-Hayes K, Weiner BJ. The influence of formal and informal implementation policies and practices on healthcare innovation implementation: a mixed methods analysis. *Healthcare Management Review*, 2018; 43:249-260.

Li L, Nelson J, Carson S, Cox C, **Hanson LC**, Tulsy JA, Danis M. How surrogate decision-makers for patients with chronic critical illness perceive and carry out their role. *Crit Care Med*, 2018; 46:699-704.

DiMartino LD, Weiner BJ, **Hanson LC**, Weinberger M, Birken SA, Reeder-Hayes K, Trogdon JG. The impact of two triggered palliative care consultation approaches on consult implementation in oncology. *Healthcare: The Journal of Delivery Science and Innovation*, 2019; 7:38-43.

Lamas D, Panariello N, Henrich N, Hammes B, **Hanson LC**, Meier DE, Guinn N, Corrigan J, Huber S, Luetke-Stahlman H, Block S. Advance care planning documentation in electronic health records: current challenges and recommendations for change. *J Palliat Med* 2018; 21:522-528.

Ernecoff NC, Wessell K, Gabriel S, Carey T, **Hanson LC**. A novel screening to identify late stage dementia patients for palliative care research and practice. *J Pain Symptom Manage* 2018; 55:1152-1158.

Dolin R, Silberman P, Kirk D, Sterns SC, **Hanson LC**, Taylor DH, Holmes M. Do live discharge rates increase as hospices approach their aggregate caps? *J Pain Symptom Manage* 2018; 55:775-784.

Austin CA, Choudhury S, Lincoln T, Chang L, Cox C, Weaver MA, **Hanson LC**, Nelson JE, Carson SS. Rapid response events in hospitalized patients: patient symptoms and clinician communication. *J Pain Symptom Manage* 2018; 55:946-952.

Blomberg BA, Mulligan RC, Staub SJ, **Hanson LC**, Drickamer MA, Dale MC. Handing off the older patient: improving documentation of geriatric assessment for transitions of care. *J Am Geriatr Soc* 2018; 66:401-406.

Zheng NT, Li Q, **Hanson LC**, Wessell KL, Chong N, Sherif N, Broyles IH, Frank J, Kirk MA, Schwartz CR, Levitt AF, Rokoske F. Nationwide quality of hospice care: findings from the Centers for Medicaid & Medicare Services Hospice Quality Reporting System. *J Pain Symptom Manage* 2018; 55:427-432

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Freeman AT, Wood WA, Fox A, **Hanson LC**. Palliative care consultation and advance care planning for adults with high-risk leukemia admitted to an academic medical center. *J Palliat Med* 2018; 21:225-228.

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Hanson LC, Dent G. An 82-year-old woman with weight loss and eosinophilia. J Am Geriatr Soc 1995; 43:1161-1164.

Hanson LC, Danis M, Lazorick S. Emergency triage to intensive care: can we use prognosis and patient preferences? J Am Geriatr Soc 1994; 42:1277-1281.

Hanson LC, Danis M, Mutran E, Keenan NL. Impact of patient incompetence on decisions to use or withhold life sustaining treatment. Am J Med 1994; 97:235-241.

Hanson LC, Weber DJ, Rutala WA: Risk factors for nosocomial pneumonia in the elderly. Am J Med 1992; 92:161-166.

Hanson LC, Danis M: Use of life-sustaining treatment for the elderly. J Am Geriatr Soc 1991; 39:772-777.

Publications: non peer-reviewed

Tilly AE, Lavin K, **Hanson LC**. Lifestyle medicine interventions in patients with advanced disease receiving palliative or hospice care. AJLM 2020; [e-published February 13] doi.org/10.1177/1559827620905784

Zimmerman S, **Hanson LC**. Unpacking communication about end-of-life care: resulting recommendations. J Am Med Dir Assoc 2019; 20:225-226.

Coppola S, Rosemond CA, Greger-Holt N, Soltys FG, **Hanson LC**, Snider MA, Busby-Whitehead J. Arena assessment: evolution of teamwork for frail older adults. Topics Ger Rehab, 2002; 17:13-28.

Hanson LC. Book Review of The Mind Is Not the Heart: Recollections of a Woman Physician, New Engl J Med 1990;323-424-25.

Teaching Record

Course Director

2006 – 2012 Clinical Epidemiologic Research Methods and Skills (EPID 805 – 806)

Preclinical Medical School Teaching

1995-97	Clinical Epidemiology seminar leader
1991-93	Clinical Epidemiology seminar leader
1992	Physical Diagnosis instructor
1990	Introduction to Medicine seminar instructor

Teaching Residents and Fellows

2010 – Monthly seminar on scholarship, research and quality improvement

Mentoring and Research Supervision (*mentees in academic or public health roles)

Programs

2003 -- 2012 Faculty, K30 Research Mentoring Program

1998 -- 2003 Faculty, Robert Wood Johnson Clinical Scholars Program

Individual trainees

2021- Assistant Professor, Division of General Internal Medicine (Alyssa Tilly, MD)*
2021- Assistant Professor, Division of Geriatric Medicine (David Lynch, MD)*
2020- Assistant Professor, Division of Geriatric Medicine (Joshua Niznik, PhD)*
2020- KL2, UNC Division of Pulmonary and Critical Care Medicine (Blair Wendlandt, MD)*
2018- NIH K award, University of Pennsylvania School of Nursing (Joan Carpenter, PhD)*
2012- KL2 and NIH K award primary mentor, UNC Department of Psychiatry (Eliza Park, MD)*
2018- Doctoral thesis and post-doctoral advisor, School of Public Health, Epidemiology (Shahar Shmuel, ScM)
2015-19 Doctoral thesis advisor, School of Public Health, Health Policy (Natalie Ernecoff, MPH)
2017-18 Medical student advisor, UNC School of Medicine, Quality and Safety Concentration (Allison Cummings, BSPH)
2017-18 Medical student advisor, UNC School of Medicine, Geriatrics Concentration (Hannah Chen, BA)
2017 MSTAR Student Research intern (Shivani Shah, Northeast Ohio Medical University)
2016-18 Doctoral thesis advisor, School of Public Health, Health Policy (Alexis Kirk, MPH)*
2013-18 NIH K award primary mentor, UNC School of Nursing (Mark Toles, PhD)*
2016-17 Masters advisor, School of Public Health, Healthcare & Prevention MPH (Jordana Laks)
2015-17 Doctoral thesis advisor, School of Public Health, Health Policy (Rachel Dolin)
2015-17 Doctoral thesis advisor, School of Public Health, Health Policy (Lisa DiMartino, MPH)
2013-15 Instructor, Geriatric Medicine fellow (Adrian Austin, MD)*
2013-15 Assistant Professor, University of South Florida (Latarsha Chisholm, PhD)*
2013-14 MSTAR Student Research intern (Seth Einterz, Georgetown School of Medicine)
2013 Master of Science in Nursing advisor, School of Nursing (Lauren Gurschick)*
2012 Master's thesis reviewer, School of Public Health (Meredith Gilliam, MD, MPH)*
2011-12 MSTAR Student Research intern (Amanda Snyder, UNC School of Medicine)*
2010-12 Instructor, Geriatric Medicine fellow (Annette Beyea, DO)*
2009-11 Doctoral thesis advisor, School of Public Health (Laura D'Arcy, PhD)
2008-11 Instructor, Geriatric Medicine fellow (Leslie Scheunemann, MD)*
2006-12 Assistant Professor K30 / NPCRC career development award (Elisabeth Dellon, MD)*
2005-11 Assistant Professor K30 / GACA career development award (Anthony Caprio, MD)*
2004-09 Doctoral thesis advisor, School of Public Health (Cherie Rosemond, PhD)*
2004-06 Doctoral thesis advisor, School of Public Health (Jean Munn, PhD)*
2002-04 Assistant Professor, Brookdale career development grant (Gary Winzelberg, MD)*
2002-04 Medical student research project (Monica Slubicki, MD)
2000-04 Doctoral thesis advisor, School of Public Health (Kimberly Reynolds, PhD)
2000-02 Instructor, Geriatric Medicine fellow (Malaz Boustani, MD, MPH)*
1999-00 Master's thesis advisor, School of Public Health (Judy Zerzan, MD, MPH)*
1999-00 Master's thesis advisor, School of Public Health (Marie Carlson, MD, MPH)*
1999-00 Master's thesis advisor, School of Public Health (Kimberly Reynolds, MPH)
1998-99 Master's thesis advisor, School of Public Health (Roy Kim, MPH)
1998-99 Medical student research award (Wendy Baer, MD)*
1998-99 Master's thesis advisor, School of Public Health (Peter Reed, MPH)*
1998-99 Medical student research project (Alan Schulman, MD)
1997-98 Medical student research project (Manoj Menon, MD)*
1996-97 Medical student research award (John Petty, MD)*
1994 Medical student research award (Suzanne Lazorick, MD)*
1992 Master's thesis advisor, School of Public Health (Kenji Cunnion, MPH)*

Clinical Teaching

2002 -- Attending Physician, Palliative Care Program
1996 -- Attending Physician, 1 General Medicine / Geriatrics Ward Service
1992 -- 1999 Attending Physician, 2 months per year on General Medicine
Consult service

1992 -- 1998 Preceptor, one half day per week in the Resident Primary Care Clinic for 4-6 residents

Syllabus Development

1997 Geriatric Medicine rotation, Medicine housestaff
1992 General Medicine Consult rotation, Medicine housestaff

Conferences Directed

Invited Conference Core Faculty, "Research on Advanced Dementia: State of the Art and Future Directions," US Dept of Health and Human Services and the NAPA Advisory Council on Alzheimer's Research, Care and Services, hosted by the Institute of Medicine. January 2014.

Invited Conference co-Director, "Research in Advanced Dementia," Hebrew SeniorLife, Harvard Medical School, Boston, MA, June 2012.

Conference Leader, "Engaging Care Managers as Palliative Care Communicators," 8-site statewide conference series funded by the Community Care of North Carolina, the state's network for Medicaid primary healthcare delivery, Aug 2010-Mar 2011.

Conference Leader, "Improving End of Life Care in Long Term Care," hosted by Hospice of Iredell County, North Carolina, funded by Rallying Points Initiative, April 2005

Conference Leader, "Improving End of Life Care in Long Term Care," hosted by the Central MA Partnership to Improve Care at the End of Life, Westborough, MA, funded by Rallying Points Initiative, May 2004.

Conference Director, "Releasing Restraints," UNC Program on Aging and Medical Review of North Carolina, Inc., Greensboro, NC, May 16, 1997.

Conference Director, "Innovations in Long Term Care for Elders", University of North Carolina Department of Medicine and Program on Aging, Chapel Hill, NC, June 20-21, 1996.

Selected National and Regional Presentations

"Palliative Care for People with Dementia," IUCAR RESPECT Lectureship, Indiana University, Indianapolis, IA. May 4, 2022.

"Communication in Serious Illness: Empirical Evidence and Clinical Experience," Stanley Aronson Lectureship in Hospice & Palliative Care, Department of Medicine, Brown Alpert Medical School Grand Rounds, Rhode Island Hospital, Providence, RI. July 13, 2021.

"Need Better Peer Review Skills for Palliative Care Manuscripts: Mentoring and Being Mentored." PCRC Webinar, April 16, 2021. <https://palliativecareresearch.org/research/investigator-support-information/idc-webinar-series>

"Pragmatic Trials in Long-term Care: Advance Care Planning," presented at Pragmatic Trials in Long-Term Care: A Consensus Conference, organized by the Journal of Post-Acute and Long-Term Care Medicine (JAMDA), Journal of the American Geriatrics Society (JAGS), and Geriatric Nursing, with funding from NIA. March 10, 2021.

"Finding Pragmatic and Relevant Outcomes for AD/DRD ePCTs" IMPACT Collaboratory Grand Rounds, June 16, 2020, <https://impactcollaboratory.org/grand-rounds/>

“So You Want to Design a Clinical Trial to Help People with Dementia and Their Caregivers – Here’s Where to Start.” PCRC Webinar, May 19, 2020. <https://palliativecareresearch.org/research/investigator-support-information/idc-webinar-series>

“Communication in Serious Illness: Ethical Values, Empirical Evidence, and Clinical Experience,” Program in Bioethics and Humanities, Carver College of Medicine, University of Iowa – Iowa City, May 22, 2019.

“Using PCRC Resources: Patient and Caregiver Assessment Tools for Quality Improvement and Research,” American Academy of Hospice & Palliative Medicine Annual Assembly, Orlando, FL, March 14, 2019.

“Evaluating Quality of Pain Treatment Among the Seriously Ill Populations,” American Academy of Hospice & Palliative Medicine Annual Assembly, Orlando, FL, March 14, 2019.

“Quality Care for Advanced Dementia,” Grand Rounds, Geriatrics & Palliative Medicine Department, Icahn School of Medicine at Mount Sinai, New York, NY, January 25, 2018.

“Quality Care for Advanced Dementia,” Grand Rounds, Eastern Virginia Medical School, Norfolk, VA, January 10, 2018.

“Advance Care Planning for Palliative Care,” Coping with Cancer: Striving for Excellence in Palliative Care, Chapel Hill, NC, October 21, 2017.

“Promoting Goals of Care to Improve Decision Making in Nursing Homes” in the Symposium on Improving Dementia Care and Outcomes Across Settings of Care, International Association of Geriatrics and Gerontology, San Francisco, CA July 24, 2017.

“Providing High Quality Dementia Care in 2017 and Beyond,” American Geriatrics Society National Meeting Symposium, San Antonio, TX, May 18, 2017.

“Quality Care for Advanced Dementia,” Geriatrics Grand Rounds, UCSF, San Francisco CA, March 22, 2017.

“End-of-Life Care in America,” invited presentation for the Aspen Health Strategy Group, Aspen Institute, Aspen CO, June 22, 2016.

“Palliative Care in Nursing Homes,” CAPC National Seminar, San Antonio TX, November 10, 2015.

“Engaging with CMS for Palliative Care,” invited presentation National Palliative Care Research Center Kathleen Foley Conference, Jackson Hole WY, October 2015.

“Population-Specific Palliative Care: Advanced Dementia,” *Improving Palliative Care for Patients with Heart Failure Conference*, University of Alabama - Birmingham, June 9, 2015.

“Hospice and Palliative Care,” Medicine Grand Rounds, New Hanover Regional Medical Center, Wilmington, NC, May 20, 2015.

“Hospice and Palliative Medicine: Quality Care for Serious Illness,” Medicine Grand Rounds, Faulkner Professorship, Boston University Department of Medicine, Boston, MA, April 3, 2015

“Geriatric Palliative Care for Advanced Dementia,” Geriatrics Grand Rounds, Faulkner Professorship, Boston University Division of Geriatric Medicine, Boston, MA, April 3, 2015

“Goals of Care: Shared Decision-Making in Advanced Dementia Care,” Geriatrics Grand Challenge Conference, Duke School of Nursing, November 14, 2014.

“National Alzheimer’s Project Act,” Kathy Foley Palliative Care Conference, National Palliative Care Research Center, Park City, UT, October 18, 2014.

“Palliative Care in Nursing Homes: CMS Revisions to Ftag 309 Quality of Care,” NC Department of Health and Human Services, Acute and Home Care Section, June 2, 2014.

“Using Quality Measures to Improve Care for Patients with Serious Illness,” invited presentation for strategy-setting conference Are We Fulfilling Lincoln’s Promise: Performance Measures and Improved Care for Seriously Ill Veterans, Veterans Administration, Washington, DC, May 2014.

“Research in Advanced Dementia: Patient Experience,” invited presentation, Institute of Medicine (IOM) for the U.S. Department of Health and Human Services and the Advisory Council on Alzheimer’s Research, Care, and Services, January 2014.

“Outcome Metrics: Is our Service as Good as We Think It Is?”, CAPC National Webinar, October 2013.

“Innovation in Communication: Thoughts for Research and Practice,” Geriatric Medicine Grand Rounds, University of Pennsylvania, Philadelphia, PA, April 2013

“Dementia Palliative Care during Years of Incurable Illness,” invited presentation, University of Pennsylvania, Philadelphia, PA, April 2013.

“Five Things Physicians and Patients Should Question in HPM”: Communicating AAHPM’s Choosing Wisely Recommendations to Patients and the Public,” panel presentation, Annual Assembly of the American Academy of Hospice and Palliative Medicine, New Orleans, LA, March 2013.

“Research Priorities in Geriatric Palliative Care: Goals, Values and Preferences.” Invited presentation, Research Priorities in Geriatric Palliative Care conference co-sponsored by National Institute on Aging and the National Palliative Care Research Center, January 2013.

“Share the Care of Older Adults: Providing Quality Palliative Care across the Continuum.” Workshop, Annual Assembly of the American Academy of Hospice and Palliative Medicine, Denver, CO, March 2012

“Writing an NIH Research Proposal.” Workshop, Annual Assembly of the American Academy of Hospice and Palliative Medicine, Denver, CO, March 2012.

“Communication and Decision-making with Seriously Ill Patients,” Duke Geriatric Medicine Grand Rounds, February 2012.

“Randomized Trial of a Decision Aid for Feeding Options in Advanced Dementia” encore presentation, The Science of Compassion: Future Directions in Palliative and End of Life Care Research Conference, NIH-NINR, August 2011.

“Randomized Trial of Decision Support for Feeding Options in Advanced Dementia,” Plenary Presentation, American Geriatrics Society National Meeting, Washington, DC, May 2011.

“Hospice in Long-Term Care: Practical Approaches to Regulations, Ethics and Collaboration.” American Academy of Hospice and Palliative Medicine, Preconference Workshop, Vancouver, BC, March 2011.

“Hospice and Palliative Care Quality Measures: the PEACE Project,” National Hospice Working Group, Chicago, IL, July 2010.

“Hospice and Non-hospice Models of Palliative Care Delivery in Long-term Care.” American Academy of Hospice and Palliative Medicine Symposium, national meeting, Boston, MA, March 2010.

“Advance Care Planning and Communication,” Department of Medicine Grand Rounds, University of North Carolina School of Medicine, February 2010.

"Medical Cannabis Study Bill" testimony, North Carolina Legislative Committee hearing, June 2009.

"Decisions about Feeding Options for Seriously Ill Patients," Department of Medicine Grand Rounds, Emory School of Medicine, October 2008.

"Issues in Palliative Care: Lessons from the Trenches," Department of Medicine Grand Rounds, University of North Carolina School of Medicine, October 2008.

"Communicating Advance Care Plans: What Works?" Keynote Speaker, East Carolina University Geriatrics Symposium, October 2008.

"Caregiving: Caring for Your Parents," Panel Discussion, UNC-TV June, 2008.

"PEACE Project: Quality Measures for Hospice and Palliative Care," American Academy of Hospice and Palliative Medicine national meeting, Tampa, FL, January 2008.

"On Our Terms: Health Advisors Reach Out to the African-American Community." *In Life and Death We Belong to God* conference, Duke Institute on Care at the End of Life and Presbyterian Church USA, March 2007.

"Decisions About Feeding Options for Seriously Ill Patients," Duke Geriatrics Grand Rounds, October 2006.

"Pain Management for Elderly Patients," North Carolina State Commission on Aging, February 2006.

"Tube Feeding for Seriously Ill Patients: The Not So Extraordinary Life Sustaining Therapy." American Academy of Hospice and Palliative Medicine national meeting, Nashville, TN, 2006.

"Access to Nursing Home Hospice," Duke Institute on Care at the End of Life, September 2005.

"Creating a Good Dying Experience for Patients and Families," Lumber River Council of Governments, Robeson County, April 2005.

"Pain Management for Geriatric Patients," Carolinas Pain Congress, Charlotte, NC January 2005.

"Can Informed Consent Become Shared Decision-making?" Rosemary Flanigan Lectureship, Center for Practical Bioethics, Kansas City, MO, August 2004.

"Good Communication, Good Medicine" Oncology Grand Rounds, UNC Lineberger Comprehensive Cancer Center, August 2004.

"Excellence in End of Life Care in Nursing Homes," Duke University Center for Medical Ethics and Humanities, May 2004.

"Clinical Crossroads: Special Issues in Palliative Care for Older Patients. American Academy of Hospice and Palliative Medicine, Phoenix, AZ, January 2004.

"Improving Palliative Care in Nursing Homes." Plenary presentation, American Academy of Hospice and Palliative Medicine, Phoenix, AZ, January 2004.

"The UNC Pain and Symptom Care Program," UNC School of Medicine Grand Rounds, Departments of Medicine, Surgery, Obstetrics and Gynecology, and Family Medicine, 2003.

"Creating Excellence in Palliative Care: How Nursing Homes and Hospices Can Work Together," Carolinas Center for Hospice and End of Life Care, Raleigh, NC December 2003.

“Excellence in Palliative Care in Nursing Homes,” the Synder Healthcare Leadership Forum entitled Beyond Safety: Creating a Framework for Quality Care. Greensboro, NC, September 27, 2002.

“The Quality of Long-term Care,” invited national conference Carolina Health Summit, Chapel Hill, NC, April 11-12, 2002.

“Ethics and Palliative Care,” Bioethics Seminar, Duke University, Durham, NC, April 11, 2002.

“Ethical Issues in the Treatment of Infection,” Durham VA and Duke University Medical Centers GRECC Conference Infectious Diseases in the Elderly. Millennium Hotel, Durham, NC, August 30, 2001.

“Nutritional Considerations at the End of Life,” HCFA Conference, Compassionate Options: End-of-Life Care for Nursing Home Residents. Atlanta, GA, August 20-22, 2001.

“Nursing Homes: A New Setting for Palliative Care,” 12th Annual Assembly of the American Academy of Hospice and Palliative Medicine,” Renaissance Waverly Hotel, Atlanta, GA, June 28, 2001.

“Providing Quality Care for an Aging Population – Long Term Care Issues.” Medical Review of North Carolina conference, Advancing the Quality of Healthcare, Raleigh, NC, April 26, 2001.

“Promising Practices in Long Term Care,” American Society of Law, Medicine and Ethics conference End of Life Decision Making: What Have We Learned Since Cruzan?, Kansas City, MO, November 17-18, 2000.

“Palliative Care in Long-Term Care,” and “Ethical Issues in End of Life Care,” Southern Gerontological Society Annual Meeting, Raleigh, NC, March 2000.

“Difficult Ethical Decisions” Grand Rounds, Department of Medicine, UNC Hospitals, February 24, 2000

“Care at the End of Life: Physician and Patient Perspectives,” Grand Rounds, Department of Obstetrics and Gynecology, East Carolina University School of Medicine, December 15, 1999, Greenville, NC

“End of Life Care: Physician and Patient Perspectives,” Caring for the Dying Patient: Clinical, Ethical, Spiritual and Policy Perspectives: A Bioethics Conference for Health Professional, The Bioethics Center, University Health Systems of Eastern Carolina, Greenville, NC, May 1999.

“Notes on a Peaceful Death,” Robert Wood Johnson Foundation Invited Conference, December 1998.

“Alzheimer’s Disease: Progress and Issues in Research, Treatment and Care,” American Medical Writers Association, Carolinas Chapter Annual Meeting, February 1998.

“Respiratory Infections in Patients with Feeding Disorders: Is Tube Feeding the Cause or the Cure?” Grand Rounds, UNC Department of Medicine, July 1997.

“Ethical Principles and Practices,” Duke University Medical Center, Division of Geriatrics, November 1993.

“Long-Term Care Options,” Governor’s Consensus Conference Health Care Reform Comes of Age: An Agenda for Older Adults and Their Families, Raleigh, NC October 1993.

Grants

Submitted

08/01/21 – 07/31/23 Investigator, “Leveraging geriatric assessment to improve life expectancy prediction and understanding of end of life care among older adults with advanced cancer.” NIH (Lund PI), 5%.

04/01/20 – 03/31/22 Co-investigator, “A Nurse-Led Palliative and Supportive Care Intervention for Newly Diagnosed Adults with Acute Myeloid Leukemia.” NINR (Bryant PI – UNC) 5%.

Active

09/10/20 – 05/31/25 Principal Investigator, “Palliative Care for Persons with Late-stage Alzheimer’s and Related Dementias and their Caregivers: a Randomized Clinical Trial.” NIA, 20%.

04/01/20 – 03/31/23 Investigator, “A Pragmatic Multi-site Trial of Specialist Palliative Care in Cystic Fibrosis,” Cystic Fibrosis Foundation, 5%

04/01/19 – 03/31/24 Site Principal Investigator, “Alzheimer’s Disease / ADRD Health Care Systems Research Collaboratory,” NIA (Mor / Mitchell PI – Brown / Hebrew SeniorLife), 20%.

07/01/18 – 06/30/23 Site Principal Investigator, “Measurement Core: Palliative Care Research Cooperative Group (PCRC) Refinement and Expansion,” U2C (PI Kutner – U Colorado), 4%.

01/01/18 – 12/31/23 Site Principal Investigator, “Comparative effectiveness of early integrated telehealth versus in-person palliative care for patients with advanced lung cancer. PCORI (PI Temel – Mass General Hospital), 1%.

01/01/19 – 06/30/22 Principal Investigator, “Disseminating Comfort Matters: A Web-based Training Toolkit for Comfort-focused Dementia Care.” CMS Civil Monetary Penalty Fund, 10%

Completed

07/25/18 – 04/30/22 Investigator, “Connect-Home: Testing the efficacy of transitional care of patients and caregivers during transitions from skilled nursing facilities to home,” NINR (Toles PI), 10%.

09/01/17 – 12/31/21 Co-Principal Investigator, “Improving Primary Care Clinicians’ Communication Skills in Dementia Palliative Care,” Moore Foundation (Kistler co-PI), 20%

01/01/17 -- 12/31/19 Principal Investigator, “Palliative and Oncology Collaborative Care for Advanced Cancer,” Tier 2 Award, Lineberger Comprehensive Cancer Center, 0%

09/01/17 - 08/31/22 Primary Mentor, “Psychotherapeutic intervention to improve outcomes for parents with advanced cancer,” NIH-NCI K23 (Park PI), 0%.

09/01/16 -- 12/31/20 Site Principal Investigator, “Trial to Reduce Antimicrobial Use in Nursing home residents with Alzheimer’s disease and other Dementias (TRAIN-AD),” NIA R01 (Mitchell PI – Hebrew SeniorLife) 5%

05/10/16 -- 04/30/19 Principal Investigator, “Triggered Palliative Care for Advanced Dementia: A Pilot Study,” NIA R21AG052140, 15%

09/15/17 – 04/30/19 Investigator, “Propensity Scores and Preventive Drug Use in the Elderly,” NIA (Sturmer PI), 10%

01/01/13 – 12/31/18	Investigator, “EVINCE: Educational Video to Improve Nursing home Care in End-stage Dementia,” NIH R01 (Mitchell PI – Hebrew SeniorLife), 10%.
09/01/13 - 09/30/18	Site Principal Investigator, “Refinement and expansion of the Palliative Cooperative Group,” NIH-NINR U24 (Abernethy / Kutner co-PI), 10%
09/30/13-09/29/18	Site Principal Investigator, “Implementing Best Practice in Palliative Care,” AHRQ R18HS022763, (Johnson PI) 10%
09/01/14 - 08/31/18	Investigator, “Hospice Quality Reporting Program, Measure Development, Maintenance and Support,” CMS MIDS TORP 140950 (Rokoske, RTI International, PI) 10%
09/01/14 - 08/31/17	Investigator, “Caregiver-guided pain management training in palliative care,” NINR R01NR015348 (Porter PI), 1%
07/01/12 – 06/30/17	Investigator, “Decision Support Tool for Prolonged Mechanical Ventilation: an RCT,” NIH R01 (Carson / Cox PI), 10%.
07/01/15 -- 06/30/17	Principal Investigator, “Triggered Palliative Care for Advanced Dementia,” NPCRC Pilot, 10%
04/15/11 – 03/31/17	Principal Investigator, “Goals of Care: A Nursing Home Trial of Decision Support for Advanced Dementia,” NIH-NIA R01; 25%. (\$2,452,398)
07/01/15 -- 06/30/16	Principal Investigator, “Integrating Palliative and Oncology Care for Patients with Advanced Cancer,” Institute for Healthcare Quality Improvement, UNC Health System, 5%
09/30/12 – 08/31/14	Principal Investigator, “Goals of Care Research Supplement,” NIH-NIA R01-S1; 0% (Latarsha Chisholm, investigator)
04/01/12 - 03/31/15	Investigator, “Propensity scores and preventive drug use in the elderly,” NIH-NIA R01 (Sturmer PI), 10%.
12/01/09 – 11/30/14	Investigator, “Representational Intervention to Promote End-of-Life Decision-Making Preparation,” NIH R01, (Song PI) 10%
12/01/09 – 11/30/14	Investigator, “Informing Decisions in Chronic Critical Illness: A Randomized Controlled Trial,” NIH R01 (Nelson / Carson co-PI) 10%,
05/01/13 -- 04/30/14	Investigator, “Palliative and Supportive Care Needs of Parents with Metastatic Cancer: A Mixed-Methods Pilot Study, TraCS Institute, CTSA pilot grant (Park PI) 0%
08/31/10 – 08/30/13	Site Principal Investigator, “Creation and Demonstration of a Palliative Care Research Cooperative Group,” NIH-NINR RC4 10% (\$2,856,878)
07/01/10 – 06/30/12	Principal Investigator, “Decision Support about Goals of Care for Dementia,” NPCRC, 5% (\$115,444)
09/01/11 – 08/31/12	Investigator, “Examination of Management of Ethical Issues in Free-Standing Dialysis Facilities,” Greenwall Foundation (Song PI), 5%.
01/01/11 – 12/31/11	Principal Investigator, “Circles of Care: Supporting African Americans with Cancer,” Health-E NC Pilot Award, University Cancer Research Fund, 0%

(\$99,997)

- 09/28/06 – 06/30/11 Principal Investigator, “Improving Decision Making About Feeding Options in Dementia.” NIH NINR R01; 30% (\$1,919,691).
- 08/01/08 – 06/30/11 Principal Investigator, “Circles of Care: Improving Care for African-Americans with Advanced Cancer,” Duke Endowment, 10%; (\$379,730).
- 06/01/10 – 03/31/11 Principal Investigator, “Engaging Care Managers as Palliative Care Communicators,” Community Care of North Carolina, 10% (\$85,638)
- 05/01/09 – 04/30/11 Investigator, “Translational and Clinical Sciences Institute” NIH CTSA, 20%.
- 07/01/07—06/30/10 Principal Investigator, “UNC Palliative Care Program: Improving Palliative Care Quality.” Investments for the Future award, UNC Health System 10%; (\$580,000).
- 07/01/07—06/30/09 Investigator, “Measuring the Quality of Dying in Residential Long-term Care,” National Palliative Care Research Center, 5%.
- 08/16/06 – 02/15/08 Investigator, “Palliative Care Quality Measurement Project”; CMS Contract APP-PSS602 to Carolinas Center for Medical Excellence; 10%.
- 12/01/05 – 11/20/10 Site Principal Investigator, “An Observational Descriptive Study of IRB Practices,” NIH NCI R01 5%; (\$18,000).
- 09/12/05 – 08/31/07 Principal Investigator, “On Our Own Terms: A Lay Health Facilitator Pilot Study,” NIH NINR R21, 15% (\$342,164).
- 04/01/04 – 03/31/06 Investigator, “Spiritual Care at the End of Life,” Fetzer Institute, 10%
- 01/01/04 – 12/31/07 Investigator, “Geriatric Practice and Teaching Program,” Donald W. Reynolds Foundation, 10%.
- 06/01/02 – 06/30/06 Investigator, “End-of-Life Care in Residential Care and Nursing Homes,” NIH NIA R01 20%.
- 08/01/01 – 07/31/03 Investigator, “Facilitators and Barriers to Hospice in Nursing Homes,” Duke Institute for End of Life Care, in-kind contribution
- 07/01/01 – 06/30/04 Investigator, “UNC Pain and Symptom Care Program,” Duke Endowment, 5%.
- 01/01/01 – 06/30/04 Principal Investigator, “Excellence in Palliative Care in Nursing Homes,” Duke Endowment / Carolinas Center, 10%; (\$224,953).
- 09/01/00 – 08/31/03 Investigator, “Gastric Feeding Tubes: Patient, Family, and Provider Perspectives” AHQR – NIH, 10%.
- 07/01/99 – 06/30/01 Investigator, “End of Life Care in Assisted Living” Retirement Research Foundation, 10%.
- 07/15/98 – 06/30/99 Investigator, “Trends in Gastrostomy Use at the End of Life NIA - NIH, 5%.
- 07/01/98 – 06/30/05 Research faculty, “Robert Wood Johnson Clinical Scholars Program”

- Robert Wood Johnson Foundation, 10%.
- 06/02/98 – 07/01/99 Investigator, “The Role of Tube Feeding in the Frail Elderly”
Duke Endowment, 5%.
- 02/01/98 – 09/30/02 Consultant, “Epidemiological Research and Information Center”
Department of Veterans Affairs, 5%.
- 07/01/97 - 06/30/00 Principal Investigator, “Improving Nursing Home Care for the Dying”
Open Society Institute; Project on Death in America, 40% (\$67,613).
- 04/01/97 - 06/30/99 Interdisciplinary Team Teacher, “Fostering Interdisciplinary Approaches
to the Care of the Rural Elderly,” John A. Hartford Foundation -- Teacher
for UNC clinical training site, and by telemedicine to rural sites, 5%.
- 10/01/96 - 12/31/97 Project Director, “Reducing Restraints in Nursing Home Patients,” HCFA
contract to Medical Review of North Carolina, Inc., subcontract to
Program on Aging at UNC -- Project Director, 10-25%.
- 01/01/96 - 12/31/96 Coordinator, longitudinal training, John A. Hartford Foundation,
“Geriatric Interdisciplinary Team Training” -- Developed medical training
plan and coordinated with other disciplines, 5%.
- 07/01/93 - 06/30/97 Investigator, Robert Wood Johnson Generalist Faculty
Scholar Award “Physician Practice and Training Characteristics that
Determine End of Life Care,” Robert Wood Johnson Foundation, 40%.
- 1991 Co-investigator, Department of Medicine Faculty Grant “Triage
Guidelines for Intensive Care: Avoiding Futile Life-Sustaining
Treatments” – Designed and implemented study of intensive care
triage decisions in emergency room
- 1991 American Geriatrics Society and Allen and Hansburys
Travel grant for research presentation
- 1982 “Health Education on Aging in Rural Communities”, student research
grant funded by National Fund for Medical Education

Professional and Public Service

State and national service

- 2020 - Steering Committee, IMPACT Collaboratory
- 2019 - Associate Editor, JAMDA
- 2013 - Associate Editor, Journal of Pain and Symptom Management
- 2011 - Steering Committee, Palliative Care Research Cooperative clinical trials group
- 2007 - Associate Editor, Journal of Palliative Medicine
- 2018 - 2021 American Academy of Hospice and Palliative Medicine, Quality & Research Strategic
Coordinating Committee (Chair)
- 2009 - 2020 American Geriatrics Society, Research Committee (Vice-Chair, 2012- 2016; Chair 2016-
2020)

2016 – 2018 American Academy of Hospice and Palliative Medicine, Quality Committee (Co-Chair)

2006 - 2011 Invited Member, HSOD Study Section, National Institutes of Health

2006 - 2016 Associate Editor, Fast Article Critical Summaries for Clinicians in Palliative Care

2011 - 2014 Palliative Care & Symptom Management Study Section, American Cancer Society

2011 - 2013 Article Consultant, Interpretation of the Medical Literature Project, National Board of Medical Examiners

2010 - 2013 American Academy of Hospice and Palliative Medicine, Research Committee

2001 - 2010 Associate Faculty Scholar, Duke Institute on Care at the End of Life

2003 – 2004 Advisory Board Member, Epidemiology of Dying and End of Life Experience (EDELE) Project

2000 – 2003 American Geriatrics Society, Ethics Committee

1999 - 2002 Chair, Working Group on Long-term Care, Carolinas Center for Hospice and End of Life Care

1999-2000 Member, North Carolina Institute of Medicine Long-Term Care Task Force

1997-2000 Member, Long-term Care Roundtable, North Carolina Department of Health and Human Services

1998 Consultant and Steering Committee member, North Carolina End of Life Care Coalition, an initiative of the Robert Wood Johnson Foundation

1997- 2007 Society of General Internal Medicine, Ethics Committee

1997 American Geriatrics Society Fellows-in-Training Symposium

1996 - 2002 Clinical Consultant, Carolinas Center for Medical Excellence

1994-1997 Consultant for peer review of AHCPR (AHRQ) grants

1993-1997 Member, Penalty Review Committee, North Carolina Department of Human Resources, Division of Facility Services, May 1993 - April 1997.

1993 Member, Geriatric Drug Therapy Research Institute Grant Review Panel, 1993 funding cycle.

1992 Member, Special Study Section on “Study of Patient Outcomes Associated with Pharmaceutical Therapy.” AHCPR – NIH October 14 - 16, 1992.

Laura C. Hanson, MD, MPH: Reflective Statement

Clinical Expertise and Leadership

I am a tenured Professor in the Division of Geriatric Medicine, Department of Medicine at the University of North Carolina – Chapel Hill. After receiving my medical degree from Harvard Medical School and training in Internal Medicine at the Brigham & Women’s Hospital in Boston, I completed residency and Geriatric Medicine fellowship at the University of North Carolina. Following research training in the Robert Wood Johnson Clinical Scholars Program, I joined the UNC faculty in 1992. In 1997 I was honored as a Soros Project on Death in America Scholar, and through this national leadership training program developed expertise in the emerging field of Palliative Medicine. Board-certified in Internal Medicine, Geriatric Medicine, and Hospice and Palliative Medicine, I seek to provide compassionate and evidence-based clinical care for frail and medically complex older patients, and for adults of all ages facing serious illness.

Beginning in 2001 Dr. Stephen Bernard (Division of Hematology & Oncology) and I co-founded and led the UNC Palliative Care Program. In 2018, after comprehensive strategic planning, the UNC Department of Medicine Palliative Care and Hospice Program was formed and I was selected as its Medical Director. The Program reports to the Vice Chair for Clinical Services in the Department of Medicine, and operates with funding from UNC Hospitals. This interdisciplinary Program connects many sectors of UNC Healthcare – faculty are appointed in the Departments of Medicine, Psychiatry, and Family Medicine, and they work with an interdisciplinary team employed by UNC Hospitals. As Medical Director, I engage with multiple Department and Division Chairs in the School of Medicine, and administrative leadership from UNC Hospitals and Health System.

Clinical palliative care services reach 5.8% of admitted adult patients at the UNC Medical Center, and in FY20 had approximately 6000 patient encounters across inpatient and outpatient adult and pediatric populations. Faculty physicians provide all medical services for UNC Hospice, including coverage for its 10-bed Inpatient Hospice Unit. Palliative care has played a central role in the response to COVID-19 – expanded MICU consultations, outreach and consultation to nursing home outbreak sites, and rapid targeted education in Advance Care Planning for colleagues in our Emergency Department.

Our Palliative Care Program is academically engaged in order to realize shared goals of the School of Medicine, UNC Hospitals and Health System. UNC has an ACGME certified Hospice & Palliative Medicine fellowship. Faculty provide extensive education to residents and students, and serve as principal or co-investigators in palliative care clinical research.

Teaching Activity

While I contribute routinely to clinical teaching in Geriatrics and in Hospice & Palliative Medicine, my major contributions are in research and career development for fellows and junior faculty. I have 5 current research mentees, and have mentored more than 40 individuals on dissertations or original research projects; 27 continue in academic medicine or public health careers. As faculty to the Geriatric Medicine Fellowship and the Hospice & Palliative Medicine Fellowship, I teach methods of quality improvement and research. This opportunity to mentor new investigators is invigorating and inspiring, and a reflection of UNC’s collaborative culture to promote academic inquiry and scholarship.

My teaching activity extends to audiences beyond UNC Medical Center. I have been an invited speaker at the Institute of Medicine, the Aspen Institute, the Veterans Administration, and the National Institute on Aging, as well as invited lectureships and grand rounds at major academic medical centers. In addition, I have sought to contribute to public outreach education. I have created and published results from two public outreach curricula in advance care planning and palliative care -- an award-winning curriculum for nursing home staff, and a case management curriculum for the North Carolina

state Medicaid program. Public outreach education is highly relevant to my current leadership role on the UNC Health System's Advance Care Planning Task Force, designing and implementing system-wide tools and training to promote advance care planning.

Diversity, Equity and Inclusion

I entered the field of medicine from a privileged background – white, supported by family with social, financial and educational attainment, and access to excellent training. Early in that educational pathway, my awareness of privilege began to expand in large part by moving to North Carolina and exposure to the historical underpinnings of this state and region. Further, engagement with the unique resources of the UNC School of Public Health and the UNC SOM Department of Social Medicine enhanced my education in the impact of health disparities and implicit bias in the delivery of healthcare.

At least for myself, I am convinced this work is never finished. Faculty activities to promote diversity, equity and inclusion must be woven into continuous efforts to address structural sources of barrier and bias. Some specific activities include:

- Leading funded research to address health disparities in palliative and supportive care for African-Americans with cancer, working with and learning from Giselle Corbie-Smith who leads the UNC Center for Health Equity Research.
- Serving as a member of the Data Safety Monitoring Board for the REACH Equity Disparities Research Center (Duke, Kimberly Johnson, PI), which houses projects on implicit bias training for Duke provider, and two clinical trials of novel interventions to address health disparities in clinical care of serious illness populations.
- Providing clinical service on the inpatient Palliative Care team at UNC Medical Center which disproportionately serves African American and Latinx populations, in response to their greater exposure to serious illnesses and suffering magnified by barriers to care, and
- Supporting and structuring diversity and implicit bias training for the UNC Palliative Care Program beginning in 2020.

Research and Scholarship

Evidence-based palliative care interventions are critical for the well-being of seriously ill patients, and this research has important implications for the US healthcare system. I lead a productive program of funded research at the intersection of Geriatrics and Hospice and Palliative Medicine, supported by grants from NIA, NINR, CMS and foundation sources. I have over 190 peer-reviewed publications and nationally recognized scientific contributions in four areas: 1) palliative care for late-stage dementia, 2) palliative care for other serious illnesses, 3) measuring quality of palliative care and hospice, and 4) geriatric pharmacoepidemiology.

- First, I have been Principal Investigator for three NIH R01-funded randomized clinical trials, and co-investigator for others, to test palliative care interventions for people with advanced dementia and their family caregivers. Two clinical trials found evidence for the effective use of decision aid interventions in nursing home care of advanced dementia. One – the Goals of Care trial – was named among “10 high-impact articles published in the geriatrics literature for 2017.” I currently lead the NIA-funded ADRD-PC study, the first clinical trial testing specialty palliative care for patients with late-stage dementia. Combining public outreach education and research, I lead two studies of video-based training – one for comfort-focused dementia care for nursing home staff, and one for dementia-specific advance care planning in primary care. Building on this expertise, I now lead the Patient and Caregiver Relevant Outcomes Core for the NIA-funded IMPACT Collaboratory, a major initiative to expand pragmatic clinical trials in dementia care.
- Second, I have led or been a co-Investigator on palliative care clinical trials or quality improvement interventions to enhance palliative and supportive care in serious illness. This research has resulted from effective collaborations with other UNC faculty, including community-based supportive

oncology for African-Americans (Giselle Corbie-Smith, Jo Anne Earp) in Pulmonary Medicine (Shannon Carson, Blair Wendlandt), in Nephrology (Mi-kung Song, Jerry Hladik, Jenny Flythe, Emily Chang), in Supportive Oncology and Psychiatry (Don Rosenstein, Leeza Park, Antonia Bennett, Matt Milowsky, Fran Collichio, William Wood), and in Pediatric Pulmonary and Pediatric Palliative Care (Elisabeth Dellon). This line of research has led to development and testing of several novel and pragmatic interventions; these include:

- community-based supportive oncology for African-Americans with cancer,
 - collaborative oncology palliative care for patients with Stage IV cancer,
 - ICU communication to address chronic critical illness,
 - outpatient palliative care for adults with cystic fibrosis, and
 - advance care planning and outpatient palliative care for patients with end-stage renal disease.
- Third, as a leading investigator on the CMS-funded PEACE Project, I have developed clinical quality measures for hospice and palliative care. These quality measures have been endorsed by the National Quality Forum and are applied nationwide in Hospice care. This expertise is further applied in my role as Principal Investigator for the Measurement Core of the Palliative Care Research Cooperative group, the only NIH-funded clinical trials collaborative for the field. My expertise is further deployed in national service to the Academy of Hospice & Palliative Medicine, as Chair the Quality and Research Strategic Coordinating Committee, facilitating AAHPM's leadership of a national quality registry for palliative care.
 - Finally, I have been a research collaborator for studies of geriatric pharmacoepidemiology, an important topic in patient safety and quality of care for older patients. Collaborators include faculty across Geriatrics (Josh Niznik), School of Public Health (Til Sturmer, Jennifer Lund), and School of Pharmacy (Carolyn Thorpe).