



**CENTER FOR  
APPLIED HEALTH RESEARCH**



# **Health Outcomes Core FY2016 Report**

**Co-Directors:**

**Dr. Laurel A. Copeland**

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## Vision

The Health Outcomes Core (HOC) was established in September 2010 with the initial five-year vision to become a primarily self-sustaining organization conducting research that contributes to the improvement of healthcare that drives the national mental health policy debate to focus on integrated patient care and to promote mental health care parity. The vision was realized in the context of an evolving health care system, as we continue to address the clinical and research needs of a changing health care environment. Within the outcomes research field, HOC has developed a collaborative network of national and international researchers and achieved recognition as a leading mentoring center for the development of health outcomes researchers. The new vision of the reorganized Baylor Scott & White Health, established through merger between Scott & White Healthcare and Baylor Health Care System in October 2013, occasions a revision of HOC's vision and mission. We continue to strive towards meeting multiple objectives including an ongoing priority to develop a sustainable, funded research portfolio evaluating important system issues, mentoring junior investigators, students, residents and fellows, engaging in essential service to our institutions and the wider research community (e.g., prominent committee roles, national and international working groups, professional journal activity), and disseminating our findings in appropriate, excellent forums such as top-tier journals, medical grand rounds or national cyberseminars, and major research conferences. This report provides an update on our progress toward realizing our vision.

## Goals for FY 2017

1. Conduct public domain health research in private and federal healthcare settings to generate and publish new knowledge to improve the delivery of health care
2. Collaborate with private not-for-profit health care systems across the nation to produce high-quality population health research
3. Integrate applied health care research results into Baylor Scott & White Health (BSWH) and Veterans Health Administration (VA) clinical practice
4. Collaborate and integrate HOC research in BSWH-Central with colleagues in BSWH-North
5. Develop collaborative research opportunities with Texas entities, including our academic affiliates and community partners
6. Provide methodological and research career development expertise to external investigators
7. Mentor beginning and intermediate researchers in applied health research within our supporting institutions and elsewhere

## FY 2016 Highlights

- 17 grant proposals submitted for review
- 2 grants funded
- 12 grants/proposals ongoing
- 15 publications accepted/published
- 13 papers under review at end of reporting period
- 8 local/national/international talks presented
- 22 posters and other presentations
- 44 consults
- 23 manuscripts reviews, 4 conference abstracts, 8 grant proposal review sessions
- 5 media highlights focusing on research into opioids and new-onset depression

## Executive Summary

The Health Outcomes Core (HOC) within the Center for Applied Health Research (CAHR) celebrated a 5-year anniversary in September 2015. The Center has seen a great deal of research productivity and is enjoying an expanding working relationship with our colleagues in the North Region of Baylor Scott & White Health. Since its inception, the three HOC investigators have participated in 42 research proposals that were approved for funding, totaling \$27.7 million in grant awards. During this time, they published 109 peer-reviewed articles, many of which were in high quality journals.

Dr. Copeland continued to represent BSWH on the HCSRN Governing Board (HMORN was renamed HCSRN – The Health Care Systems Research Network – in August 2015), though Dr. Zeber will be transitioning into this role as of July 2016. He also remains Chair of the Central Texas VA's Institutional Review Board and serves on an international editorial board. Dr. Copeland also served on the Central Texas VA Subcommittee for Scientific Review while leading the Workgroup for Information and Data Security, a group charged with reviewing data security issues on VA human subjects' research; she will transition to a new VA, VA Central Western Massachusetts, in July 2016. Both senior investigators are active co-investigators in the NIMH-funded Mental Health Research Network (MHRN), and on several national advisory boards and invited work groups. Although Dr. Stock moved to the VA in Perry Point, Maryland in December 2015, HOC looks forward to continuing our service and commitment to both BSWH and the Central Texas VA while further developing what we believe are important multifaceted missions in coordination and quality of care for persons with complex mental and physical illness profiles.

## Major Areas of Research and Collaboration

### Opioid and Other Drug Safety

Targeting a major national public health and institutional concern, we have increased our involvement in a variety of projects investigating the safety of long-term opioid use and management of adverse side effects. Since late 2014, Dr. Zeber has helped develop a protocol and secure a funded role for both BSWH and the VA in a 7-year FDA-mandated study into the outcomes of a new medication for opioid-induced constipation. He is now the co-PI for the VA's national role on this project, significant because over 1 million Veterans received an opioid prescription last year, supervising data analysts and other research personnel from both local institutions. Dr. Copeland served as co-investigator for a R21-funded study led by Dr. Jeffrey Scherrer, a CAHR affiliate investigator at St. Louis University; this pilot study, which has already published three papers, is examining risk of new-onset depression and risk of depression relapse among patients using opioids for non-cancer pain for more than 30 days as well as increased risk associated with codeine and oxycodone specifically, relative to hydrocodone. A follow-up R01 under review will build upon this project and include Drs. Copeland and Zeber as co-investigators. Dr. Zeber is the BSW site lead for a large HCSRN offshoot organization and funded set of projects, the Addiction Research Network, which is developing multiple projects related to opioid use and other substance abuse disorders. Finally, Dr. Copeland is collaborating with Dr. Shahid Shafi at BSW-North on another funded drug safety study examining outcomes related to perioperative opioids. These projects are further developing our expertise in pharmacoepidemiology and outcomes research and the capacity for HOC to conduct similar future studies.

## Infectious Disease

We continue to work on implementation and laboratory analysis projects to help reduce hospital-associated infections, further expanding on Dr. Zeber's VA-funded merit study with collaborator Dr. Chetan Jinadatha, Chief of Infectious Disease at our affiliated VA. Study team members included Dr. Copeland and Dr. Stock. Findings have been accepted for publication in *American Journal of Infection Control* as well as *BMC Infectious Disease* and *Infection Control and Hospital Epidemiology*, documenting our work on a novel pulsed xenon ultraviolet light (PX-UV) technology to disinfect hospital rooms. As analyses continued on the initial implementation study, Dr. Zeber submitted a follow-up VA proposal to identify and analyze implementation challenges associated with promising technological interventions such as PX-UV. We also conducted preliminary developmental work on new projects to install and trial a UV-based air-cleaning device in VA operating rooms, and another to test novel self-decontaminating surface in hospital rooms (copper-infused solid surfaces), and microbial sampling to examine MRSA resistance. HOC also supported several related proposals led by Dr. Jinadatha, and Dr. Zeber maintains involvement in a large Texas A&M interdisciplinary consortium to foster diverse and innovative infectious disease research. In addition, a manuscript is nearing submission concerning our work with Dr. Karen Brust, chair of BSWH Infectious Disease, from her data on infection control efforts to reduce hospital-associated infections. Dr. Brust has also proposed a randomized trial to explore the benefits of routine chlorhexidine baths to reduce central line infections. Furthermore, Drs. Zeber and Copeland are leading BSWH and VA efforts to join a pending multisite HCSRN proposal to target costly preventable disorders, including unnecessary hospital infections. Both investigators helped develop a proposal led by a clinician at the Minnesota VA to explore quality of life in patients with *C. difficile* infections. Collectively, all these efforts address a shared priority area across not only our institutions but public health sectors around the world.

## Women's Health

Drs. Copeland, Zeber and Stock continued to increase their efforts targeting the quality of care for women veterans, including an active role in the national Women's Practice-Based Research Network (VA Women-PBRN; Zeber, Site Lead). Dr. Copeland submitted a VA research proposal to examine depression correlates in women veterans returned from deployment to the operations in Iraq & Afghanistan. As the Central Texas VA site lead for the PBRN, Dr. Zeber is co-investigator on two relevant VA research awards: "Examining VACAA Implementation and Care Coordination for Women Veterans" and the ongoing "Understanding Barriers and Facilitators in Pregnancy and Maternity Care Delivery among Women Veterans". Dr. Zeber also continues to work with Drs. Alison Hamilton and Becky Yano on a paper and other analyses as part of their funded women's study of access to care; the study interviewed clinicians in the Central Texas VA among other facilities.

## Health Care Systems Research Network (HCSRN, formerly HMORN)

HOC investigators continue to leverage their status within the HCSRN to engage in developing projects. These include: the newly funded NIDA center grant for an Addiction Research Network (Zeber, site lead); a pilot study of male hip fractures that partners HCSRN and the Claude Pepper Older Americans Independence Centers (Copeland – PI; Charlene Quinn – Pepper Center partner); an R21-funded study of opioids and depression (Scherrer – PI; Copeland – Co-I); a related R01 submitted to NIDA (Scherrer – PI;

Copeland & Zeber, Co-I); a funded R21 on suicide means prevention (Beidas – PI; Zeber, co-I); and a drug safety project to examine a new medication for treating side effects of chronic opioid use (Zeber & Kwan, Co-PI's), collaborations with external investigators in the areas of PTSD treatment in Primary Care (J Cook) and use of novel antidiabetic agents among persons of various racial/ethnic background (L Zhong). In addition, BSW-North hired a SAS programmer, Amos Hayes, to learn about and update the BSW-Central "Virtual Data Warehouse" (VDW) under the supervision of Dr. Elisa Priest and Dr. Copeland. This development sets the stage for expansion of VDW expertise from the BSW Central region to the BSW North region. The VDW is the primary tool employed in HCSRN research projects, containing the uniformly defined variables all sites' create for population health analyses. This participation reflects several years of collaborative efforts preparing for BSWH's role in these and other HCSRN projects.

### **Children's Health**

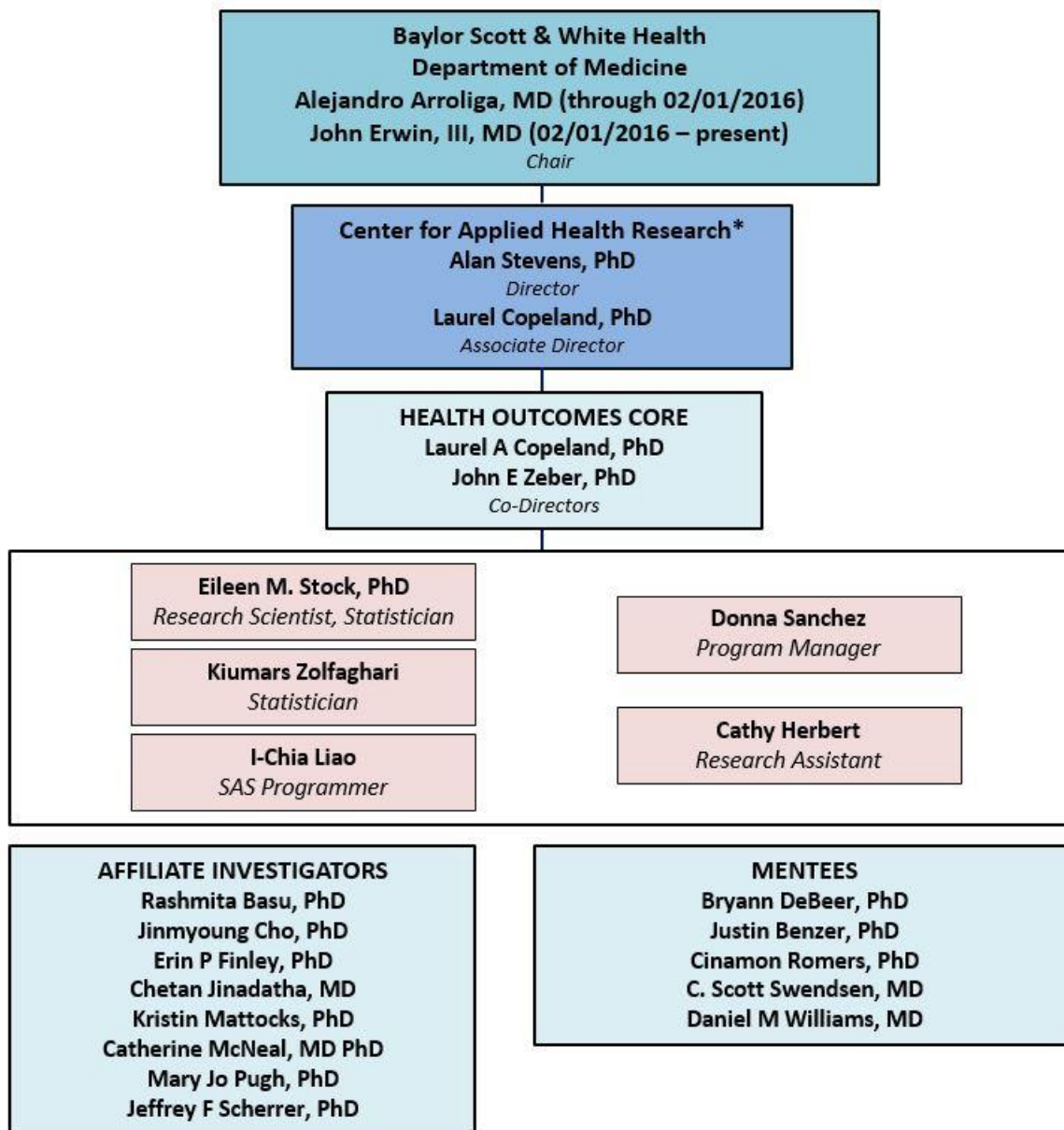
A collaboration between the Cardiovascular and Mental Health research networks, both part of HCSRN, is exploring pediatric lipid disorders and how clinicians and families cope with children's health issues. Dr. Catherine McNeal, the BSWH site PI for the Cardiovascular Research Network, with Dr. Copeland, the BSWH site PI for the Mental Health Research Network, has fostered the creation and research use of a major data resource on pediatric lipid management (Pediatric CVRN or Pedi-CVRN; 2001-2015). Collaborators include other HCSRN sites and academic partners. A collaborative CFRIP grant awarded jointly to BSW-Central, Baylor University, and Baylor College of Medicine investigators (C J McNeal; J J Song; J P Zachariah) will update the BSW Pedi-CVRN database to include young adults age 21-30 and extend the methods to Baylor College of Medicine-affiliated Texas Children's Hospital.

### **Other Projects**

HOC is collaborating with the Scott & White Health Plan on a quality assessment project of an organizational intervention to improve the care of depressed patients diagnosed with other chronic disease. This quality assessment of integrated mental and primary care promises to improve the care experience of multi-morbidity patients. A final exciting collaborative project kicked off in 2015 -- The Veterans Metrics Initiative. This unique partnership among Henry Jackson Foundation for the Advancement of Military Medicine, Department of Veterans Affairs (VA), Department of Defense (DoD), academic medicine and private enterprise partners will document the trajectories of military personnel re-entering civilian life over the first 2.5 years after separation from the armed forces. It will examine transition out of the military and community reintegration into civilian life (Copeland, Co-PI). The project has completed survey development and will initiate the survey this summer.

## HOC Organizational Chart

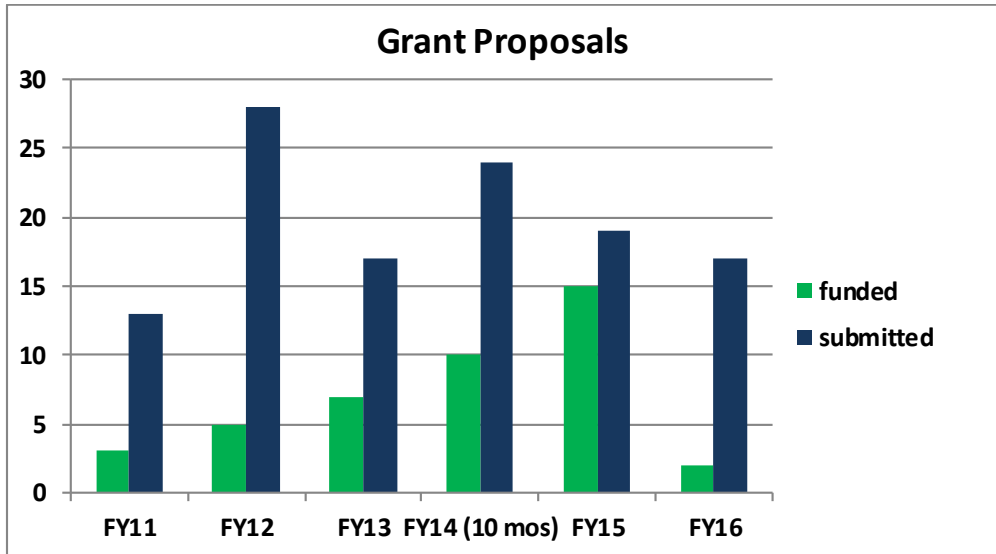
The HOC is one of three major work groups within CAHR. HOC works cooperatively with colleagues in the Center for Aging and Care (Alan Stevens, Director) and the Community Research Center for Senior Health (Alan Stevens, Director), in particular with junior scientists Dr. Basu and Dr. Cho.



\*Jointly sponsored by Central Texas Veterans Health Care System

## Key to metrics reporting tables

- **bold** = HOC investigator Zeber JE, Stock EM, or Copeland LA
- underline = HOC affiliate investigator Basu R, Cho J, Finley EP, Jinadatha C, Mattocks KM, McNeal CJ, Pugh MJ, Scherrer JF
- *italics* = Baylor Scott & White Health or Central Texas VA colleague or mentee



## Grants/Proposals Submitted

	Grants/Proposals Submitted	Role	Agency / Sponsor
1.	"A Pragmatic, EHR-based Measure of Psychotherapy Quality"	Arean P (PI), <b>Zeber JE</b> et al. (several MHRN partners)	NIMH
2.	"Profile of Multiple Chronic Conditions for People with Dementia: Implications for Care Management"	<u>Basu R</u> (PI), <b>Copeland LA</b> , Quinn CC, Gruber-Baldini A	NIA AGING Initiative HCSRN-OAIC Pilot Program
3.	"Intervention Mapping to Develop Multi-level Implementation Strategies in Partnership with Stakeholders: Firearms Means Restriction for Suicide Prevention in Pediatric Primary Care"	Beidas (PI), <b>Zeber JE</b>	NIMH R21
4.	"PTSD Psychotherapy Predictors and Treatment Outcomes"	<b>Copeland LA (PI)</b> , <b>Zeber JE</b> , Tsan JY, <u>Scherrer JF</u> , Bollinger, <u>Pugh MJ</u>	VHA HSR&D Merit Award

5.	"MST, Obesity and Infectious Disease Prevention in Women Veterans in the VA"	<b>Copeland LA</b> (PI), <b>Zeber JE</b> , Pandey	VHA HSR&D Supplemental Funding Opportunity
6.	"PTSD Treatment Effects on Health Behavior and Cardiovascular Disease"	<b>Copeland LA</b> (PI), <b>Zeber JE</b> , <u>Scherrer JF</u>	VHA HSR&D Merit Award [submitted Dec 2015]
7.	"Reducing Death by Suicide via Medical Education: Development of an Online Assessment and Training Tool for Suicide Prevention"	<i>DeBeer B</i> (PI), <b>Zeber JE</b> , <i>Young K</i>	Stemler Foundation & National Board of Medical Examiners
8.	"Baylor Scott & White Health PMI Cohort"	Filardo (PI), Ballard, Boerwinkle, <b>Copeland LA</b> , DiMaio, Gibbs, Mack, Masica, <b>Zeber JE</b> , Collinsworth, Montenegro, Nicewander, Sass, Phan	NHLBI Precision Medicine Initiative
9.	"Investigating the Origin of MRSA Healthcare-acquired Infections and the Interplay among Patient, Hospital Environment and Hands of Healthcare Workers Utilizing Clonal Mapping"	<u>Jinadatha C</u> (PI), <b>Copeland LA</b> , <b>Zeber JE</b>	DoD Congressionally Directed Medical Research Program (CDMRP)
10.	"A Trial to Explore the Benefit of Antimicrobial Self-Sanitizing Surfaces on Bio-burden levels and Healthcare-Acquired Infections"	<u>Jinadatha C</u> (PI), <b>Copeland LA</b> , <b>Zeber JE</b>	DoD Congressionally Directed Medical Research Program (CDMRP)
11.	"An Evaluation of Retrofitting a VA Facility with Copper-infused Room Surfaces to Reduce Hospital Associated Infections"	<u>Jinadatha C</u> (PI), <b>Zeber JE</b> , <b>Stock EM</b>	Cupron, Inc., with CTVHCS
12.	"Evaluation of the Antibacterial Properties of Ferrate for Hospital Surface Disinfection"	<u>Jinadatha C</u> (PI), <b>Zeber JE</b> , <b>Copeland LA</b> , <b>Stock EM</b>	DoD Congressionally Directed Medical Research Program (CDMRP)
13.	"Healthcare Surfaces Disinfection: Investigation into the Antibacterial Properties of Ferrate"	<u>Jinadatha C</u> (PI), <b>Zeber JE</b> , <b>Stock EM</b>	NSF Discovery Grant (funded Apr/May 2016)

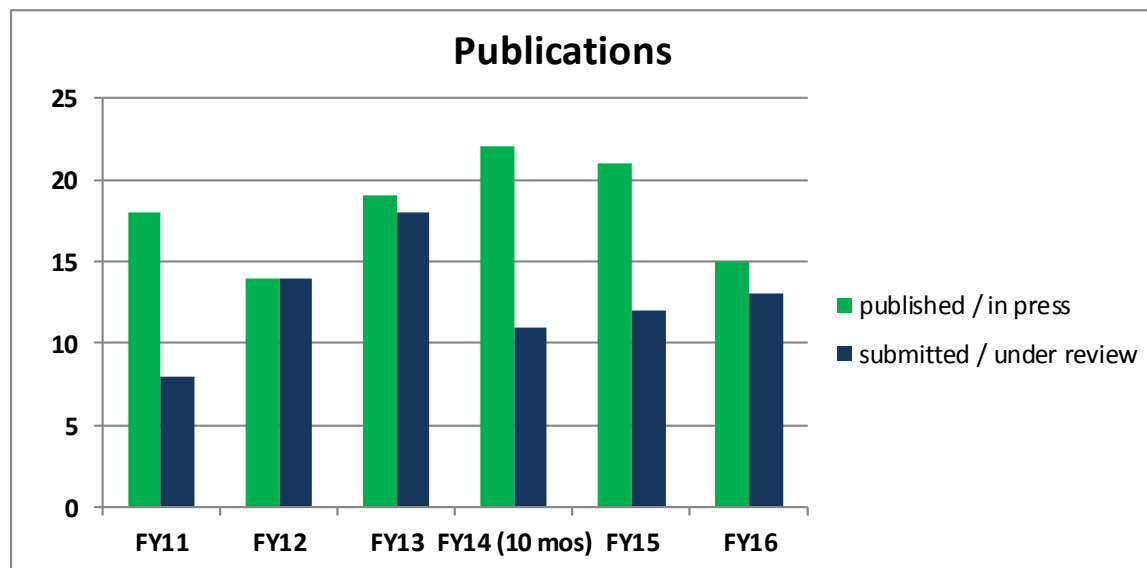


14.	"Optimizing Rural Veteran Health through Assessment, Partnerships, and Promising Practices (Rural APPP)"	<u>Mattocks K</u> (PI), Mengeling, Bastian, Bollinger, <b>Copeland LA</b> , DeRycke, Hogan, Sadler	VHA ORH-QUERI Partnered Evaluation Center
15.	"Quality of Life in Veterans with <i>C. difficile</i> Infections"	Safdar N (PI), <b>Copeland LA, Zeber JE</b>	VHA HSR&D Merit Award
16.	"Chronic Prescription Opioid Use and Adverse Outcomes in Non-Cancer Pain"	<u>Scherrer JF</u> (PI), <b>Copeland LA, Zeber JE</b>	NIDA R01
17.	"A Statistical Approach to Examining Comorbidities Among Older Patients with Diabetes"	Wang CP (PI), <b>Zeber JE</b>	NIA AGING Initiative HCSRN-OAIC Pilot Program
18.	"Addiction Research Network"	Weisner C (PI), <b>Zeber JE</b> (Site PI), et al. (several MHRN partners)	NIDA (funded Sept 2015)
19.	"A Surveillance of VA interventions to Reduce Hospital Associated Infections: Perceived Barriers and Implementation Challenges of Using Innovative Technologies"	<b>Zeber JE</b> (PI), <b>Copeland LA</b> , Cadena-Zuluaga, Restrepo, Drummond	VHA HSR&D Merit Award

### Ongoing Funded Projects

	Grants/Proposals Ongoing	Role	Agency / Sponsor
1.	"Rural Texas Veterans: the Affordable Care Act Needs and Barriers"	Bollinger (PI), <b>Copeland LA</b>	<b>VHA Office of Rural Health</b> (10/2014-09/2016; \$300,000)
2.	"Hypertriglyceridemia: Relationship with Acute Pancreatitis and Cardiovascular Disease"	<b>Copeland LA</b> (PI)	<b>Scott &amp; White Research Mentor Award</b> (03/2015-03/2017; \$2948)
3.	"Diabetes, Dementia, and Multiple Chronic Conditions in Males with Hip Fracture"	<b>Copeland LA</b> (PI), <b>Zeber JE, Stock EM</b>	<b>AGING Initiative Pilot Project, subaward of NIA</b> 1R24AG045050-01A1 (04/2015-03/2016; \$40,000)
4.	"Improving Surgical Quality: Risks and Impact of Readmission"	M Hawn (PI), <b>Copeland LA</b>	<b>VA HSR&amp;D Merit HX-12-358</b> (04/2015-03/2018; \$900,000)
5.	"Evaluation of the Veterans Choice Act for Women Veterans"	<u>Mattocks K</u> (PI), <b>Zeber JE</b>	<b>VHA QUERI</b> (2015-2016, \$655,000)

6.	"Patterns and Experiences of VA Maternity Care Coordination for Women Veterans"	<u>Mattocks K</u> (PI), <b>Zeber JE</b>	<b>VHA HSR&amp;D Merit HX-14</b> (2015-2018; \$985,325)
7.	"The Veterans Metrics Initiative: Linking Program Components to Post-Military Well-Being"	Perkins (Co-PI), Vogt (Co-PI), Booth, Skimmyhorn, Gilman, <u>Finley EP</u> , <b>Copeland LA</b>	<b>VHA HSR&amp;D FOP-15-464</b> ; Henry Jackson Foundation; multiple private funders (05/2015-04/2020; \$8.4M)
8.	"VA Vascular Injury Study (VAVIS): VA-DoD extremity injury outcomes collaboration"	<u>Pugh MJ</u> (Co-PI), Shireman (Co-PI), <b>Copeland LA</b>	<b>VA HSR&amp;D Merit HX-13-029</b> (04/2015-03/2018; \$968,468)
9.	"Prescription Opioid Analgesics and Risk of Major Depression"	<u>Scherrer JF</u> (PI), <b>Copeland LA</b> , <b>Zeber JE</b>	<b>NIMH 1R21MH101389</b> (09/2014-02/2016; \$211,950)
10.	"Mental Health Research Network (MHRN) II"	G E Simon (PI), <b>Copeland LA</b> (Site PI), <b>Zeber JE</b>	<b>NIMH #2U19MH092201-04</b> (08/2014-07/2019; \$9,687,496)
11.	"Pulsed Xenon Technology Targeting Hospital Acquired Infections, Cost and Outcomes"	<b>Zeber JE</b> (PI), <b>Copeland LA</b>	<b>VA HSR&amp;D Merit HX-12-347</b> (06/2013-05/2016; \$761,292)
12.	"Post-Marketing Observational Cardiovascular Safety Study in Patients Taking Naloxegol"	<b>Zeber JE</b> (Co-PI), Kwan (Co-PI)	<b>Astra-Zeneca</b> (12/2015-12/2022; \$2.6M)



### Publications Accepted/Published

1. Lehman RE, **Copeland LA**, **Stock EM**, Fulcher SF. "Graft detachment rate in DSEK/DSAEK after same-day complete air removal." *Cornea*. 2015 Sep 16 [epub ahead of print]. PMID: 26382899.

2. **Basu R, Zeber JE, Copeland LA**, Stevens SB. "Role of co-existence of multiple chronic conditions on the longitudinal decline in cognitive performance among older adults in the US." *J Gerontol Geriatr Res*. 2015; in press Oct 8.
3. **Scherrer JF**, Salas J, **Copeland LA, Stock EM**, Ahmedani BK, Sullivan M, Burroughs T, Schneider FD, Bucholz KK, Lustman PJ. "Prescription opioid duration, not dose, is associated with increased risk of depression in three large patient populations." *Ann Fam Med* 2015; in press Oct.
4. Dixon JL, **Copeland LA, Zeber JE**, MacCarthyAA, ReznikSI, Smythe WR, Rascoe PA. "Association between diabetes and esophageal cancer, independent of obesity, in the United States Veterans Affairs population." *Dis Esophagus*. 2015 Oct 12. doi: 10.1111/dote.12402. [Epub ahead of print] PMID: 26455587.
5. **Cho J, Copeland LA, Stock EM, Zeber JE**, Restrepo MI, MacCarthyAA, Ory MG, Smith PA, Stevens AB. "Protective and risk factors for 5-year survival in the oldest old veterans: data from the Veterans Health Administration." *J Am Geriatr Soc*, 2015; in press Nov 9.
6. Coleman KJ, Stewart C, Waitzfelder B, **Zeber JE**, Morales L, Ahmed A, Ahmedani B, Beck A, **Copeland LA**, Cummings J, Hunkeler E, Lindberg N, Lynch F, Lu C, Owen-Smith A, Quinn V, Trinacty CM, Whitebird RR, Simon GE. "Racial and ethnic differences in diagnoses and treatment for mental health conditions across healthcare systems participating in the mental health research network." *Psychiatr Serv*. 2015; in press Nov.
7. **Scherrer JF**, Salas J, **Copeland LA, Stock EM**, Schneider FD, Sullivan M, Bucholz KK, Burroughs T, Lustman PJ. "Increased Risk of Depression Recurrence after Initiation of Prescription Opioids in Non-Cancer Pain Patients." *J Pain* 2015; in press Dec 8.
8. Owen-Smith AA, Ahmedani BK, Green CA, **Copeland LA**, Operskalski B, Rossom RC, Simon GE, Stewart C, Waitzfelder BE. "Adherence to Statin Medications in Patients with Schizophrenia vs. Patient's without Psychiatric Illness." *Gen Hosp Psychiatr* 2015; in press Jul 30.
9. **Stock EM, Copeland LA**, TsanJY, **Zeber JE**, Veronin M, Thompson AW. "Association of hospitalization with first-line antidepressant polypharmacy among Veterans of Iraq and Afghanistan with PTSD: Examining the influence of methodological approaches." *Mil Med* 2015; in press Dec 22.
10. Villamaria FC, Berlanga G, Liao I, Ganachari-Mallappa N, **Stock EM, Zeber JE, Jinadatha C**. "Comparison of environmental MRSA levels on high-touch surfaces in contact isolation and non-contact isolation patient rooms." *Infection Control and Hospital Epidemiology* 2015; 36(12):1472-75.
11. Blackburn D, Romers C, **Copeland LA**, Lynch W, Nguyen D, **Zeber JE**, Hoffman M. "Pre-surgical psychological assessments as correlates of effectiveness of spinal cord stimulation for chronic pain reduction." *Neuromodulation* 2016; in press Feb 5.
12. **Copeland LA, Finley EP**, Bollinger MJ, Amuan ME, **Pugh MJ**. "Comorbidity Correlates of Death among New Veterans of Iraq and Afghanistan Deployment." *Medical Care* 2016; in press Apr 27.
13. Rossom RC, Shortreed S, Coleman KJ, Beck A, Waitzfelder BE, Stewart C, Ahmedani B, **Zeber JE**, Simon GE. "Predictors of Antidepressant Adherence across Diverse Healthcare Settings." *Depression and Anxiety* 2016; in press Jun 27.
14. Pandey N, Herrera HH, Johnson CM, MacCarthyAA, **Copeland LA**. "Preventative Care for Patients with inflammatory Bowel Disease in the Veterans Health Administration." *Medicine* 2016; in press June 1.
15. **Jinadatha C**, Villamaria FC, Restrepo MI, Ganachari-Mallappa N, Liao I, **Stock EM, Copeland LA, Zeber JE**. (2015). "Is the pulsed xenon ultraviolet light no touch disinfection system effective on MRSA in

the absence of manual cleaning?" *American Journal of Infection Control*, 43:878-81. [accepted Aug 2015]

## Manuscripts Under Review

1. Pandey N, Ashfaq SN, Dauterive III E, MacCarthy AA, **Copeland LA**. "Military Sexual Trauma and Obesity among Women Veterans."
2. Lu CY, Penfold RB, Toh S, Sturtevant JL, Madden JM, Simon GE, Ahmedani BK, Clarke G, Coleman KJ, **Copeland LA**, Daida Y, Davis RL, Hunkeler EM, Owen-Smith A, Raebel MA, Rossom R, Soumerai SB, Kulldorff M. "Near real-time surveillance for the early detection of health outcomes of FDA warnings using sequential analysis."
3. Salas J, Scherrer JF, Schneider FD, Sullivan MD, Bucholz KK, Burroughs T, **Copeland LA**, Ahmedani BK, Lustman PJ. "New Onset Depression Following Stable, Slow and Rapid Rate of Prescription Opioid Dose Escalation."
4. Pugh MJ, Finley EP, Swan AA, Wang CP, **Copeland LA**, Jaramillo CA, Elnitsky CA, Leykum LK, Mortensen EM, Rohde NN, Noël PH, Pugh JA, and The TRACC Research Team. "Similar Comorbidity Trajectories in Men and Women Veterans of the Afghanistan and Iraq Wars: A Retrospective Cohort Study."
5. *Slicker K, Lane W, Zimmermann J, Oyetayo O, **Copeland LA**, **Stock EM**, Michel JB, Erwin J.* "Daily Cardiac Catheterization Procedural Volume and Complications."
6. **Copeland LA**, Graham LA, Richman JS, Rosen AK, Mull HJ, Burns EA, Whittle J, Itani KMF, Hawn MT. "A study to reduce readmissions after surgery in the Veterans Health Administration: design and methodology."
7. **Copeland LA**, Cho J, Basu R, **Zeber JE**, **Stock EM**, Ahmedani BK, Quinn CC. "Multiple Chronic Conditions and Care Outcomes in Males with Hip Fracture."
8. **Copeland LA** (CO-I), Mary Hawn (PI). "Post-operative 30 day Readmission: Time to Focus on what happens outside the Hospital."
9. **Zeber JE**, Jinadatha C, Cadena-Zuluaga J, Pfeiffer C, Baddley J, **Copeland LA**, **Stock EM**, Restrepo MI, Hendricks J. "The effect of pulsed-xenon ultraviolet room disinfection devices on microbial counts for methicillin-resistant staphylococcus aureus, clostridium difficile and aerobic colonies." *Journal of Hospital Infection* 2016.
10. **Stock EM**, Stamey JD, **Zeber JE**, Thompson AW, **Copeland LA**. "A Bayesian approach to modeling risk of hospital admissions associated with schizophrenia accounting for under-diagnosis of the disorder."
11. **Stock EM**, **Zeber JE**, McNeal CJ, Banchs JE, **Copeland LA**. "Psychotropic pharmacotherapy associated with QT prolongation among veterans with posttraumatic stress disorder."
12. **Copeland LA**, **Zeber JE**, Thibodeaux L, McIntyre RT, **Stock EM**, Hochhalter A. "Psychosocial and clinical correlates of health literacy among post-discharge patients receiving medical aid."
13. Hsu C, Hertel E, Penfold R, Fishman P, **Copeland LA**, **Zeber JE**, Ross TR, Johnson E, Basu R, Audet AM, Gundersen G, Reid RJ. "Aligning and Integrating Health Care Systems: Learning from the experiences of two integrated health care system acquisitions." [manuscript under review again soon]

## Oral Presentations

- 7/8/2015 HSR&D/QUERI 2015 National Conference, Philadelphia PA  
**Copeland LA**, MacCarthy AA, Pugh MJ, **Zeber JE**, Sako EY, Restrepo MI, Mortensen EM, Wang CP, Lawrence VA. "Five-year Mortality Correlates for Veterans of Iraq and Afghanistan." Oral presentation.
- 7/8/2015 HSR&D/QUERI 2015 National Conference, Philadelphia PA  
Pugh MJ, Jaramillo CJ, Finley EP, **Copeland LA**, Van Cott AC, Mortensen EM, Elnitsky C, Pugh JA. "Stability of Health Trajectories among Iraq and Afghanistan Veterans: Insights from Central Nervous System Medication Use." Oral presentation.
- 7/9/2015 HSR&D/QUERI 2015 National Conference, Philadelphia PA  
Reiber GE, Engel CC, **Copeland LA**. "Fostering VA/DoD Health Care Research Collaboration." Panel presentation.
- 8/10/2015 TAMHSC Infectious Disease Symposium, College Station, TX  
**Zeber JE**. "Infectious Disease Control Initiatives in Central Texas." Oral presentation.
- 10/25/2015 2015 NAPCRG Annual Meeting, Cancun, Mexico  
Scherrer JF, **Copeland LA**, Salas J, **Stock EM**, Ahmedani B, Sullivan M, Burroughs T, Schneider FD, Bucholz K, Lustman P. "Prescription Opioid Dose and Duration and Risk for Depression in Three Large Healthcare Center Patient Populations." Oral presentation.
- 12/7/2015 HSR&D QUERI Cyber Seminars  
**Copeland LA**. "Chasing Data: Adapting to Changing Sources and Resources for Measuring Inpatient and Outpatient VA Healthcare Use." Available online at: [http://www.hsr.d.research.va.gov/for\\_researchers/cyber\\_seminars/archives/video\\_archive.cfm?SessionID=1076](http://www.hsr.d.research.va.gov/for_researchers/cyber_seminars/archives/video_archive.cfm?SessionID=1076).
- 4/14/2016 HCSRN Annual Research Conference, Atlanta GA  
**Zeber JE**, **Copeland LA**, Basu R, Cho J. "Multiple Chronic Conditions Associated with Hip Fracture Outcomes among Males." Panel presentation.
- 5/25/2016 ISPOR 21st Annual International Meeting, Washington DC  
**Zeber JE**, Hutchins D, Peterson A, Malmenas M. "A Framework for Measuring Multiple Medication Adherence." Workshop presentation.

## Posters and other presentations

- 7/8/2015 HSR&D/QUERI 2015 National Conference, Philadelphia PA  
**Zeber JE**, **Copeland LA**, **Stock EM**, Jinadatha C, Hendricks J. "Using an Innovative Pulsed Xenon Ultraviolet Ray Technology and Other Interventions to Reduce Hospital Associated Infections." Poster presentation.
- 7/8/2015 HSR&D/QUERI 2015 National Conference, Philadelphia PA  
**Zeber JE**, **Stock EM**, McNeal CJ, Banchs JE, **Copeland LA**. "Psychotropic Pharmacotherapy associated with QT Prolongation among Veterans with Posttraumatic Stress Disorder." Poster presentation.

- 10/16/2015 American College of Gastroenterology ACG Annual Meeting 2015, Honolulu HI  
Dauterive E III, **Copeland LA**, Pandey N. "Association of Military Sexual Trauma and Post-Traumatic Stress Disorder with Obesity in Female Veterans." Poster Presentation.
- 10/26/2015 Academy of Managed Care Pharmacy Nexus 2015, Orlando FL  
Tran M, Rascati K, **Stock EM**, *Godley P*, Coleman A, Bogart MR, Stanford RH. "Predictors of pharmacotherapy management of COPD exacerbations post-hospitalization/ED visit as defined by HEDIS." Poster presentation.
- 2/24/2016 The American College of Surgeons Clinical Congress 2016, Washington DC  
Wahl et al. (includes Hawn, **Copeland LA**). "Modified Frailty Index is Associated with 30-day Surgical Readmissions." Abstract submitted.
- 3/3/2016 Internal Medicine Research Days, Scott & White Memorial Hospital, Temple TX  
Ashfaq S, Dauterive E, **Copeland LA**, Pandey N. "Association of Military Sexual Trauma and Post-Traumatic Stress Disorder with Obesity in Female Veterans." Poster presentation.
- 3/9/2016 HSFA 20th Annual Scientific Meeting 2016, Orlando FL  
Lella SK, **Copeland LA**, Ravi Y, Sai-Sudhakar CB. "Donor cause of death in heart transplantation and its effect on post-transplant survival." Abstract submitted.
- 3/9/2016 HSFA 20th Annual Scientific Meeting 2016, Orlando FL  
Lella SK, **Copeland LA**, Ravi Y, Sai-Sudhakar CB. "The recipient working status leading to heart transplantation and its effect on post-transplant survival." Abstract submitted.
- 3/11/2016 ISTSS 2016, Dallas TX  
Jeffreys MD, Peterson A, Young-McCaughan SB, **Copeland LA**, Finley EP, Mintz J, Trawler A, Hatch JP, Stern SL. "The Effect of Dog Adoption on Loneliness in Veterans with Posttraumatic Stress Disorder." Abstract submitted.
- 4/14/2016 22nd Annual HCSRN Conference 2016, Atlanta GA  
Cho J, **Stock EM**, **Zeber JE**, Ahmedani BK, Basu R, Quinn CC, **Copeland LA**. Factors "Associated with Longevity among Oldest-Old Male Patients with Hip Fractures." Abstract presented.
- 4/14/2016 22nd Annual HCSRN Conference 2016, Atlanta GA  
**Zeber JE**, **Copeland LA**, Ruktanonchai D, Liao I, McKown P. "A Depression Care Management Project to Improve Treatment Coordination and Outcomes in Patients with Comorbid Conditions." Abstract presented.
- 4/14/2016 22nd Annual HCSRN Conference 2016, Atlanta GA  
**Copeland LA**, Quinn CC, **Stock EM**, Cho J, Basu R, **Zeber JE**, Ahmedani BK. Multiple "Chronic Conditions Associated with Hip Fracture." Abstract presented.
- 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC  
Ravi Y, **Stock EM**, Rosas PC, Whitson BA, Amulraj EA, Scott RC, Emani S, Bansal S, Sai-Sudhakar CB. "The obesity epidemic and its effect on donor body mass index and recipient survival-A UNOS database review of heart transplantation." Poster presented.
- 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC

- Ravi Y, **Stock EM**, Rosas PC, John R, Scott RC, Emani S, Sai-Sudhakar CB. "Does distance from donor hospital impact survival in heart transplant recipients." Poster presented. 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC
- Ravi Y, **Stock EM**, Rosas PC, Scott RC, Amulraj EA, Emani S, Sai-Sudhakar CB. "Changing characteristics of heart transplant donors and their effect on recipient mortality." Poster presented. 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC
- Ravi Y, **Stock EM**, Rosas PC, John R, Scott RC, Bansal S, Emani S, Sai-Sudhakar CB. "Does functional status at listing and time of heart transplant influence survival in heart transplant recipients." Poster presented. 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC
- Ravi Y, **Stock EM**, Rosas PC, Hasan AK, Nikolaidis L, Bansal S, Whitson BA, Scott RC, Sai-Sudhakar CB. "Immunosuppressant regimen over time and their association with rejection, graft failure, and mortality." Poster presented. 4/27/2016 International Society for Heart and Lung Transplantation 2016, Washington DC
- Ravi Y, **Stock EM**, Rosas PC, Nikolaidis L, Emani S, Scott RC, Sai-Sudhakar CB. "Does a history of malignancy affect long-term survival in heart transplant recipients." Poster presented. 4/30/2016 2016 PAS Annual Meeting, Baltimore, MD
- Chambers M, McNeal CJ, Zachariah J, **Copeland LA**, Cassidy-Bushrow A, Wright E, Song J, Zhao Q. "Screening & Treatment of Dyslipidemia in Youth With Diabetes: Do We Follow the Guidelines." Poster presented. 5/13/2016 American Thoracic Society 2016, San Francisco CA
- Hayek AJ, Lipatov K, Yau P, Arroliga A, **Stock EM**, Ghamande S. "Value of Noninvasive Ventilation in Acute Respiratory Failure Due to Pneumonia." Poster presented. 5/22/2016 Digestive Disease Week 2016, San Diego, CA
- Hinds M, Thompson AW, Pandey N, **Copeland LA**. "Preventative Care in Female IBD Veterans." Poster presented. 5/25/2016 ISPOR 21st Annual International Meeting 2016, Washington DC
- Copeland LA**, Liao IC, McNeal CJ, Song JJ, Zachariah JP. "Lipid Monitoring and Antilipemic Prescription among Insured Teens." Poster presented.

### Other Service Activities & Accomplishments

In addition, HOC investigators contributed in numerous ways to the research and academic missions of their institutions, as well as serving as representatives to local, national and international research entities. They have contributed their expertise to many research endeavors and were also honored for their roles on various working groups, advisory boards, and special committees. These activities include:

- Drs. Stock, Zeber and Copeland provided 44 sessions of methodological consulting for VA and BSWH clinical colleagues to support research projects

- Drs. Zeber, Copeland and Stock provided professional service to their field via peer review of 17 manuscripts for journals
- Dr. Zeber has served as Chair of the VA Institutional Review Board since 2012
- Drs. Copeland and Stock served as Scientific Review committee members and participated in the data security work group (Copeland, chair)
- Dr. Zeber is a member of the International Medication Adherence work group (ISPOR), led a recent systematic review, co-authored a second paper in press and is involved in a new methodological project
- Dr. Zeber continues to be a member of the VA HSR&D Scientific Merit Review Board in 2015
- Dr. Zeber has served on the national Academy Health Advisory Boards for the Behavioral Health special interest group since 2014
- Dr. Zeber is on the editorial board of the *World Journal of Psychiatry*
- Dr. Copeland represents BSWH on the Health Care Systems Research Network (HSCRN, formerly HCSRN) Governing Board
- Dr. Copeland is a member of the VA Rehabilitation Research & Development (RR&D) Scientific Merit Review Board since 2014
- Dr. Zeber is the Central Texas VA site lead for the national Women's Practice-Based Research Network (PBRN)
- Dr. Copeland was invited to participate in the VA Office of Research and Development's Weight Management State-of-the-Art (SOTA) conference on March 7-8, 2016, sponsored by Health Services Research & Development Service, as a member of the Pharmacotherapies work group.
- Dr. Zeber participated as a poster judge in the Academic Operations Research Day, May 5, 2016, Mayborn Auditorium, Temple TX.
- Dr. Copeland and Dr. Stock mentored two candidates for doctor of pharmacology interning at Scott & White Health Plan through their dissertations, providing consultation on study design, variable definition, analytic database creation, and statistical plan, execution, and interpretation.

**For additional information, contact Donna Sanchez at [donna.sanchez@BSWHealth.org](mailto:donna.sanchez@BSWHealth.org) or 254-215-9882, or Amy Reed at [amy.reed2@BSWHealth.org](mailto:amy.reed2@BSWHealth.org) or 254-215-9890.**