



**CENTER FOR
APPLIED HEALTH RESEARCH**



**HEALTH SCIENCE CENTER
TEXAS A & M UNIVERSITY**

**Health Outcomes Core
FY2015
1st Quarter Report
(July - September 2014)**

Co-Directors:

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Dr. John E. Zeber

Vision

The Health Outcomes Core (HOC) was established in September, 2010 with the following vision: by the end of FY2016, HOC will be a self-sustaining organization conducting research that contributes to the improvement of healthcare, and that drives the national mental health policy debate to focus on integrated patient care and to promote mental health parity. Within the outcomes research field, HOC will develop a collaborative network of national and international researchers and achieve national recognition as a leading mentoring center for the development of health outcomes researchers. This report provides an update on our progress toward realizing our Vision.

Goals for 2015

1. Conduct applied health research resulting in publication of new knowledge to improve the delivery of health care.
2. Integrate applied health care research results into Baylor Scott & White and VA clinical practice.
3. Develop collaborative research opportunities with Texas entities, including our academic affiliates and community partners.
4. Expand regional and national exposure for HOC investigators and research
5. Provide methodological and research career development expertise to external investigators
6. Mentor beginning and intermediate researchers in applied health research, within our supporting institutions and elsewhere

1st Quarter FY 2015 Highlights:

- 1 grant proposals submitted; 3 grant proposals funded
- 6 publications accepted and 9 others under review at quarter's end
- Presentations: 1 local Grand Rounds
- Consults: 21
- Completed 7 manuscript reviews

Executive Summary

With the start of a new fiscal year, the Health Outcomes Core of CAHR (HOC) sustained its previous year's strong productivity on academic research metrics, in addition to once again enhancing the quality of the reputation of its collective work. A letter in *JAMA* and other publications were supplemented by a Grand Rounds presentation and numerous consultations for other researchers' projects. In the meantime, Dr. Copeland continues to represent Baylor Scott & White on the HMORN Governing Board, while Dr. Zeber remains chair of the VA's Institutional Review Board. Both senior investigators serve on national advisory boards, invited working groups, editorial boards and site leads for national research networks. We look forward to continuing our service and commitment to both institutions while further developing what we believe are important multifaceted missions.

New/Developing Areas of Research and Collaboration

Infectious Disease

Expanding upon Dr. Zeber's current VA-funded merit study in progress (Dr. Copeland a co-investigator and Dr. Stock a consultant), we are working on several related implementation and laboratory analysis projects to help reduce hospital-associated infections. These developing projects involve both institutions, including an airborne UV devices for operating rooms, as well as novel patient room surface decontamination approaches, and microbial sampling to examine possible MRSA resistance and applications for addressing Ebola. In addition to Dr. Jinadatha's recent testimony before the Congressional Subcommittee on Science and Technology, Dr. Zeber was also recently contacted by the VA's under-secretary for health to help disseminate current study findings and plan for next directions. The latter includes a possible national trial of multiple VV hospitals.

Women's Health

Drs. Copeland, Zeber and Stock wish to further increase their efforts targeting women veterans, including an active role in the national women's practice-based research network.

Children's Health

A collaboration between two research groups within the HMORN is exploring pediatric lipid disorders and how clinicians and families cope with children's health issues. The PI is Dr. Copeland in the Mental Health Research Network and Dr. Catherine McNeal in the Cardiovascular Research Network. Collaborators include other HMORN sites and academic partners.

HMORN

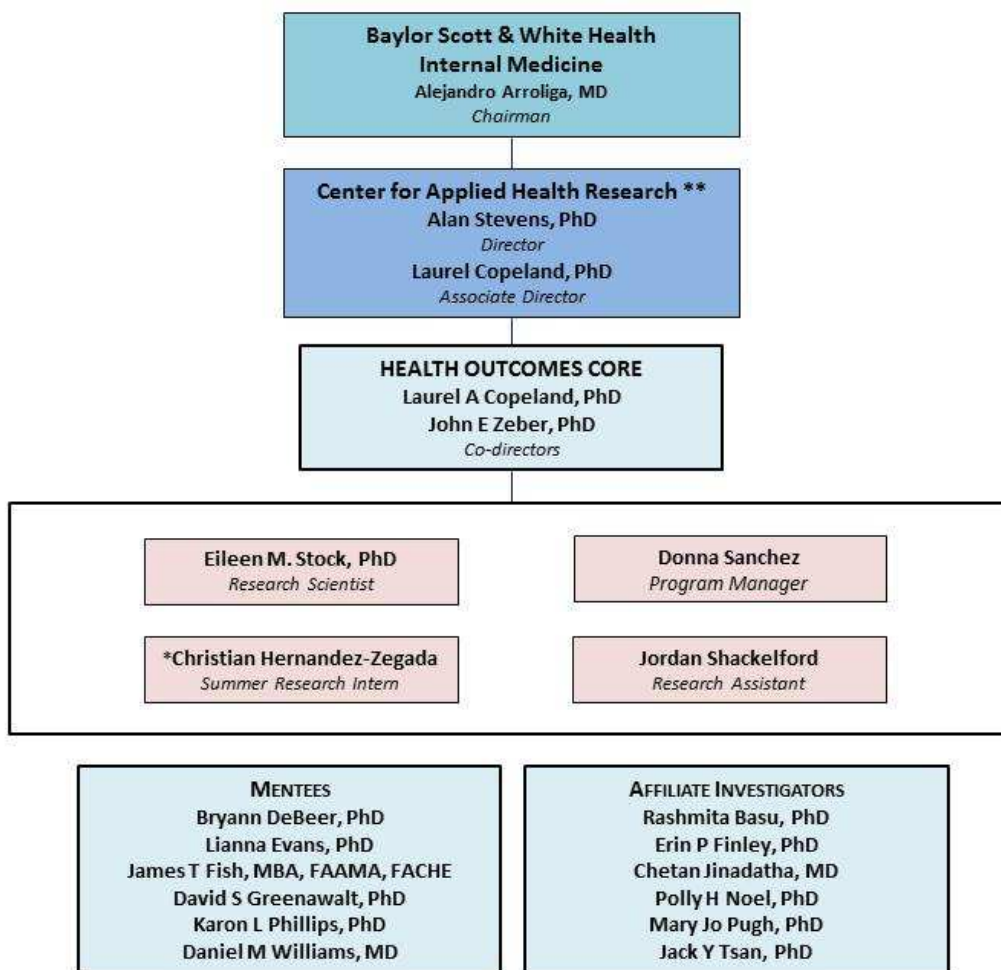
Recently, HOC investigators have leveraged funded status within the HMORN to become involved in new developing projects. These include: the Addiction Research Network; a new NIDA center grant to be submitted in December 2014 (Zeber, site lead); Scherrer R21 study of opioids and depression (in progress Copeland, co-I) with a follow-up R01 in development; plus tele-psychiatry and adolescent anxiety proposals in progress. This participation reflects several years of collaborative efforts preparing for BSWH's role in these and other HMORN projects.

Other Projects

A final exciting collaborative project is starting in the spring of 2015 among VA, DoD, academic medicine and private enterprise. It will examine the transition out of the military into civilian life. The project will document the trajectories of military personnel re-entering civilian life over the first 2.5 years after separation from the armed forces.

HOC Organizational Chart

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



* New to HOC in FY2015

** Jointly sponsored by Central Texas Veterans Health Care System

Key to metrics reporting tables

- **bold** = HOC investigator
- underline = HOC affiliate investigator
- *italics* = post-doc, Baylor Scott & White or Central Texas VA colleague or mentee

Grants/Proposals

Funded

Grants/Proposals	Role	Agency
"Rural Texas Veterans: The Affordable Care Act Needs and Barriers"	Bollinger M, Copeland LA , and others	VHA Office of Rural Health
"Pharmacotherapy Patterns among Veterans with Co-occurring PTSD/SUD"	Stock EM (PI)	VISN 17 CoE Pilot Funding Program
"The Veterans Metrics Initiative: Linking Program Components to Post-Military Well-Being"	Copeland LA (Co-I)	Multiple funders overseen by the Henry M. Jackson Foundation for the Advancement of Military Medicine

Submitted and Reviewed, through end of Q1 FY15

Grants/Proposals	Role	Agency
Alterations in blood and brain immune cells in PTSD	Young K, PI; Copeland LA (Co-I), Zeber JE (Co-I)	CTVHS

Ongoing Funded Projects, through end of Q1 FY15

Grants/Proposals	Role	Agency
"Pulsed Xenon Technology Targeting Hospital Acquired Infections, Cost and Outcomes"	Zeber JE (PI), Copeland LA (Co-I)	VHA HSR&D Merit Awards - 04/2013 -- 03/2016; \$732,714
"The Spread of High-Performance Integrated Care Delivery Systems: Assessing Two Hybrid Approaches" [Robert Reid - PI; Group Health Cooperative]	Copeland LA (Site PI), Zeber JE (Co-I)	Commonwealth Fund
"Mental Health Research Network II"	Copeland LA (Site PI), Zeber JE (Co-I)	NIMH 8/2014 – 7/2019; \$9.6 million
"Identifying and Validating Complex Comorbidity Clusters in OEF-OIF Veterans"	<u>Pugh MJ</u> (PI), Copeland LA (Co-I)	VHA HSR&D Merit Awards - 10/2011-09/2014; \$860,000
"Homefront: Implementation and Evaluation of a Post-deployment Family Health Program"	Copeland LA (PI), Williams DM (Mentee)	Scott & White Research Mentored Awards Program (RMA) - mentored research project; 12/2012-11/2014; \$10,000
"Temporal Trends in Pediatric Lipid Screening and Treatment"	<i>McNeal CJ</i> (PI), Copeland LA (Co-I)	Wilhelm Foundation - research support; 01/2013 – 12/2014; \$10,000
"A Study of Dog Adoption in Veterans with Posttraumatic Stress Disorder"	Stern S (PI), Copeland LA (Co-I)	VHA RR&D Merit Awards - 07/2013-06/2015; \$220,000
Evaluation of an Ideal Cleaning Protocol in Acute Care and OR's, and Evaluating Concept of Possible UV Resistance of Continuous Disinfection using Surface Coating Technology	<u>Jinadatha C</u> (PI), Zeber JE (Co-I), Copeland LA (Co-I) , (Zeber and Copeland, in-kind)	Xenex Healthcare – 2013-2014; \$115,000
Advanced Center for Interventions and Service Research (ACISR) for Optimizing Long Term Outcomes in Bipolar Illness Interventions in Hispanic Communities	Bowden C (PI), Zeber JE (Co-I)	National Institute of Mental Health #1P30MH086045 - 2011-2015; \$715,664

Publications

Accepted/Published

- Gregory S, McNeal C, **Copeland L**. ["Rates of Cholesterol Screening in Youth."](#) *JAMA*. 2014;312(13):1273 doi:10.1001
- Ahmedani BK, Solberg LI, **Copeland LA**, Fang Y, Stewart C, Hu JH, Nerenz DR, Williams LK, Cassidy-Bushrow A, Waxmonsky J, Lu CY, Waitzfelder BE, Owen-Smith A, Coleman KJ, Lynch F, Ahmed AT, Beck A, Rossom R, Simon GEJ. "Influence of psychiatric comorbidity on 30-day readmissions for heart failure, myocardial infarction, and pneumonia." *American Journal of Geriatric Psychiatry*, in press (2014)
- Phillips KL, **Copeland LA**, **Zeber JE**, **Stock EM**, Tsan JY, MacCarthy AA. ["Racial/ethnic disparities in monitoring metabolic parameters for patients with schizophrenia receiving antipsychotic medications."](#) *Am J Geriatr Psychiatry*. 2014 Jul 30. pii: S1064-7481(14)00221-8. doi: 10.1016/j.jagp.2014.07.007. [Epub ahead of print]
- Tsan JY, **Stock EM**, **Greenawalt DS**, **Zeber JE**, **Copeland LA**. ["Mental Health Treatment after Major Surgery among Vietnam Era Veterans with PTSD."](#) *Journal of Health Psychology*, epub DOI: 10.1177/1359105314551620
- Janke-Stedronsky S, **Greenawalt DS**, **Stock EM**, **Tsan JY**, MacCarthy AA, MacCarthy DJ, **Copeland LA**. "Association of Parental Status and Diagnosis of Posttraumatic Stress Disorder among Veterans of Operations Iraqi and Enduring Freedom." *Psychological Trauma: Theory, Research, Practice, and Policy*, in press (2104)
- Alvarez CA, Mortensen EM, Makris UE, Berlowitz DR, **Copeland LA**, Good CB, Amuan ME, **Pugh MJ**. "Association of skeletal muscle relaxers and antihistamines on mortality hospitalizations and emergency department visits in elderly patients: A nationwide retrospective cohort study." *BMC Geriatrics*, in press (2014)

Submitted/Under Review, through end of Q1 FY15

- Evans L**, **Stock EM**, **Zeber JE**, Morissette SB, MacCarthy AA, MacCarthy DJ, **Copeland LA**. "Transplant Survival in Veterans with and without Serious Mental Illness"
- Pugh MJ**, Noel PH, Wang CP, Finley EP, Elnitsky C, Jaramillo C, Leykum LK, Rohde N, Mortensen EM, **Copeland LA**, Pugh JA. "Similar comorbidity trajectories in men and women veterans of the Afghanistan and Iraq Wars"
- Hutchins D, **Zeber JE**, Roberts C, Williams AF, Manias EF, Peterson AM "Initial Medication Adherence - Review, Analysis, and Recommendations for Good Research Practices: An ISPOR Medication Adherence and Persistence Special Interest Group Report"
- Bollinger M, Schmidt S, Pugh JA, Parsons H, **Copeland LA**, Pugh MJ. "Lack of a Healthy Soldier Effect in Veterans of U.S. Military Service in Iraq and Afghanistan"
- Coleman, Stewart, Waitzfelder, **Zeber**, Morales, Ahmed, Ahmedani, Beck, **Copeland**, Cummings, Hunkler, Lindberg, Lynch, Lu, Owen-Smith, Quinn, Trinacty, Whitebird and Simon. "Racial and Ethnic Differences in Diagnoses and Treatment for Mental Health Conditions across Healthcare Systems Participating in the Mental Health Research Network"
- 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."
- Basu R**, **Zeber JE**, **Copeland LA**, **Stevens AB**. "Role of co-existence of multiple chronic conditions on the longitudinal decline in cognitive performance in the US"
- Asias BD, **Stock EM**, Small NL, Getchell KE, Patel JR, Krause JD, Cavness S, Dzenowski CL, Ta M. "Clinical and Financial Outcomes of Switching Insulin Glargine to Insulin Detemir in a Veteran Population with Type 2 Diabetes."

Copeland LA, Zeber JE, Thibodeaux LV, McIntyre RT, Stock EM, Hochhalter AK. “Correlates of Health Literacy among Discharged Inpatients Receiving Medical Aid.”

Activities

Presentations

9/19/14 BSWH Mental Health Grand Rounds, **LA Copeland**; “HMORN and STOPP: Health Services Research in Private and Federal Settings”

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 numerous organizations, and were also honored for their roles on various working groups, advisory boards, and special committees. These activities include:

- providing 21 sessions of methodological consulting for VA and Baylor Scott & White clinical colleagues to support of projects (primarily Dr. Stock, with others from Drs. Copeland and Zeber)
- donating time for peer review of 7 manuscripts for journals
- Dr. Zeber has served as Chair of the VA Institutional Review Board since 2011; Drs. Copeland and Stock are IRB committee members, and participating in the data security working group
- Dr. Zeber is a member of the International Medication Adherence working group (ISPOR) and led a recent study and systematic review publication
- Drs. Copeland and Zeber serve on the national Academy Health Advisory Board for the Comorbidities and Behavioral special interest groups, respectively
- Dr. Zeber is on the editorial board of the *World Journal of Psychiatry*
- Dr. Copeland continues to represent BSWH on the HMORN Governing Board
- Dr. Copeland joined the VHA’s Rehabilitation Research & Development (RR&D) Scientific MeritReview Board in early 2014.
- Dr. Zeber is the Central Texas VA site lead for the national Women’s Practice-Based Research Network (PBRN)

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