Health Outcomes Core
FY2015 Report

Co-Directors:
Dr. Laurel A. Copeland
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 primarily 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 care 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 in private and federal healthcare settings to generate publication of new knowledge to improve the delivery of health care
2. Integrate applied health care research results into Baylor Scott & White Health (BSW) and Veterans Health Administration (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

FY 2015 Highlights:

- 18 grant proposals under review
- 17 grant proposals awarded funding
- 21 publications accepted/published
- 12 papers under review at year end
- 8 local/national/international talks presented
- 78 consults
- 32 manuscripts reviewed, 4 grant review sessions (total of 11 as first reviewer), and 3 sessions of abstract reviews (total of 25 abstracts for Dr. Zeber and 27 for Dr. Copeland)
- 16 poster presentations/abstracts published
- Press highlights: 1 brief published by the VA HSR&D Center for Information Dissemination and Education Resources (CIDER) Central Office Briefs; 1 letter in JAMA
- Infectious Disease research recognition: VA national newsletter coverage of collaborator Chetan Jinadatha’s work, while Dr. Zeber was contacted by VA Interim Under Secretary for Health Carolyn Clancy who expressed Central Office interest in these current projects
Executive Summary

The Health Outcomes Core (HOC) within the Center for Applied Health Research (CAHR) continued to improve in its first five years, building on a strong start to the 2015 fiscal year (July 1, 2014 – June 30, 2015) and meeting or exceeding the previous year’s productivity.

Dr. Copeland continues to represent Baylor Scott & White on the HMORN (to be renamed HCSRN – The Health Care System Research Network – in August 2015) Governing Board, while Dr. Zeber remains Chair of the affiliate VA’s Institutional Review Board and serves on an international editorial board. Both senior investigators serve as site Representatives for the NIMH-funded Mental Health Research Network (MHRN), and on several national advisory boards and invited work groups. 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

We continue to work on implementation and laboratory analysis projects to help reduce hospital-associated infections, further expanding on Dr. Zeber’s current VA-funded merit study on which Dr. Copeland is a co-investigator and Dr. Stock, a consultant, with VA collaborator Dr. Chetan Jinadatha. Findings have been accepted for publication in *The American Journal of Infection Control* documenting our promising work on a novel ultraviolet technology to disinfect patient rooms. A new project to trial a UV-based air-cleaning device in BSW operating rooms is moving forward, as are plans to test a novel self-decontaminating surface in hospital rooms, and microbial sampling to examine possible MRSA resistance. HOC also supported several related funding proposals now under review, and Dr. Zeber has joined a large Texas A&M interdisciplinary consortium to foster diverse and innovative infectious disease research ideas. Expansion of these efforts to address novel methods of disinfecting provider personal protective equipment is under discussion.

Women’s Health

Drs. Copeland, Zeber and Stock wish to further increase their efforts targeting the quality of care for women veterans, including taking an active role in the national Women’s Practice-Based Research Network (VA Women-PBRN). 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-I on two relevant VA research awards: “Examining VACAA Implementation and Care Coordination for Women Veterans” and “Understanding Barriers and Facilitators in Pregnancy and Maternity Care Delivery among Women Veterans”.

Children’s Health

The collaboration between the Cardiovascular and Mental Health research networks, both part of HMORN (HCSRN), is exploring pediatric lipid disorders and how clinicians and families cope with children’s health issues. Dr. Catherine McNeal, the BSW site PI for the Cardiovascular Research Network, with Dr. Copeland (BSW site PI for the Mental Health Research Network), has fostered
creation and research use of two major data resources, one on neonates (1988-2008) and one on pediatric lipids (2001-2013). Collaborators include other HMORN sites and academic partners.

**HMORN**

Recently, HOC investigators have leveraged their status within the HMORN to engage in newly developing projects. These include: a new NIDA center grant application for an Addiction Research Network submitted in December and favorably received (Zeber, site lead); an R21-funded study of opioids and depression (Scherrer – PI, Copeland – Co-I), a related R01 plus an R21 on suicide means prevention both submitted in February; a drug safety project to examine a new medication for treating side effects of chronic opioid use naloxegol (Zeber, site lead); as well as new proposals in the areas of tele-psychiatry and adolescent anxiety. This participation reflects several years of collaborative efforts preparing for BSW’s role in these and other HMORN projects.

**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 with other chronic disease. A final exciting collaborative project kicked off in the spring of 2015 among VA, Department of Defense (DoD), academic medicine and private enterprise partners (Copeland, Co-PI). The project, named The Veterans Metrics Initiative, 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.
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 (A Stevens, Director) and the Community Research Center for Senior Health (A Stevens, Director), in particular with junior scientists Dr. Basu and Dr. Cho.
Key to metrics reporting tables
- **bold** = HOC investigator Zeber, Stock, or Copeland
- **underline** = HOC affiliate investigator Basu, Cho, Finley, Jinadatha, Mattocks, McNeal, Pugh, Scherrer, Tsan
- **italics** = Baylor Scott & White or Central Texas VA colleague or mentee

### Grants/Proposals Funded

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<thead>
<tr>
<th>Grants/Proposals Funded</th>
<th>Role</th>
<th>Agency</th>
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<tr>
<td>1. &quot;Rural Texas Veterans: The Affordable Care Act Needs and Barriers&quot;</td>
<td>Bollinger M (PI; South Texas VA), <strong>Copeland LA (Co-I)</strong></td>
<td>VA Office of Rural Health [$100,000; submitted FY15; 08/2014-07/2016]</td>
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<td>2. &quot;Mental Health Research Network-II&quot;</td>
<td>Simon GE (PI; Group Health), <strong>Copeland LA (Site PI), Zeber JE (Co-I)</strong> et al</td>
<td>NIMH [08/2014 – 07/2019; $9.6 million]</td>
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<tr>
<td>3. “Automated Virtual Follow-up to Reduce Premature Treatment Discontinuation”</td>
<td>Penfold R (PI; Group Health), <strong>Zeber JE (Site PI)</strong> et al</td>
<td>Pilot Study, sub-award to National Institute of Mental Health (NIMH)</td>
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<td>#U19MH092201, [08/2016-07/2019; $500,000]</td>
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<td>4. &quot;Prescription Opioid Analgesics and Risk of Major Depression&quot;</td>
<td>Scherrer J (PI; St Louis U), Copeland L (Site PI), Stock E (Co-I), Ahmedani BK (Site PI; Henry Ford Health)</td>
<td>R21, NIMH #1R21MH101389-01A [09/2014-02/2016]</td>
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<td>5. “Identifying Specific Non-VHA Healthcare with the Mental Health Research Network”</td>
<td>Copeland LA (PI), Zeber JE (Co-I)</td>
<td>VA HSR&amp;D QUERI RISOME Program [$131,608; submitted FY15]</td>
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<td>6. “Improving Surgical Quality: Risks and Impact of Readmission”</td>
<td>Hawn M (PI; Birmingham VA), Copeland LA (Co-I) et al</td>
<td>VA HSR&amp;D [$900,000; 01/2015-12/2017]</td>
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<td>7. “Patterns and Experiences of VA Maternity Care Coordination for Women Veterans”</td>
<td>Mattocks K (PI; Central Western Mass. VA), Zeber JE (Site PI) et al</td>
<td>VA Health Services Research &amp; Development (HSR&amp;D) [$878,000; 01/2015-12/2017]</td>
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<td>8. “Hypertriglyceridemia: Relationship with Acute Pancreatitis and Cardiovascular Disease”</td>
<td>Copeland LA (PI/Mentor), C. Scott Swendsen (Mentee), Stock EM, Erickson RA (Co-Mentor)</td>
<td>Scott &amp; White Research Mentored Awards Program (S&amp;W RMA) [$2,949; submitted FY15; 03/2015-02/2017]</td>
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<td>9. “Pharmacotherapy Patterns among Veterans with Co-occurring PTSD/SUD”</td>
<td>Stock EM (PI)</td>
<td>VISN 17 Center of Excellence Pilot Program [$35,000]</td>
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<td>11. “VA Vascular Injury Study (VAVIS): VA-DoD extremity injury outcomes collaboration”</td>
<td>Pugh MJ &amp; Shireman P (Co-PI’s), Copeland LA (Co-I)</td>
<td>VA HSR&amp;D IIR 13-029 [$968,468; 04/01/15-03/31/18]</td>
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<td>13. “Examining VACAA Implementation and Care Coordination for Women Veterans”</td>
<td>Mattocks K (PI; Central Western Mass. VA), Zeber JE (Co-I) et al</td>
<td>VA Quality Enhancement Research Initiative (QUERI) award [$755,000; 06/2015-06/2016]</td>
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<td>15. &quot;Estimating Causal Effects from Observational Data in the Pediatric Cardiovascular Research Network Database&quot;</td>
<td>McNeal CJ (PI), Song JJ (Co-I), Copeland LA (Co-I)</td>
<td>CFRIP – Baylor U, BSW, Baylor College of Medicine [$50,000; submitted FY15; 07/2015-06/2016]</td>
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<td>16. &quot;Randomized Trial of an Airborne Ultraviolet Disinfection Device to Reduce Surgical Site Infections in Operating Rooms&quot;</td>
<td>Brust K (PI), Copeland L (Co-I), Zeber J (Co-I)</td>
<td>Aerobiotix [materials support only]</td>
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<td>17. &quot;Women Veterans’ Perceptions of the Affordable Care Act and Medicaid Expansion Restrictions&quot;</td>
<td>Hamilton A (PI) with Zeber JE (Site PI) et al</td>
<td>VA Office of Women’s Health</td>
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<tr>
<th>Grants/Proposals Submitted</th>
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<tr>
<td>1. &quot;A study of the effectiveness of no-touch disinfection technologies and barriers to effectiveness during implementation in acute care areas: a veterans hospital study&quot;</td>
<td>Jinadatha C (PI), Copeland LA (Co-I), Zeber JE (Co-I), Stock EM (Co-I)</td>
<td>APIC (Association for Professionals in Infection Control) Heroes Implementation research scholar program</td>
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<td>2. &quot;Adapting a maximum entropy machine-learning algorithm for use as an analytic tool for epidemiologists and physicians&quot;</td>
<td>Stock EM (consultant)</td>
<td>PCORI</td>
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<td>3. &quot;A Trial to Explore the Benefit of Antibacterial Self-Sanitizing Surfaces on Bio-burden levels and Healthcare-acquired Infection&quot;</td>
<td>Jinadatha C (PI), Copeland LA (Co-I), Stock EM, Zeber JE (Co-I) et al</td>
<td>DoD Congressionally Directed Medical Research Program (CDMRP)</td>
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<td>4. &quot;Addictions Research Network&quot;</td>
<td>Campbell CI (others), Zeber JE (site lead) et al</td>
<td>National Institute on Drug Abuse (NIDA)</td>
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<tr>
<td>5. &quot;Alterations in blood and brain immune cells in PTSD&quot;</td>
<td>Young KA (PI), Copeland LA (Co-I), Zeber JE (Co-I) et al</td>
<td>NIMH</td>
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<td>6. &quot;Costs of Treating Patients with Tuberculosis&quot;</td>
<td>Cadena-Zuluaga (PI; UTHSCSA), Copeland, LA (Co-I), Zeber JE (Co-I)</td>
<td>UT Health Science Center San Antonio pilot program</td>
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<tr>
<td>7. &quot;Depression Risk Factors among Women Veterans of Iraq/Afghanistan: MST, Obesity, Opioids&quot;</td>
<td>Copeland LA (PI), Zeber JE (Co-I), Mattocks K (Co-I), Scherrer J (Co-I) et al</td>
<td>VA HSR&amp;D</td>
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<td>8. “Developing Learning Healthcare Environments with the Mental Health Research Network”</td>
<td>Simon GE (PI), Copeland LA (Site PI), Zeber JE (Co-I) et al</td>
<td>Patient-Centered Outcomes Research Institute (PCORI)</td>
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<tr>
<td>11. “Intervention mapping to develop multi-level implementation strategies in partnership with stakeholders: Firearms means restriction in pediatric primary care”</td>
<td>Beidas R (PI), Zeber JE (Co-I) et al</td>
<td>National Institute of Mental Health R21</td>
</tr>
<tr>
<td>13. “Investigation of Interspecies Transmission of Methicillin-Resistant Staphylococcus Aureus (MRSA) Between Service Animals, Pets, Farm Animals and Their Veteran Owners”</td>
<td>Jinadatha C (PI), Zeber JE (Co-I) et al</td>
<td>Texas A&amp;M School of Veterinary Medicine</td>
</tr>
<tr>
<td>14. “Pathways from Prescription Opioid Use to Major Depression”</td>
<td>Scherrer J (PI; St Louis Univ.), Copeland LA (Co-I), Zeber JE (Co-I), Stock EM (Co-I) et al</td>
<td>National Institute of Mental Health R01</td>
</tr>
<tr>
<td>15. “Prescribing patterns and long-term outcomes among children with long QT syndrome”</td>
<td>Stock EM (PI), Copeland LA (Primary Mentor); McNeal CJ (Co-Mentor); Zeber JE (Collab.)</td>
<td>PhRMA Foundation</td>
</tr>
<tr>
<td>16. “Randomized Trial Examining the Effect of Copper-Infused Room Surfaces in Reducing Hospital Acquired Infections”</td>
<td>Jinadatha C (PI), Zeber JE (Co-I)</td>
<td>DoD PRMRP</td>
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<tr>
<td>17. “The Pediatric Cardiovascular Research Network (P-CVNR)”</td>
<td>McNeal CJ (PI), Copeland LA (Co-I)</td>
<td>American Heart Association Grant-In-Aid</td>
</tr>
<tr>
<td>18. “Homefront 2.0: Mental Health Solutions for Texas Veterans and their families”</td>
<td>Trent M (Co-PI), Thompson A (Co-PI), Little D (Ops Dir), Copeland LA (Co-I)</td>
<td>Texas Veterans Initiative</td>
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## Ongoing Funded Projects

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<tr>
<th>Grants/Proposals Ongoing</th>
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<th>Agency</th>
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<tr>
<td>1. “Advanced Center for Interventions and Service Research (ACISR) for Optimizing Long Term Outcomes in Bipolar Illness Interventions in Hispanic Communities” [C Bowden – PI; UT Health Science Center San Antonio]</td>
<td>Zeber JE (Co-I)</td>
<td>NIMH #1P30MH086045 (2011-2015; $715,664)</td>
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<tr>
<td>2. &quot;Identifying and Validating Complex Comorbidity Clusters in OEF-OIF Veterans&quot; [M J Pugh – PI; South Texas VA]</td>
<td>Pugh MJ (PI), Copeland LA (Co-I) et al</td>
<td>VHA HSR&amp;D DHI-09-327 (10/2010-09/2014; $1,099,071)</td>
</tr>
<tr>
<td>7. “Pulsed Xenon Technology Targeting Hospital Acquired Infections, Cost and Outcomes”</td>
<td>Zeber JE (PI), Copeland LA (Co-I)</td>
<td>VHA HSR&amp;D Merit Award (04/2013 -- 03/2016; $732,714)</td>
</tr>
<tr>
<td>9. “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”</td>
<td>Jinadatha C (PI), Zeber JE (Co-I), Copeland LA (Co-I)</td>
<td>Xenex Healthcare (2013-2014; $115,000)</td>
</tr>
</tbody>
</table>
Publications Accepted/Published


3. 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; January 2015;15(2)


6. Case DJ, Copeland LA, Stock EM, Herrera HR, Pfanner TP. “Pneumococcal Vaccination Rates in VHA Patients with Inflammatory Bowel Disease” Medicine; February 2015; 94(6): e417


8. Evans LD, Zeber JE, Stock EM, Morissette SB, MacCarthy AA, Sako EY, Lappin J, Lawrence VA, MacCarthy DJ, Copeland LA. “Post-transplantation Outcomes in Veterans with Serious Mental Illness” Transplantation; Feb 2015; Epub ahead of print


Publications Submitted as of 6/30/2015


7. Lehman RE, Copeland LA, Stock EM, Fulcher SF. “Graft Detachment Rate in DSEK/DSAEK After Same-Day Complete Air Removal”


Oral Presentations

7/8/2014  BSWH Summer Research Student Program Presentation by Dr. Copeland:  
HMORN and STOPP: 2 Families of Studies

9/19/2014  BSWH Psychiatry Grand Rounds Presentation by Drs. Copeland & Zeber:  
HMORN and STOPP: Health Services Research in Private and Federal Settings

3/9-12/2015 Health Maintenance Organization Research Network annual meeting (Long Beach)  
Interventions to Reduce Hospital Associated Infections: Comparative Efforts at One HMORN Site and a Local Veterans Affairs Facility (oral presentation)  
Dr. Zeber moderated a session on Mental Health Care
6/4/2015  HSR&D QUERI Cyber Seminars  Presentation by Drs. Copeland and Zeber:

Population Health Research Collaborations between Federal and Private Health Care Systems: VA and HMORN

Poster and other presentations:

3/4/2015  American Heart Association EPI/Lifestyle 2015 Scientific Sessions
Gregory, Zachariah, Tan, Copeland, McNeal
National and Regional Lipid Screening Rates in Youth: A Synthesis of Available Evidence

3/5/2015  Internal Medicine Research Day at Scott & White
Manaf, Zaizafoun, Henry, White, Olutola, Stock, Arroliga, Ghamande
Impact of Angiotensin Converting Enzyme (ACE) Inhibitors and Statins on Outcomes in Viral Pneumonia

Zeber, Shah, Trieu-DiMaculangan: A pharmacy counseling and post-discharge intervention to improve initial adherence for high-risk medications
Stock, Stamey, Zeber, Thompson, Copeland: A Bayesian approach to modeling risk of hospital admissions associated with schizophrenia accounting for under-diagnosis of the disorder
Webb, McNeal, Zachariah, Tom, Trinacty, VanWormer, Wright, Cassidy-Bushrow,
Gregory, Copeland: Lipid management in youth: what are the screening & treatment trends within the pediatric cardiovascular research network?

3/26/2015  Consortium of Universities on Global Health 6th Annual Conference

4/6/2015  NIV (Non-Invasive Ventilation) Conference
Hayek, Scott, Yau, Stock, Arroliga, Ghamande: Failure of Non-Invasive Ventilation: The Role of SpO2/FiO2 Ratio and Tidal Volumes

4/6/2015  Anesthesiology 2015 conference
Garmon, Stock, Arroliga, Bean-Lijewski: Effects of Training on Emergency Airway Management Skills

5/11/2015 Texas Pediatric Society
Chambers, McNeal, Zachariah, Copeland, Gregory, Song: Screening and Treatment of Dyslipidemia in Youth with Diabetes: Do We Follow the Guidelines?

5/16/2015 Academic Operations Research Day at Scott & White
McNeal, Zachariah, Copeland, Gregory, Song, Fang-Hollingsworth, Cassidy, Wright, Tom, VanWormer: Temporal Trends in Lipid Screening for Familial Hypercholesterolemia in Youth
5/16/2015 Academic Operations Research Day at Scott & White

6/11/2015 2015 HSR&D QUERI National Conference
Pugh, Jaramillo, Finley, Copeland, Van Cott, Mortensen, Elnitsky, Pugh: *Stability of Health Trajectories among Iraq and Afghanistan Veterans: Insights from Central Nervous System Medication Use (oral presentation)*

6/11/2015 National Lipid Association conference
McNeal, Zachariah, Copeland, Fang-Hollingsworth, Gregory, Cassidy-Bushrow, Tom, Wright, VanWormer: *Temporal Trends in Lipid Screening for Familial Hypercholesterolemia in Youth*

6/11/2015 National Lipid Association Conference

**Abstract submissions pending adjudication:**

3/14/2015 American College of Cardiology Annual Scientific Session & Expo
Slicker, Lane, Zimmermann, Oyetayo, Copeland, Stock, Erwin *Cardiac Catheterization Procedural Volume and Complications"

5/16/2015 Digestive Disease Week, May 16-19, 2015, Washington DC
Herrera, Pandey, Copeland, Pfanner *Preventative Care Rates for Patients with Inflammatory Bowel Disease*

5/18/15 International Society of Pharmacoeconomics and Outcomes Research (ISPOR) 2015
Stock, Bush, Zeber, Copeland *Psychotropic Pharmacotherapy Associated with QT Prolongation among Veterans with Posttraumatic Stress Disorder*

**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 78 sessions of methodological consulting for VA and BSW clinical colleagues to support research projects
- Drs. Zeber, Copeland and Stock provided professional service to their field via peer review of 32 manuscripts for journals
• Dr. Zeber has served as Chair of the VA Institutional Review Board since 2011; Drs. Copeland and Stock have served as IRB committee members, are now Scientific Review committee members and participate 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 became a member of the VA HSR&D Scientific Merit Review Board in early 2015
• Drs. Copeland and Zeber served on the national Academy Health Advisory Boards for the Comorbidities and Behavioral special interest groups, respectively
• Dr. Zeber is on the editorial board of the World Journal of Psychiatry
• Dr. Copeland represents BSW on the Health Care Systems Research Network (HSCRN; formerly HMORN) Governing Board
• Dr. Copeland reviewed and presented a new-member application to HCSRN Governing Board
• Dr. Copeland is a member of the VA Rehabilitation Research & Development (RR&D) Scientific Merit Review Board as of 2014
• Dr. Zeber is the Central Texas VA site lead for the national Women’s Practice-Based Research Network (PBRN)
• Dr. Zeber was invited to join a VA expert task force evaluating the state of the art of “Interventions to Improve Pharmacological Adherence among Patients with Psychotic-Spectrum Disorders, Bipolar Disorder, and Posttraumatic Stress Disorder”, (2015 – 2016): The SOTA is part of the VA’s systematic review process for evidence-based medicine.
• The Commonwealth Fund produced an Issue Brief in April 2015 highlighting a project jointly conducted by Dr. Robert Reid (PI, Group Health) and Drs. Copeland and Zeber, “Why Integrated Delivery Systems are Evolving in the Era of Accountable Care: The Case Studies of Group Health and Scott & White”
• Dr. Zeber participated in the first meeting of the Texas A&M Infectious Disease Consortium

For additional information, contact Donna Sanchez at dsanchez@sw.org or 254-215-9882, or Laurel Copeland at lcopeland@sw.org or 254-215-9880.