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**JOSEPH A. BOSCARINO, PhD, MPH**

**Professor**

**Department of Epidemiology & Health Services Research  
Geisinger Clinic**

Professor of Epidemiology  
Department of Clinical Sciences  
Geisinger Commonwealth School of Medicine  
Scranton, PA 18509

Professor (Adjunct)  
Department of Psychiatry and Behavioral Sciences  
Temple University School of Medicine  
Philadelphia, PA

Associate Professor (Adjunct)  
Departments of General Internal Medicine & Pediatrics  
Icahn School of Medicine - Mount Sinai  
New York, NY

**Office:**

100 N. Academy Avenue  
Danville, PA 17822-4400  
Phone: 570-214-9622  
Fax: 570-214-9451  
Email: jaboscarino@geisinger.edu

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**Personal Career Summary**

I am a senior epidemiologist and leading behavioral scientist who has focused on behavioral health, chronic disease epidemiology, neuropsychiatric research, and on veterans' health studies. Working in both the contract and academic research environments for over 35 years, I have directed over 1,000 studies related to addictions, posttraumatic stress disorder, chronic pain, HIV disease, chronic hepatitis, rheumatoid arthritis, and patient satisfaction. Currently, I am currently the PI for a study of mental disorders, traumatic brain injury, suicide risk, and treatment seeking among formerly deployed National Guard and Reserve service member seen in non-VA facilities, funded by the Department of Defense (DoD) and Site PI for a national study of opioid misuse among patients treated with extended-release/long acting opioids funded by the FDA. I am also the site PI for the Fibrotic Liver Disease Study (FOLD) (funded by Intercept Pharmaceuticals) and the Addiction Research Network (ARN) (funded by NIDA), both associated with the Healthcare Systems Research Network (HCSRN), a national network conducting population-based studies with electronic health records, surveys, and patient registries to develop innovative approaches to clinical research. I am also the site PI for the Chronic Hepatitis Cohort Study funded by the CDC since 2007 (also with the HCSRN). My current research portfolio includes assessing the health impact of PTSD among trauma, warzone, and disaster victims, on studying the risk factors for PTSD, addictions, and other mental health disorders. In addition, I am also investigating the role of PTSD in the onset and course of inflammatory diseases, including ischemic heart disease and rheumatoid arthritis. Furthermore, with NIH funding, I have developed the next generation of PTSD risk assessment tools using the World Trade Center Disaster Study and other trauma data. My research team also evaluated the health impact of Hurricane Sandy at the Jersey Shore in collaboration with a healthcare system in Monmouth and Ocean County, New Jersey. Finally, I am also investigating key risk factors for suicide, including assessment of genetic risk factors. I currently hold adjunct appointments at Mount Sinai School of Medicine (Pediatrics and Internal Medicine) and at Temple University School of Medicine (Psychiatry). In 2009, he was elected to Fellow Status by the American Psychological Association (APA) for my psychological trauma research; in 2010 I was given a Lifetime Achievement Award by the International Society for Traumatic Stress Studies (ISTSS) for my World Trade Center disaster and veterans' research programs. In addition to the APA and ISTSS, I am also a member of the American College of Epidemiology, American Psychosomatic Society, and the Society of Biological Psychiatry. In 2012, I was appointed to serve as a committee member on the SHAD-II Veterans Study by the Institute of Medicine (IOM). The purpose of this effort was to assess the health effects of exposure to chemical and biological weapons among naval personnel during the Cold War. In 2014, I was awarded the Charles Shepard Science Award for Research Methods, by the CDC, Atlanta, GA, for my chronic hepatitis research. Over the past 35 years, I have also served as a grant reviewer for the HSR&D and Epidemiology Services of the VA, Washington, DC, for the US Army Materials Readiness Command, Fort Detrick, MD, and for NIH. To date, I

have over 200 published research papers and book chapters. As of July, 2017, my **Google Scholar** search indicates over 11,000 citations: <http://scholar.google.com/citations?user=Q-7Inh8AAAAJ&hl=en&oi=ao>

### **Research Expertise**

■ Epidemiology ■ Behavioral Medicine ■ Survey Research ■ Psychometric Methods ■ Trauma Psychiatry  
■ Addictions ■ Behavior Genetics ■ Environmental Health ■ Veterans Health ■ Disaster Epidemiology

### **Experience Overview**

■ Experience conducting epidemiologic, clinical trial, environmental health, health services, population health and market research studies ■ Clinical experience includes: cardiovascular, cancer, post-traumatic stress disorder, substance abuse/addictions, mood/anxiety disorders, rheumatoid arthritis, neurologic, autoimmune, HIV/AIDS and chronic hepatitis studies ■ Epidemiologic research experience includes: mental health, community health, genetic, environmental, crime, and population health studies ■ Health services research experience includes: medication adherence, cost-effectiveness and disease management studies ■ Market research experience includes: public opinion, service/product feasibility, patient satisfaction and consumer tracking studies ■ Experience working with foundation, pharmaceutical, managed care, government and association clients/funders ■ Experience conducting local, regional, national and international studies ■ Training and mentoring experience with residents, fellows, and junior medical faculty ■ Experience teaching clinical epidemiology to medical students and fellows ■ Experience with bio-statistics methods, proposal/grant preparation, cost estimation, study design, field supervision, subcontractor management, multivariate analyses, medical writing and results presentation ■ Experience presenting findings to scientific, professional and lay audiences ■ 200 peer-reviewed medical articles and book chapters currently published ■ Computer and statistical software experience includes: STATA, SAS, SPSS, S-Plus, CART, and nQuery ■ Experience with case-control, cohort, clinical trial methodologies, as well as pharmacoepidemiology, genetic epidemiology, public health surveillance methods, psychometric measurements and multivariate data analyses ■ Experience with severity/risk adjustment methods, including propensity score analyses ■ Experience with mail, telephone, internet, personal interviews and focus group methods ■ Experience with medical registry design/development and bio-banking ■ Over \$100 million in intramural and extramural health research projects funded and successfully completed over 35 years ■ History of successful product/business development, including trademark and patent applications (US Patent 7,725,327, Computer System and Method for Healthcare Risk Indices Using Medication Compliance Information), which was the results of R&D work with Merck-Medico in the late 1990s).

### **Education**

**M.P.H. Epidemiology** – University of California, Berkeley (1993)

**Ph.D. Social Psychology & Survey Research** – New York University (1977)

**M.A. Criminology** – New York University (1975)

**B.A. Sociology & Psychology** – Fordham University (1974)

### **Fellowships/Scholarships**

**Post-Doctoral Fellowship in Clinical Epidemiology** – University of California - San Francisco (NIMH)

**Post-Doctoral Fellowship in Health Services Research** – West Haven VAMC & Yale University (VA)

**Pre-Doctoral Fellowship in Criminology Research** – New York University (DOJ)

**Fellowship in Alcohol & Drug Abuse Studies** – Center for Alcohol Studies, Rutgers University (NIAAA)

**Schaenman Graduate Scholarship** – New York University (Schaenman Foundation)

### **Honors/Awards**

2009 Elected to APA Fellow Status, American Psychological Association, Div. of Trauma Psych.

2010 Life Achievement Award, International Society of Traumatic Stress Studies

2011-2016 Appointed to SHAD-II Study, Institute of Medicine, National Academy Sciences, Wash., DC

2014 Charles Shepard Science Award for Research Methods, CDC, Atlanta, GA

2017 Charles Shepard Science Award for Research Methods, CDC, Atlanta, GA

### **PubMed**

<https://www.ncbi.nlm.nih.gov/pubmed/?term=%22boscarino+i%22+or+CHeCS>

## **Employment**

**GEISINGER CLINIC** (Danville, PA; 12/2005 – Present). As a Professor with the Geisinger Clinic, has received research funding from NIH, FDA, CDC, AHRQ, DoD, PA Department of Health, foundations, pharmaceutical industry, among other sponsors. With NIH funding, currently developing the next generation of posttraumatic stress disorder (PTSD) risk assessment tools using the World Trade Center Disaster Study and other trauma data (R01-MH-066403; R21-MH-086317, Boscarino PI). The goal of this research is to develop prediction models that can be used in clinical practice to predict the onset and course of PTSD. The latest version of this prediction model also includes genetic risk information (see: Boscarino et al. Predicting PTSD using the New York Risk Score with Genotype Data. *Neuropsychiatric Research & Treatment*. 2013; 9: 517-27). Currently developing a "risk score" approach for predicting opioid addiction in medical settings using this same method. Also currently assessing the risk for PTSD and mild traumatic brain injury (mTBI) among adults exposed to traumatic events. For this study, patients who were discharged from Geisinger's Trauma Center are being studied. DSM diagnostic instruments are being used for these interviews. In addition, also conducting investigations related to the genetics of drug dependence, alcoholism, and suicide. This research is assessing the genetic and environmental risk factors for these disorders, including the impact of exposure to early childhood trauma. Currently, 35 genetic variants are being studied, including brain-derived neurotrophic factor, catechol-O-methyltransferase, corticotropin releasing hormone, dopamine receptors (DR1, DR2, DR3, DR4), monoamine oxidase A, neuropeptide Y, opioid receptor - mu 1, serotonin transporter, and nicotinic receptor genes, among others. Also conducting research related to assessing the health status of deployed warzone veterans, with funding from several sponsors, including DoD and NIH. In addition, as the Geisinger site PI, currently directing a prospective cohort study of chronic hepatitis infection for the CDC. This study is one of the largest chronic hepatitis studies in the US and is being conducted in collaboration with other HMO Research Network sites. In 2014, was awarded the Charles Shepard Science Award for Research Methods, by the CDC, Atlanta, GA, for this hepatitis research. Also studying the health impact of biologic medication usage on rheumatoid arthritis outcomes at Geisinger with funding from private industry. In 2012, was appointed to the Institute of Medicine, National Academy of Sciences, as a Committee Member for the SHAD-II Health Study. This study represents a 50-year follow-up study of Navy veterans exposed to chemical and biological weapon experiments during the Cold War. In addition, recently investigated the health impact of exposure to Hurricane Sandy at the Jersey Shore among trauma-exposed adults in Monmouth County, New Jersey. Finally, served on the Geisinger IRB from 2007-2010 and was the Director of Clinical Research Training at Geisinger from 2007-2014.

**NEW YORK ACADEMY OF MEDICINE** (New York, NY; 8/2001 – 12/2005). As a Senior Scientist with the New York Academy of Medicine (NYAM), conducted research on patient safety, the health impact of the World Trade Center disaster (WTCD) in New York City, and on healthcare service needs in primary care. In addition, also assessed the long-term health impact of Posttraumatic stress disorder (PTSD) among Vietnam War veterans. Finally, provided clinical research and statistical support for the Department of General Pediatrics at Mount Sinai School of Medicine (MSSM). The WTCD project included a prospective epidemiologic study of ~2,400 New York City residents. The quality improvement and patient safety research included a study of 1,500 adults in NY State related to use of healthcare information in medical decision-making. Healthcare provider studies conducted included a survey of 1,400 pediatricians in NJ, NY & CT, a study of 250 mental health professionals who provided mental health services after the WTCD, and a study of several hundred pediatricians designed to assess practice changes/needs in primary care after the WTCD. The veteran studies conducted included a 30-year follow-up of 15,300 veterans exposed to traumatic stressors during the Vietnam War. Combined these projects represented a \$3,000,000+ research portfolio, with funding provided by the National Institute of Mental Health, Robert Wood Johnson Foundation, New York State Office of Technology Assessment, American Red Cross, Mount Sinai School of Medicine, and other sponsors.

**MERCK & COMPANY – Medco Division** (Franklin Lakes, NJ; 12/1998/01/2001). As a Senior Director, led the Outcomes Research Team for Merck-Medco's Clinical Analysis and Outcomes Research Department. Designed and implemented research for pharmaco-economic and pharmaco-epidemiologic studies, based upon existing programs or ad hoc studies required by Merck-Medco's business requirements. Monitored data collection and coordinated analyses assessing the impact of interventions on health, patient safety, economic, and drug use outcomes. Participated in research programs evaluating the company's pharmacy activities and services. Designed and coordinated biostatistical & econometric analyses of health outcomes data, including analysis of large integrated drug and medical claims databases for client- and program-specific studies, utilizing Medco's large-scale (70 million member) Information Warehouse database. Identified areas of opportunity for drug utilization and formulary management by demonstrating cost savings using integrated drug and medical claims and other data. Identified best methods for "risk adjusting" member-, patient- and physician-level data for

severity of illness to ensure methodologically accurate results. Directly assisted in development of Merck-Medco's Chronic Disease Score (CDS) and patent application for this tool, used company-wide for risk adjustment (Patent No. 7,725,327), and Merck-Medco's National Drug Probability Sample (NDPS), used for forecasting national drug utilization trends and for prevalence estimations. Directly supervised a team of 13 epidemiologists, biostatisticians, health economists and SAS programmers to meet these company objectives.

**CATHOLIC HEALTH INITIATIVES (CHI) – Southeast Region** (Louisville, KY; 8/95-11/98). Was Vice President for Outcomes & Clinical Effectiveness Research for CHI – Southeast Region – a 5,000-bed regional health system located in KY, TN, AR, KS, NE, & MO (CHI had 120 facilities in 23 states at the time). Conducted patient outcomes studies for CHI facilities in the areas of coronary artery bypass graft surgery (CABG), angioplasty, myocardial infarction, cancer, critical care, congestive heart failure, psychiatry, and orthopedic surgery. Studies were used to assist the administrative, nursing, and medical staffs at CHI institutions improve the cost-effectiveness and quality of care and to meet regulatory requirements. Also conducted ad hoc studies to evaluate specific clinical interventions, including assessment of different nursing and medical interventions to identify “best practices.” In addition, provided ongoing methodological and statistical consulting related to patient surveys, community interventions, and oversaw CHI's regional quality improvement and Joint Commission accreditation efforts. Finally, was responsible for preparing outcome research reports and publications and for presenting findings to CHI facilities and medical teams. Supervised a team of 4 professionals and 2 administrative assistants.

**UNIVERSITY OF CALIFORNIA** (San Francisco, CA; 6/92-7/95): Was a Senior Research Fellow in the Department of Epidemiology and Biostatistics. Conducted epidemiologic, public health, and health services research related to: (1) HIV/AIDS prevention and control among high-risk populations; (2) Research methods related to evaluating the effectiveness and quality improvement programs; (3) Health promotion and disease prevention; and (4) Psychobiology of traumatic stress exposures and disease onset. HIV/AIDS research findings were published in several medical journals and presented at the 10th International AIDS conference in Tokyo, Japan. Outcomes research, stress medicine, and prevention studies were published in leading medical, psychological, and public health journals. During this time, also provided health care research & consulting services for several ongoing health care clients from original consulting business (see client list below). Outcomes research methods developed during this time were later implemented at CHIs' facilities (see CHI above).

**BOSCARINO CONSULTING, INC.** (Chicago, IL; 10/88-5/92): As a Senior Research Consultant, worked with for-profit and non-profit organizations providing health research, strategic planning, consultation, and social marketing services. Assignments included public health, market assessment, financial feasibility, public relations, and consumer satisfaction research. Specialized in health care delivery research, directing surveys and focus groups among the general public, patients, physicians, employers, and other groups for a range of health care clients. During this time developed and designed the Quality Monitor™ patient satisfaction system for Parkside Associates, one of the most widely used patient surveys in the US (see former client list and hospital marketing & patient satisfaction publications below). The Quality Monitor™ was sold to Press-Ganey, Inc. in 2001. Supervised a team of several research and administrative assistants.

**JERSEY SHORE MEDICAL CENTER** (Neptune, NJ; 1/86-9/88): As Vice President for Marketing, Planning, and Public Relations was responsible for marketing, planning, and business development for Jersey Shore Medical, a 529-bed teaching hospital affiliated with the University of Medicine and Dentistry of New Jersey and Robert Wood Johnson Medical School. Implemented research to aid in long-range planning, increase market share, improve patient satisfaction, and to improve the quality of care. Also wrote the market feasibility section of the hospital's successful CON application for a major renovation project (total \$50,000,000). Finally, developed extensive prevention services (wellness, fitness, and health education), which were integrated with the hospital's acute-care services and marketed through the successful "Jersey Shore Wellness Center" Project (see wellness, hospital marketing, and patient satisfaction publications below). Supervised a team of 10 planning, public relations, and marketing professionals.

**ALLIED RESEARCH ASSOCIATES** (Chicago, IL; 9/81-12/85): Was Executive Vice President for Allied Research, a company that he co-founded in 1981. During this time, conducted health research projects for a wide range health care organizations nationwide (see client list below). Projects included community needs assessment, service feasibility, patient satisfaction, public relations and program evaluation studies. Was responsible for establishing the research operations for the company, which included developing the survey research, questionnaire, data collection, data coding, sampling, data processing, report and results presentation protocols. Also was responsible for the design, trade-marking, and successful sales of several key company

research products, including Allied Research's Market-Scan™ and Site-Plan™ products. (Allied Research was a leading health care research company at the time it was sold to the Gallup Organization in 1987.) Oversaw research, data collection, and administrative staff for the organization, totaling more than 20 personnel.

**MARKET OPINION RESEARCH/CANADIAN OPINION RESEARCH** (Detroit, MI; 7/79-8/81): Was Health Research Director for Market Opinion Research, and its subsidiary, Canadian Opinion Research, Toronto, Canada. In this capacity, directed U.S. and Canadian health and social issue research related to mental health, smoking, cancer, substance abuse, crime, and other study areas. Also, conducted national physician surveys for the American Medical Association. During this time, developed the "small-area" health survey methodology (later trade-marked as Market-Scan™) used successfully at Allied Research Associates (see above). Supervision responsibilities varied, based on the size and duration of research project.

**Peer-Reviewed Publications**

Spradling PR; Xing J; Moorman AM; Holmberg SD; Teshale EH; Rupp L; Gordon SC; Lu M; Boscarino JA; Schmidt MA; Trinacty CM; Xu F. A point system to forecast hepatocellular carcinoma risk before and after treatment among persons with chronic hepatitis C. *Dig Dis Sci*. 2017 (in press).

Lu M, Li J, Rupp LB, Zhou Y, Holmberg SD, Moorman AM, Spradling PR, Teshale EH, Boscarino JA, Daida YG, Schmidt MA, Trudeau S, Gordon SC; for the CHeCS investigators. Changing trends in complications of chronic hepatitis C. *Liver Int*. 2017;00:1–9. doi.org/10.1111/liv.13501

Abara WE, Moorman AM, Zhou Y, Collier MG, Rupp LR, Gordon SC, Schmidt MA, Boscarino JA, Trinacty CM, Holmberg SC. The Predictive Value of International Classification of Disease Codes for Chronic Hepatitis C Virus Infection Surveillance: The Utility and Limitations of Electronic Health Records. *Population Health Management 2017*: 20 (in press).

Lu M, Chacra W, Rabin D, Rupp L, Trudeau S, Li J, Gordon S, for the Chronic Hepatitis Cohort Study (CHeCS) Investigators. Validity of an automated algorithm using diagnosis and procedure codes to identify decompensated cirrhosis using electronic health records (EHR). *Clinical Epidemiology 2017*: 9 (in press).

Lu M, Li J, Haller IV, Romanelli RJ, VanWormer JJ, Rodriguez CV, Raebel MA, Boscarino JA, et al. Primary Biliary Cholangitis (PBC) in US Health Systems: Factors Impacting Prevalence and Treatment *Clinical Gastroenterology and Hepatology*. 15: 2017 (in-press).

Boscarino JA, Moorman AC, Rupp LB, Zhou Y, Lu M, Teshale EH, Gordon SC, Spradling PR, Schmidt MA, Trinacty CM, Zhong Y, Holmberg SD, Holtzman D; Chronic Hepatitis Cohort Study (CheCS) Investigators. Comparison of ICD-9 Codes for Depression and Alcohol Misuse to Survey Instruments Suggests These Codes Should Be Used with Caution. *Dig Dis Sci*. 2017 Sep 6. doi: 10.1007/s10620-017-4714-8. [Epub ahead of print]

Maeng DD, Han, JJ, Fitzpatrick, MH, Boscarino JA. Patterns of health care utilization and cost before and after opioid overdose: findings from 10-year longitudinal health plan claims data. *Subst Abuse Rehabil*. 2017 Aug 16;8:57-67. doi: 10.2147/SAR.S135884. eCollection 2017.

Adams RE, Urosevich TG, Hoffman SN, Kirchner, HL, Hyacinthe JC, Figley CR, Boscarino JJ, Boscarino JA. Social Support, Help-Seeking, and Mental Health Outcomes Among Veterans in Non-VA Facilities: Results from the Veterans' Health Study. *Military Behavioral Health* 5 (4) 2017 doi: org/10.1080/21635781.2017.1333067n (in-press).

Hao J, Maeng DD, Yan X, Stewart WF, Boscarino JA. Assessing Healthcare Utilization and Cost of Care Among Rheumatoid Arthritis Patients: A Comparison of Electronic Medical Records and Claims Data *Journal of Health Care Finance* 2017; 43 (4): Spring: 1-10.

Gordon SC, Trudeau S, Li J, Zhou Y, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale E, Boscarino JA, Daida YG, Schmidt MA, Lu M; CHeCS investigators. Race, Age, and Geography Impact Hepatitis C Genotype Distribution in the United States. *J Clin Gastroenterol*. 2017 Jul 21. doi: 10.1097/MCG.0000000000000872. [Epub ahead of print]

Lu M, Li J, Rupp LB, Zhou Y, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Boscarino JA, Daida YG, Schmidt MA, Trudeau S, Gordon SC. Changing trends in complications of chronic hepatitis C. *Liver Int*. 2017 Jun 21. doi: 10.1111/liv.13501. [Epub ahead of print]

Spradling PR, Xing J, Rupp LB, Moorman AC, Gordon SC, Lu M, Teshale EH, Boscarino JA, Schmidt MA, Daida YG, Holmberg SD; Chronic Hepatitis Cohort Study (CHeCS) Investigators. Uptake of and Factors Associated With Direct-acting Antiviral Therapy Among Patients in the Chronic Hepatitis Cohort Study, 2014 to 2015. *J Clin Gastroenterol*. 2017 Jun 5. doi: 10.1097/MCG.0000000000000857. [Epub ahead of print]

Li J, Gordon SC, Rupp LB, Zhang T, Trudeau S, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Boscarino JA, Daida YG, Schmidt MA, Lu M; CHeCS Investigators. Long-term progression of viral load and serum markers of fibrosis among treated and untreated patients with chronic hepatitis B. *J Gastroenterol Hepatol*. 2017 Jun;32(6):1250-1257. doi: 10.1111/jgh.13667.

Lent MR, Hoffman SN, Kirchner HL, Urosevich TG, Boscarino JJ, Boscarino JA. Attitudes about Future Genetic Testing for Posttraumatic Stress Disorder and Addiction among Community-Based Veterans. *Front Psychiatry*. 2017 May 15;8:76. doi: 10.3389/fpsy.2017.00076. eCollection 2017.

Li J, Gordon SC, Rupp LB, Zhang T, Trudeau S, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Boscarino JA, Daida YG, Schmidt MA, Lu M; for CHeCS Investigators. Long-term progression of viral load and serum markers of fibrosis among treated and untreated patients with chronic hepatitis B. *J Gastroenterol Hepatol*. 2016 Nov 26. doi: 10.1111/jgh.13667. [Epub ahead of print].

Spradling PR, Xing J, Rupp LB, Moorman AC, Gordon SC, Teshale ET, Lu M3, Boscarino JA, Schmidt MA, Trinacty CM, Holmberg SD; Chronic Hepatitis Cohort Study Investigators. Distribution of disease phase, treatment prescription and severe liver disease among 1598 patients with chronic hepatitis B in the Chronic Hepatitis Cohort Study, 2006-2013. *Aliment Pharmacol Ther*. 2016 Nov;44(10):1080-1089. doi: 10.1111/apt.13802. Epub 2016 Sep 19.

Spradling PR, Xing J1, Rupp LB, Moorman AC, Gordon SC, Teshale ET, Lu M1, Boscarino JA, Trinacty CM, Schmidt MA, Holmberg SD1; Chronic Hepatitis Cohort Study (CHeCS) Investigators. Infrequent Clinical Assessment of Chronic Hepatitis B Patients in United States General Healthcare Settings. *Clin Infect Dis*. 2016 Nov 1;63(9):1205-1208. Epub 2016 Aug 2.

Boscarino JA, Kirchner HL, Pitcavage JM, et al. Factors associated with opioid overdose: A 10-year retrospective study of patients in a large integrated healthcare system. *Substance Abuse and Rehabilitation* 2016; 7: 131-141.

Foster MA, Xing J, Moorman AC, Boscarino J, Gordon SC, Lu M, Rupp L, Schmidt MA, Trinacty CM, Xu F, Holmberg SD, Spradling PR. Frequency of and Factors Associated with Receipt of Liver-Related Specialty Care Among Patients with Hepatitis C in the Chronic Hepatitis Cohort Study. *Dig Dis Sci*. 2016 Dec;61(12):3469-3477. Epub 2016 Aug 10.

Moorman AC, Tong X, Spradling PR, Rupp LB, Gordon SC, Lu M, Teshale EH, Boscarino JA, Trinacty CM, Schmidt MA, Xu F, Holmberg SD. Prevalence of Renal Impairment and Associated Conditions Among HCV-Infected Persons in the Chronic Hepatitis Cohort Study (CHeCS). *Dig Dis Sci*. 2016 Jul;61(7):2087-93. doi: 10.1007/s10620-016-4199-x. Epub 2016 May 23.

Teshale EH, Xing J, Moorman A, Holmberg SD, Spradling PR, Gordon SC, Rupp LB, Lu M, Boscarino JA, Trinacty CM, Schmidt MA, Xu F; CHeCS Investigators. Higher all-cause hospitalization among patients with chronic hepatitis C: the Chronic Hepatitis Cohort Study (CHeCS), 2006-2013. *J Viral Hepat*. 2016 Oct;23(10):748-54. doi: 10.1111/jvh.12548. Epub 2016 May 15.

Lu M, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Zhou Y, Boscarino JA, Schmidt MA, Lamerato LE, Trinacty C, Trudeau S, Gordon SC; CHeCS Investigators. Hepatitis C treatment failure is associated with increased risk of hepatocellular carcinoma. *J Viral Hepat*. 2016 Sep;23(9):718-29. doi: 10.1111/jvh.12538.

Lu M, Li J, Zhang T, Rupp LB, Trudeau S, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Schmidt MA, Vijayadeva V, Gordon SC; Chronic Hepatitis Cohort Study Investigators. Serum Biomarkers Indicate Long-term Reduction in Liver Fibrosis in Patients With Sustained Virological Response to Treatment for HCV Infection. *Clin Gastroenterol Hepatol*. 2016 Jul;14(7):1044-1055.e3. doi: 10.1016/j.cgh.2016.01.009.

Davis RL, Gallagher MA, Asgari MM, Eide MJ, Margolis DJ, Macy E, Burmester JK, Selvam N, Boscarino JA, Cromwell LF, Feigelson HS, Kuntz JL, Pawloski PA, Penfold RB, Raebel MA, Sridhar G, Wu A, La Grenade LA, Pacanowski MA, Pinheiro SP. Identification of Stevens-Johnson syndrome and toxic epidermal necrolysis in electronic health record databases. *Pharmacoepidemiol Drug Saf.* 2016 Jul;24(7):684-692.

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Arterburn D, Wood; GC, Theis MK, Westbrook EO, Anau J, Rukstalis M, Boscarino JA, Daar Z, Gerhard GS. Antipsychotic medications and extreme weight gain in two health systems. *Obesity Research in Clinical Practice.* 2016 Jul-Aug;10(4):408-23.

Boscarino JA, Hoffman SN, Pitcavage JM, Urosevich TG, Mental health disorders and treatment seeking among veterans in non-VA facilities: Results and implications from the Veterans' Health Study. *Military Behavioral Health.* 2015 3; (4): 244-254. **PMC4669573**

Maeng DD, Stewart WF, Yan X, Boscarino JA, et al. Use of electronic health records for early detection of high-cost low back pain patients. *Pain Research & Management.* 2015 Sep-Oct;20 (5): 234-240.

Gordon SC, Lamerato LE, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale E, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Oja-Tebbe N, Lu M, for the CHeCS investigators. Prevalence of cirrhosis in hepatitis C patients in the Chronic Hepatitis Cohort Study (CHeCS): a retrospective and prospective observational study. *American Journal of Gastroenterology.* 2015 Aug; 110(8): 1169-1177.

Stewart WF, Yan X, Boscarino JA, Maeng DD, Mardekian J, Sanchez RJ, Von Korff MR. Patterns of health care utilization for low back pain. *J Pain Res.* 2015 Aug 12; 8: 523-535.

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Boscarino JA. Community disasters, psychological trauma, and crisis intervention. *International Journal of Emergency Mental Health.* 2015; 17 (1); 369-371. **PMC4429300**

Moorman AC, Gordon SC, Rupp LB, Spradling PR, Teshale EH, Lu M, Nakasato CC, Boscarino JA, Oja-Tebbe N, Xing J, Ward JW, Holmberg SD. Late diagnosis of hepatitis C virus infection in the Chronic Hepatitis Cohort Study (CHeCS): missed opportunities for intervention. *Hepatology.* 2015 May;61(5):1479-1484.

Boscarino JA, Lu M, Moorman A, Gordon SC, Rupp LB, Spradling P, Teshale E, Schmidt MA, Vijayadeva V, Holmberg SD. Predictors of poor mental and physical health status among patients with chronic hepatitis C infection: the Chronic Hepatitis Cohort Study (CHeCS). *Hepatology.* 2015; 61 (3): 802-811.

Boscarino JA., Adams RE. Assessing community reactions to Ebola Virus Disease and other disasters: Using social psychological research to enhance public health and disaster communications. *International Journal of Emergency Mental Health.* 2015; 17 (1): 234-238. **PMC4382086**

Henkle E, Lu M, Rupp L, Boscarino JA, Vijayadeva V, Schmidt MA, Gordon SC, for the CHeCS Investigators. Hepatitis A and B immunity and vaccination in chronic hepatitis B and C patients in a large United States cohort. *Clin Infect Dis.* 2015; 60 (4): 514-522.

Adams RE, Boscarino JA. Volunteerism and well-being in the context of the World Trade Center terrorist attacks. *International Journal of Emergency Mental Health.* 2015; 17 (1): 274-282. **PMC4358158**

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Teshale E, Lu M, Rupp LB, Holmberg SD, Moorman AC, Spradling P, Vijayadeva V, Boscarino JA, Schmidt MA, Gordon SC; the CHeCS Investigators. APRI and FIB-4 are good predictors of the stage of liver fibrosis in chronic hepatitis B: the Chronic Hepatitis Cohort Study (CHeCS). *J Viral Hepat.* 2014; 21: 917-920.

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Boscarino JA. Current Drug Abuse Among Vietnam and Non-Vietnam Veterans. *American Journal of Drug and Alcohol Abuse* 6: 301-312, 1979.

### **Book Chapters**

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### **Other Publications**

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Steiber SR, Boscarino JA, Jackson ED. Finances Driving CEOs' Strategic Plans. Hospitals 59: 69-71, 1985.

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Bryant BE, Boscarino J. Rising Costs concern Physicians. American Medical News 22: 1-2 (suppl), November, 1979.

### **Recent Teaching and Mentoring Experience**

For academic years 2015-2017, taught Clinical Epidemiology and Research Design classes at Geisinger Clinic, which are designed to train residents, fellows, staff physicians, and other senior staff in conducting clinical

research. This course is taught annually at Geisinger and is designed to provide clinicians with basic biomedical research skills in epidemiology, biostatistics, genetic epidemiology, and in health services research.

Also taught this *Clinical Epidemiology* training course at Geisinger Clinic for the Academic Years 2008-2009, 2009-2010, 2010-2011, 2011-2012 and 2013-2014. To date, over 200 healthcare professionals have taken this training course at Geisinger. This Geisinger training program includes a core curriculum in designing and implementing clinical research and is designed for physicians desiring to acquire skills in clinical research. At the completion of the course, participants have a better understanding of clinical research and have developed an area of research interest.

At the end of this program, participants have the basic skills required to pursue clinical research, research funding, and typically have a draft research paper or a poster ready for submission.

Currently mentoring three physician investigators at Geisinger.

Taught Clinical Research Design and Biostatistics to Senior Fellows at Mt Sinai School of Medicine, 2003-2004 Academic Year;

Taught Survey Research Design to Senior Fellows at Mt Sinai School of Medicine, 2003-2004 Academic Year

Mentored 4 Physicians at Mt Sinai School of Medicine, 2003-2006.

### **Regional, National, International Presentations**

Boscarino, J.A; Hoffman, S; Urosevich, T; Kirchner, H.L; Hyacinthe, J; Boscarino, J.J; Adams, R; Figley, C. Risk and Protective Factors for Suicide among Formerly Deployed U.S. Service Members: Results from the Veteran's Health Study. *Accepted for presentation at the 33<sup>rd</sup> Annual Meeting of the International Society for Traumatic Stress Studies, Chicago, November 9, 2017*

Figley, C; Boscarino, J; Adams, R; Urosevich, T; Hoffman, S; Kirchner, H.L. Female Military Veterans' Risk and Protective Factors in Predicting Overall Functioning: A Biomedical Sample of Outpatients from Geisinger Clinic. *Pending poster and or oral presentation at the 33<sup>rd</sup> Annual Meeting of the International Society for Traumatic Stress Studies, Chicago, November 9, 2017*

Adams, R. et al. Social support and coping resources, mental health problems, and treatment seeking among veterans in non-VA facilities: Results from the Veterans' Health Study, presented at: Military Sociology Session of the 2017 Eastern Sociological Society Annual Meeting, Philadelphia, PA, February 23rd, 2017.

Urosevich, T. et al. Concussive effects (mTBI) in veterans from the Iraq and Afghanistan conflict era in relation to other physical and psychological health problems. Presented at: Annual Meeting of the American Optometric Association, Washington, DC, June 22, 2017.

Boscarino, J.A, et al. Alcohol Misuse among Formerly Deployed U.S. Service Members seen Non-VA Facilities: Results from the Veterans' Cohort Study. Presented at: the Health Care Systems Research Conference, March 21, 2017, San Diego, CA.

Hyacinthe, J. et al. Post-Deployment Mental Health Status and Obesity among a Multi-Generational Sample of U.S. Veterans. Presented at: the Health Care Systems Research Conference, March 21, 2017, San Diego, CA.

Figley, C., et al., Is Living in Rural Areas a Risk Factor for Veteran's Mental Health Status? Presented at the American Psychological Association Annual Convention, Washington, D.C, August 3, 2017.

Moorman A, Xing X, Rupp L, Gordon S, Boscarino J, Daida Y, Lu M, Schmidt M, Holmberg S; for the CHcS Investigators. Hepatitis B testing in a large cohort of U.S. hepatitis C (HCV)-infected patients. Presentation at the 52nd meeting of the European Association for the Study of the Liver: International Liver Conference 2017, Amsterdam, April 19-23, 2017.

Hofmeister MG, Xing J, Moorman AC, et al. Health outcomes among patients infected with hepatitis C in the Chronic Hepatitis Cohort Study. To be present at: *Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington DC, October 20-24, 2017.*

Bixler D, Zhong Y, Ly KN, et al. Mortality Associated with Chronic Hepatitis B (CHB): The Chronic Hepatitis Cohort Study (CHeCS). To be present at: *Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington DC, October 20-24, 2017.*

Li J, Zhang T, Gordon SC, et al. Impact of Sustained Virological Response on Incidence of Type 2 Diabetes in Hepatitis C Patients. To be present at: *Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington DC, October 20-24, 2017.*

Li J, Gordon SC, Rupp LB, et al. Does Hepatitis C eradication lead to improved glucose metabolism, renal and cardiovascular outcomes in diabetic patients? To be present at: *Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington DC, October 20-24, 2017.*

Lu, M, Rupp LB, Boscarino JA, et al. Prevalence of primary biliary cholangitis (PBC) in large US healthcare systems: Case ascertainment using electronic health records. Presented at: The 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 11-15, 2016.

Boscarino JA, Hoffman SN, Urosevich TG, Kirchner HL, et al. Mental Health Disorders and Treatment seeking among Formerly Deployed National Guard and Reserve Service Members. Presented at: The 2016 AMSUS Federal Health Conference, National Harbor, MD, November 29 to December 2, 2016.

Lu M, Gordon SC, Li J, Boscarino et al. Hepatitis C complications: prevalence and disparities in a large US cohort 2006-2014. To be presented at: The 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 11-15, 2016.

Teshale EH, Zhong Y, Moorman AC, Boscarino et al. Alcohol use disorder among chronic hepatitis C patients: prevalence and treatment outcome, CHeCS, 2006-2013. To be presented at: The 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 11-15, 2016.

Spradling PR, Xing J, Rupp LB, Boscarino et al. Uptake of and factors associated with direct-acting antiviral therapy among patients infected with hepatitis C virus in the Chronic Hepatitis Cohort Study, 2014-2015. To be presented at: The 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 11-15, 2016.

Spradling PR, Xing J, Rupp LB, Boscarino et al. Preliminary clinical outcome data among patients with hepatitis C virus infection receiving direct-acting antiviral therapy in the Chronic Hepatitis Cohort Study, 2014-2015 To be presented at: The 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 11-15, 2016.

Boscarino JA, Hoffman SN, Han JJ, Chu X, Association of OPRM1 Polymorphisms with Opioid Dependence, Alcohol Dependence, Cocaine Use and Amphetamine/Methamphetamine Use among Chronic Pain Patients on Opioid Therapy. Presented at: 22nd Annual Meeting of the Health Care Services Research Network, Atlanta, GA, April, 2016.

Li J, Gordon S, Rupp L, Zhang T, Boscarino J, Trinacty C, Schmidt M, Lu M. for the CHeCS Investigators. Long-term fibrosis and viral level progression among treated and untreated patients with chronic hepatitis B. Poster presentation at the 51<sup>st</sup> meeting of the European Association for the Study of the Liver: The International Liver Conference 2016, Barcelona, Spain, April 13-17, 2016.

Boscarino JA, Kirchner HL, Pitcavage JM, Nadipelli V, Ronquest N, Fitzpatrick MH, Han JJ. A 10-year Retrospective Study of Opioid Overdoses among Patients in a Large Integrated Healthcare System. Presented at: The International Conference on Opioids, Boston, MA, June, 2016.

Boscarino JA, Hoffman SN, Pitcavage JM, Urosevich TG. Mental Health Disorders and Treatment seeking among Veterans in Non-VA Facilities: Results and Implications from the Veterans' Health Study Presented at: International Society of Traumatic Stress Studies, New Orleans, LA, November 5-7, 2015.

Boscarino J, Rupp L, Moorman A, Zhou, Y, Lu M, Gordon S, Spradling P, Teshale E, Schmidt M, Trinacty C, Xu F, Holmberg S, Holtzman D. Depression and alcohol misuse among patients with chronic hepatitis: comparison

of PHQ-8 and Audit-C scales vs. ICD-I codes. 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Holmberg SD, Moorman AC, Tong X, Spradling PR, Teshale EH, Gordon SC, Boscarino JA, Vijayadeva V, Schmidt MA, Rupp L, Lu M, Xu F, for the CHeCS Investigators. Renal disease prevalence and association with hepatic fibrosis measured by FIB4 score among US patients with chronic hepatitis C virus (HCV) infection in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26. J Hepatol 2015; 62: S597-598.

Lu M, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Gordon SC, for the CHeCS investigators. The effect of HCV antiviral therapy on fibrosis progression. 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26. J Hepatol 2015; 62: S622.

Lu M, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Gordon SC, for the CHeCS investigators. Effect of hepatitis C antiviral therapy on all-cause mortality and development of cancer in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26. J Hepatol 2015; 62: S618-S619.

Gordon SC, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Lu M, for the CHeCS investigators. Prevalence and characteristics of hepatitis C genotypes in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26. J Hepatol 2015; 62: S598-599

Holmberg S, Ly K; Xing J, Moorman A. Continued Rising Mortality from Hepatitis C Virus in the United States, 2003-2013. IDWeek 2015 (A joint meeting of IDSA, SHEA, HIVMA, and PIDS), San Diego, October 7-11, 2015.

Teshale E, Xing J, Moorman A, Holmberg S, Gordon S, Rupp L, Lu M, Spradling P, Boscarino J, Trinacty C, Schmidt M, Xu F, for the CHeCS Investigators. Effect of HCV treatment outcome on hospitalization rate: Chronic Hepatitis Cohort Study (CHeCS). (Oral) 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Gordon S, Rupp L, Boscarino J, Schmidt M, Trinacty C, Lamerato L, Nancy Oja-Tebbe, Lu M for the CHeCS Investigators. HBV-related cirrhosis in the Chronic Hepatitis Cohort Study (CHeCS). 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Xu F, Xing J, Moorman A, Rupp L, Stuart C. Gordon, Lu M, Teshale E, Spradling P, Boscarino J, Trinacty C, Schmidt M, Holmberg S, for the CHeCS Investigators. Cause of death in HCV patients who achieved sustained virologic response: Chronic Hepatitis Cohort Study (CHeCS), 2006-2012. 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Moorman A, Xing J, Zhou Y, Rupp L, Schmidt M, Boscarino J, Trinacty C, Holmberg S. The Utility and Limitations of Electronic Medical Records: Predictive Values of ICD9 Codes indicating Chronic HCV Infection. 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Xu F, Tong X, Moorman A, Gordon S, Rupp L, Lu M, Spradling P, Teshale E, Boscarino J, Schmidt M, Trinacty C, Holmberg S, for the CHeCS Investigators. Liver fibrosis stage and comorbidities in persons with diagnosed hepatitis C infection, Chronic Hepatitis Cohort Study (CHeCS). 66th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), San Francisco, November 13-17, 2015.

Boscarino JA, Hoffman SN, Han JJ, Chu H. Association of OPRM1 Polymorphisms with Opioid Dependence, Alcohol Dependence, Cocaine Use and Amphetamine/Methamphetamine Use among Chronic Pain Patients on Opioid Therapy. Presented at: Annual Pharmacogenomics Research Network (PGRN) Scientific Meeting. University Park, PA, April, 2015.

Holmberg SD, Moorman AC, Tong X, Spradling PR, Teshale EH, Gordon SC, Boscarino JA, Vijayadeva V, Schmidt MA, Rupp L, Lu M, Xu F, for the CHeCS Investigators. Renal disease prevalence and association with

hepatic fibrosis measured by FIB4 score among US patients with chronic hepatitis C virus (HCV) infection in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26.

Lu M, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Gordon SC, for the CHeCS investigators. The effect of HCV antiviral therapy on fibrosis progression. 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26.

Lu M, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Gordon SC, for the CHeCS investigators. Effect of hepatitis C antiviral therapy on all-cause mortality and development of cancer in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26.

Gordon SC, Li J, Rupp LB, Holmberg SD, Moorman AC, Spradling PR, Teshale EH, Xu F, Boscarino JA, Vijayadeva V, Schmidt MA, Lamerato LE, Lu M, for the CHeCS investigators. Prevalence and characteristics of hepatitis C genotypes in the Chronic Hepatitis Cohort Study (CHeCS). 50th meeting of the European Association for the Study of the Liver: The International Liver Conference 2015, Vienna, Austria, April 22- 26.

Moorman A, Xu F, Tong X, Gordon S, Rupp L, Lu M, Spradling P, Teshale E, Boscarino J, Vijayadeva V, Schmidt M, Holmberg S, for the CHeCS Investigators. Mortality and progression to decompensated cirrhosis in chronic hepatitis C (CHC) patients with liver biopsy confirmed fibrosis in the Chronic Hepatitis Cohort Study (CHeCS). (oral) Presented at: the 65th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 7-11, 2014

Teshale E, Xing J, Holmberg S, Moorman A, Gordon S, Rupp L, Lu M, Spradling P, Boscarino J, Vijayadeva V, Schmidt M, Xu F, for the CHeCS Investigators. Increased all-cause hospitalization among hepatitis C virus (HCV)-infected persons: the Chronic Hepatitis Cohort Study (CHeCS), 2006-2010. Presented at: the 65th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 7-11, 2014

Xu F, Xing J, Moorman A, Gordon S, Rupp L, Lu M, Spradling P, Teshale E, Boscarino J, Vijayadeva V, Schmidt M, Holmberg S, for the CHeCS Investigators. FIB4 score and gender predict the incidence of hepatocellular carcinoma (HCC) among patients with chronic hepatitis C virus (HCV) infection: Chronic Hepatitis Cohort Study (CHeCS). Presented at: the 65th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 7-11, 2014

Xu F, Ward J, Gordon S, Holmberg S, for the CHeCS Investigators. Patients meeting 'highest' or 'high' priority for HCV treatment in the Chronic Hepatitis Cohort Study (CHeCS). Presented at: the 65th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Boston, November 7-11, 2014

Boscarino, JA, Lu M, Gordon SC, Rupp LB, Schmidt MA, Vijayadeva V. Predictors of Depression and Poor Physical Health among Patients with Chronic Hepatitis C Infection: Results from the Chronic Hepatitis Cohort Study. To be presented at: 20th Annual HMO Research Network Conference, Phoenix, AZ, April, 2014

Xu F, Li J, Zhang T, Rupp L, Liu M, Moorman A, Gordon S, Spradling R, Teshale E, Boscarino J, Vijayadeva V, Schmidt M, and Holmberg S. Probabilities of survival, liver transplantation, and liver complications by hepatic fibrosis stage among patients with chronic hepatitis C virus (HCV) infection from the Chronic Hepatitis Cohort Study (CHeCS). Presented at: the 64th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington, November 1-5, 2013.

Moorman A, Xing J, Rupp L, Xu F, Gordon S, Lu M, Spradling P, Teshale E, Boscarino J, Vijayadeva V, Schmidt M, Holmberg S. Presence of advanced liver disease concurrent with initial diagnosis of hepatitis C virus (HCV) infection among patients in the Chronic Hepatitis Cohort Study (CHeCS): missed opportunities for intervention. Presented at: the 64th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington, November 1-5, 2013.

Teshale E, Xing J, Moorman A, Rupp L, Gordon S, Boscarino J, Schmidt M, Vijayadeva V, Spradling P, Holmberg S, Xu F. Trends in hospital utilization among chronic hepatitis C patients in the US; the Chronic

Hepatitis Cohort Study (CHeCS) 2006-2010. Presented at: the 64th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington, November 1-5, 2013.

Gordon S, Lamerato L, Rupp L, Boscarino J, Vijayadeva V, Schmidt M, Nerenz D, Oja-Tebbe N, Lu M. Characteristics of HCV patients not currently on antiviral therapy in a US cohort. Presented at: the 64th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington, November 1-5, 2013.

Boscarino, JA, Kirchner, HL, Hoffman, SN, Erlich PM. Predicting PTSD Using the New York Risk Score with Genetic Risk Information. Presented at: 29th Annual Meeting of the International Society of Traumatic Stress Studies, Philadelphia, PA, November, 2013.

Gerbi G, Xing J, Rupp L, Gordon S, Boscarino J, Schmidt M, Vijayadeva V, Moorman A, Holmberg S, Xu F. Hospitalization among persons with chronic hepatitis C virus infection in the United States: the Chronic Hepatitis Cohort Study (CHeCS), 2006-2010. Presented at: ID Week 2013 (A joint meeting of IDSA, SHEA, HIVMA, and PIDS), San Francisco, October 2-6, 2013.

Adams RE, Boscarino JA. Volunteerism and well-being within the context of a the World Trade Center terrorist attacks. Presented at: The 63rd Society for Study of Social Problems (SSSP) Annual Meeting, New York, NY, August, 2013.

Mei Lu, Jia Li, Lora B Rupp, Lois E Lamerato, Vinutha Vijayadeva, Joseph Boscarino, Mark A. Schmidt, David Nerenz, Stuart C Gordon. Pragmatic and adaptive methods of electronic medical record cohort Identification for comparative effectiveness research. Presented at: 19th Annual HMO Research Network Conference, San Francisco, CA April, 2013.

Vinutha Vijayadeva, Cynthia Nakasato, Stuart C. Gordon, Lorelee B. Rupp, Mei Lu, Emily Henkle, Joseph A. Boscarino. Chronic Hepatitis B Testing in US-Born and Foreign-Born Asia Pacific Islanders of Kaiser Permanente, Hawai'i. Presented at: 19th Annual HMO Research Network Conference, San Francisco, CA April, 2013.

Vinutha Vijayadeva, Cynthia Nakasato, Stuart C. Gordon, Lorelee B. Rupp, Mei Lu, Emily Henkle, Joseph A. Boscarino. Demographic Differences between US-Born and Foreign-Born Asia Pacific Islanders among the Hepatitis B Patients of Kaiser, Hawai'i. Presented at: 19th Annual HMO Research Network Conference, San Francisco, CA April, 2013.

Mia A. Gallagher, Maryam M. Asgari, Joseph A. Boscarino, James K. Burmester, Lee F. Cromwell, Melody J. Eide, Heather S. Feigelson, Jennifer L. Kuntz, Lois A. La Grenade, Eric M. Macy, David J. Margolis, Michael A. Pacanowski, Pamala A. Pawloski, Robert B. Penfold, Simone P. Pinheiro, Marsha A. Raebel, Laura A. Schild, Nandini Selvam, David Smith, Ann Chen Wu, Robert L. Davis. Identification of Severe Cutaneous Reactions and Genomic Risk Factors in Users of Antiepileptic Drugs. Presented at: 19th Annual HMO Research Network Conference, San Francisco, CA April, 2013.

Gordon SC, Lamerato LE, Rupp LB, Holmberg SD, Moorman AC, Spradling P, Teshale E, Nakasato C, Boscarino, Henkle E, Nerenz D, Oja-Tebbe N, Lu M. Hepatitis B therapy and incidence of hepatocellular carcinoma in a U.S. population (ID # 1420755). Presented at the 2012 AASLD Annual Meeting, Boston, MA.

Lu M, Lamerato LE, Rupp LB, Holmberg SD, Moorman AC, Spradling P, Teshale E, Nakasato C, Boscarino J, Henkle E, Nerenz D, Gordon SC. Noninvasive serum markers to stage fibrosis in patients with chronic hepatitis B infection (ID # 1425816). Presented at the 2012 AASLD Annual Meeting, Boston, MA, November, 2012.

Lu M, Lamerato LE, Rupp LB, Holmberg SD, Moorman AC, Spradling P, Teshale E, Nakasato C, Boscarino J, Henkle E, Nerenz D, Gordon SC. Optimal noninvasive markers for fibrosis stage in chronic hepatitis C (ID # 1425876). Presented at the 2012 AASLD Annual Meeting, Boston, MA, November, 2012.

Henkle E, Moorman A, Lu M, Gordon SC, Nakasato C, Boscarino JA, Schmidt M, Teshale EH, Holmberg S, Spradling PR, Naleway A. Hepatitis A and B Vaccination and Immunity in a Cohort of Chronically-Infected Hepatitis B and C Patients in Four Health Care Organizations. Presented at: ID Week 2012. San Diego, CA, October 17-21, 2012.

Wood GC, Arterburn D, Westbrook E, Theis K, Boscarino JA, Ruskstalis M, Still CD, Gerhard GS. Electronic health record phenotyping to define rate of extreme weight gain associated with the use of 2nd/3rd generation antipsychotic medications. Presentation at: 18th Annual HMO Research Network Conference, Seattle, WA April/May, 2012.

Vijayadeva V, Nakasato C, Spradling PR, Gordon S, Rupp L, Lu M, Henkle E, Boscarino J. Demographic Differences between US-Born and Foreign-Born Asia Pacific Islanders among the Hepatitis B Patients of Kaiser Permanente, Hawai'i. Presentation at: 18<sup>th</sup> Annual HMO Research Network Conference, Seattle, WA April/May, 2012.

Vijayadeva V, Nakasato C, Spradling PR, Gordon S, Rupp L, Lu M, Henkle E, Boscarino J. Chronic Hepatitis B Testing in US-Born and Foreign-Born Asia Pacific Islanders of Kaiser Permanente, Hawai'i. Presentation at: 18<sup>th</sup> Annual HMO Research Network Conference, Seattle, WA April/May, 2012.

Boscarino JA, Hoffman SN, Rukstalis MR, Han JJ, Erlich PM, Stewart WF. Generalized Anxiety and Depression among Chronic Pain Patients on Opioid Therapy are Associated with Higher Pain Impairment, Increased Service Utilization and Poorer Health Status. Presentation at: 18<sup>th</sup> Annual HMO Research Network Conference, Seattle, WA April/May, 2012.

Adams RE, Boscarino JA. Differences in Mental Health Outcomes by Race and Ethnicity following a Community Disaster Revisited. Presented at: Society for the Study of Social Problems (SSSP) Annual Meeting, Denver, CO, August 16-18, 2012.

Boscarino JA, Erlich PM, Hoffman SN, Rukstalis MR, Han JJ, Stewart WF. Risk Factors for Prescription Opioid-use Disorders in a Large Healthcare System. Presented at The 8<sup>th</sup> Annual Conference of the Society of Addiction Medicine, New York, NY, February 4, 2012.

Spradling PR, Rupp L, Moorman AC, Lu M, Teshale E, Gordon S, Nakasato C, Boscarino J, Henkle E, Nerenz D, Holmberg SD, and the CHeCS Investigators. Predictors of Testing for and Infection with Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV) in Four United States Health Care Organizations (HCOs), 2006-2008. Presented at the 49th Annual Meeting of the Infectious Diseases Society of America (IDSA) Boston, MA, October, 2011.

Boscarino JA, Erlich PM, Hoffman SN, Rukstalis MR, Han JJ, Stewart WF. Polymorphism in OPRM1 Genetic Locus is Associated with Opioid Dependence, Alcohol Dependence, Cocaine Use and Amphetamine Use among Chronic Pain Patients. Presented at NIDA/NIAAA Satellite Meeting on the Genetics and Epigenetics of Substance Abuse, World Congress on Psychiatric Genetics, Washington, DC, September 9, 2011.

Boscarino JA, Hoffman SN, Kirchner HL, Sartorius J, Figley CR. Development and Validation of a New PTSD Prediction Tool for Use in Clinical Practice. Presented at the Anxiety Disorders Association of America Annual Meeting, New Orleans, LA, March 26, 2011.

Boscarino JA, Erlich PM, Hoffman SN, Rukstalis M, Stewart WF. Association of FKBP5, COMT and CHRNA5 Polymorphisms among Outpatients at Risk for Posttraumatic Stress Disorder. Presented at the Anxiety Disorders Association of America Annual Meeting, New Orleans, LA, March 25, 2010.

Holmberg SD, Spradling PR, Moorman AC, Rupp LB, Lu M, Teshale EH, Nerenz DR, Boscarino JA, Nakasato C, Naleway AL, Ward JW, Gordon SC, and the CHeCS Investigators. The Chronic Hepatitis Cohort Study (CHeCS): Methods and Population Characteristics. Presented at: The 48<sup>th</sup> Annual Meeting of the Infectious Disease Society of America, Vancouver, British Columbia, Canada, October, 2010.

Adams RE, Boscarino JA. Does Perievent Panic Attack Predict later Depression? A Longitudinal Study of the Terrorist Attacks on the World Trade Center in New York City. Presented at: The 138<sup>th</sup> Annual Meeting of the American Public Health Association, Denver, CO, November, 2010.

Adams RE, Boscarino JA. "Exposure to Community Trauma, Perievent Panic Attacks, and Psychological Well-being: A Longitudinal Study." Presented at: The 137<sup>th</sup> Annual Meeting of the American Public Health Association, Philadelphia, PA, November, 2009.

Boscarino JA, Hoffman S, Gerhard G, et al. "Genetic and environmental risk factors for prescription opioid dependence in healthcare settings." Presented at: The 15<sup>th</sup> Annual HMO Research Network Conference, Danville, PA, April, 2009.

Boscarino JA, "A Prospective Study of PTSD and Early-age Heart Disease Mortality among Vietnam Veterans." Presented at: The 24<sup>th</sup> Annual Meetings of the International Society of Traumatic Stress Studies, Chicago, IL, November, 2008.

Boscarino JA, "A Prospective Study of PTSD and Cardiovascular Mortality among US Veterans." Presented at: The 66<sup>th</sup> Annual Meetings of the American Psychosomatic Society, Baltimore, MD, March, 2008.

Boscarino JA, "The Mortality Impact of Combat Stress Injuries 30 Years after Exposure." Presented at: The 23<sup>rd</sup> Annual Meetings of the International Society of Traumatic Stress, Baltimore, MD, November, 2007.

Trasande L, Boscarino J, Graber N, Falk R, Schechter C, Galvez M, Dunkel G, Geslani J, Moline J, Kaplan-Liss E, Miller RK, Korfmacher K, Carpenter D, Forman J, Balk SJ, Laraque D, Frumkin H, Landrigan P. "Could Children's Environmental Health Clinics be Cost-Effective?" Presented at: The 134<sup>th</sup> Annual Meetings of the American Public Health Association, Boston, MA, November, 2006.

Boscarino JA, "The Psychobiology of Posttraumatic Stress Disorder: Findings and Implications for the Onset and Treatment of Disease." The 45<sup>th</sup> Annual New Clinical Drug Evaluation Unit (NCDEU) Meeting, Sponsored by the National Institute of Mental Health, Boca Raton, FL, June, 2005.

Wallach EJ, Iazzetti L, Bowlby DA, Greig F, Patet A, Hyman S, Boscarino JA, Rapaport R. "Sustained Improvement in Hemoglobin A1C During Long-Term Treatment with Continuous Subcutaneous Insulin Infusion (CSII) in Pediatric Patients." Presented at: the 65<sup>th</sup> Annual Meetings of the American Diabetes Association, San Diego, June, 2005.

Steinbaum DP, Englander L, Balija T, A Tzavaras, Boscarino JA, Laraque D. "Use of a Psychosocial Screen to Detect Children with Post Traumatic Stress Disorder: Does Mother Know Best?" Presented at: The Eastern Society for Pediatric Research, Old Greenwich CT, March, 2005.

Boscarino JA, Figley CR, Adams RE. "The Effectiveness of Employer-sponsored Crisis Interventions after a Major Disaster." Presented at: 8th World Congress on Stress, Coping and Trauma, Baltimore, MD, 2005, February 2005.

Adams RE, Boscarino JA. "Effects of the World Trade Center Disaster on Alcohol Use and Well-being: A Longitudinal Study." American Public Health Association Annual Meeting, Washington, DC, November 2004.

Adams RE, Boscarino JA. "Provider Profiling in New York State and Patient Use of Information about Healthcare Quality." Presented at: Academy Health Annual Research Meeting, San Diego, CA, June 2004.

Boscarino JA. "Exposure to Psychological Trauma and Cardiovascular Disease: Implications from Clinical and Epidemiologic Research." Presented at: American Psychosomatic Society, Orlando, FL, March 2004.

Boscarino JA, Adams RA. "Mental Health and Psychotropic Medication Use in New York 1-Year after Terrorist Attacks." Presented at: International Society for Traumatic Stress Studies Annual Meeting, Chicago, IL, November 2003.

Adams RE, Boscarino JA. "Stress and Well-Being in the Aftermath of the World Trade Center Attack: The Continuing Effects of a Community-Wide Disaster." Presented at: Society for the Study of Social Problems Annual Meeting, Atlanta, GA, November, 2003.

Boscarino JA, Adams RE. "Reported Medical Errors in New York: Implications for Patient Safety and Quality Improvement." Presented at: Fourteenth Annual Symposium on Health Services Research in New York, New York Hospital Foundation and United Hospital Trust, New York, NY, November 2003.

Boscarino JA. "Fear of Terrorism in New York: The Psychological Impact of the Terrorist Attacks." Presented to: The New York Chapter of the American Association of Public Opinion Research, New York, NY, October 2003.

Boscarino JA. "The Association between Posttraumatic Stress Disorder and Physical Illness: Results and Implications from Clinical and Epidemiologic Studies." Presented at: 34<sup>th</sup> Annual Conference of the International Society of Psychoneuroendocrinology, Rockefeller University, New York, NY, September 2003.

Boscarino JA, Figley CR, Adams RE. "Fear of Terrorism in New York on the Brink of War." Presented at: American College of Epidemiology, Chicago, Illinois, September 2003.

Boscarino JA, Figley CR. "Iatrogenic Effects of Studying Persons recently exposed to Psychological Trauma." Presented at: American Psychological Association Annual Meeting, Toronto, Canada, August 2003.

Boscarino JA, Adams RE. "Mental Health Treatment in New York 1-Year after the Terrorist Attacks." Presented at: 20<sup>th</sup> Annual Meeting of Academy Health, Nashville, TN, June 2003.

Adams RE and Boscarino JA. "Patient Perceptions of Quality Care and Provider Profiling in New York State." Presented at: 20<sup>th</sup> Annual Meeting of Academy Health, Nashville, TN, June 2003.

Boscarino JA, Figley CR, Adams RE. "Iatrogenic Effects of Interviewing Patients recently exposed to Psychological Trauma." Presented at: Society for Epidemiologic Research, Atlanta, Georgia, June 2003.

Boscarino JA, Figley CR, Adams RE. "Fear of Terrorism in NY and Its Psychological Impact 1-Year after the September 11 Attacks." Presented at: Society for Epidemiologic Research, Atlanta, Georgia, June 2003.

Boscarino JA. "Post-Traumatic Stress Disorder and Autoimmune Disease among Vietnam Veterans." Presented at: American Psychosomatic Society, Phoenix, Arizona, March, 2003.

Boscarino JA, Galea S, Ahern J, Resnick H, Vlahov D. "Psychiatric Medication use and Mental Health Utilization after the September 11<sup>th</sup> Terrorist Attacks." Presented at: American Public Health Association, Philadelphia, PA, November, 2002.

Boscarino JA, Galea S, Ahern J, Resnick H, Vlahov D. "Access to Psychiatric Services in New York City following the September 11<sup>th</sup> Terrorist Attacks." Presented at: American College of Epidemiology, Albuquerque, New Mexico, September, 2002.

Boscarino JA, Galea S, Ahern J, Resnick H, Vlahov D. "Mental Health Utilization in Manhattan following the September 11<sup>th</sup> Terrorist Attacks." Presented at: Society for Epidemiologic Research, Palm Desert, California, June 2002.

Galea S, Ahern J, Boscarino JA, Resnick H, Vlahov D. "Increased use of cigarettes, alcohol, and marijuana among Manhattan residents after the September 11<sup>th</sup> terrorists attacks" Presented at: Society for Epidemiologic Research, Palm Desert, California, June 2002.

Boscarino JA, Chang J. "The Impact of Race and Socioeconomic Status on Survival 7 Years after Diagnosis of Breast Cancer: The Importance of Assessing Racial and Economic Disparities." Presented at: The Centers for Disease Control's 2001 Cancer Conference, Atlanta, GA, September, 2001.

McGuigan KA, Sokol M, Yao J, Haynes J, Qian Q, Boscarino J, Epstein R. "The Value of Compliance: Evidence from Two Patient Cohorts." Presented at: The Sixth Annual Conference of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Arlington, VA, May, 2001.

Fulop G, Anig E, Brookler R, Luo S., Boscarino J. "Antidepressant Duration and Cost: Acute and Continuation Phases." Presented at: American College of Neuropsychopharmacology, Puerto Rico, December, 2000.

Boscarino JA, Zhao Z, Andrews KW, Sokol MC, Yao J, McGuigan KA, Gutierrez B, Refowitz R. "Identifying Factors associated with High and Low Cost Asthmatics: Opportunities for Disease Management using Automatic Interaction Detection." Presented at: The Fifth Annual Conference of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Arlington, VA, May, 2000.

Zhao Z, Boscarino JA, Deverka PA, Epstein RS, Wang Chin J. "Predicting Drug Spending: Update and Evaluation of a Revised Chronic Disease Score." Presented at: The Fifth Annual Conference of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Arlington, VA , May, 2000.

Andrews K, Boscarino J, Sokol M, Yao J, Powell-Threets K, Maldonato D, Fulop G, Refowitz R. "Potential Cost Associated with Asthma Drug Therapies using Integrated Drug and Medical Claims Data." Presented at: Annual European Conference of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Edinburgh, Scotland, November, 1999.

Boscarino JA, Chang J. "Myocardial Infraction Outcomes at 5 Facilities: Implications for Quality Improvement." Presented at: American Public Health Association, 126th Annual Meeting, Medical Care Division, Washington, DC, November, 1998.

Boscarino JA, Chang J. "Prostate Cancer Survival 6 Years after Diagnosis and Community Socioeconomic Status." Presented at: Association for Health Services Research, 15th Annual Meeting, Washington, DC , June, 1998.

Boscarino JA, Chang J. "Open Heart Surgery Survival is Associated with Socioeconomic Status." Presented at: The Society for Epidemiologic Research, 31th Annual Meeting, Chicago, 1998.

Boscarino JA, Chang J. "Analysis of Post-Operative Coronary Artery Bypass Graft Surgery Complications a Three Tertiary Care Facilities: Implications for Improving Surgical Outcomes." Presented at: American Public Health Association, 125th Annual Meeting, Medical Care Division, Indianapolis, November, 1997.

Boscarino JA, Chang J. "Assessing the Effectiveness of a New Respiratory Therapy Protocol for CABG Patients: Promises and Complexities of Outcomes Research." Presented at: Association for Health Services Research, 14th Annual Meeting, Chicago, June, 1997.

Boscarino JA, Chang J. "Outcomes Following Coronary Artery Bypass Graft Surgery and Socioeconomic Status." Presented at: The Society for Epidemiologic Research, 30th Annual Meeting, Edmonton, Alberta, Canada, June 1997.

Boscarino JA, Chang J. "Electrocardiographic Abnormalities among Men 20 Years after Severe Stress," Presented at: The Society for Behavioral Medicine, 18th Annual Meeting, San Francisco, April, 1997.

Boscarino JA. "Immune Functioning among Vietnam Veterans 20 Years after Combat: Implications for Gulf War Syndrome." Presented at: The Society for Epidemiologic Research, 29th Annual Meeting, Boston, June, 1996.

Boscarino JA. "Post-Traumatic Stress Disorder (PTSD) and Lower Plasma Cortisol Levels Among A National Sample of Vietnam Veterans." Presented at: American Public Health Association, 122nd Annual Meeting, Washington, DC, November, 1994.

Boscarino JA, Avins AL, Woods WJ, Lindan CP, Hudes ES, Clark WW. "Alcohol-Related Factors Associated with HIV Infection Among Alcoholics Entering Treatment." Presented at: Tenth International AIDS Conference, Yokohama, Japan, 1994.

Avins AL, Woods WJ, Lindan CP, Boscarino JA, Hudes ES, Clark WW, Hulley SB. "Changes in High-Risk Behaviors among Heterosexuals Following Alcohol and Drug Treatment." Presented at: Tenth International AIDS Conference, Yokohama, Japan, 1994.

Boscarino JA. "Forecasting and Improving Quality Patient Care." Presented at: Foundation of the American College of Health Care Executives' 32nd Annual Congress, Chicago, 1989.

Boscarino JA. "Using Community Surveys to Mitigate the Impact of Negative Publicity and Prevent a Public Relations Crisis." Presented at: National Health Care Marketing Symposium, Orlando, 1989.

J.A. Boscarino. The Hospital Rating Index: A New Way to Assess Public's Ratings of Hospitals." Presented at: American Marketing Association's Marketing Innovations Conference, Chicago, 1988.

Boscarino JA. "Analyzing Health Care Market Data and Effectively using the Results." Presented at: American Marketing Association's Marketing Fundamentals Conference, Baltimore and Portland, 1988.

Boscarino JA. "Market-Based Feasibility Modeling: A New Interactive Management Tool." Presented at: 8th Annual Symposium for Health Care Marketing, New Orleans, 1988.

Boscarino JA. "Predicting Patient Demands for Hospital Services." Presented at: Foundation of the American College of Health Care Executives' 30th Annual Congress, Chicago, 1987.

Boscarino JA. "Collecting Strategic Market Data on the Employer Market." Presented at: 7th Annual Symposium for Health Care Marketing, San Diego, 1987.

Boscarino JA. "Marketing Health Care Services to Women: Successes and Failures." Presented at: American Hospital Association's Women's Health Services Conference, Long Beach, 1987.

Boscarino JA. "Gathering Strategic Market Data on Area Medical Staff and Using it Effectively." 2nd National Forum for Medical Staff Marketing, Scottsdale, 1986.

Boscarino JA and Steiber SR. "Emergency Services: New Market Opportunities for Hospitals?" Presented at: National Health Care Marketing Symposium, Kansas City, 1985.

Boscarino JA. "Identifying Strategic Market Positions for New Health Care Services." 4th Annual Symposium for Health Care Marketing, Fort Lauderdale, 1984.

Boscarino JA. "Conducting Market Research for Mental Health Services." Presented at: Aspen Systems' Marketing Mental Health and EAP Services Seminar, Aspen, 1983.

Boscarino JA and Steiber SR. "Hospital Shopping and Consumer Choice." Presented at: 2th Annual Symposium for Health Care Marketing, New Orleans, 1982.

Boscarino JA and Figley CR. "Alcohol Abuse and Post-traumatic Stress Disorder (PTSD) among Vietnam Veterans: A Possible Link." Presented at: 30<sup>th</sup> Annual Meeting of the Society for the Study of Social Problems, Toronto, 1981.

Boscarino JA. "Ethnic Differences in Drinking Behavior: A Comparison of Irish, English, Italian, and Jewish Drinking Patterns." Presented at: 29<sup>th</sup> Annual Meeting of the Society for the Study of Social Problems, New York, 1980.

Boscarino JA. "Excessive Drinking among Vietnam Veterans: A Possible Symptom of Post-traumatic Stress." Eastern Sociological Society's Annual Meeting, Boston, 1980.

Boscarino JA. "Current Drug Involvement among Vietnam and Non-Vietnam Veterans." Presented at: 28<sup>th</sup> Annual Meeting of the Society for the Study of Social Problems, Boston, 1979

### **Computer and Software Experience**

Certified in computer programming. Experience with mainframe, mini-computers and micro-computers. Familiar with IBM JCL, SQL and Information Warehouse architecture/design. Software experience includes SAS, STATA, SPSS, CHAID, nQuery, S-Plus, Missing Value Analysis, LogXact, LISREL, Excel, Access, Power Point, Microsoft Project, VISIO.

### **Awards**

Summa Cum Laude – Fordham University

Outstanding Young Man of America Award

Listed in Who's Who in the World, 8th Edition

Listed in Who's Who in America, 55th Edition

Awarded Lifetime Honorary Membership in Vietnam Veterans of America

Elected to APA Fellow Status – Division 56, Trauma Psychology, American Psychological Association

Lifetime Achievement Award in Traumatic Stress Research, International Society of Traumatic Stress Studies

Appointed to Institute of Medicine, National Academy of Sciences, Washington, DC, SHAD-II Committee  
Nominated for Charles Shepard Science Award for Research Methods, CDC, Atlanta, GA

### **Professional Memberships**

American College of Epidemiology  
American Psychological Association – APA Fellow Status  
American Psychosomatic Society  
American Society of Human Genetics  
Society for Biological Psychiatry

### **Current Grants/Funding**

Contract # 5070 & 5071 (BOSCARINO) 5/1/2015 - 12/31/17 5%  
Indivior Pharmaceuticals, Inc.

#### **Naloxone Treatment Outcome Study**

This is a 10-year retrospective cohort study of patients in the Geisinger Health System that have been treated with Naloxone for opioid overdoses, including the identification of patient risk factors and mortality outcomes. To date, more than 2000 patients have been identified.

Role: PI

W81XWH-15-1-0506 (BOSCARINO) 9/1/15 - 8/31/18 20%  
Department of Defense

#### **Mental Health Disorders, Suicide Risk, and Treatment Seeking Among Formerly Deployed National Guard and Reserve Service Member seen in Non-VA Facilities.**

The goals of this study are to examine the mental health disorders, suicide risks, and treatment seeking among formerly deployed national guard and reserved service member seen in non-VA facilities. The hypothesis to be assessed is that recently deployed national guard and reserve service members have significantly higher rates of mental disorder and treatment seeking than comparable veterans from other service eras.

Role: PI

UG1-DA040314-01 (WEISNER) 7/1/15 - 6/30/20 5%  
NIH-NIDA

#### **Integrating Addiction Research in Health Systems: The Addiction Research Network**

The goals of the study are first to evaluate "what works" for identifying, engaging, and treating patients with SUDs in a medical setting; the second to develop and test ways for health systems to practically implement "what works" in a sustained manner as part of routine medical care; and the third to conduct methods research needed to support agendas one and two.

Role: Site PI

FDA (BOUDREAU) 10/1/15 - 12/31/20 20%  
Opioid Post-Marketing Study

#### **A Prospective Investigation of the Risk of Opioid Misuse, Abuse, and Addiction Among Patients Treated with Extended-Release/Long Acting (ER/LA) Opioids for the Treatment of Chronic Pain**

The primary objective is to quantify the serious risks of misuse, abuse, and addiction associated with long-term use of opioid analgesics for management of chronic pain among patients prescribed ER/LA opioid products. Altogether up to 3,000 patients are being recruited nationwide at 14 sites for this study.

Role: Site PI

Intercept Pharmaceuticals, Inc. (GORDAN) 6/1/16 - 5/30/19 20%

#### **Fibrotic liver disease (FOLD) Study**

The goal of this project will be to conduct a study of primary biliary cirrhosis (PBC) disease among Geisinger Clinic patients and patients at 8 other sites nationwide. The focus of this study will include assessment of PBC prevalence and analysis of key clinical features, including the onset and course of this disease, using a cohort study design. This will be the largest study of PBC ever conducted.

Hilton Foundation (STERLING) 2/1/16 - 1/19/19 15%

#### **Development of adolescent substance abuse**

The focus of this study is to retrospectively examine the development of substance use disorders (SUDs) among a cohort of adolescents who are patients across 5 sites in the Healthcare Services Research Network (HCSRN) using electronic health record (EHR) data.

Role: Site PI

Centers for Disease Control and Prevention (GORDON) 9/1/16 - 8/31/20 10%

**Chronic hepatitis cohort study-II (CHeCS-II)**

The purpose of this project is to utilize a multi-site longitudinal cohort study of chronic hepatitis C infection among patients in the Healthcare Services Research Network to assess the outcomes associated with direct-acting anti-viral medications in the treatment outcomes, including the onset/progression of liver disease, morbidity, and mortality, including the cause of death.

Role: Site PI

**Recently Completed Research**

MAO# 481-15 (GORDON) 4/1/09 - 5/31/16 25%

Centers for Disease Control

**Chronic Hepatitis B & C Longitudinal Cohort Study**

This was a multi-year, longitudinal cohort study of chronic hepatitis infection among patients (N~20,000) in four Health Care Services Research Network sites. The objectives of this study were to characterize the epidemiology and etiology of chronic hepatitis B & C infection, to assess the effectiveness of new antiviral drug treatments, and to assess the mental health status of these patients, including the impact of substance use disorders.

Role: Site PI

Contract # CW10255274. (STEWART) 12/01/11 - 6/30/15 20%

Pfizer, Inc

**Primary Care Detection and Management of Chronic Low Back Pain Disorders in Clinical Practice**

The purpose of this study was to develop new clinical models of chronic low back pain detection and management in primary care and to demonstrate the cost-effectiveness advanced pain management.

Role: Co-Investigator

Amgen (BOSCARINO) 2/1/13 - 1/31/14 25%

**A Claims-based Algorithm to Examine Cost Effectiveness RA Medication Management**

The purpose of this study was to develop a claims-based algorithm to study the cost effectiveness rheumatoid arthritis (RA) medication management in clinical practice. Approximately 2,000 RA patients were retrospectively assessed in this study over a 3 to 4-year period.

Role: Study PI

HHSF22391005T-A (DAVIS) 9/9/11 – 9/8/13 5%

DHHS/FDA

**Identification of Severe Cutaneous Reactions & Genomic Risk Factors in Users of Antiepileptics**

This was a multi-site HMO Research Network (HMORN) study funded by the FDA to study the genetic risk factors for severe subcutaneous reactions including onset of Stevens-Johnson Syndrome (SJS) and Toxic Epidermal Necrolysis (TEN) in users of antiepileptic medications.

Role: Site PI

AHRQ (DALEY) 6/1/10 – 11/30/13 5%

R01-HS019912

**Scalable Partnering Network for Cost Effectiveness Research**

This was a multi-site HMO Research Network (HMORN) study that assessed the incidence and prevalence of ADHD disorders among younger children across multiple HMORN healthcare sites, as well as the ADHD prescribing patterns common among such patients at these sites.

Role: Site PI

Geisinger Auxiliary Fund (BOSCARINO) 3/15/13 – 06/30/15 2%

**The Veterans' Health Study: Genetic Follow-up**

This is a follow-up study of deployed combat veterans included in the Veterans' Cohort Study. The purpose of this study is to collect DNA from 700 veterans included in a baseline survey conducted in 2011. These data were used to develop and validate new PTSD and addiction treatment models.

Role: PI

MAO# 481-14  
Centers for Disease Control (GORDON) 10/1/10 – 12/31/15 15%

**Chronic Hepatitis Cohort Study (CHeCS)**

This is a 5-year, longitudinal cohort study of chronic hepatitis infection among ~20,000 patients in four HMO Research Network (HMORN) sites. The objectives of this study were to describe the etiology/epidemiology of chronic hepatitis infection, to assess the effectiveness of antiviral drug treatments, to assess the long-term health outcomes and mortality, and to assess the mental health status of patients, including the prevalence and impact of substance use disorders.

Role: Site PI

NJ Department of Health  
Hurricane Sandy Study (SOLHKHAH) 8/1/14 – 7/31/16 10%

**Hurricane Sandy Behavioral Health Screening Project**

This was a study in New Jersey to assess the impact of screening and outreach to ~15,000 patients in 5 outpatient Family Health Centers affected by Hurricane Sandy in Monmouth and Ocean Counties in 2012. It was anticipated that this screening effort will result in ~5,000 patients being referred for further evaluation and behavioral health treatment, including addiction services. This study was to be used to assist future disaster planning and preparedness at the Jersey Shore.

Role: Co-I

**Chronic Pain Clinic Study** (HAN) 7/1/14 – 6/30/15 2%

This was a study among ~3,000 long-term chronic pain patients enrolled/attending Geisinger's Chronic Pain Clinics. Over the past several years, these patients had ongoing evaluations related to chronic pain, functional health status, depression, use of opioids (and other psychotherapeutic drugs), and quality of life status. DNA samples were also collected. The research plan was to merge these data with patients EHR data, in order to study the genetics of chronic pain and addiction among these patients.

Role: Co-PI

SRC-S-015  
Geisinger Clinic Fund (BOSCARINO) 2/15/13 – 2/1/14 2%

**Mental Health Disorders and Treatment-seeking following Hurricane Sandy**

This was a study related to assessment of the aftermath of Hurricane Sandy at the Jersey Shore conducted in collaboration with Meridian Health of Monmouth and Ocean County, New Jersey. Altogether 200 Jersey Shore residents in 18 beach communities directly impacted by the hurricane were surveyed ~6 months post-disaster by telephone. Areas assessed included mental health status, substance use disorders, treatment seeking, and environmental impact and concerns. Role: PI

Geisinger Auxiliary Fund (BOSCARINO) 6/1/011 – 5/31/13 2%

**The Veterans' Cohort Study**

The purpose of this study was to conduct a health assessment of deployed veterans seen in Geisinger Clinic. Patients were identified with a grant funded by the Kline & Ditty Health Fund (Boscarino, PI). Altogether a sample of 700 combat veterans were recruited for a study of the health consequences of war-zone exposure, including PTSD, depression, substance misuse, and cardiovascular disease onset.

Role: Study PI

Janssen Scientific (BOSCARINO) 7/1/12 – 11/30/13 20%

**The Longitudinal Impact of RA Disease Progression on Healthcare Costs**

The focus of this study was to assess the longitudinal impact of rheumatoid arthritis (RA) disease progression on healthcare costs among a cohort of about 3,000 RA patients being treated at Geisinger.

Role: PI

GHS 69400201  
Kaiser Permanente Georgia (GERHARD) 1/1/11 – 12/31/12 5%

**Genetics of Drug Induced Serious Adverse Events**

This was a study of phenotyping of drug-induced extreme weight gain among users of 2<sup>nd</sup> and 3<sup>rd</sup> generation atypical antipsychotics using genome-wide association study (GWAS) methods and data available in the EHR.

Role: Co-Investigator

A4306-59481  
 NYU & Geisinger Clinic (Boscarino) 1/1/10 – 12/31/12 2%  
**Predictors of Prescription Opioid Dependence among NYU-Bellevue Hospital Outpatients**  
 This was a replication study with NYU assessing genetic & environmental risks for addiction to opioids, based on a cross-sectional candidate-gene study successfully conducted among Geisinger's chronic pain patients. In this study, patients were recruited from NYU-Bellevue Hospital using a similar study design used a Geisinger. Role: Site PI

R21-MH-086317  
 National Institute of Mental Health (Boscarino) 7/1/09 – 6/30/12 20%  
**Developing PTSD Risk Assessment Tools Using the World Trade Center (WTC) Outcome Study**  
 The objective of this effort was to develop next generation prediction models that could differentiate trauma survivors who recover from those who develop enduring PTSD symptoms using the World Trade Center Disaster study and other data. The study goal was to develop a "Framingham-type" prediction models for PTSD onset for use in clinical practice. Role: Study PI

Contract # 992759094  
 Janssen Scientific (Stewart) 9/15/11 – 4/3/12 15%  
**Models for Prediction of Substance Misuse and Drug Dependence in Clinical Practice**  
 The focus of this study was to develop the next generation of models to predict substance misuse and drug dependence in clinical practice using item-response theory, signal detection theory, automatic interaction detection models, and other methods. Role: Co-Investigator

Merck & Company (Stewart) 1/1/10 – 12/31/11 10%  
**eMigraine Study of Treatment Outcome**  
 This study was a pre-post randomized controlled trial to determine if a systematic guideline-based approach to migraine detection and management could improve processes and outcomes of care and address the gap between what is known in this area and what is practiced in primary care for migraine disorders. Role: Co-Investigator

National Cancer Institute (Manne) 12/1/08 – 01/1/11 10%  
**Couples Colorectal Cancer Screening (CRCS) Study**  
 This study was a randomized trial that sought to develop a couple-based intervention to increase uptake of CRCS. This intervention was based on a social psychological theory proposed to understand the context of social situations. Based on this model, the goal was to transform partners' motivation for CRCS to a couple-focused motivation for screening. Role: Site PI

1-D1ARH-16053-01-00  
 HRHSA (Paolucci) 1/1/10 – 12-31/10 15%  
**Reaching Rural Veterans Initiative (Phase 2)**  
 The purpose of this project was to conduct a needs assessment related to providing mental health services to returning Iraq and Afghanistan US veterans being treated at Geisinger's primary care sites and to evaluate the impact of these interventions. Role: Co-Investigator

PA DOH SAP# 4100047760  
 PA Department of Health (Paolucci) 1/1/09 – 6-30/10 15%  
**Reaching Rural Veterans Initiative**  
 The purpose of this project was to conduct a preliminary needs assessment and to provide mental health services for returning Iraq and Afghanistan US veterans being treated at Geisinger's primary care sites and to evaluate the impact of these interventions. Role: Co-Investigator

GMC SRC-041  
 Geisinger Clinic Fumd (Boscarino) 6/1/08 – 7/31/09 2%  
**Exposure to Trauma, PTSD & Health Outcomes after Trauma Treatment**

The purpose of this study was to assess the risk for posttraumatic stress disorder (PTSD), mild traumatic brain injury (MTBI), and substance use disorders among adults recently exposed to major traumatic events. The secondary purpose is to assess the post-discharge service needs among adult trauma patients in Pennsylvania. For this study, we are recruiting a sample of 225 patients who were treated at Geisinger's Level-I Trauma Center after discharge.

Role: Study PI

TRA-015

Geisinger Clinic Fund (Boscarino) 10/15/06 – 7/31/09 2%

**Opioid Addiction and Chronic Pain: Genetic & Environmental Factors**

This study assessed the genetic & environmental risks factors for addiction to opioids, based on a cross-sectional candidate-gene study design among 705 chronic back-pain patients seen at Geisinger Clinic. The genes investigated included: BDNF, COMT, DRD1, DRD2, DRD3, DRD4, MOA, NPY, CHRNA3, CHRNA5, FKBP5, CRN, OPRM1, GABRA2, SLC6A4, among others. The main environmental exposure of interest in this study was exposure to psychological trauma.

Role: Study PI

GHSF #752109 & 752170

Kline & Ditty Health Fund (Boscarino) 6/1/08 – 8/31/09 5%

**The Veterans Health Project**

The purpose of this project was to initially develop a veterans' health registry at Geisinger Clinic. In the second phase of this project a descriptive study of utilization/health problems experienced by different era veterans compared to non-veterans was undertaken. The plan was to use these data in future biomedical investigations related to veterans health outcomes.

Role: Study PI

PA DOH SAP # 4100042573

PA Dept. Emergency Services (Boscarino) 7/1/07 – 8/31/08 5%

**Treatment Seeking & Treatment Effectiveness following the World Trade Center Disaster**

The purpose of this study was to assess access to mental health care, delayed treatment seeking, and the effectiveness of brief mental health treatments following the World Trade Center attacks in New York City. The goal of this study is to identify "best practices" for emergency mental following traumatic event exposures.

Role: Study PI

JNJ-07-02

Cenicore Pharmaceutical (Boscarino) 9/1/06 – 12/31/07 10%

**TNF-alpha Medication Outcome Study**

This was a study that assessed the effectiveness (including functional health status, healthcare utilization, and costs) of TNF-alpha inhibitor medications for ~ 800 patients treated for rheumatoid arthritis over a three year period.

Role: Study PI

R25 MH070552

NIMH (Kilpatrick) 3/1/04 – 2/28/07 10%

**Disaster Research Education and Mentoring**

This was a disaster-training grant in collaboration with Medical University of South Carolina and University of Michigan to train health professionals in disaster research.

Role: Co-I

R01 MH66403

NIMH (Boscarino) 8/1/02 – 7/31/06 20%

**Impact of Mental Health Services in NY after WTC Disaster**

This study assessed community mental health service utilization, mental health impact, access to care, and treatment outcomes in New York City among 2,400 New York City adults after the World Trade Center disaster.

Role: Study PI

R01 MH66391

NIMH (Vlahov) 9/1/02 – 8/31/05 15%

**Longitudinal Study of Mental Health in NYC after WTC Disaster**

This was a longitudinal epidemiological study of the mental health sequelae associated with the World Trade Center Disaster in NYC among 2,500 adults exposed to this traumatic event.

Role: Co-I

American Red Cross Fund (Laraque) 4/1/05 – 3/31/06 15%  
ARCF

**Reaching Children Initiative through Primary Care Post-9/11**

This was an intervention study to assess the effectiveness of a training program for healthcare professionals in the tri-state area (NY, NJ, CT) related to provision of post-9/11 mental services and disaster medicine services for children.

Role: Co-Investigator

RWJF Grant # 045845 (Boscarino) 1/2/03 – 12/31/04 20%  
Robert Wood Johnson Foundation

**The New York State Quality Improvement Project-Phase II**

The goal of this research was to better understand consumer perceptions and needs related to improving the quality of care in the state. This study expanded the scope of the NYS Office of Science, Technology, & Academic Research quality grant previously conducted (see below).

Role: PI

Contract M000033 (Boscarino) 10/1/02 – 12/31/03 25%  
NYS Office of Science, Technology, & Academic Research

**The New York State Quality Improvement Project-I**

This project focused on how New Yorkers make decisions about health care providers and assess quality care in New York State. The project goal was to learn more about use of consumer choice in improving the quality of care in New York State. This study was based on a random telephone survey of adults in New York State.

Role: PI

**Selected Past Healthcare Research and Consulting Assignments**

Successfully competed for and managed millions of dollars in research and consulting contracts over course of professional career. A selected list of funders include:

American Medical Association - Chicago, IL  
Canadian Cancer Society - Toronto, Canada  
Ontario Counsel on Drug Abuse - Ontario, Canada  
The Gallup Organization - Columbia, MD  
The Signature Group - Schaumburg, IL  
University of Michigan Medical Center - Ann Arbor, MI  
Henry Ford Hospital - Detroit, MI  
Charter Southland Hospital - Mobile, AL  
Vanderbilt Medical Center - Nashville, TN  
Marshfield Clinic - Marshfield, WI  
Baptist Medical Centers - Birmingham, AL  
Evangelical Health Systems - Oak Brook, IL  
Yale University - New Haven, CT  
Bethesda Hospital Association - Denver, CO  
Brookfield Clinics - Detroit, MI  
Borgess Medical Center - Kalamazoo, MI  
Genesee Valley Group Health Association - Rochester, NY  
Health Alliance Plan - Detroit, MI  
Cottage Hospital - Grosse Pointe Farms, MI  
Silver Cross Hospital - Joliet, IL  
Blodgett Medical Center - Grand Rapids, MI  
Chicago Osteopathic Medical Center - Chicago, IL  
Holy Cross Hospital - Detroit, MI  
Lansing General Hospital - Lansing, MI  
St. Frances Cabrini Hospital - Chicago, IL  
St. Vincent Hospital - Toledo, OH  
Medical University of South Carolina - Charleston, SC

Medical Society of New York State - Lake Forest, NY  
Michael Reese Hospital - Chicago, IL  
Mercy Hospital - Charlotte, NC  
Illinois Hospital Association - Naperville, IL  
St. Agnes Hospital - Baltimore, MD  
St. Joseph's Medical Center - South Bend, IN  
Tri-County Mental Health Center - North Kansas City, MO  
CamCare Health Corporation - Camden, NJ  
Griffin Hospital - Darby, CT  
Michigan Osteopathic Medical Center - Detroit, MI  
St. Joseph's Hospital - Paris, TX  
North Kansas City Hospital - North Kansas City, MO  
Sturdy Memorial Hospital - Attleboro, MA  
Sherman Hospital - Elgin, IL  
Palos Community Hospital - Palos Heights, IL  
St. Mary Hospital - Quincy, IL  
Christ Hospital - Oak Lawn, IL  
Elmhurst Memorial Hospital - Elmhurst, IL  
Northern Michigan Hospitals Corporation - Petoskey, MI  
Mercy-Memorial Hospital - Monroe, MI  
Grant Hospital - Chicago, IL  
Parkside Associates – Park Ridge, IL  
Lutheran General Hospital – Park Ridge, IL  
Catholic Health Initiative - Denver, CO  
Health Enhancement Research Organization - Birmingham, AL

#### **Scientific Peer-Review Experience (Selected)**

American Journal of Epidemiology  
American Journal of Psychiatry  
American Journal of Public Health  
Archives of General Psychiatry  
Biological Psychiatry  
Journal of the American Medical Association  
Journal of Consulting and Clinical Psychology  
Journal of Healthcare Management  
Journal of Nervous and Mental Disease  
Journal of Public Health Management and Practice  
Journal of Studies on Alcohol  
Journal of Traumatic Stress  
Journal of Urban Health  
Psychiatric Services  
Psychosomatic Medicine  
Preventive Medicine  
Medical Care  
New England Journal of Medicine

#### **Editorial Boards**

Associate Editor - International Journal of Emergency Mental Health

#### **Recent Grant Reviews**

National Institutes of Mental Health - ad hoc reviewer  
Veterans Affairs Central Office, Washington, DC – ad hoc reviewer  
Department of Defense – ad hoc reviewer

#### **Successful Patent Applications**

Patent No. 7,725,327, Computer System and Method for Generation of Healthcare Risks, K.J. Bradbury, G. Fulop, J.A. Boscarino, K.A. McGuigan, & Q.Qian, Assigned to Medco Health Solutions Inc., Franklin Lakes, N.J.

**Military Service**

*Vietnam veteran:* Served in the US Army from August 1964 to December 1966, including 14 months with Battery D, 6<sup>th</sup> Battalion, 71st Artillery Regiment as an artilleryman (MOS 16D), assigned to the Military Assistance Command Vietnam (MACV), II Corps Theater of Operations.

**Military Decorations:**

Vietnam Service Medal  
National Defense Service Medal  
Republic of Vietnam Campaign Medical w/device  
Expert Rifle

**References** (upon request)

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