

Julie A. Kreyenbuhl, Pharm.D., Ph.D.

VA Capitol Healthcare Network (VISN 5) Mental Illness Research, Education, and Clinical Center (MIRECC) and
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Education

1987-1989 Mercer University, Macon, GA
1989-1993 Mercer University College of Pharmacy, Atlanta, GA (Pharm.D., Magna cum laude)
1993-1999 University of Maryland, Baltimore, MD (Ph.D., Pharmaceutical Health Services Research)

Post Graduate Education and Training

1999-2000 Post-Doctoral Fellowship
Maryland Psychiatric Research Center, Treatment Research Unit,
University of Maryland School of Medicine
Mentors: Raymond C. Love, Pharm.D., Robert R. Conley, M.D.
2003-2005 Graduate Coursework in Cognitive Psychology, Judgment and Decision-Making, Survey Sampling, and Multilevel Analysis of Survey Data
University of Maryland, College Park

Professional Experience

1993-1999 Doctoral Student, Department of Pharmacy Practice and Science, School of Pharmacy, University of Maryland, Baltimore, MD.
Dissertation: Correlates of Psychopharmacologic Treatment Outcomes for Schizophrenia (Advisor: Julie M. Zito, Ph.D.)
1993-1994 Teaching Assistant, Department of Pharmacy Practice and Science, School of Pharmacy, University of Maryland, Baltimore, MD.
1994 - 1999 Policy Fellow, Center on Drugs and Public Policy, Department of Pharmacy Practice and Science, School of Pharmacy, University of Maryland, Baltimore, MD.

1996-1997	<u>Research Assistant</u> , Center for Mental Health Services Research, Department of Psychiatry, School of Medicine, University of Maryland, Baltimore, MD.
1999-2000	<u>Post-Doctoral Fellow</u> , Maryland Psychiatric Research Center, Treatment Research Unit, Department of Psychiatry, School of Medicine, University of Maryland, Baltimore, MD.
2000-2009	<u>Assistant Professor of Psychiatry</u> , Division of Psychiatric Services Research, University of Maryland School of Medicine, Baltimore, MD.
2009-2020	<u>Associate Professor of Psychiatry</u> , Division of Psychiatric Services Research, University of Maryland School of Medicine, Baltimore, MD.
2000-present	<u>Investigator</u> , VA Capitol Healthcare Network (VISN 5) Mental Illness Research, Education, and Clinical Center (MIRECC), Veterans Administration Maryland Healthcare System, Baltimore, MD.
2009-2012	<u>Assistant Director</u> , Research Core, VA Capitol Healthcare Network (VISN 5) Mental Illness Research, Education, and Clinical Center (MIRECC), Veterans Administration Maryland Healthcare System, Baltimore, MD.
2013-present	<u>Associate Director</u> , Research Core, VA Capitol Healthcare Network (VISN 5) Mental Illness Research, Education, and Clinical Center (MIRECC), Veterans Administration Maryland Healthcare System, Baltimore, MD.
2020-present	<u>Professor of Psychiatry (tenured)</u> , Division of Psychiatric Services Research, University of Maryland School of Medicine, Baltimore, MD.

Honors and Awards

1987-1989	Mercer University Penfield Scholarship
1989-1990	Mercer University Southern School of Pharmacy First Year Merit Scholarship
1991-1993	GPhA Greater Atlanta Women's Auxiliary Scholarship
1991	Who's Who Among Students in American Colleges and Universities
1991	Rho Chi Society
1991	Parke-Davis Summer Internship Program
1992	Kappa Epsilon Zada M. Cooper Scholarship
1992	National Pharmaceutical Council Summer Internship Program (Procter and Gamble Pharmaceuticals)
1992	NationsBank Scholarship
1992	McNeil Consumer Products Company Award

1993 The Honor Society of Phi Kappa Phi
 1993 Annie Grace Reynolds Sillin Award for Business Achievement
 1993-1994 American Foundation for Pharmaceutical Education (AFPE)/Glaxo First Year Graduate Studies Scholarship
 1994-1995 Balfour Fellowship
 1994-1996 Procter & Gamble Fund-AFPE Pharmacoeconomics Fellowship
 1996 Best Poster Presentation (Pharmaceutical Sciences Section) - Graduate Student Research Day, University of Maryland
 2000 New Clinical Drug Evaluation Unit (NCDEU) New Investigator Award
 2003 H. McKee Jarboe Award for Mental Health Research, University of Maryland
 2008 Outstanding Reviewer Recognition, *Pharmacoepidemiology and Drug Safety*

Administrative Service

Institutional Service

2002-2013 Co-chairperson, Department of Psychiatry Research Day, University of Maryland School of Medicine
 2002-2009 Lecturer in Research Methods for Psychiatry Residents, Department of Psychiatry, University of Maryland School of Medicine
 2002-2013 MIRECC representative, Performance Improvement Sub-Council, Mental Health Service Line, VA Maryland Health Care System, VISN 5
 2003-2016 Member and VA representative, Institutional Review Board, University of Maryland School of Medicine
 2003-2009 Coordinator, Medical Student Research Experience Program, Division of Services Research, Department of Psychiatry, University of Maryland School of Medicine
 2003-present Member, Clozapine Treatment Team, Mental Health Service Line, VA Maryland Health Care System
 2003 MIRECC representative, Seriously Chronically Mentally Ill Sub-Committee, Mental Health Service Line, VA VISN 5
 2004-2005 Coordinator, Research Methods for Psychiatry Residents, Department of Psychiatry, University of Maryland School of Medicine
 2005-present Member, Data and Safety Monitoring Board, Maryland Psychiatric Research Center, University of Maryland School of Medicine
 2006-present Co-leader, Monthly Psychopharmacology Case Conference, Mental Health Service Line, VA Maryland Health Care System
 2008-2010 Interviewer of medical school applicants, University of Maryland School of Medicine
 2010-2012 Member, Grant Review Subcommittee, VA Maryland Health Care System Research and Development Committee
 2012 Member, Conference Planning Committee, *“Supporting the Mental Health of Women Veterans”*, VA VISN 5 MIRECC
 2012-2019 Member, Maryland Psychiatric Research Center Junior Faculty Mentoring Committee
 2016-2018 Department of Psychiatry Representative, University of Maryland School of Medicine Council
 2017-2020 Member, Data and Safety Monitoring Board, *A Double-blind placebo controlled human laboratory cross-over, alcohol administration study in healthy volunteers,*

- Chamindi Seneviratne, Ph.D. (Principal Investigator), Department of Psychiatry, University of Maryland School of Medicine
- 2018-2019 Member, University of Maryland School of Medicine, Department of Psychiatry, Women's Mental Health Program, Research Core
- 2019-present Member, Department of Psychiatry Junior Faculty Mentoring Program

National Service

- 2002 Ad Hoc Grant Reviewer, Canadian Institutes of Health Research
- 2002-present Ad Hoc Journal Reviewer: *Academic Psychiatry, Acta Psychiatrica Scandinavica, Administration and Policy in Mental Health and Mental Health Services Research, American Journal of Geriatric Psychiatry, American Journal of Preventive Medicine, American Journal of Psychiatric Rehabilitation, American Journal of Psychiatry, Biological Psychiatry, BMC Psychiatry, Canadian Journal of Community Mental Health, Clinical Psychology Review, Clinical Schizophrenia and Related Psychoses, Diabetes Research and Clinical Practice, Epidemiology and Psychiatric Sciences, Expert Review of Neurotherapeutics, Harvard Review of Psychiatry, International Journal of Clinical Practice, JAMA Psychiatry, Journal of Clinical Psychiatry, Journal of Clinical Psychopharmacology, Journal of Consulting and Clinical Psychology, Journal of Nervous and Mental Disease, Medical Care, Pharmacoepidemiology and Drug Safety, PLOS One, Psychiatric Rehabilitation Journal, Psychiatric Services, Psychiatry Research, Schizophrenia Bulletin, Schizophrenia Research, Social Psychiatry and Psychiatric Epidemiology*
- 2003 Consultant, American Psychiatric Association, assisted in writing and editing of *Practice Guideline for the Treatment of Patients with Schizophrenia, Second Edition, 2004*
- 2005 Consultant, American Psychiatric Institute for Research and Education, assisted on a project (*Quality Measures for Schizophrenia Treatment Guidelines*) that identified evidence-based quality indicators for schizophrenia treatments
- 2005 Self-Care Subcommittee, VHA My HealthVet Mental Health Portal Working Group
- 2006-2008 Member, Data and Safety Monitoring Board, *A Double-Blind Trial of Allopurinol to Reduce the Symptoms of Schizophrenia*, Faith B. Dickerson, Ph.D. (Principal Investigator), Sheppard Pratt Health System
- 2007 Ad hoc member, Cooperative Studies Scientific Merit Review Board, VA Clinical Science Research and Development Service
- 2007 Ad Hoc Grant Reviewer, ZonMw (Netherlands)
- 2008-2010 Chair, Data and Safety Monitoring Board, *Double-blind Trial of Artemisinin to Reduce the Symptoms of Schizophrenia*, Faith B. Dickerson, Ph.D. (Principal Investigator), Sheppard Pratt Health System, Baltimore, Maryland
- 2011-2012 Chair, Data and Safety Monitoring Board, *A Double-Blind Placebo-Controlled Trial of a Probiotic Supplement to Reduce the Symptoms of Schizophrenia*, Faith B. Dickerson, Ph.D. (Principal Investigator), Sheppard Pratt Health System, Baltimore, Maryland
- 2011-2014 Member, Data and Safety Monitoring Board, *Peer Mentors to Improve Smoking Cessation in Persons with Serious Mental Illness*, Faith B. Dickerson, Ph.D. (Principal Investigator), Sheppard Pratt Health System

2012-2015 Member, VA Mental Health Quality Enhancement Research Initiative (QUERI) SMI Health Workgroup

2012-2013 Ad-hoc member, HSR-4 (Mental and Behavioral Health) Scientific Merit Review Board (SMRB), VA Health Services Research and Development Service

3/2012 Ad-hoc member, HCR-1 (CREATE-PTSD) Scientific Merit Review Board (SMRB), VA Health Services Research and Development Service

3/2012 Ad-hoc member, HCR-2 (CREATE-Substance Use Disorders) Scientific Merit Review Board (SMRB), VA Health Services Research and Development Service

2012-2016 Member, VA Reproductive Mental Health Steering Committee, Women Veterans Health Strategic Healthcare Group (WVHSHG)

2012-2017 Member, Data and Safety Monitoring Board, *A Double-Blind Placebo-Controlled Trial of a Probiotic Supplement to Prevent Relapse and Improve the Clinical Course After Hospitalization for Mania*, Faith B. Dickerson, Ph.D. (Principal Investigator), Sheppard Pratt Health System

2013-2017 Member, HSR-4 (Mental and Behavioral Health) Scientific Merit Review Board (SMRB), VA Health Services Research and Development Service (4-year appointment)

2014 Abstract reviewer, 22nd National Institute of Mental Health Conference on Mental Health Services Research (MHSR 2014)

2016 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group ZMH1-ERB-K (09)

2017 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group ZMH1-ERB-K (07)

2017-present Member, Editorial Board, Administration and Policy and Mental Health Services Research

2017-2020 Coordinator, Spotlight on VA Mental Health Centers of Excellence (CoEs) - Health Services Research and Development Service Cyber Seminar Partnership Series

2019 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group 2019/10 ZMH1-ERB-K (07)

2020 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group 2020/08 ZMH1-ERB-K (07) R

2020 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group 2021/01 ZMH1 ERB-M (M1)

2021 Member/grant reviewer, NIMH Special Emphasis Panel/Scientific Review Group 2021/01 ZMH1 ERB-M (M1)

Professional Society Memberships

1989 - 1999 American Pharmaceutical Association (APhA)
Academy of Pharmaceutical Research and Science (APRS) Graduate Students Working Group (1994)
APRS Delegate to the APhA House of Delegates, Seattle, WA (1994)

1990 - 1991 Georgia Pharmaceutical Association (GPhA)
Standing Committee on Public Relations (1990-1991)

1990 - present Kappa Epsilon Professional Pharmacy Fraternity
Bond Reporter (1993-1995)
Chairperson, National Scholarship Committee (1994-2022)

1990-1994 American Society of Hospital Pharmacists/Georgia Society of Hospital Pharmacists
1994-1998 American Association of Colleges of Pharmacy
1995-1997 Association for Pharmacoeconomics and Outcomes Research
1995-present AcademyHealth
1996-present American Public Health Association
2002-2006 Society for Medical Decision Making

Grant Support

Completed Grants

Center on Services for Severe Mental Illness

PI: Donald Steinwachs, Ph.D., Co-PI: Anthony F. Lehman, M.D., M.S.P.H.

National Institute of Mental Health (P50 MH43703)

9/1/00-7/21/05 (\$1,070,756)

Role: Co-Investigator

The aims for this Center were to conduct research on financing for and outcomes of treatments and services for adults with serious mental illnesses.

Prescription of Multi-Drug Psychopharmacologic Treatments in Schizophrenia

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

University of Maryland School of Medicine Intramural New Investigator Grant

7/1/02-6/30/03 (\$15,000)

The goal of this project is to describe the extent of the prescription of multi-drug regimens, and to model its relationship to selected outcomes (e.g., symptom reduction, adverse effects, mental health services use) among persons with schizophrenia in two mental health service settings. The models will be applied to a larger population of veterans with schizophrenia in order to estimate the clinical and non-clinical consequences of the prescription of multi-drug regimens.

Do Practice Guidelines Reduce Smoking in Schizophrenia?

PI: Lisa B. Dixon, M.D., M.P.H.

National Institute on Drug Abuse (R01 DA014393)

4/1/02-3/31/05 (\$1,658,042)

Role: Co-Investigator

This study tested the impact of implementing the Agency for Healthcare Research and Quality (AHRQ) smoking cessation guidelines on brief physician-delivered smoking cessation interventions among people with schizophrenia.

Does a CTI Improve Psychiatric Inpatient-Outpatient Transition Outcomes?

PI: Lisa B. Dixon, M.D., M.P.H.

VA Health Services Research & Development Service (VCR-02-166)

10/01/02-9/30/05 (\$600,000)

Role: Co-Investigator

This study utilized an experimental random-assignment design to test a brief 3-month, relatively low intensity critical time intervention (CTI) for veterans with serious mental illnesses at the point of inpatient-outpatient transition. The CTI model is intended to enhance the continuity of mental health services for mentally ill individuals at the time of this transition by helping them bridge the gap between institutional and community based services.

Understanding Prescription Decisions in Schizophrenia

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

National Institute of Mental Health Research Career Award (K01 MH066009)

4/01/03-11/10/09 (\$652,822)

This application proposes a 5-year integrated training and research program to investigate the process of clinical decision-making as it relates to the prescription of complex, multi-drug regimens ('polypharmacy') for schizophrenia. Both clinician-related and patient and family-related factors, which are equally important and influential forces affecting medication management decisions will be considered.

National Center on Minority Health and Health Disparities

PI: Donald Wilson, M.D.

National Institutes of Health (P60 MD00532)

10/01/03-9/30/07 (\$399,999)

Role: Co-Investigator, Mental Health Core

The aims for the Center were to foster health disparities research on renal and eye disease, cancer and mental health.

Medical Co-Morbidity in Schizophrenia: A Focus on Diabetes—Four Year Follow Up

PI: Lisa B. Dixon, M.D., M.P.H.

Bristol-Myers Squibb Company

2/1/05-1/31/07 (\$464,576)

Role: Co-Investigator

This investigation involved a four year follow-up study of 300 people who participated in an earlier study of diabetes, Morbidity in Schizophrenia: A Focus on Diabetes (RO1 MH58717). The goals of this prospective, longitudinal study were: (1) Among persons with severe mental illnesses prescribed antipsychotic medications, to evaluate the relationship between the antipsychotic medication prescribed and diabetes outcomes, weight gain, and diabetes complications over the four-year follow-up period; and (2) to characterize the changes over four years in diabetes outcomes and complications, quality of diabetes care, and general health status among persons with diabetes, and to determine if persons with schizophrenia differ from persons with major affective disorders or persons without SMI.

Adherence to Medications for Type 2 Diabetes Among Patients with Schizophrenia

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

NARSAD Young Investigator Award

7/1/05-6/30/08 (\$60,000)

Two complementary studies using different patient populations and methods of assessing medication adherence will be conducted to investigate whether patients with schizophrenia

and Type 2 diabetes exhibit differential rates of adherence to hypoglycemic medications versus antipsychotic medications. We will also investigate whether patients with schizophrenia exhibit differential rates of adherence to medications for Type 2 diabetes compared to patients without a psychiatric disorder. The first study will use administrative encounter data from two large VA registries to measure medication adherence using pharmacy refill data for a nationwide sample of veterans. The second study will assess medication adherence by patient self-report and the Medication Management Ability Assessment, a performance-based measure of general medication adherence involving a brief role-play task.

Adherence to Medications for Type 2 Diabetes Among Patients with Schizophrenia

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

VA Capitol Healthcare Network (VISN 5) Mental Illness, Research, Education and Clinical Center Research Core Pilot Project Funding

7/1/05-6/30/06 (\$15,000)

This grant provides supplemental funding for veteran participants in the second NARSAD study described above that evaluates self-reported adherence to oral hypoglycemic medications in diabetes patients with and without co-occurring schizophrenia.

Schizophrenia PORT Treatment Recommendations Update 2008

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

National Institute of Mental Health (R13 MH080593)

4/05/07-3/31/09 (\$167,270)

The Schizophrenia Patient Outcomes Research Team (PORT) Treatment Recommendations were developed to help ensure that individuals with schizophrenia receive the highest quality treatments supported by current empirical knowledge. This R13 Conference Grant provides funding to organize and direct a conference in 2008 to develop expert consensus on the evidence base to update and expand the Schizophrenia PORT Treatment Recommendations. This grant will enable the development of an infrastructure to review new research findings published since 2002 on the efficacy and effectiveness of treatments for schizophrenia that will be discussed at the conference.

Schizophrenia PORT Treatment Recommendations Update 2008 – VA Supplement

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

Veterans Health Administration

4/05/07-3/31/09 (\$100,000)

The VA is dedicated to supporting the development of treatment guidelines and disseminating evidence-based practices throughout their healthcare system, especially in the area of mental health. This grant provides supplemental financial support and endorsement by the Veteran's Affairs (VA) health system to the 2008 update of the Schizophrenia PORT treatment recommendations. PORT investigators will interact with key VA mental health staff to discuss strategies for dissemination of the recommendations within the VA healthcare system.

Implementing Web-Based Patient Education Materials for Veterans with Serious Mental Illnesses

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.; Co-PI: Alex Young, M.D., M.P.H.

Veterans Health Administration
08/01/08-07/31/09

This grant provides funding for a joint project between the VISN 5 and VISN 22 MIRECCs to develop an internet-based education program focused on improving medical wellness in veterans with serious mental illnesses (SMI).

Heterogeneity and Econometric Net Cost Estimates of Schizophrenia Drug Treatments
P.I.: David Salkever, Ph.D.
National Institute of Mental Health (R03 MH083208)
4/1/08-3/31/10 (\$148,000)
Role: Consultant

This three-year study will provide a comprehensive description of mental health services utilization among young adults with mental health problems in the Medicaid program, including their access to care and patterns of mental health treatment in the specialty mental health, acute care, and primary care sectors.

Use of Mental Health and Primary Care Services Among Disadvantaged Young Adults
PI: Eric Slade, Ph.D.
National Institute of Mental Health (R34MH081303-01)
8/1/07-7/31/10 (\$450,000)
Role: Co-Investigator

This three-year study will provide a comprehensive description of mental health services utilization among young adults with mental health problems in the Medicaid program, including their access to care and patterns of mental health treatment in the specialty mental health, acute care, and primary care sectors. The study will focus on understanding the particular roles of Medicaid insurance continuity (i.e. periods without lapses in coverage) and access to primary care services in enabling continued mental health treatment.

Determinants of Diabetes Control in Veterans with Serious Mental Illness
PI: Judith A. Long, MD
VA Health Services Research and Development Service (IIR 07-124-3)
7/1/09-1/31/12 (\$653,000)
Role: Co-Investigator

This study involves a quantitative cross-sectional survey of 400 veterans with serious mental illness and Type 2 diabetes to evaluate whether glucose control and adherence to diabetes medications differs according to whether diabetes care is delivered in usual primary care settings vs. in settings where primary care is colocated within a mental health clinic.

A Patient-Centered Approach to Improve Screening for Side Effects of SGAs
PI: Julie Kreyenbuhl, Pharm.D., Ph.D.
VA Health Services Research and Development Service (IIR 07-256-1)
7/1/08-6/31/12 (\$900,000)

Adherence to guidelines for regular screening for the metabolic side effects of second-generation antipsychotic (SGA) medications is inadequate. The primary objectives of this

randomized, controlled study are to determine whether exposure to a patient-centered computerized tool, compared to enhanced treatment as usual, increases rates of screening for the metabolic side effects of SGAs, enhances patterns of patient-clinician communication about screening, influences patients' preferences for obtaining health information and participating in decision-making about screening, and influences patients' perceptions of their psychiatrists' participatory decision-making styles around screening.

Enhancing Recovery of People With Schizophrenia

PI: Robert W. Buchanan, M.D.

National Institute of Mental Health (R24 MH082755)

8/11/08-4/30/13 (\$331,553 (annual))

Role: Co-Investigator

This is a Research Infrastructure Services Program grant to create a practice research network intended to facilitate the conduct of research throughout the state of Maryland.

How Does a Psychiatric Comorbidity (Schizophrenia) Affect the Management of Diabetes?

PI: Karen Lutfey, Ph.D.

National Institute of Mental Health (R01 MH081824)

06/05/09-02/28/13 (\$2,003,916)

Role: Consultant

This study uses a factorial design to estimate of the effects of different types of patient, provider and health care system effects on primary care providers' decisions around managing diabetes for hypothetical patients with schizophrenia (with and without bizarre affect), depression, and eczema.

Randomized Trial of a Smoking Cessation Program for Persons with SMI

PI: Lisa Dixon, M.D., M.P.H.

VA Clinical Services Research and Development Service (1101CX00135-01A1)

10/1/09-9/30/13 (\$590,250)

Role: Co-investigator

This is a randomized trial of a psychosocial and behavioral smoking cessation program for persons with SMI.

Recovery After Initial Schizophrenia Episode (RAISE)

Co-PIs: Susan Essock, Ph.D., Lisa B. Dixon, M.D., M.P.H.

National Institute of Mental Health (contract)

7/11/09-12/31/13 (\$852,612)

Role: Co-Investigator

This proposal offers an unprecedented opportunity to fundamentally and favorably alter the trajectory and outcome of schizophrenia and related psychotic disorders through a multi-element, team-oriented and evidence-based intervention in the first episode of illness.

Web-Based Delivery of *MOVE!* to Veterans With Serious Mental Illness

PI: Alex Young, M.D.

VA Health Services Research and Development Service (IIR 09-083)

9/1/10-6/30/15 (\$924,466)

Role: Co-investigator

The goal of this project is to develop and evaluate an internet-based system that helps individuals with serious mental illness improve their diet and exercise and lose weight.

A Smartphone Intervention to Improve Adherence to Antipsychotic Medications

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

National Institute of Mental Health (R34 MH094555)

8/15/2011–7/31/2015 (\$453,755)

The goal of this grant is to evaluate the feasibility and acceptability of a mobile smartphone intervention, *MedActive*, on improving antipsychotic adherence among individuals with schizophrenia. *MedActive* is an ecological momentary intervention that provides medication reminders and queries individuals about their intentions to take the medication while also collecting real-time psychiatric symptom and side effect data that can be displayed for individuals and their clinicians. Iterative versions of *MedActive* will be tested in a short-term field trial and a randomized pilot study involving individuals with schizophrenia and their psychiatrists.

HEART to HAART: Smartphone Intervention to Improve HAART Adherence for Drug Users

PI: Seth Himelhoch, M.D., M.P.H.

National Institute of Drug Abuse (R34 DA032411)

9/15/2011-9/15/2015 (\$450,000)

Role: Co-Investigator

The goal of this research is to develop and pilot test a Smartphone-based intervention called *HEART (Helping Enhance Adherence to Retroviral therapy using Technology) to HAART*, to enhance adherence to HAART among HIV infected drug users.

Understanding the Needs for Family Planning and Contraceptive Counseling among Women with Serious Mental Illness

Co-PI: Amy Drapalski, Ph.D.

VA Capitol Healthcare Network (VISN 5) Mental Illness, Research, Education and Clinical Center Research Core Pilot Project Funding

8/21/11-12/31/15 (\$24,589)

Role: Co-PI

The goal of this pilot study is conduct quantitative and qualitative interviews with women veterans with serious mental illness and mental health providers to understand the family planning and contraceptive counseling needs of women with SMI.

Feasibility and Acceptability of Using the M-Pathy Telepsychiatry Intervention in an ACT Team

Co-PIs: George J. Unick, Ph.D., Seth Himelhoch, M.D., M.P.H.

University of Maryland Pilot and Exploratory Interdisciplinary Research Grant

7/1/13-3/31/16 (\$75,000)

Role: Co-PI

The goal of this project is to test the feasibility and acceptability of a mobile telepsychiatry intervention, M-Pathy, and to pilot test it with an Assertive Community Treatment (ACT) team that provides intensive treatment and outreach services to individuals with serious mental

illness. The M-Pathy intervention uses an existing mobile telepsychiatry platform to link community-based social workers with office-based psychiatrists for the purpose of conducting medication monitoring sessions with ACT clients, thereby increasing their access to these important services.

Qualitative Study of Metabolic Effects of Medications for SMI in Female Veterans

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

VA Health Services Research and Development Service (PPO 14-131-2)

7/1/15-12/31/17 (\$164,267)

This project will involve conducting qualitative interviews with female Veterans with serious mental illness (SMI) and VA mental health prescribers to understand their knowledge, attitudes and experiences with metabolic side effects of antipsychotic and mood stabilizer medications, as well as other side effects specific to women, and their perceptions of how those factors influence medication decision-making, adherence to treatment and the physical and mental health of women. The findings from these interviews will be used to employ conjoint analysis to develop and pilot test innovative patient preference elicitation instruments for antipsychotic and mood stabilizer treatment for both female and male Veterans with serious mental illness.

Helping Veterans with SMI “*Stay-Quit*” from Smoking after Inpatient Hospitalization

PI: Melanie Bennett, Ph.D.

VA Capitol Healthcare Network (VISN 5) Mental Illness, Research, Education and Clinical Center Research Core Pilot Project Funding

10/1/16-12/30/18 (\$27,266)

Role: Co-I

The goal of this pilot study is to develop and conduct preliminary feasibility testing of “*Stay-Quit*”, an intervention involving in-person contact and follow-up telephone consultation to facilitate continued smoking cessation in Veterans with serious mental illnesses who must abstain from smoking during an inpatient psychiatric hospitalization.

Using VA Administrative Data to Identify Novel Pharmacologic Targets for the Treatment of Serious Mental Illnesses

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

The Stanley Medical Research Institute

5/1/17-6/30/19 (\$214,670)

The purpose of this project is to use multiple years of VA administrative encounter data to identify novel pharmacologic targets for the treatment of schizophrenia and bipolar disorder. We will use cutting edge methodologic and statistical techniques to explore whether exposure to selected non-psychiatric medications reduces the risk of hospitalizations and emergency room visits.

Assessment of Medherent Medication Management Device and Adherence Platform

PI: J. Feldman

National Institutes of Mental Health (R44 MH116765-01)

Phase 1: 7/19/2018-12/01/2018 (\$191,572)

Phase 2: 5/1/2019-4/20/2021 (\$956,544)

Role: Co-I

This FastTrack Phase I and Phase II project will conduct a test of the Medherent™ device's capacity for improving medication adherence for individuals with serious mental illness and chronic health conditions. Phase I will test the usability of the device, develop manuals and interventions built on the device and enhance the interface and connectivity of the platform. Phase II will involve a randomized stepped wedge design study with 150 individuals to assess the correspondence between Medherent activation and medication adherence and the clinical effects of the Medherent device and to further refine the device and platform's interface. The Phase II study will yield a fully functional, market-ready adherence platform and pharmacy service with data to quantify the effect on client adherence and manualized interventions for deployment by community mental health agencies.

Reproductive Life Planning for Women Veterans with Mental Illness

PI: Amy Drapalski, Ph.D.

VA Health Services Research and Development Service Pilot Project Program (PPO 18-089)
6/1/19-2/29/21 (\$98,588)

Role: Co-investigator

The major goal of this project is to pilot test a mental health-informed reproductive life planning intervention for women Veterans with mental illness to evaluate its feasibility, acceptability, and preliminary efficacy compared to the provision of written reproductive life planning materials.

PRIME Care (PRrecision medicine In MEntal health Care)

PI: David Oslin, MD

VA Office of Research and Development (SDR 16-348)
4/1/17-3/31/22 (\$265,239)

Role: Local Site PI

The purpose of this project is to conduct a randomized controlled trial to evaluate the utility of pharmacogenetics testing in treating Veterans with Major Depressive Disorder.

Addressing Psychiatrist Workforce Shortages in the U.S. with Psychiatric Advanced Practice Registered Nurses (APRNs)

PI: Julie Kreyenbuhl, Pharm.D., Ph.D.

National Institute of Mental Health (R01 MH113650)
09/05/2017 – 6/30/2022 (\$1,341,990)

This study will capitalize on an ongoing natural experiment regarding the expansion of advanced practice registered nurses' (APRNs) prescriptive authority as one approach to addressing the significant psychiatrist-prescriber workforce shortage in the U.S. The proposed project will use the 50-state Medicaid Analytic eXtracts and related Medicare Part D data (1) to compare prescription of guideline-concordant behavioral health (BH) medications and treatment continuity among individuals with serious mental illness (SMI) treated by psychiatric APRNs versus psychiatrists; (2) to determine the effects of states permitting APRNs to prescribe autonomously on prescription of guideline-concordant BH medications and treatment continuity among individuals with SMI; and (3) To investigate the effects of states permitting APRNs to prescribe autonomously on the overall availability of BH medications to patients with SMI and on crowding-out psychiatrist prescribing.

Active Grants

A Randomized Controlled Trial of a Telementoring Program, Project ECHO, to Increase Clozapine Prescribing

PI: Deanna Kelly, Pharm.D.

National Institute of Mental Health (R37 MH121564)

2/1/2020-11/30/2023 (\$3,078,526)

Role: Co-investigator

The purpose of this study is to conduct a randomized controlled trial of Project ECHO (Extension for Community Healthcare Outcomes) and provision of absolute neutrophil count point-of-care monitoring devices for increasing the prescribing and persistence of use of clozapine in community mental health clinics throughout Maryland.

Connecting FEP Research and Practice through a Learning Health System

PI: Melanie Bennett, Ph.D.

National Institute of Mental Health (R01MH120550)

09/01/20-08/31/24 (\$7,132,708)

Role: Co-investigator

This project involves an Early Psychosis Intervention Network (EPINET) node that will support the uniform data collection, analysis, feedback, and infrastructure development to promote a culture of continuous quality improvement across 13 Coordinated Specialty Care (CSC) programs in Maryland and Pennsylvania who serve young adults with early psychosis. The project also involves a practice-based research project to adapt and test a motivational interviewing intervention for nontreatment-seeking heavy cannabis-using individuals for people with early psychosis to improve CSC engagement and medication adherence and to reduce risks associated with persistent cannabis use.

Suicide risk modification by statin prescriptions in US Veterans with common inflammation-mediated clinical conditions - a controlled quasi-randomized epidemiological approach

PI: Teo T. Postolache, M.D.

VA Clinical Science Research & Development Service (I01CX002259-01A2)

09/01/22-08/30/25 (\$900,000)

Role: Co-investigator

The aims of this study are to investigate the potential of synergistic interactions among immune-mediated conditions (IMCs) and between IMCs and traumatic brain injury (TBI) in predicting suicidal self-directed violence (SSDV) in United States Veterans; to investigate if a common marker of inflammation, neutrophil to lymphocyte ratio (NLR), predicts SSDV; to test if statins, widely prescribed medications with anti-inflammatory properties, reduce hazards of SSDV; and to estimate which patients, what statins, which doses, and what NLR levels are linked with the most robust statin-induced lowering of SSDV risk.

Robust Learning Approaches for Assessing Effects and Effect Heterogeneity of Real-World Antipsychotic Treatment Regimes in Elderly Persons with Schizophrenia

Co-PIs: Sharon-Lise Normand, Ph.D./Marcela Horvitz-Lennon, M.D.

National Institute of Mental Health (R01 MH130213)

09/01/2022-08/31/2027 (\$4,189,039)

Role: Consultant

This project aims to: leverage novel statistical approaches to extract scientifically robust and valid causal evidence of the effectiveness and safety outcomes of antipsychotic drugs used by elderly adults with schizophrenia by exploiting large, observational, longitudinal databases.

Elucidating Genetic and Environmental Risk Factors for Antipsychotic-induced Metabolic Adverse Effects Using Artificial Intelligence and Machine Learning

PI: Ayman H. Fanous, M.D.

Department of Veteran Affairs (VA) Office of Research and Development (ORD), the Million Veteran Program (MVP) and the Department of Energy (DoE) (MVP0068)

Funding date/s (\$500,000)

Role: Co-I

The objective of this project is to use artificial intelligence and machine learning to identify trajectories of antipsychotic-induced metabolic indices. These will be used in genetic studies of metabolic adverse effects.

Publications

Peer-Reviewed Journal Articles

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94. Weiser M, Davis J, Brown CH, Slade EP, Fang L, Medoff DR, Buchanan RW, Levi L, Davidson M, **Kreyenbuhl J**. Differences in antipsychotic treatment discontinuation among veterans with schizophrenia in the U.S. Department of Veterans Affairs. *American Journal of Psychiatry*. 2021; Oct 1;178(10):932-940. doi: 10.1176/appi.ajp.2020.20111657.
95. Postolache TT, Medoff DR, Brown CH, Fang LJ, Upadhyaya SK, Lowry CA, Miller M, **Kreyenbuhl JA**. Lipophilic vs. hydrophilic statins and psychiatric hospitalizations and emergency room visits in US Veterans with schizophrenia and bipolar disorder. *Pteridines*. 2021; Jan;32(1):48-69. doi: 10.1515/pteridines-2020-0028.
96. Oslin DW, Lynch KG, Shih MC, Ingram EP, Wray LO, Chapman SR, Kranzler HR, Gelernter J, Pyne JM, Stone A, DuVall SL, Lehmann LS, Thase ME; PRIME Care Research Group, Aslam M, Batki SL, Bjork JM, Blow FC, Brenner LA, Chen P, Desai S, Dieperink EW, Fears SC, Fuller MA, Goodman CS, Graham DP, Haas GL, Hamner MB, Helstrom AW, Hurley RA, Icardi MS, Jurjus GJ, Kilbourne AM, **Kreyenbuhl J**, Lache DJ, Lieske SP, Lynch JA, Meyer LJ, Montalvo C, Muralidhar S, Ostacher MJ, Paschall GY, Pfeiffer PN, Prieto S, Przygodzki RM, Ranganathan M, Rodriguez-Suarez MM, Roggenkamp H, Schichman SA, Schneeweis JS, Simonetti JA, Steinhauer SR, Suppes T, Umberto MA, Vassy JL, Voora D, Wiechers IR, Wood AE. Effect of Pharmacogenomic Testing for Drug-Gene Interactions on Medication Selection and Remission of Symptoms in Major Depressive Disorder: The PRIME Care Randomized Clinical Trial. *JAMA*. 2022 Jul 12;328(2):151-161. doi: 10.1001/jama.2022.9805. PMID: 35819423.
97. Buchanan RW and **Kreyenbuhl J**. An Argument for Antipsychotic Polypharmacy. *Am J Psychiatry* 2023; 180:334–336; doi: 10.1176/appi.ajp.20230180.

Non-peer-reviewed publications

1. **Kreyenbuhl J**. Challenges for the 90's: Misattribution of Symptoms in Older Patients. *The Older Patient* 1996; 1(2): 2-7.
2. Shern DL, Elwyn, G, **Kreyenbuhl J**, Drake R, Deegan P, Dixon L, Lehman A, Torrey W, Mishra M, Zisman-Ilani Y. (2016). "Use of antipsychotic medications after recovering from a past episode of psychosis" Option Grid™ decision aid. Available from <http://www.optiongrid.org>.
3. Saeedi O and **Kreyenbuhl J**. (2017, June 21). Veterans: Here's what you need to know about glaucoma and cataracts [Blog post]. Retrieved from <http://www.blogs.va.gov/VAntage/38931/what-you-need-to-know-about-glaucoma-and-cataracts/>

4. **Kreyenbuhl J.** (2020, September 30). Psychiatric medication and weight gain among women Veterans. [Blog post]. Retrieved from <https://blogs.va.gov/VAntage/79176/psychiatric-medication-weight-gain-among-women-veterans/>

Books

1. **Kreyenbuhl J,** Zito JM, Buchanan RW. Schizophrenia Patient Outcomes Research Team Pharmacologic Treatment Recommendations and Quick Reference Guide. (1996)
2. Goff D, **Kreyenbuhl J.** Assessing Adherence to Antipsychotic Medications, in *Guide to Assessment Scales in Schizophrenia*, 3rd edition (R. Keefe, ed.), Springer Healthcare Ltd. (2012)

Abstracts and/or Proceedings

1. McMahon RP, **Kreyenbuhl J,** Kirkpatrick B, Kelly DL, Conley RR. New factor structure for symptom clusters in treatment-resistant schizophrenia using the Brief Psychiatric Rating Scale. *Schizophrenia Research* 2001; 49 (suppl.):18.
2. Guinjoan SM, **Kreyenbuhl J,** Kelly DL, Conley RR. Circumstances of suicide among individuals with schizophrenia. *Schizophrenia Research* 2001; 49 (suppl.): 32.
3. Conley RR, McMahon RP, **Kreyenbuhl J,** Kirkpatrick B, Love RC, Kelly DL. Response to clozapine in treatment-resistant schizophrenia: A new factor analysis. *Schizophrenia Research* 2001; 49 (suppl.): 222.
4. DaSilva R, Kelly DL, Love RC, McMahon RP, Yu Y, **Kreyenbuhl J,** Conley RR. Utilization and outcomes of quetiapine in the Maryland mental health system. *Schizophrenia Research* 2001; 49 (suppl.): 270.
5. **Kreyenbuhl J,** Kelly DL, Love RC, Conley RR. An evaluation of clozapine discontinuation in a public mental health system. *Schizophrenia Research* 2001; 49 (suppl.): 273.
6. Love RC, Kelly DL, **Kreyenbuhl J,** Conley RR. The use of second-generation antipsychotics in the public sector: Switching patterns and combined antipsychotic treatment. *Schizophrenia Research* 2001; 49 (suppl.): 274.
7. **Kreyenbuhl J,** Dixon LB, Dickerson F, Goldberg R, Brown CH. Antipsychotic medications and diabetes outcomes in the seriously mentally ill. *Schizophrenia Research* 2003; 60 (1) (suppl.): 337.
8. Dixon L, Lehman AF, Donner T, **Kreyenbuhl J,** Bellack AS, Delahanty J, Wohlheiter K, Postrado L. A comparison of patients with Type 2 diabetes and schizophrenia, major affective disorder, and no mental illness. *Schizophrenia Research* 2003; 60 (1) (suppl.): 335.
9. Wohlheiter KA, Delahanty J, Dixon L, **Kreyenbuhl J,** Dickerson F. The relationship of diet and exercise habits to hemoglobin A1C and body mass index in persons with Type 2 diabetes and a severe mental illness. *Schizophrenia Research* 2003; 60 (1) (suppl.): 349.
10. **Kreyenbuhl J,** Valenstein M, McCarthy JM, Ganoczy D, Blow FC. Patterns of combination antipsychotic treatment in with veterans with schizophrenia. *Schizophrenia Bulletin* 2005; 31 (2): 544.

11. Medoff DR, **Kreyenbuhl J**, Dickerson F, Brown C, Wohlheiter K, Goldberg R, Dixon L. Predictors of hemoglobin A1C levels in persons with diabetes and serious mental illness. *Schizophrenia Bulletin* 2005; 31 (2): 546.
12. Buchanan RW, **Kreyenbuhl J**, Kelly D, Noel J, Fischer B, Boggs D, Aquino P, Fang B, Peterson E, Keller W. The 2009 Schizophrenia PORT Psychopharmacological Treatment Recommendations. *Schizophrenia Bulletin* 2009; 35 (Supplement 1): 129.
13. Dixon LB, Dickerson F, Bellack A, Bennett M, Calmes C, Dickinson D, Goldberg R, Lehman A, Pasillas R, Peer J, Tenhula W, **Kreyenbuhl J**. The 2009 Schizophrenia PORT Psychosocial Treatment Recommendations. *Schizophrenia Bulletin* 2009; 35 (Supplement 1): 129.
14. Brown CH, Leith J, Dickerson FB, Medoff MR, Fang L, **Kreyenbuhl J**, Goldberg RW, Potts W, Dixon LB. Predictors of mortality in patients with serious mental illness and comorbid diabetes. *Schizophrenia Bulletin* 2009; 35 (Supplement 1): 35.
15. **Kreyenbuhl J**, Buchanan R, Kelly D, Noel J, Boggs D, Fischer B, Himelhoch S, Fang B, Peterson E, Aquino P, Keller W. The 2009 schizophrenia patient outcomes research team (PORT) psychopharmacological treatment recommendations. *International Clinical Psychopharmacology* 2011; 26:e54-e55. doi: 10.1097/01.yic.0000405726.61759.a4.

Other Brief Communications

1. **Kreyenbuhl J**, Valenstein M, McCarthy JF. Polypharmacy and adverse drug reactions: in reply. *Psychiatric Services* 2007; 58(7):1011-12.
2. **Kreyenbuhl J**, Olfson M, Marcus SC. Adding or switching antipsychotic medications: in reply. *Psychiatric Services* 2007; 58(10):1375-6.

Major Invited Speeches

Invited Speaker, Grand Rounds, Springfield Hospital Center: “*Ethnic Considerations in the Psychopharmacologic Treatment of Schizophrenia*,” Sykesville, Maryland, December, 2000.

Invited Speaker, Grand Rounds, Crownsville State Hospital: “*Ethnic Considerations in the Psychopharmacologic Treatment of Schizophrenia*,” Crownsville, Maryland, December, 2000.

Invited Speaker, Temple University Department of Continuing Medical Education Conference: Atypical Antipsychotic Medications: A Review of Metabolic, Clinical, and Legal Concerns: “*Understanding Type 2 Diabetes Outcomes among Individuals with Severe Mental Illnesses*,” Philadelphia, Pennsylvania, October, 2004.

Invited Speaker, Dartmouth Psychiatric Research Center: “*Shared Decision-Making for Medication Treatments in Individuals with Severe Mental Illness: A Research Agenda*,” Hanover, New Hampshire, January, 2006.

Invited Panel Speaker, 47th Annual New Clinical Drug Evaluation Unit Meeting: “*Use of Medications to Reduce Cardiovascular Risk Among Individuals with Psychotic Disorders and Type 2 Diabetes*,” Boca Raton, Florida, June, 2007.

Invited Speaker, 2007 Government Supported Benefits Summit Meeting: *"Quality of Diabetes Care for Individuals with Serious Mental Illnesses,"* Park City, Utah, September, 2007.

Invited Speaker, Representatives of the Maryland Mental Hygiene Administration and the Core Service Agencies of the Maryland Public Mental Health System: *"Use of Medications to Reduce Cardiovascular Risk among Individuals with Psychotic Disorders and Type 2 Diabetes,"* Baltimore, Maryland, December, 2007.

Invited Speaker, A Workshop of the Institute of Medicine Roundtable on Evidence-Based Medicine, Best Practices in Health Care: Matching Practice with Opportunity, *"Use Case: Schizophrenia,"* Washington, D.C., September, 2008.

Invited Speaker, University of Maryland School of Medicine, Department of Psychiatry Grand Rounds: *"The 2009 Schizophrenia Patient Outcomes Research Team (PORT) Treatment Recommendations: Overview and Update Process,"* Baltimore, Maryland, March 2009.

Invited Speaker, Grand Rounds, Springfield Hospital Center: *"The 2009 Schizophrenia Patient Outcomes Research Team (PORT) Treatment Recommendations: Overview and Update Process,"* Sykesville, Maryland, April 2009.

Invited Speaker, VA Maryland Health Care System Research Day, Baltimore VA Medical Center. *"The Schizophrenia Patient Outcomes Research Team (PORT) Treatment Recommendations: 2009 Update,"* Baltimore, Maryland, May 2009.

Invited Speaker, National Institute of Mental Health-sponsored conference, Closing the Gaps: Reducing Disparities in Mental Health Treatment Through Engagement, *"Overview of Engagement in Mental Health Treatment and Evidence-Based Interventions for Enhancing Engagement in Individuals with Serious Mental Illness,"* Bethesda, Maryland, September 2011.

Invited Speaker, VA Health Services Research and Development (HSR&D) Service Cyberseminar, VIREC Clinical Informatics Seminar, *"A Patient-Centered Approach to Improve Screening for the Metabolic Side Effects of Second-Generation Antipsychotic Medication,"* October 2012.

Invited Speaker, Maryland Behavioral Health Research Conference, *"Smartphone Interventions to Improve Medication Adherence in Individuals with Psychiatric Disorders,"* Baltimore, Maryland, April 2013.

Invited Speaker, Stanley Medical Research Institute Spring Meeting, *"Medication Education and Adherence in Persons with Schizophrenia,"* Baltimore, Maryland, April 2014.

Invited Speaker, 2016 University of Maryland School of Social Work Richman Innovation Lecture Series: Using Technology to Improve the Care of Individuals with Severe and Persistent Mental Illness, *"Considerations in Using Mobile Technologies in Individuals with Serious Mental Illness,"* Baltimore, Maryland, April 2016.

Invited Panelist, VAMHCS Research and Development Service Grants/Funding Workshop, *"Getting Funded Panel Presentation,"* Baltimore, Maryland, November 2016.

Invited Speaker, University of Maryland Department of Psychiatry Grand Rounds, “*Creating a Learning Health System to Implement, Study, and Improve First Episode Psychosis Services*”, Baltimore, Maryland, March 2021.

Invited Speaker, VA Maryland Healthcare System/VISN 5 9th Annual Mental Health Summit: Engaging Early-VA Maryland’s Suicide Prevention HUB & Addressing Early Episode Psychosis in Maryland Communities, “*Creating a Learning Health System to Implement, Study, and Improve First Episode Psychosis Services*”, Baltimore, Maryland, September, 2021.

Invited Speaker, VA Maryland Healthcare System Psychology Continuing Education Series, “*Overview of VA/DoD Clinical Practice Guidelines: Pharmacotherapies for Schizophrenia, Depression, PTSD and Substance Use Disorders*”, Baltimore, Maryland, July 2023.

Proffered Communications

1. **Kreyenbuhl J**, Zuckerman I. (May 1996). Drug Therapy in the Prevention of Non-Steroidal Anti-Inflammatory Drug Induced Gastrointestinal Events. Poster presented at Graduate Student Research Day, University of Maryland, Baltimore.
2. **Kreyenbuhl J**, Zuckerman I. (April 1997). Patterns of Non-Steroidal Anti-Inflammatory Drug Use in Elderly Maryland Medicaid Recipients. Poster presented at the American Pharmacists Association Annual Meeting, Los Angeles, CA.
3. Zuckerman I, **Kreyenbuhl J**, Gilner MP, Walker L (April 1997). Prevalence of Potentially Inappropriate Drug Use in the Elderly Maryland Medicaid Population. Poster presented at the American Pharmacists Association Annual Meeting, Los Angeles, CA.
4. **Kreyenbuhl J**, Zuckerman I. (May 1997). Patterns of Non-Steroidal Anti-Inflammatory Drug Use in Elderly Maryland Medicaid Recipients. Poster presented at the Maryland Public Health Association Annual Meeting, Baltimore, MD.
5. **Kreyenbuhl J**, Zuckerman I. (May 1997). Patterns of Non-Steroidal Anti-Inflammatory Drug (NSAID) Use in Elderly Maryland Medicaid Recipients. Paper presented at Graduate Student Research Day, University of Maryland, Baltimore.
6. McNally DL, **Kreyenbuhl J**, Zuckerman IH. (April 1998). Patterns of Asthma Drug Use in a Medicaid Pediatric Population: A Retrospective DUR Analysis. Poster presented at the American Pharmacists Association Annual Meeting, Miami, FL.
7. McNally DL, **Kreyenbuhl J**, Zuckerman IH. (May 1998). Patterns of Asthma Drug Use in a Medicaid Pediatric Population: A Retrospective DUR Analysis. Poster Presented at the Maryland Public Health Association Annual Meeting, Baltimore, MD.
8. **Kreyenbuhl J**, Zito JM, Buchanan RW, Lehman AF. (May 1998). Pharmacoepidemiology of Schizophrenia: Findings from the Schizophrenia Patient Outcomes Research Team (PORT) Client Survey. Paper presented at Graduate Student Research Day, University of Maryland, Baltimore.
9. Duong QV, Kelly DL, **Kreyenbuhl J**, Love RC. (January 1999). An Investigation of the Clinical Correlates of Weight Gain in Patients Receiving Atypical Antipsychotics. Poster presented at the American Society of Health-System Pharmacists Annual Meeting, Orlando, FL.
10. **Kreyenbuhl J**, Zito JM, Buchanan RW, Lehman AF. (November 1999). Ethnic Disparity in Psychopharmacologic Treatments for Schizophrenia: Findings from the Schizophrenia PORT Client Survey. Paper Presented at the American Public Health Association Annual Meeting, Chicago, IL.

11. Conley RR, **Kreyenbuhl J**, Kelly DL. (February 2000). Circumstances of Suicide among Individuals with Schizophrenia. Poster presented at the Tenth Biennial Winter Workshop on Schizophrenia, Davos, Switzerland.
12. **Kreyenbuhl J**, Kelly DL, Conley RR. (May 2000). Circumstances of Suicide among Individuals with Schizophrenia. Poster presented at The American Psychiatric Association Annual Meeting, Chicago, IL.
13. **Kreyenbuhl J**, Kelly DL, Love RC, Conley RR. (May 2000). An Evaluation of Clozapine Discontinuation in a Public Mental Health System. Poster presented at the 40th Annual New Clinical Drug Evaluation Unit Annual Meeting, Boca Raton, FL.
14. **Kreyenbuhl J**, Marcus SC, West JC, Wang PS, Olfson M, Narrow W. (June 2002). Prescription of Combination Antipsychotic Treatments in a National Sample of Individuals with Schizophrenia-Spectrum Disorders. Poster presented at the 42nd Annual New Clinical Drug Evaluation Unit Annual Meeting, Boca Raton, FL.
15. Dixon LB, **Kreyenbuhl J**, Dickerson F, Goldberg R, Delahanty J. (June 2002). Quality and Outcomes of Diabetes Care for Individuals with Serious Mental Illnesses. Poster presented at the Academy for Health Services Research and Health Policy Annual Research Meeting, Washington, D.C.
16. Kelly DL, Dixon L, **Kreyenbuhl J**, Lehman AF, Love RC, Medoff D, Brown C, Conley RR. (June 2005). Clozapine Utilization and Outcomes by Race in a Public Mental Health System. Poster presented at the 45th Annual New Clinical Drug Evaluation Unit Annual Meeting, Boca Raton, FL.
17. **Kreyenbuhl J** (June 2007). Use of Medications to Reduce Cardiovascular Risk Among Individuals with Psychotic Disorders and Type 2 Diabetes. Paper presented at the 47th Annual New Clinical Drug Evaluation Unit Meeting, Boca Raton, FL.
18. **Kreyenbuhl J**, Dixon LB, McCarthy JF, Soliman S, Valenstein M (February 2008). Adherence to Oral Hypoglycemic Medications among VA Patients with Schizophrenia and Type 2 Diabetes. Poster presented at the 2008 VA Health Services Research and Development Service Annual Meeting, Baltimore, MD.
19. Himelhoch S, Leith J, **Kreyenbuhl J**, Goldberg R, Medoff D, Dixon L (May 2008). Care and Management of Cardiovascular Risk Factors among Individuals with Type 2 Diabetes who Smoke. Poster presented at the American Psychiatric Association Annual Meeting, Washington, DC.
20. **Kreyenbuhl J**, Buchanan RW, Dixon LB, Dickerson F. (March 2009). The 2009 Schizophrenia Patient Outcomes Research Team (PORT) Treatment Recommendations: Overview and Update Process. Paper presented at the 12th International Congress on Schizophrenia Research, San Diego, CA.
21. **Kreyenbuhl J**, Buchanan RW, Kelly DL, Noel JM, Boggs DL, Fischer BA, Himelhoch S, Fang B, Peterson E, Aquino PR, Keller W. (November 2009). The 2009 Schizophrenia PORT Psychopharmacological Treatment Recommendations and Summary Statements. Paper presented at the 15th Biennial Winter Workshop in Psychoses, Barcelona, Espana.
22. **Kreyenbuhl J** (May 2011). A Patient-Centered Health Technology Intervention to Improve Screening for the Metabolic Side Effects of Second-Generation Antipsychotic Medications. Paper presented at the 2011 Annual Meeting of the American Psychiatric Association, Honolulu, Hawaii.
23. **Kreyenbuhl J**, Dixon LB, Medoff DR, Rotondi A (August 2011). A Patient-Centered Approach to Improve Screening for Side Effects of Second-Generation Antipsychotics. Poster presented at the 5th Veterans Health Administration Mental Health Conference: Improving Veterans Mental Health Care for the 21st Century, Baltimore, Maryland.

24. Himelhoch S, Slade E, **Kreyenbuhl J**, Dixon L (November 2011). Utilization of PTSD Services by OEF/OIF Veterans with PTSD in VISN 5. Poster presented at the International Society for Traumatic Stress Studies, Baltimore, MD.
25. **Kreyenbuhl J**, Dixon LB, Brown C, Medoff DR, Fang L (June 2013). A Patient-Centered Approach to Improve Screening for Side Effects of Second-Generation Antipsychotics. Paper presented at the AcademyHealth Annual Research Meeting, Baltimore, Maryland.
26. **Kreyenbuhl J**, Slade EP, Medoff DR, Li L, Kilbourne A, Dixon LB (June 2013). Gender Differences in Prescription of Antipsychotics and Mood Stabilizers with Weight Gain Potential among Veterans with Serious Mental Illness. Poster presented at the AcademyHealth Annual Research Meeting, Baltimore, Maryland.
27. Klingaman E, Medoff D, Brown CH, Fang L, **Kreyenbuhl J** (June 2013). Among Veterans with Serious Mental Illness, What Predicts Satisfaction with Psychiatry Visits? The Role of Shared Decision-Making. Poster presented at the University of Maryland Department of Psychiatry Research Day, Baltimore, MD.
28. Klingaman E, Medoff D, Brown CH, Fang L, **Kreyenbuhl J** (November 2013). Predicting Satisfaction with Psychiatry Visits: Self-Efficacy, Preferences for Participating in Decision-Making, and Provider Communication. Poster presented at the Association for Behavioral and Cognitive Therapies, Nashville, TN.
29. Hack S, Brown CH, Fang L, Dixon L, Klingaman E, Park S, Adams C, **Kreyenbuhl J** (June 2014). Racial Differences in Preferences for Shared Decision-Making and Patient-Clinician Communication Among Veterans with Serious Mental Illness. Poster presented at the University of Maryland Department of Psychiatry Research Day, Baltimore, MD.
30. **Kreyenbuhl J**, Slade EP, Medoff DR, Li L, Schwartz E, Charlotte M, Kilbourne A, Dixon LB (July 2014). Gender Differences in Prescription of Antipsychotics and Mood Stabilizers with Weight Gain Potential among Veterans with Serious Mental Illness. Poster presented at the National VA HSR&D Conference on Enhancing Partnerships for Research and Care of Women Veterans, Arlington, VA.
31. Klingaman EA, Goldberg R, Verchinina L, **Kreyenbuhl J**, Littman A, Damschroder L, Kim HM, Hoerster K, Janney C, Owen R, Goodrich D, Lai Z (July 2014). Weight Loss for Women with Serious Mental Illness after Participation in a National VA Weight Management Program. Poster presented at the National VA HSR&D Conference on Enhancing Partnerships for Research and Care of Women Veterans, Arlington, VA.
32. Drapalski A, **Kreyenbuhl J**, Freeman M, Cohen L, Levine B, Harrison-Restelli C, Feibus K, Hickman R, McCutcheon S, Zephyrin (July 2014). Assessing the Reproductive Mental Health Training Needs and Interests of VA Mental Health Providers. Paper presented at the National VA HSR&D Conference on Enhancing Partnerships for Research and Care of Women Veterans, Arlington, VA.
33. Record EJ, **Kreyenbuhl J** (July 2014). A Smartphone Intervention to Improve Adherence to Antipsychotic Medications. Poster presented at the University of Maryland School of Medicine Student Research Forum, Baltimore, Maryland.
34. Record EJ, **Kreyenbuhl J** (September 2014). A Smartphone Intervention to Improve Adherence to Antipsychotic Medications. Poster presented at the University of Maryland School of Medicine 37th Annual Medical Student Research Day, Baltimore, Maryland (2nd place award).
35. Welsh C, Miles-McLean H, Medoff D, **Kreyenbuhl J**, Brownley J, Bailey-Kloch M, Potts W, Rugle L, Himelhoch S (September 2014). Risk of Gambling Disorder and Associated Gambling Behaviors among Those Attending Methadone Maintenance. Poster

- presented at the Annual Meeting for the National Center for Responsible Gaming, Las Vegas, NV.
36. Himelhoch S, Welsh C, Miles-McLean H, Medoff D, **Kreyenbuhl J**, Brownley J, Bailey-Kloch M, Potts W, Rugle L (September 2014). Brief Screening for Pathological Gambling in the Substance Abuse Treatment Setting. Poster presented at the Annual Meeting for the National Center for Responsible Gaming, Las Vegas, NV.
 37. Hack S, Brown CH, Fang L, Dixon L, Klingaman E, Park S, Adams C, **Kreyenbuhl J** (January 2015). Racial Differences in Preferences and Behaviors in Patient-Provider Communication among Veterans with Serious Mental Illness. Poster presented at the Society for Social Work and Research, New Orleans, LA.
 38. Drapalski AL, **Kreyenbuhl J**, Lucksted A, Federline A. (July 2017). Understanding the Contraceptive Counseling Needs of Women with Mental Illness. Poster presented at the 2017 HSR&D/ QUERI National Conference, Arlington, VA.
 39. Federline A, **Kreyenbuhl J**, Lucksted A, Drapalski A. (August, 2017). Understanding the Family Planning Needs of Women with Mental Illnesses. Poster presented at the 2017 American Psychological Association National Convention, Washington DC.
 40. Bennett ME, **Kreyenbuhl JA**, Wilkins L. (February 2018). Tobacco dependence and smoking cessation: Reaching Veterans with serious mental illness. Paper presented at the 24th Annual Meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.
 41. Weiser M, Davis J, Brown CH, Slade EP, Fang LJ, Medoff DR, Buchanan RW, Ryan AT, **Kreyenbuhl J** (December 2018). Drug discovery for schizophrenia using a data-driven approach. *Poster* presented at the 57th Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL.
 42. Stahl N, **Kreyenbuhl J**, Lucksted A, Wilkins L, Coakley G, Bennett M. (February 2019). Feasibility and Acceptability of a Telephone-Based Smoking Cessation Program for an Inpatient SMI Veteran Sample. *Poster* presented at the Annual Meeting of the Society for Research on Nicotine & Tobacco, San Francisco, CA.
 43. Muralidharan A, Brown CH, Zhang Y, Niv N, Cohen AN, **Kreyenbuhl J**, Oberman RS, Goldberg RW, Young AS. (March 2019). Effectiveness of Web-Based and In-Person Weight Management for Adults with Serious Mental Illness: Quality of Life Outcomes. Paper presented at Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, Washington, DC.
 44. **Kreyenbuhl J**, Slade EP, Medoff DR, Fang L, Hanrahan NP, Dixon L. (June 2021). Comparing the Quality of Behavioral Health Medication Prescribing for Serious Mental Illness between Advanced Practice Registered Nurses and Psychiatrists in the United States. Poster presented at the AcademyHealth Annual Research Meeting.
 45. Boumaiz Y, Li L, **Kreyenbuhl JA**, RachBeisel J, Knight S, Bennett ME, Davis BJ. (April 2023). Evaluating Racial Differences in Inpatient Hospital Experience: A Preliminary Descriptive Analysis. Poster presented at the University of Maryland School of Medicine Department of Psychiatry Research Day.
 46. Bryant E, Vyas G, Glassman M, Wonodi I, Reeves G, Richardson C, Wehring H, Buchanan R, Weiner E, Liu F, Kearns A, Adams H, Love RC, Lanzkron S, Barr B, Ehret M, Davis E, Nucifora F, Hunt J, Letvin N, Leistikow N, Pugh S, Ball P, **Kreyenbuhl J**, Kelly DL. (April 2023). Preliminary Analysis of the Champion Clozapine Treatment Consultation Center. Poster presented at the University of Maryland School of Medicine Department of Psychiatry Research Day.
 47. Klingaman, E. A., Howell, M. K., Brown, C. H., Li, L., **Kreyenbuhl, J.**, Taylor, M., Glier, J., Vivino, A. (2023, June). CBT-I for psychosis leads to changes in diary and

actigraphy-assessed sleep parameters. Poster presented at the 37th Annual Meeting of the Associated Professional Sleep Societies, Indianapolis, IN.

Professional Licensure

Maryland Pharmacist License #13157 (since 1993)

References

Available upon request