

## CURRICULUM VITAE

**DATE PREPARED:** September 25, 2009

### **PART I: General Information**

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**Place of Birth:** Philadelphia, PA

#### **Education:**

1990	B.A., NEW YORK U. COLLEGE OF ARTS + SCI
1994	M.D., JOHNS HOPKINS U. SCHOOL OF MEDICINE
2000	M.S. (Health Policy and Management), Harvard School Of Public Health

#### **Postdoctoral Training:**

07/94-06/95	Intern, Medicine-Psychiatry , The Johns Hopkins Bayview Medical Center
07/94-06/98	Resident, Psychiatry , The Johns Hopkins Hospital Department of Psychiatry and Behavioral Sciences
07/98-06/00	Postdoctoral Fellow, Mental Health Policy and Mental Health Services Research, Department of Health Care Policy, Harvard Medical School

#### **Licensure and Certification:**

1996	Maryland Medical License, currently inactive status
1998	Massachusetts Controlled Substance Practitioner Registration
1998	Massachusetts Medical License
1999	National Board of Psychiatry and Neurology Certification
1999	D.E.A. Controlled Substance Registration Certificate
2004	CSAT Opioid Maintenance and Detoxification Waiver Certification

#### **Academic Appointments:**

1998-2000	Research Fellow in Health Care Policy, Department of Health Care Policy, Harvard
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Medical School, Boston, MA  
 2000-2001 Lecturer on Health Care Policy, Health Care Policy, Boston, MA  
 2000-2007 Instructor in Psychiatry, Psychiatry Consolidated Department, Belmont, MA  
 2000-2007 Instructor in Psychiatry, Psychiatry-McLean Hospital, Belmont, MA  
 2006-2007 Instructor in Health Care Policy , Harvard Medical School, Boston, MA  
 2007- Assistant Professor of Health Care Policy, Harvard Medical School, Boston, MA  
 2007- Assistant Professor of Psychiatry, Psychiatry Consolidated Department, Boston, MA  
 2007- Assistant Professor of Psychiatry, McLean Hospital, Belmont, MA

**Hospital or Affiliated Institution Appointments:**

07/00-07/07 Instructor in Psychiatry, McLean Hospital, Belmont, MA  
 07/00-08/09 Psychiatrist-in-Charge, McLean Hospital, Belmont, MA  
 07/00-06/07 Assistant Psychiatrist, McLean Hospital, Belmont, MA  
 07/07- Assistant Professor of Psychiatry, McLean Hospital, Belmont, MA  
 07/07- Associate Psychiatrist, McLean Hospital, Belmont, MA

**Other Professional Positions and Major Visiting Appointments:**

1991 U.S. Public Health Service, COSTEP Program, SA-Lantic Community Health Center, Hammonton, NJ  
 1997 Administrative Resident, The Johns Hopkins Department of Psychiatry and Behavioral Science, Baltimore, MD  
 1998-1999 Emergency Room Psychiatrist, Cambridge Hospital, Cambridge, MA  
 1999-2001 Consultant in Quality Management Methodology, Metropolitan Suburban Area Office, Office of the Area Medical Director, Medfield, MA  
 2000-2001 Consultant, American Psychiatric Association, Washington, D.C.  
 2001-2003 Member, Content Review Board, Strategic Institute for Continuing Health Care, Education, Strategic Implications International  
 2003-2008 Network Associate, MacArthur Foundation Research Network on Mandated Community Treatment  
 2004-2005 Consultant, RTI International, Research Triangle Park, NC  
 2008- Network Member, MacArthur Foundation Research Network on Mandated Community Treatment

**Hospital and Health Care Organization Clinical Service Responsibilities:**

2000-2009 Psychiatrist-in-Charge, Alcohol and Drug Abuse Treatment Partial Hospital Program, McLean Hospital  
 2003-2005 Coordinator, Neuroscience Seminar, McLean Hospital  
 2009- Director, Integration of Clinical Measurement and Health Services Research, McLean Hospital

**Major Committee Assignments:**

**Regional**

1996-1998 Legislative Committee, Maryland Psychiatric Association  
 1997-1998 Residents' Committee, Maryland Psychiatric Association  
 1997-1998 Council, Maryland Psychiatric Association

## **National**

- 1996-1998 Board of Trustees, American Psychiatric Association
- 1997-1998 1998 Forum Planning Committee, National Consortium of Professional Residency Organizations
- 1998-1999 Subcommittee on APA Governance, Strategic Planning Task Force, American Psychiatric Association
- 1998-1999 Membership Committee, American Psychiatric Association
- 1998-1999 Executive Leadership Committee, American Psychiatric Association
- 1999-2005 Committee on Health Services Research, American Psychiatric Association
- 2000-2005 Committee on Reimbursement for Psychiatric Care, American Psychiatric Association
- 2000-2005 Practice Research Network (PRN) Scientific Advisory Committee, American Psychiatric Association
- 2009- Committee on the Qualifications of Professionals Providing Mental Health Counsel, Institute of Medicine

## **Professional Societies:**

- 1994- American Psychiatric Association, Member
- 1994-1998 Maryland Psychiatric Society, Member
- 1994-2004 Association of Women Psychiatrists, Inc., Member
- 1994-2004 American Medical Association, Member
- 1998- Massachusetts Psychiatric Society, Member
- 1998-2004 American Association of Community Psychiatrists, Member

## **Editorial Boards:**

- 2003- Reviewer, Social Psychiatry and Psychiatric Epidemiology
- 2003 Reviewer, Addiction
- 2004- Reviewer, Biological Psychiatry
- 2004- Reviewer, Psychiatric Services
- 2004- Reviewer, Archives of General Psychiatry
- 2005 Editor, Special Section on Seclusion and Restraint, Psychiatric Services
- 2005-2006 Editor, Special Section on Health Services Research, Harvard Review of Psychiatry
- 2007- Reviewer, New England Journal of Medicine
- 2007- Reviewer, Medical Care

## **Awards and Honors:**

- 1993 Hartford Foundation Clinical Scholar in Geriatric Medicine, Johns Hopkins U. School Of Medicine
  - 1999 Scholar, vanAmeringen/American Psychiatric Association Health Services Research Scholarship Program, American Psychiatric Association
  - 2001 Junior Investigator Research Colloquium, American Psychiatric Association
  - 2003-2005 Maria Lorenz-Pope Fellowship, McLean Hospital
  - 2004-2006 Alcohol Medical Scholar, Alcohol Medical Scholars Program
  - 2004 Alfred Pope Award for Young Investigators, McLean Hospital
  - 2006 Bipolar Career Development Institute, Other
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## **Part II: Research, Teaching, and Clinical Contributions**

### **A. Narrative report of Research, Teaching, and Clinical Contributions**

My primary research interests are in measuring the quality of mental health care and understanding how system wide policy and financing arrangements affect usual care mental health treatment quality. My research measures quality in the public and private sectors for a variety of psychiatric illnesses such as depression, bipolar disorder, schizophrenia, and co-occurring substance use disorders. The nature of this research requires that I bridge several medical, scientific and research disciplines: psychiatry, substance use disorder comorbidity, health disparities, economics, statistics and sociology. As an example, my K01 grant "Quality of Care for Bipolar Disorder" aims to: 1) determine how best to use clinical trial data in determining patient and provider characteristics to predict bipolar disorder outcomes, 2) apply that information to a usual care insurance dataset to simulate outcomes and the system cost effectiveness for bipolar disorder, and 3) determine clinic site characteristics associated with bipolar disorder treatment quality and outcomes. I am also conducting research that examines the diffusion of new pharmaceutical treatment technologies (e.g., second generation antipsychotics, novel anticonvulsants, and antidepressant reformulations) into routine psychiatric practice.

I teach and supervise students and trainees at the undergraduate, medical school and postgraduate levels. My Harvard Medical School teaching activities include introducing first year medical students to patients with substance use disorders as part of the Patient Doctor Course I and lecturing in the Psychopathology and Introduction to Clinical Psychiatry course for second year medical students in the spring and fall. While an attending physician at McLean Hospital's Alcohol and Drug Abuse Treatment Program (until August 2009), I supervised the Addiction Fellow during his or her rotation in the McLean Hospital Alcohol and Drug Abuse Treatment Program partial hospital. Also, several times a year I conducted didactic patient interview seminars for the PGY-III residents rotating through the inpatient detoxification unit at McLean, as well as weekly didactic patient interviews for the PGY-I interns during their one month rotation on the inpatient detoxification unit at McLean. I have been an invited speaker to local professional group conferences, educating about the diagnosis and treatment of co-occurring psychiatric and substance use disorders, as well as to an educational training seminar for peer-health college educators about the physiology and health consequences of alcohol and drug use disorders. Additionally, I serve in an advisory/mentoring role for mental health policy and services research trainees (both pre- and post-doctoral) at the Harvard Medical School Department of Health Care Policy. For non-physician trainees, this typically involves advising them by providing a medical perspective to their health services research. For psychiatrist trainees, my role is to help the trainee bridge the gap between clinical expertise and the transition to a clinician scientist and researcher in this multidisciplinary research field.

From 2000 until August 2009, I was a Psychiatrist-in-Charge at McLean's Alcohol and Drug Abuse Treatment Center Partial Hospital Program and therefore responsible for overseeing the care provided in our multi-disciplinary treatment team. Also, as the attending psychiatrist, I was responsible for the diagnosis and treatment of co-occurring psychiatric disorders, as well as substance use disorder treatment.

As McLean Hospital's Director, Integration of Clinical Measurement and Health Services Research, I am the physician responsible for implementing McLean's new electronic medical record. My role is to ensure that the electronic medical record both facilitates high quality clinical care and serves as a platform for clinical and health services research within the hospital.

### **B. Funding Information**

2002-2005 Investigator, N.I.H., R01 DA015968, Modifying Group Therapy for Bipolar

Substance Abusers  
 2003-2005 P.I., McLean Hospital Maria Lorenz Pope Fellowship , Effect of a Carve-Out on Quality of Care for Medicaid Persons Diagnosed with Schizophrenia  
 2004-2005 Investigator, N.I.H., R01 MH069721, Economic Impacts of New Drugs  
 2004-2005 P.I., Foundation, Women with Co-Occurring Psychiatric and Substance Use Disorders: Treatment Mandates to Retain Child Custody and Parental Rights  
 2005 Investigator, N.I.H., R01MH061434, Modeling Treatment Use & Effectiveness in Mental Illness  
 2006-2010 P.I., N.I.H., K01MH071714, Quality of Care for Bipolar Disorder  
 2008-2011 Investigator, N.I.H., R01 MH080797, Effects of Mental Health Parity on High-Cost and Severely-Ill Individuals

**D. Report of Teaching**

**1. Local contributions**

**a. Medical School Courses**

2003-	<u>Patient-Doctor Course I</u>		<i>contact time</i>	<i>prep time</i>
	Preceptor	10 Medical Students	1 hours/year for 1 year(s)	none reported
2006-	<u>Psychopathology and Introduction to Clinical Psychiatry</u>		<i>contact time</i>	<i>prep time</i>
	Lecturer	150 Medical Students	2 hours/year for 1 year(s)	20 hours/year for 1 year(s)

**b. Graduate Medical Courses**

2003-2005	<u>McLean Hospital Neuroscience Seminar</u>		<i>contact time</i>	<i>prep time</i>
		20 Graduate Students 15 Post-doc Students	1 hours/week for 100 week(s)	1 hours/week for 100 week(s)
2004	<u>Resident Outpatient Psychiatry Tutorial Series</u>		<i>contact time</i>	<i>prep time</i>
	Lecturer	6 Residents	1 hours/year for 1 year(s)	5 hours/year for 1 year(s)

**c. Local Invited Presentations**

**Conference**

2008 Substance Use Disorders: Diagnosis and Treatment, National Association of Social Workers, Massachusetts Chapter  
 Attending: 100 participants, 1 hour contact time per year, 3 hours prep time per year

**Seminar**

2006 Health Consequences of Substance Use Disorders, Harvard University Health Services--Drug and Alcohol Peer Advisors

Lecturer: 12 participants, 1 hour contact time per year, 10 hours prep time per year

**d. Continuing Medical Education Courses**

2004      Psychiatry 2004  
Lecturer: 200 participants, 1 hour contact time per year, 40 hours prep time per year

**e. Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting**

- 2000-      3 Graduate Students and Post-Doctoral Fellows for 12 hrs/year, Mentoring non-MD and psychiatrist pre/post doctoral health services research trainees, Harvard Medical School, Department of Health Care Policy
- 2001-2005    3 Residents and Addiction Fellow for 4 hrs/year, Addiction Psychiatry Consult Service, McLean Hospital
- 2005-      3 PGY III Residents for 4 hrs/year, Didactic Patient Interviewing Seminar, McLean Hospital
- 2005-2007    1 Fellow for 10 hrs/year, Supervision of addiction fellow in partial hospital program, McLean Hospital
- 2007-      2 Fellows for 20 hrs/year, Supervision of addiction fellows in partial hospital program, McLean Hospital
- 2007-      2 PGY I Interns for 50 hrs/year, Weekly didactic patient-interview teaching seminar of the PGY-I interns on the inpatient detoxification service, McLean Hospital

**g. Advisees/Trainees**

<i>Training Duration</i>	<i>Name</i>	<i>Current Position</i>
2005-2006	Suzan Song, MD, MPH	Child Psychiatry Fellow
2005	Karsten Kueppenbender, MD	Instructor in Psychiatry
2006-	Catherine Fullerton, MD, MPH	Instructor in Psychiatry
2006	Rocco Iannucci, MD	Attending Psychiatrist
2007	Kevin Hill, MD	Instructor in Psychiatry
2008	Abigail Schein, MD	Attending Psychiatrist
2008-	Katy Backes Kozhimannil	Post-Doctoral Fellow
2008-	Amy Bauer, MD	Post-Doctoral Fellow
2008-	Carlos Suarez, MD	Clinical Fellow

**2. Regional, national, or international contributions**

**a. Invited Presentations**

**Regional**

2003-      Effect of a Managed Behavioral Health Care Carve-Out on Quality of Care for Schizophrenia, Florida Mental Health Institute, University of South Florida [*Invited Lecture*]

**National**

- 2004 Schizophrenia, Co-Occurring Substance Use Disorders and Quality in a Behavioral Health Carve-Out , NIMH, NIDA, NIAA, SAMHSA [*Panel Presentation*]
- 2006 Impact of Parity on the Quality of Care for Major Depression , American Public Health Association [*Panel Presentation*]
- 2008 Community Treatment of Bipolar Depression: Service Utilization and Quality, American Psychiatric Association [*Invited Lecture*]
- 2008 What's Behind the Explosion & Use of Psychotropic Medication? , Academy Health Annual Research Meeting [*Invited Lecture, Discussant*]

### **E. Report of Clinical Activities**

- 2000- Psychiatry, Addiction, McLean Hospital  
Clinical Activity Description: Psychiatrist-in-Charge at the McLean Hospital Alcohol and Drug Abuse Treatment Center Partial Hospital Program.  
Patient Load: 6-8 patients per week in the partial hospital program; >95% of this patient population also has co-occurring psychiatric illness.
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## Part III: Bibliography

### Original Articles

1. Busch AB. Maryland's Medicaid Reform: Will the Gain Outweigh the Pain? in Economic Grand Rounds, Psychiatric Services. 1998;49(6):743-746.
2. Cuffel BJ, Azocar F, Tomlin M, Greenfield SF, Busch AB, Croghan, TW. Remission, Residual Symptoms, and Nonresponse in the Usual Treatment of Major Depression in Managed Clinical Practice. Journal of Clinical Psychiatry. 2003;64(4):397-402.
3. Busch AB, Frank RG, and Lehman AL. The Effect of a Managed Behavioral Health Care Carve-Out on Quality of Care for Medicaid Patients Diagnosed with Schizophrenia. Archives of General Psychiatry. 2004;61(5):442-448.
4. Frank RG, Berndt ER, Busch AB, Lehman AF. Quality Constant "Prices" for the Ongoing Treatment of Schizophrenia: An Exploratory Study. Quarterly Review of Economics and Finance. 2004;44(3):390-409.
5. Busch AB, Frank RG, Lehman AF, Greenfield SF. Schizophrenia, Co-Occurring Substance Use Disorders and Quality of Care: The Differential Effect of a Managed Behavioral Health Care Carve-Out. Administration and Policy in Mental Health and Mental Health Services Research. 2006;33(3):388-397.
6. Busch AB, Huskamp HA, Normand S-LT, Young AS, Goldman HH and Frank RG. The Impact of Parity on Major Depression Treatment Quality in the Federal Employees' Health Benefits Program. Medical Care. 2006;44(6):506-512.
7. Goldman HH, Frank RG, Burnam MA, Huskamp HA, Ridgely MS, Normand S-LT, Young AS, Barry CL, Azzone V, Busch AB, Azrin ST, Moran G, Lichtenstein C, Blasinsky M. Behavioral Health Insurance Parity for Federal Employees. New England Journal of Medicine. 2006;354(13):1378-1385.
8. Busch AB, Ling DC, Frank RG, Greenfield SF. Changes in Bipolar-I Disorder Quality of Care During the 1990's. Psychiatric Services. 2007;58(1):27-33.
9. Azrin ST, Huskamp HA, Azzone V, Goldman HH, Frank RG, Burnam MA, Normand S-LT, Ridgely MS, Young AS, Barry CL, Busch AB, Moran G. Impact of Full Mental Health and Substance Abuse Parity for Children in the Federal Employees Health Benefits Program. Pediatrics (electronic pages). 2007;119(2):452-459.
10. Busch AB, Redlich AD. Patients' Perception of Possible Child Custody or Visitation Loss if Not Adherent to Psychiatric Treatment. Psychiatric Services. 2007;58(7):999-1002.
11. Busch AB, Huskamp HA, Landrum MB. Bipolar-I Disorder in a Medicaid Population: Correlates of Quality of Care. Psychiatric Services. 2007;58(6):848-854.
12. Berndt ER, Busch AB, Frank RG, Normand SL. Real Output in Mental Health Care During the 1990's. Forum for Health Economics and Policy. 2007;9(1):Article 5.
13. Busch AB, Frank RG, Sachs G. Bipolar-I Depression Outpatient Treatment Quality and Costs in Usual Care Practice. Psychopharmacology Bulletin. 2008;41(2):24-39.
14. Domino ME, Maxwell J, Cody M, Cheal K, Busch AB, Van Stone WW, Cooley SG, Zubritsky C, Estes CL, Shen Y, Lynch M, Grantham S, Wohlford P, Aoyama MC, Fitzpatrick J, Zaman S, Dodson J, Levkoff SE. The Influence of Integration on the Expenditures and Costs of Mental Health and Substance Use Care: Results From the Randomized PRISM-E Study. Ageing International (online). 2008.
15. Busch AB, Frank RG, Sachs G, Normand SLN. Bipolar-I Patient Characteristics Associated with Differences in Antimanic Medication Prescribing. Psychopharmacology Bulletin. 2009;42(1):35-49.

16. Busch AB, Lehman AF, Goldman HH, Frank RG. Changes Over Time and Disparities in Schizophrenia Treatment Quality. *Medical Care*. 2009;44(6):199-207.
17. Huskamp HA, Busch AB, Domino ME, Normand, S.-L.T. Antidepressant Reformulations: Weighing Costs and Benefits. *Health Affairs*. 2009;in press.
18. Busch AB, Huskamp HA, Neelon B, Manning T, Normand SLT, McGuire T. Longitudinal Racial/Ethnic Disparities in Antimanic Medication Use in Bipolar-I Disorder" . *Medical Care*. 2009;(accepted).

### **Reviews/Chapters/Editorials**

1. Busch AB, Shore MF. Seclusion and Restraint: A Review of Recent Literature. *Harvard Review of Psychiatry*. 2000;8(5):261-270.
2. Busch AB, Sederer LI. Assessing Outcomes in Psychiatric Practice: Guidelines, Challenges, and Solutions. . *Harvard Review of Psychiatry*. 2000;8(6):323-327.
3. Busch AB. Validity and Reliability and Other Key Concepts in Outcomes Assessment and Services Research. In: *Outcome Measurement in Psychiatry*, eds. IsHak WW, Burt T, and Sederer LI. Washington, D.C.: APPI Press;2001.
4. Busch AB, Weiss RD and Najavits LM. Co-Occurring Substance Use Disorders and Other Psychiatric Disorders. In: *Clinical Textbook of Addictive Disorders*. Ed. Frances, Miller and Mack. New York: Guilford Publications;2005.

### **Abstracts**

1. Busch AB, Azzone V, Greenfield, SF. Early Treatment Termination of Depressed Outpatients in a Managed Care Environment. *American Psychiatric Association Annual Meeting*. 2000.
2. Ling D, Busch AB, Frank RF, Pakes J. Treatment Price Indexes for Bipolar Disorder. *NIMH Mental Health Economics Conference*. 2002.