Shailesh Jain, M.D., M.P.H., ABDA

Associate Professor

Department of Psychiatry

Division of Child & Adolescent Psychiatry

Texas Tech Health Science Center-Permian Basin

Odessa, TX 79763

Current Status:

Regional Chair
Associate Professor
Department of Psychiatry,
Division of Child & Adolescent Psychiatry
Texas Tech Health Science Center HSC- Permian Basin
October 2009- present

Board Certification:

Diplomate, American Board of Psychiatry and Neurology, 2006 (ABPN certificate # 55633)
Diplomate, American Academy of Child and Adolescent Psychiatry, (ABPN certificate # 6494)
Diplomate, American Board of Disability Analysts, 2008 (ABDA # 6632-08)
Diplomate American Board of Psychosomatic Medicine, 2009 (ABPN # 944)

Medical License:

Licensed in the state of Texas (license #L6960)

Professional Experience:

Assisitant Professor
Department of Psychiatry,
Division of Child and Adolescent Psychiatry
University of Texas Health Science Center, San Antonio

November 2006- September 2009

Professional Education:

Ruth L. Krischstein National Research Service Award
Sponsored as NIMH Research Fellowship (T32)
Mood Disorders Research Program & Clinic
Department of Psychiatry, University of Texas Southwestern Medical Center, Dallas
Supervisors/Mentors: John Rush, MD
November 2004 to November 2006

Fellow, Child and Adolescent Psychiatry Menninger Department of Psychiatry Baylor College of Medicine Houston, Texas November 2002 to November 2004 (2 years)

Resident, General Psychiatry Department of Psychiatry and Behavioral Sciences. University of Texas Medical Branch at Galveston (UTMB) November 1999 to November 2002 (3 years)

Master in Public Health (M.P.H.) Degree, University of North Texas School of Biomedical Sciences, Fort Worth, Texas. 1998

Medical Degree, University of Calcutta, India 1996

Professional Nomination:

Nominated as contributing faculty for Mood and Anxiety Disorders for 'facultyof1000medicine', a United Kingdom based established that reviews scientific papers. 2008

Experience:

House Staff (Residency) in Psychiatry Unit of Psychiatry, Calcutta Medical College, Calcutta. India December 1995 to June 1997

Visiting Fellowship in Electro Convulsive Therapy (ECT) University of Pittsburgh Western Psychiatric Institute, Pittsburgh, Pennsylvania August 2002

Visiting Fellowship in Cognitive Behavior Therapy (CBT) Beck Institute, Philadelphia, Pennsylvania September 2002

Awards:

Recipient, 2008, American Psychiatric Association Young Investigator Award.

Recipient, 2008 Future Leaders of Psychiatry Award. Sponsored by Lilly Pharmaceuticals and Emory University.

Recipient, 2006 American College of Neuropsychopharmacology / Sanofi - Aventis Pharmaceuticals Travel Award. A 3 year travel scholarship and ACNP annual meeting privileges.

Recipient, New Investigator Award
NCDEU, National Institute of Mental Health (NIMH) 2006

Recipient, Red Cross Volunteer Award;

For volunteering as mental health professional to Katrina effected displaced in Dallas in 2005

Recipient, Excellence in Teaching Award, University of Texas, Southwestern Medical Center, Dallas, 2006

Recipient, Travel Grant - NIMH, to attend "Child Depression Consortium Meeting" Hosted by the Academic Division of Child Psychiatry University of Pittsburgh Medical Center.

September 21-23,2003

National Merit Scholarship
Awarded by Bengal Council of Secondary Education, Calcutta, India - for
Academic Excellence, 1985

Nominations:

Nominated for *Fitzhugh Mullan Awardfor Resident Leadership*. Single nomination on behalf of the department of Psychiatry and Behavioral Sciences, UTMB, Galveston, TX.

August 2001

Nominated for *APAI Janssen Resident Travel Scholarship Program*. Single nomination on behalf of the Department of Psychiatry and Behavioral Sciences, UTMB, Galveston, TX.

August 2001.

Nominated for *Daniel X Freedman MD Congressional Fellowship* on behalf of the department of Psychiatry and Behavioral Sciences, UTMB, Galveston, TX November 2001.

Nominated for American Psychiatric Association Minority Fellowship Program on behalf of the department of Psychiatry and Behavioral Sciences, UTMB, Galveston, TX January 2002.

Nominated for *AP A/Bristol-Myers Squibb Fellowship in Public Psychiatry*. Single nomination on behalf of the department of Psychiatry and Behavioral Sciences, UTMB, Galveston, TX.

March 2002.

Nominated for 2003 George Ginsberg-AADPRT Fellowship Nomination. Single nomination on behalf of Department of Child and Adolescent Psychiatry, Baylor College of Medicine.

November 2002.

Papers Presented:

Relationship between low cholesterol and psychiatric disorder.

Author: Shailesh Jain MD

Paper presented at Indian Psychiatric Society Meeting, Kanpur, India.

January 1997

Psychiatric disorders in medical inpatients.

Author: Shailesh Jain MD

Paper presented at Indian Psychiatric Society Meeting, Kanpur, India.

January 1997

Poster Presentations:

'Can MADRS replace CDRS in Adolescent Depression Trials?' Shailesh Jain, MD, MPH, et. al NCDEU Annual Meeting. This paper was also awarded a "New Investigator Award" by NIMH. NCDEU, Boca Raton, Florida. June 2006

'A Pilot Test of an Adolescent Version of the Quick Inventory of Depressive Symptomatology Using Voice Recognition Technology'
Heidi More, Carroll Hughes, James C Mundt, John Rush, Shailesh Jain, Dayna Geralts, Ira Burnstein, Joseph Horrigan, Madhukar Trivedi, John Griest Presented at NCDEU, Boca Raton, Florida June 2006.

'Diurnal Mood Variation in Outpatients with Major Depressive Disorder: Implications for DSM-V'
David Morris, John Rush, Shailesh Jain, Maurizio Fava, Stephen Wisniewski, G K Balasumbramanium, Madhukar Trivedi
Presented at NCDEU, Boca Raton, Florida June 2006.

'How Reliable Are Parent Ratings of Adolescent Depression Symptoms?' To be presented at AACAP 2006. I am a contributing author.

Publications:

'Diurnal mood variation in outpatients with major depressive disorder'. Morris DW, Trivedi MH, Fava M, Wisniewski SR, Balasubramani GK, Khan AY, Jain Shailesh, Rush AJ. Depression and Anxiety. March 2009

'Psychometric Properties of the Quick Inventory of Depressive Symptomatology in Adolescents'. Ira H. Bernstein, Ph.D., A. John Rush, M.D., Madhukar H. Trivedi, M.D., Carroll W. Hughes, Ph.D., Laurie Macleod, R.N., Bradley P. Witte, BS,

Shailesh Jain, M.D., M.P.H., Graham J. Emslie, M.D. *International Journal of Methods in Psychiatric Research 2009*

'A Psychometric Evaluation of the CDRS and MADRS in Assessing Depressive Symptoms in Children' Shailesh Jain, M.D., M.P.H., Thomas J. Carmody, Ph.D., Madhukar H. Trivedi, M.D., Carroll Hughes, Ph.D., Ira H. Bernstein, Ph.D., David W. Morris Ph.D, Graham J. Emslie, M.D., A. John Rush, M.D. accepted for publication by Journal of American Academy of Child and Adolescent Psychiatry 2007

'A Pilot Study of an Electronic, Adolescent Version of the Quick Inventory of Depressive Symptomatology' Heidi K. Moore, Ph.D.;Carroll W. Hughes, Ph.D.;James C. Mundt, Ph.D.;John Rush, M.D.;Laurie Macleod R.N., C.R.C.C.;Graham J. Emslie, M.D.;Shailesh Jain, M.D., M.P.H.; Dayna S. Geralts, B.S.;Ira H. Berstein, Ph.D.;Joseph P. Horrigan, M.D.; Madhukar H. Trivedi, M.D.;John H. Greist, M.D. accepted for publication by Journal of Clinical Psychiatry, 2007

'Diurnal Mood Variation in Outpatients with Major Depressive Disorder: Implications for DSM- V' David W. Morris, Ph.D., A. John Rush, M.D., **Shailesh Jain, MD., MP.H.**, Maurizio Fava, M.D., Stephen R. Wisniewski, Ph.D., G.K. Balasubramani, Ph.D. Madhukar H. Trivedi, M.D. Accepted by Journal of Clinical Psychiatry, 2007

'Antidepressants and pain'. Perdro Delgado, MD, Shailesh Jain MD, MPH. Accepted for publication by Neuropsychiatric Disease and Treatment 2007.

Pros and cons of pill splitting May reduce cost and fine-tune therapy, but is it safe? Rakesh Jain, MD, MPH Shailesh Jain, MD, MPH The Journal of Family Practice Vol. 5, No. 12 / December 2006

'Pros and cons of pill splitting; May reduce cost and fine tune therapy, but is it safe?'-Rakesh Jain MD, MPH, Shailesh Jain MD, MPH. Current Psychiatry, p 144-5, vol 5, No 12, Dec 2006.

'Pros and cons of pill splitting' Rakesh Jain MD, MPH; Shailesh Jain MD, MPH. Journal of Family Practice. Vol 5, No 22, Dec.2006

'Pain and depression: implication for symptomatic presentations and pharmacological treatments' - Beverly Klieber PhD, Shailesh Jain MD MPH and Madhukar Trivedi, MD. Psychiatry' April 2005

'New trends of alcohol abuse in adolescent population in USA, how should school counselors deal with it' - Shailesh Jain, MD, MPH. Published in Behavior Medical Education Journal. UTMB, March 2002

'Dual transmitter reuptake inhibitors and depression' A review of literature of new antidepressants and their role on treating depression. - Rakesh Jain, MD, MPH, Shailesh Jain, MD, MPH. *Psychiatry Times*. June 2002

'Recognizing and treating posttraumatic stress disorder: a guide for the primary care physician' A review of literature for primary care physicians - Shailesh Jain, MD, MPH. Hospital Physician. 2002 Sep;38(9):28-36, 67

Book Reviews:

Book Reviewed: 'Cognitive-Behavioral Therapy for Bipolar Disorder' 2 Ed. Author Monica Ramirez Basco, A. John Rush.
Book Reviewer - Shailesh Jain, MD, MPH
Published: Journal of Psychiatric Practice Vol. 12, No.4 July 2006

Book Reviewed: 'Diagnosis in Multicultural Context' author - Dr. Paniagua. Book Reviewer - Shailesh Jain, MD, MPH Published in The Journal 'Medicine and Behavior' Fall 2001

Book Reviewed: 'Making Divorce Easier on Your Child'
Book Reviewer - Shailesh Jain, MD, MPH
Published in American Journal of Child and Adolescent Psychiatry, June 2002

Book Reviewed: 'Stress in College Athletics: causes, consequences, coping' Book Reviewer - Shailesh Jain, MD, MPH.
Published in American Journal of Child and Adolescent Psychiatry, December 2002

Book Reviewed: 'Stand by me: the risk and rewards of mentoring today's youth'. Book Reviewer - Shailesh Jain, MD, MPH Published in American Journal of Child and Adolescent Psychiatry, July 2002.

Book Reviewed: 'The many faces of depression in children and adolescent' Book Reviewer - Shailesh Jain MD,MPH,
Published in Bulletin of the Menninger Clinic V 0168, NO.4 (Fall 2004)

Book Reviewed: 'Depression fallout: The impact of depression on couples and what you can do to preserve the bond'

Book Reviewed -Shailesh Jain MD,MPH, Published in *Bulletin of the Menninger Clinic* V 0168, NO.4 (Fall 2004)

Special Training:

NIH Clinical Research Training course: Special training to fulfill the Training and Education Standard issued by the NIH for conducting clinical research within the intramural research program. July 2006

Certified: Model 2100 CRS rTMS System. Certified in administration of r TMS

Attended course 'Clinical Research: Tools and Techniques' at UTMB. January 2001. This was a special course for Physicians interested in Clinical Research Methodologies

Attended course 'Techniques in Research' a weekly course from August through December 2001 offered at UTMB, Galveston TX.

Attended four month refresher course on epidemiology and bio-statistics at UTMB Galveston from March to July 2002

Educational Presentations:

Keynote Speaker. 'Spirituality and Psychiatry' at The Ninth Annual Bexar County Consumer & Family Support Conference' sponsored by the Center of Health Care Services, San Antonio ,Texas, August 8th,2009

Guest Presenter: 'Depression in children and adolescents' invited as chief depression presenter for the UTHSCSA School of Nursing's 9th Annual Spring Preceptor Conference: Advancing Professional Practice presentation. May 2009

Guest Presenter: 'Psychopharmacology of Bipolar Medications in children and adolescents' Invited to present to Children and Adolescent Support Group of San Antonio at Methodist Church of San Antonio in association with NAMI San Antonio September 2007

Guest Presenter: 'How depression in children and adolescents different?' Invited to present to clinicians and consumers at San Antonio Catholic Church in affiliation with NAMI San Antonio August, 2007

Guest Presenter: 'Assessment of Depression in Adolescents' Invited to present to clinicians and consumers. NAMI San Antonio May2007

Radio Guest Speaker (1540Am, Dallas): 'Effect of Domestic Violence on Children'. A program to generate awareness of domestic violence in South Asian Community in Texas. September, 2006

Guest Presenter to Clinicians of the Employee Assistance Program, UT- Southwestern Medical Center, Dallas. Topic: 'Major depression in Primary Care Setting'. September 2006

Depressed and Bipolar Support Alliance, Dallas Chapter: "Effect of maternal depression on children' A presentation to the consumers of mental health at UT – Southwestern Medical Center, Dallas. August 2006.

Clinical Science Forum: Treatment of Adolescent Major Depression with rTMS: A 4-Week, Double-Blind, Sham-Controlled Randomized, Prospective Study' a research proposal to faculty, staff, fellows and residents of UT- SW. July 2006.

Grand Round Presenter: 'Case Report of Patient Responding to Narco-therapy.' Department of Psychiatry, University of Texas Medical Branch, Galveston, Texas. January 2001.

Grand Rounds Presenter: 'Premenstrual Dysphoric Disorder - Case Presentation and Scientific Assessment'. Department of Psychiatry and Behavioral Sciences, University of Texas Medical Branch, Galveston TX January 2002.

Journal Club Presenter: 'Suicide in Elderly' Presented to junior faculty and fellow residents of Department of Psychiatry, University of Texas Medical Branch, 2002.

Journal Club Presenter: 'Vagal Nerve stimulation: A promise for future?' Presented to junior faculty and fellow residents of Department of Psychiatry, University of Texas Medical Branch February 2001

Journal Club Presenter: 'Ziprasidone: A promising new atypical neuroleptic' presented to junior faculty and fellow residents, Department of Psychiatry, University of Texas Medical Branch, 2001.

Founder of Galveston Chapter of *Emotions Anonymous*, is association with NAMI on University of Texas Medical Branch premises, 2000

Speaker designated for NAMI (Alvin, TX Chapter) to educate clients about mental illness all year round, 2000

Journal Club Presenter: 'New Advances in field of depression'- presented to fellow residents and staff of Department of Psychiatry, University of Texas Medical Branch, August 2001

Invited Presenter: Topic: 'Post Partum Depression'. Presented to residents and students, Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas, September 2001.

Lecturer - Lecture Series on 'Suicide- what you should know' for UTMB medical students October 2001 to November 2001.

Committee member for CME seminar on 'Contemporary Issues in Chemical Dependence Research and Treatment' designed for physicians, nurses, counselors, therapists, and psychologists. Department of Psychiatry, University of Texas Medical Branch, February 2002

Journal Club Presenter: on 'Atypical anti-psychotics and weight gain'. Presented to residents and medical students of UTMB, Galveston, January 26, 2002

Presenter: 'Depression and brain disorders in elderly population' to Kiwanis Club at Edge water Residential Home, Galveston, Texas, March 13,2002

Presenter: 'Recognition of mental disorders in Paroles' to parole officers of city of Angleton, Brazoria County, March 18, 2002

Presenter: 'Depression in SLE' in to mental health providers, allied health providers and consumers at the Systemic Lupus Foundation of Dallas, October 2005

Presenter: 'Stress in Women' to the spouses of mental health provider at the Texas Indian Physician Society, December 2005.

Presenter: 'Dealing with Stress' to the consumers and family of Bipolar Depresses Support Alliance, Dallas Chapter, February 2006

Presenter: 'Effect of Mother's depression on child' to the consumers and family of Bipolar Depresses Support Alliance, Dallas Chapter, August 2006

Presenter: 'Dealing with Stress' to the consumers and family of Bipolar Depresses Support Alliance, Dallas Chapter, February 2006.

Presenter: 'Mood Disorders in Women Across Life' to members of Indian Association of North Texas, Dallas, February 2006.

Teaching Experience:

Community Psychiatry:
Teaching and supervising third year psychiatry residents at Barrios Communicare
Behavior Health Center and Frank Bryant Communicare Behavior Health

(November 2006- present)

Consultation and Liaison Psychiatry:

Teaching and supervising second and fourth year general psychiatry residents and third year medical students at University hospital of Texas, San Antonio (affiliated to UTHSCSA). November 2006- present)

Brown Bag Writers Group: Cofounder of UTHSCSA creative writers group that meets once two weeks at lunch hour at the Medical Library; for faculty, residents, medical students, employees, staff and family members.

Supervision:

Community Psychiatry:

Supervision of residents in psychopharmacology and management of psychiatric out patients at San Antonio inner city community clinic. Supervisee:

Dr. Waters MD third year resident. November 2006-july 2007.

4 contact hours per week

Dr. Moore MD third year resident. November 2006-july 2007.

4 contact hours per week

Dr. Writer MD third year resident. July 2007 –present

4 contact hours per week

Dr Naus MD third year resident. July 2007- present 4 contact hours per week

Committee participation:

Health and Wellness Task Force: Selected to represent department of psychiatry to the UTHSCSA wellness project. The committee to recommend health recommendations for staff and family. August 2007 - present

Recent Research Projects:

Co investigator: TREAD (5 ROI MH67692-03):

- 1. Title of Research: Treatment with Exercise Augmentation for Depression (TREAD) IRB File: 1101-605
- 2. Title of Research: Treatment with Exercise Augmentation for Depression Additional Studies IRB File: 0603-375

<u>Co investigator:</u> Assessment of Cognitive Function Before and After Treatment with Duloxetine - IRB# 012005-005

<u>Co investigator:</u> Aripiprazole Augmentation of SSRI Antidepressant Therapy in treatment Refractory Depression: Assessment of Symptom Reduction, Psychosocial Function, and Cognitive Function - IRB# 042004-011

<u>Co investigator:</u> (Protocol C-I073-06) A randomized double blind, placebo controlled, parallel group study of the safety and efficacy of three dose levels of Corlux (mefiprestone) plus an antidepressant s vs. placebo plus an antidepressant in the treatment of psychotic symptoms in patients with major depressive with psychotic features (PMD)

<u>Co investigator (Protocol: PRX-CP-007)</u> A Randomized, Double Blind, Placebo Controlled, Multicenter Study To Evaluate The Efficacy, Safety, And Tolerability OfPRX 00023 In Patients With Generalized Anxiety Disorder (GAD)

<u>Co investigator</u> (Protocol: A5761022) Multicenter, Randomized, Double-blind, Placebo-Controlled Study of the Efficacy and Tolerability of Indiplon Therapy Initiated with Sertraline Versus Sertraline Monotherapy in Subjects with Insomnia and Co-Existing Major Depressive Disorder

Co investigator (Protocol: C6671/3030/AX/US) A 10-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of GABITRIL® at 4, 8 and 12 mg/day in the Treatment of Adults With Generalized Anxiety Disorder

Co investigator (Protocol: C6671/3033/AX/US) A 12-Month, Open-Label, Flexible-Dosage Study to Evaluate the Safety and Efficacy of GABITRIL® Treatment (up to 16mg/day) in Adults With Generalized Anxiety Disorder

<u>Co-investigator</u>: (Protocol: 102005-047) Depression Trail Network (DTN): Chief Clinician, Dallas Unit. 12 week pilot study. 'A Pilot study of tolerability, side effect profile and remission rate of the combination of Duloxetine and Buproprion SR in patients with depression. '

<u>Co-investigator</u>: (Protocol:102005-048) Depression Trail Network (DTN): Chief Clinician, Dallas Unit. 12 week pilot study. 'A Pilot study of tolerability, side effect profile and remission rate of the combination of Venlafaxine XR and Aripiprazole in patients with depression.'

Upcoming Research Projects:

<u>Co-investigator</u>: (Protocol: HSC20080095H) A Double Blind Placebo Controlled Study of Atomoxetine Hydrochlorothiazide For The Treatment Of ADHD in Children And Adolescents With ADHD and Comorbid Dyslexia

<u>Co-investigator</u>: (Protocol: HSC20060242H) An open label pilot study To Evaluate The Efficacy And Safety of Image Guided Robotically Positioned Repetitive Transcranial Magnetic Stimulation (ir TMS) System in Subjects With Major Depression

<u>Co-investigator</u>: (Protocol : HSC20020437H) Clinical-Genetic Variation in GABA/Alcohol Sensitivity

Co-investigator: (Protocol: HSC20030041H) Neurosteroids in PTSD

<u>Co-investigator</u>: (Protocol: HSC19980349H) Pharmacological Treatments for Alcoholism Normal Healthy Volunteers

<u>Co-investigator:</u> (Protocol : HSC20060037H) Tryptophan Depletion: A Phenotypic Marker for Depression

<u>Co-investigator:</u> (Protocol: HSC20060148H) A Phase III, Randomized, Multi-Center, Double Blind, Placebo Controlled Study of Safety and Efficacy of Lofexidine for Relief of Symptoms in Subjects Undergoing Inpatient Opiate Detoxification

<u>Co-investigator:</u> (Protocol: HSC20060150H) Differential Neurosteroid Responses in PTSD and Alcohol Dependence

<u>Co-investigator</u>: (Protocol: HSC20060232H) A Multicenter, Randomized, Blinded, Controlled, Parallel Group Trial To Demonstrate The Efficacy Of rEEG Guided Pharmacotherapy Of Subjects With Treatment-Resistant Depression

<u>Co-investigator:</u> (Protocol: 056-0013-275) Bupropion in Adolescent Depression, with and without Comorbid ADHD

<u>Co-investigator:</u> (Protocol: HSC20070044H) An 8-week, randomized, double-blind fixed-dosage, placebo-controlled, parallel-group, multi-center study of the efficacy, safety, and tolerability of agomelatine 25 and 50 mg in the treatment of Major Depressive Disorders (MDD) followed by a 52-week, open-label extension

<u>Co-investigator</u>: (Protocol: HSC20070103H) 24-Week, Multicenter, Double-Blind, Randomized, Parallel-Group, Dose Ranging Study of the Efficacy and Safety of Oral Doses of AVE1625 5, 10, and 30 mg and Placebo on Top of an Established Treatment Regimen of Either Olanzapine, Risperidone or Quetiapine Monotherapy in the Treatment of Cognitive Impairment in Schizophrenia

<u>Co-investigator</u>: (Protocol: HSC20020355H) In Vivo Brain Mechanisms Underlying Remission in Bipolar Depression

<u>Co-investigator:</u> (Protocol : HSC20070391H) Genetic Risk of Depression Among Diabetic Patients

<u>Co-investigator</u>: (Protocol: HSC20070239H) A Phase 3, Four-Week, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group, Multicenter, Efficacy and Safety Study of OAD Lithium in Bipolar I Disorder Subjects with Acute Symptoms of Mania

<u>Co-investigator:</u> (Protocol: HSC20070543H) A Multicenter, Double-blind, Randomized, Parallel-group, Placebo-controlled, Phase III Study of the Efficacy and Safety of Quetiapine Fumarate (SEROQUEL®) Sustained-release as Monotherapy in Adult Patients with Acute Bipolar Mania

<u>Co-investigator:</u> (HSC20070665H) 'Vigabatrin for Treatment of Cocaine Dependence': A Phase multicenter II Study.

<u>Co-investigator</u> (Protocol # HSC20060037H) '*Tryptophan Depletion: A Phenotypic Marker for Depression*''. Investigator initiated case studies of MDD participants undergoing TRP depletion.

Co-investigator: (Protocol# HSC2006024H) 'An Open-Label Treatment Pilot Study to Evaluate the Efficacy and Safety of the Image-guided, Robotically-positioned Repetitive Transcranial Magnetic Stimulation (irTMS) System in Subjects with Major Depression'. This is a fist study of utilize MRI to assess mortor cortex to deliver TMS.

Work in Progress:
Oxidative Stress in Adolescents with Bipolar Disorder. Grant application for the Friends of Psychiatry grant, 2009