

CURRICULUM VITAE

MARTINA PAVLICOVA

DECEMBER 4, 2012

PERSONAL INFORMATION

Date of birth: January 2nd, 1972
Place of birth: Trinec, Czech Republic (former Czechoslovakia)
Citizenship: Czech Republic

Address: Department of Biostatistics
Columbia University
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ACADEMIC TRAINING

1995	MS	Econometrics	Charles University, Czech Republic
1999	MS	Statistics	The Ohio State University
2004	PhD	Statistics	The Ohio State University

DOCTORAL DISSERTATION

Title: Thresholding FMRI Images
Sponsors: Noel Cressie, Professor of Statistics, The Ohio State University
Thomas J. Santner, Professor of Statistics, The Ohio State University

ACADEMIC APPOINTMENTS

1995 - 1996	Graduate Teaching Assistant, Charles University, Czech Republic
1996 - 1997	Graduate Research Assistant, Academy of Science, Czech Republic
1997 - 2000	Graduate Teaching Assistant in Statistics, The Ohio State University
2000 - 2004	Graduate Research Assistant in Statistics, The Ohio State University
2004 - 2010	Assistant Professor of Biostatistics (in Psychiatry), Mailman School of Public Health of Columbia University
2010 -	Assistant Professor of Clinical Biostatistics (in Psychiatry), Mailman School of Public Health of Columbia University
2011 -	Assistant Professor of Clinical Biostatistics, Mailman School of Public Health of Columbia University

HONORS AND AWARDS

- 1997 *Early Start Fellowship Award*, The Ohio State University
Lubrizol Foundation Fellowship, The Ohio State University
- 1999 *Powers Teaching Award*, The Ohio State University
- 2002 *Professional Development Fund Travel Award*, The Ohio State University
- 2003 *Ray Travel Award*, The Ohio State University
Young Investigator Travel Award, Organization for Human Brain Mapping
- 2006 *Invited Lecture, Human Brain Mapping Conference*, Florence, Italy
- 2007 *Invited Lecture, Human Brain Mapping Conference*, Chicago, IL
- 2009 *Mailman School "Teachnology" Fellow*, Columbia University
- 2010 *Glenda Garvey Teaching Academy Fellow*, Columbia University
Early Career Teaching Award, Columbia University
Nominee and Finalist for the Early Career in Public Health Teaching Award by Association of Schools of Public Health and Pfizer Public Health Academy of Distinguished Teachers
- 2012 *Nominee and Finalist for the ASPH/Pfizer Award for Teaching Excellence* by Association of Schools of Public Health and Pfizer Public Health Academy of Distinguished Teachers

MEMBERSHIPS AND ACTIVITIES IN PROFESSIONAL SOCIETIES

The American Statistical Association

- 2006 – now : Member
- 2011 – 2013 : Council of Section Representative, Statistics in Epidemiology

Organization for Human Brain Mapping

- 2005 – now : Member

ASPH/Pfizer Public Health Academy of Distinguished Teachers

- 2012 – now : Member

FELLOWSHIP AND GRANT SUPPORT

ACTIVE GRANT SUPPORT

2P50DA009236-16 (PI: Herbert Kleber, M.D.) 11/09-05/14 NIH

Total Direct Costs: \$2,504,787

Novel Medication Approaches for Substance Abuse (STARS)

This Medications Development Research Center builds on the strengths and achievements of our existing Center, while developing innovative advances in medications development for opioids, cocaine, marijuana, and one of the (re)emerging drugs of concern, methamphetamine. We have created laboratory models for the initial evaluation of medications and developed procedures for the translation of our laboratory findings to the clinic. The major themes of the Center are: 1) model development, 2) targeted pharmacotherapy, 3) predictors of response, and 4) evaluating medications for emerging problems.

Role: Principal Investigator of Subcontract as Senior Biostatistician (20% effort)

2U10DA013035-06 (PI: Edward V. Nunes, M.D.) 09/07-08/15 NIH
Total Direct Costs: \$1,250,000

CU Partners: NY/Long Island Regional Node

These trials aim to evaluate whether the efficacy of the newer therapies generalizes to “real world” treatment settings, to disseminate these treatments and foster their appropriate use, and to understand the problems that may interfere with the successful adaptation of newer treatments.

Role: Principal Investigator of Subcontract as Senior Biostatistician (20% effort)

1R01MH079078-01A2 (PI: John C. Markowitz, M.D.) 07/08-03/13 NIH
Total Direct Costs: \$635,075

Psychotherapies for Chronic Posttraumatic Stress Disorder

The study will test the efficacy of IPT for PTSD under controlled conditions. A 14-week RCT will compare IPT adapted for PTSD (IPT-PTSD), Prolonged Exposure (PE) therapy as a reference treatment, and Relaxation therapy (R) as a control treatment for 165 patients with chronic PTSD. Independent evaluators will assess outcomes. Responders will enter a three-month observational follow-up phase to assess persistence of treatment benefits. Role:

Role: Principal Investigator for Subcontract (15% effort)

R01AA014323 (PI: Deborah Hasin) 09/30/05-08/31/12 NIAAA
Reducing Unsafe Drinking in HIV Primary Care

Purpose: to conduct a randomized clinical trial of a drinking-reduction intervention in HIV primary care patients using a brief motivational interview and a telephone interactive voice response system.

Role: Principal Investigator of the Subcontract as Senior Biostatistician (2% effort)

RECENT COMPLETED RESEARCH SUPPORT:

5R01MH071456-02 (PI: Brian Fallon, M.D.) 02/10-02/11 NIMH
Total Direct Costs: \$408,195

Treatment of Hypochondrias with CBT and/or SSRI

The major goals of this project are to identify the most effective treatment approaches for hypochondrias – specifically comparing cognitive behavior therapy (CBT), fluoxetine (“Prozac”), CBT plus fluoxetine, and placebo alone.

Role: Principal Investigator for Subcontract (20% effort)

5R01MH068173-05 (PI: Franklin Schneier, M.D.) 3/09-02/10 NIMH
Total Direct Costs: \$317,593

Combination Treatment for PTSD After the WTC Attacks

Posttraumatic Stress Disorder (PTSD) is a prevalent condition with high rates of disability and comorbidity. Recent surveys in the greater New York area suggest that there still thousands of 9/11-related cases of PTSD due to the severe exposure to the World Trade Center Attack. The goal of this study is the maximization of treatment response for adults with chronic PTSD. Participants will be 100 adults with World Trade Center Attack related PTSD.

Role: Principal Investigator for Subcontract (20% effort)

1P20MH078178-01 (PI: Kimberly Hoagwood, PhD) 09/08-10/09 NIMH
Total Direct Costs: \$426,244

Developing Center: Implementing Evidence Based Practices for Children/ Research Methods Core

This proposed continuation study builds on our original planning grant by expanding our examination of readiness to adopt EBPs within clinic settings to school settings. The overall goal will be addressed through three specific aims: (1) to adapt, pilot, and refine measurement of organizational and stakeholder readiness to adopt MH services for families, teachers, school MH staff, and principals; (2) to adapt a theory-driven empowerment and engagement intervention for improving the readiness to adopt MH services for schools; (3) to pilot test the feasibility of implementing the intervention and estimate intervention parameters (e.g., effect size, attrition rates, response rates) associated with implementation.

Role: Senior Biostatistician (10% effort)

5R01MH071456-02 (PI: Brian Fallon, M.D.) 01/07-01/09 NIMH

Total Direct Costs: \$498,758

Treatment of Hypochondrias with CBT and/or SSRI

The major goals of this project are to identify the most effective treatment approaches for hypochondrias – specifically comparing cognitive behavior therapy (CBT), fluoxetine (“Prozac”), CBT plus fluoxetine, and placebo alone.

Role: Principal Investigator for Subcontract (10% effort)

13-5598093A7 (PI: Harold Sackeim, Ph.D.) 07/04-06/08 NIH

Optimization of TMS for Depression

This proposal is a 4-yr, 4-site, randomized sham-controlled trial of daily left prefrontal repetitive transcranial magnetic stimulation (rTMS) for the acute treatment of major depression.

Role: Senior Biostatistician (20% effort)

5R01MH059312-03 (PI: Susan Essock, M.D.) 07/08-09/08 NIHM

Effectiveness of switching antipsychotic medications

A total of 300 consenting patients with schizophrenia from a large, diverse public mental health system, who are living in the community and taking conventional antipsychotic medications but who are still troubled by symptoms or medication side effects, will be randomly assigned to stay on their current conventional antipsychotic medication (N =100) or to switch to olanzapine (N =100) or risperidone (N=100). This design specifically controls for process of changing medications because one group continues on current treatment. The proposed study, therefore, will assess what incremental risks and benefits can be expected from switching from a conventional to a first-line atypical antipsychotic agent.

Role: Principal Investigator for Subcontract (30% effort)

5R34MH074774-02 (PI: Kimberly Hoagwood, PhD) 05/08-08/08 NIMH

Readiness to Adopt EBPs in Schools

This proposed continuation study builds on our original planning grant by expanding our examination of readiness to adopt EBPs within clinic settings to school settings. The overall goal will be addressed through three specific aims: (1) to adapt, pilot, and refine measurement of organizational and stakeholder readiness to adopt MH services for families, teachers, school MH staff, and principals; (2) to adapt a theory-driven empowerment and engagement intervention for improving the readiness to adopt MH services for schools; (3) to pilot test the feasibility of implementing the intervention and estimate intervention parameters (e.g., effect size, attrition rates, response rates) associated with implementation.

Role: Principal Investigator for Subcontract (10% effort)

UNIVERSITY AND DEPARTMENTAL COMMITTEES, ADVISORY BOARDS

- 2005 – 2006 Organizer, Department of Biostatistics Colloquium Series
2007 Member, Department of Biostatistics Desktop Support Search Committee
2008 Member, Department of Biostatistics Program Coordinator Search Committee
2009 – 2010 Organizer, Biostatistics Division NYSPI Colloquium Series
2010 Ongoing Review of the Curriculum Committee, MSPH, Columbia University
2010 Core Curriculum Subcommittee, MSPH, Columbia University
2010 – now Curriculum Renewal: Leadership and Professionalism committee
2011 Teaching Awards Selection Committee, MSPH, Columbia University
2012 Curriculum Renewal: Quantitative module committee

TEACHING EXPERIENCE

CHARLES UNIVERSITY, PRAGUE, CZECH REPUBLIC

- 1996, Fall semester
Applied Statistical Models in Economics
Enrollment = 50 (Recitation Instructor)

THE OHIO STATE UNIVERSITY

- 1998, Spring, Summer and Fall quarters
Stat135: *Elementary Statistics*
Enrollment = 30 (Recitation Instructor)
- 1999 – 2000, Summer quarters
Stat 427: *Introduction to Probability and Statistics*
Enrollment = 70 (Solo Lecturer, supervising 2 Teaching Assistants)
- 1999, Winter, Spring, and Fall quarters
2000, Winter, and Spring quarters
Stat135: *Elementary Statistics*
Enrollment = 60 (Solo Lecturer, supervising 2 Teaching Assistants)
- 2002, Winter quarter
Stat135: *Elementary Statistics*
Enrollment = 150 (Solo Lecturer, supervising 5 Teaching Assistants)

COLUMBIA UNIVERSITY

- 2005, Spring semester
P8150: *Topics in Applied Statistics*
Enrollment < 5 (Solo Lecturer)
- 2005, Fall semester
W4109: *Probability and Statistical Inference*
Enrollment = 80 (Solo Lecturer, supervising 1 Teaching Assistant)
- 2006, Spring semester
P6103: *Introduction to Biostatistics*

P6100: *Introduction to Vital Statistics* (3 weeks)
Enrollment = 30 (Solo Lecturer, supervising 1 Teaching Assistant)

2006 – 2008, Fall semesters

P6103* - *Introduction to Biostatistics (*revamp the course)*
Enrollment = 215-250 (Solo Lecturer, supervising 10-12 Teaching Assistants)

2009, Fall semester

P6103 - *Introduction to Biostatistics*
Enrollment = 80 (Solo Lecturer, supervising 4 Teaching Assistants)

2010, Fall semester

P6103 - *Introduction to Biostatistics*
Enrollment = 310 split into 3 independent sections (Solo Lecturer for all 3 sections, supervising 14 Teaching Assistants)

2011, Summer semester

P6103 - *Introduction to Biostatistics*
Enrollment = 25 (Solo Lecturer, supervising 1 Teaching Assistant)

2011 Fall semester

P6103 - *Introduction to Biostatistics*
Enrollment = 370 split into 4 independent sections (Solo Lecturer for all 4 sections, supervising 19 Teaching Assistants)

2012, Spring semester

P8120 – *Analysis of Categorical Data*
Enrollment = 160 split into 2 independent sections (Solo Lecturer for all 2 sections, supervising 9 Teaching Assistants)

2012 Fall semester

P6103 - *Introduction to Biostatistics for HPM-Management track*
Enrollment = 80 (Solo Lecturer, supervising 4 Teaching Assistants)

P6103 - *Introduction to Biostatistics for Executive MS in Epidemiology track*
Enrollment = 20 (Solo Lecturer, supervising 1 Teaching Assistants)

P6030* – *Methods for Research and Design Evaluation – Quantitative Foundations*
(one of the 4 creators of the Quantitative Foundation module)*
Enrollment = 400 split into 4 independent sections (Solo Lecturer for one sections, supervising 5 Teaching Assistants)

DOCTORAL THESIS AND EXAMINATION COMMITTEES

2006 Philip T. Reiss, Department of Biostatistics, completed his PhD thesis entitled
Regression With Signals and Images as Predictors

TRAINING FELLOWSHIP SPONSORED/MENTORED

- 2010 – now K23 Negative Symptoms of Schizophrenia: From Phenomenology to Target Treatment (Arielle D Stanford)
- 2010 – now K23 Glutamantergic Modulation of Exposure Therapy in Cigarette Smoking (Stanislav R Vorel)
- 2011 – now K23 Brief Potent Modulation: Applications for Cocaine Dependence (Elias Dakwar)

GRANT REVIEWS AND CONSULTING

- 2011 NIH Study Section (temporary member) : ZMH1 ERB-F (03)
- 2011 CTSA K12 TRANSFORM program
- 2012 CTSA K12 TRANSFORM program

EDITORIAL ACTIVITIES

I have served as a referee for the following journals and organizations:

- Organization of Human Brain Mapping* 2007, 2009, 2010, 2011
- Neuroimage* 2006
- Journal of statistical Planning and Inference* 2007
- Bioinformatics* 2009
- Technometrics* 2010, 2011

PROFESSIONAL ACTIVITIES

INVITED LECTURES

- 2004 *Mixture Statistical Detection of Signals Based on FMRI data: A P-value Thresholding Procedure:*
- Statistics Seminar, Southern Methodist University, Dallas, TX
 - Technical Meeting, Lawrence Livermore National Laboratory, Livermore, CA
 - Brown Bag Seminar, University of Wisconsin, Milwaukee, WI
 - Biostatistics Colloquium, Columbia University, New York, NY
 - Statistics and Biostatistics Seminar, The Ohio State University, Columbus, OH
- 2005 *Thresholding FMRI data using PAT procedure in wavelet domain*, Statistical workshop, NYSPI, New York, NY
- Thresholding and wavelet application on FMRI images*, one lecture in course G8325, Columbia University, New York, NY
- 2006 *Basic Statistics for FMRI*, New York, NY, one lecture in Program for Imaging and Cognitive Sciences, Columbia University, New York, NY

- Stats Basics: From Hypotheses to the General Linear Model*, Educational Session: Organization of Human Brain Mapping meeting, Florence, Italy
- 2007 *Stats Basics: From Hypotheses to the General Linear Model*, Educational Session: Organization of Human Brain Mapping meeting, Chicago, IL
- 2010 *Facilitating Learning in Small Groups*, Summer Symposium of Advancing Leadership and Learning in Public Health, Columbia University, New York, NY
- Effective Curriculum: From Lecture Preparation to Delivery*, The Summer Institute for Teaching and Learning, Columbia University, New York, NY
- Curriculum Engagement: From Lecture Preparation to Delivery*, Workshop on Practical Tools for Classroom Assessment, Columbia University, New York, NY
- 2011 *Stats Basics: From Hypotheses to the General Linear Model*, Seminar series, Department of Image Processing, Institute of Information Theory and Automation, Academy of Sciences, Czech Republic
- Curriculum Engagement: From Lecture Preparation to Delivery*, Workshop on Practical Tools for Classroom Assessment, Columbia University, New York, NY
- 2012 *Effective Classroom Teaching*, Mailman Faculty Training Workshop series, Columbia University, New York, NY
- Basics Statistics for fMRI*, Child Psychiatry T32 Fellows seminar, New York State Psychiatric Institute, New York, NY

PRESENTATIONS AT PROFESSIONAL MEETINGS

- 2002 *Application of Enhanced FDR on FMRI data*, ASA Joint Statistical Meeting, New York, NY
- 2003 *Making the T-test Relevant to FMRI data*, ASA Joint Statistical Meetings, San Francisco, CA
- Spatial Statistics and FMRI*, 12th Workshop on Stochastic Geometry, Stereology and Image Analysis, Prague, Czech Republic
- Using Enhanced FDR to find activation in FMRI images*, Human Brain Mapping Conference, New York, NY
- 2005 *P-value Adaptive Thresholding procedure*, ASA Joint Statistical Meeting, Minneapolis, MN
- 2009 *Detecting Signals in FMRI Data Using FDR Procedures in Wavelet Domain*, poster at Human Brain Mapping, San Francisco, CA
- 2010 *Detecting Signals in FMRI Data*, poster at Human Brain Mapping, Barcelona, Spain
- 2011 *Effective Course, Lecture, Lecturing and Lecturer*, poster at Joint Statistical Meeting, Miami Beach, FL

BIBLIOGRAPHY

H-index: 9

G-index: 19

Number of citations of the peer-reviewed articles: 376

Number of citations excluding candidate's self-citations: 367

- bolding of the candidate's name is only for convenience purposes
- number with asterisk suggests that the candidate should be when considered a senior author

(A) ORIGINAL, PEER-REVIEWED ARTICLES

- 1*. Cressie N, and **Pavlicova M** (2002). Calibrated Spatial Moving Average Simulations. *Statistical Modeling*, 2: 267-280.

Contribution: The general idea of using Spatial Moving Averages to simulate large spatial processes was Dr. Cressie's. The practical application of the idea, including choosing the spatial process covariance function, theoretically solving complicated system of appropriate equations involving de-integrating triple integrals, programming all simulations, generating the results, and figures were my contributions. I also participated on drafting the manuscript, actual data analyses and results interpretation. Dr. Cressie was consulting during the process as needed.

Journal's Description: Publishes original and high-quality articles that recognize statistical modeling as the general framework for the application of statistical ideas. Submissions must reflect important developments, extensions, and applications in statistical modeling.

Journal's impact factor (2009): 0.632

Journal's 5-year Impact factor (2009): 1.092

Number of Citations: 22

Number of Citations without Candidate's Self-Citations: 21

2. Cressie N, **Pavlicova M** (2004). Lognormal kriging: Bias adjustment and kriging variances. O. Lenangthong and C. V. Deutsch, eds., *Geostatistics Banff*, Springer, Dordrecht: 1027-1036.

Contribution: Designed and theoretically derived the formulas based on consultations with Dr. Cressie and programmed the simulations, generated the results and figures. Participated on drafting the manuscript.

Number of Citations: 1

Number of Citations without Candidate's Self-Citations: 1

3. McConnell PI, Del Rio CL, Jacoby DB, **Pavlicova M**, Kviatkowski P, Zawadzka A, Dinsmore JH, AstraL, Wisel S, Michler RE (2005). Correlation of Autologous Skeletal Myoblast Survival with Changes in Left Ventricular Remodeling in Dilated

Ischemic Heart Failure. *Journal of Thoracic and Cardiovascular Surgery* 130(4): 1001.e1-1001.e12.

Contribution: Selected appropriate statistical methods and analyzed collected data, created statistical figures and tables and contributed to drafting the manuscript.

Journal's Description: Publishes original, exclusive articles on conditions of the chest, heart, lungs, and great vessels where surgical intervention is indicated. It ranks in the top 3.4% of the 5,684 scientific journals most frequently cited and it is an official publication of The American Association for Thoracic Surgery and The Western Thoracic Surgical Association

Journal's impact factor (2009): 3.063

Journal's 5-year Impact factor (2009): 3.431

Number of Citations: 35

Number of Citations without Candidate's Self-Citations: 35

- 4*. **Pavlicova M**, Cressie N, Santner TJ (2006). Testing for activation in data from FMRI experiments. *Journal of Data Science* 4 (3): 275-289.

Journal's Description: Publishes research works on a wide range of topics that involve understanding and making effective use of field data in all aspects of applied statistics.

Journal's impact factor (2009): Unknown

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 3

Number of Citations without Candidate's Self-Citations: 2

5. Fernandez FA, Schmidt JM, Claassen J, **Pavlicova M**, Huddleston D, Kreiter KT, Ostapkovich ND, Kowalski RG, Parra A, Sander CE, Mayer SA (2007). Fever after subarachnoid hemorrhage: Risk factors and impact on outcome. *Neurology* 68 (13): 1013-1019.

This article was highlighted by the journal and accompanied by editorial of Geoffrey S.F. Ling.

Contribution: Substantially influenced the analyses of data, suggested the appropriate statistical methods and participated on the interpretation of the results. Revised the manuscript for intellectual content.

Journal's Description: The most widely read and highly cited peer-reviewed neurology journal and the official scientific journal of the American Academy of Neurology.

Journal's impact factor (2009): 8.172

Journal's 5-year Impact factor (2009): 7.199

Number of Citations: 83

Number of Citations without Candidate's Self-Citations: 83

6. Heverhagen JT, Reitz I, **Pavlicova M**, Levine AL, Klose KJ, Wagner HJ (2007). The impact of the dosage of intravenous gadolinium-chelates on the vascular signal intensity in MR angiography. *European Radiology* 17(3): 626-637.

Contribution: Impact on statistical analysis selection, actual data analyses and results interpretation. Revised the manuscript for intellectual content.

Journal's Description: Ranks 13 of 104 Radiology, nuclear medicine & medical imaging category and is the official journal of the European Society of Radiology.

Journal's impact factor (2009): 3.589

Journal's 5-year Impact factor (2009): 3.375

Number of Citations: 9

Number of Citations without Candidate's Self-Citations: 9

7. Mikl M, Marecek R, Hlustik P, **Pavlicova M**, Drastich A, Chlebus P, Brazdil M, Krupa P (2008). Effects of spatial smoothing on fMRI group inferences. *Magnetic Resonance Imaging* 26 (4): 490-503.

Contribution: Collaborated and advised on theoretical issues and statistical concepts, simulations. Revised the manuscript for intellectual content.

Journal's Description: The first international multidisciplinary journal encompassing physical, life, and clinical science investigations as they relate to the development and use of magnetic resonance imaging.

Journal's impact factor (2009): 2.026

Journal's 5-year Impact factor (2009): 2.062

Number of Citations: 32

Number of Citations without Candidate's Self-Citations: 32

- 8*. **Pavlicova M**, Santner TJ, Cressie N (2008). Detecting Signals in FMRI Data Using Powerful FDR Procedures. *Statistics and Its Interface* 1 (1): 23-33.

Journal's Description: An international statistical journal promoting the interface between statistics and other disciplines including, but not limited to, biomedical sciences, geosciences, computer sciences, engineering, and social and behavioral sciences. The journal publishes high-quality articles in broad areas of statistical science, emphasizing substantive problems, sound statistical models and methods, clear and efficient computational algorithms, and insightful discussions of the motivating problems.

Journal's impact factor (2009): Unknown

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 2

Number of Citations without Candidate's Self-Citations: 2

9. Tross S, Campbell ANC, Cohen LR, Calsyn D, **Pavlicova M**, Miele G, Haynes L, Nugent N, Hu MC, Gan W, Hatch-Maillette M, Mandler R, McLaughlin P, El-Bassel N, Critis-Christoph P, Nunes EV (2008). Effectiveness of HIV/STD Sexual Risk Reduction Groups for Women in Substance Abuse Treatment Programs:

Results of NIDA Clinical Trials Network Trial. *Journal of Acquired Immune Deficiency Syndromes* 48 (5): 581-589.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, mentored lead authors and supervised master level statistician.

Journal's Description: The trusted, interdisciplinary resource for HIV- and AIDS-related information with a strong focus on basic and translational science, clinical science, and epidemiology and prevention. Co-edited by the foremost leaders in clinical virology, molecular biology, and epidemiology, JAIDS publishes vital information on the advances in diagnosis and treatment of HIV infections, as well as the latest research in the development of therapeutics and vaccine approaches. This ground-breaking journal brings together rigorously peer-reviewed articles, reviews of current research, results of clinical trials, and epidemiologic reports from around the world.

Journal's impact factor (2009): 4.207

Journal's 5-year Impact factor (2009): 4.300

Number of Citations: 41

Number of Citations without Candidate's Self-Citations: 35

10. Zarkowski P, Navarro R, **Pavlicova M**, George MS, Avery D (2009). The Effect of Daily Prefrontal Repetitive Transcranial Magnetic Stimulation over Several Weeks on Resting Motor Threshold. *Brain Stimulation Basic, Translational, and Clinical Research in Neuromodulation* 2 (3): 163-167.

Contribution: Impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content.

Journal's Description: The premier journal for publication of original research in the field of neuromodulation and extends across the entire field of brain stimulation, including noninvasive and invasive techniques and technologies that alter brain function through the use of electrical, magnetic, radiowave, or focally targeted pharmacologic stimulation.

Journal's impact factor (2009): 3.000

Journal's 5-year Impact factor (2009): 3.000

Number of Citations: 6

Number of Citations without Candidate's Self-Citations: 6

11. Cohen LR, Tross S, **Pavlicova M**, Hu M, Campbell ANC, Nunes EV (2009). Substance Use, Childhood Sexual Abuse and Sexual Risk Behavior among Women in Methadone Treatment. *American Journal of Drug and Alcohol Abuse* 35 (5): 305 – 310.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, mentored lead authors and supervised master level statistician.

Journal's Description: Focusing on the pre-clinical, clinical, pharmacological, administrative, and social aspects of substance misuse, this journal provides an exchange of ideas between the various modalities involved in the study and treatment of drug abuse and alcoholism.

Journal's impact factor (2009): 1.335

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 4

Number of Citations without Candidate's Self-Citations: 4

12. Tross S, Hanner J, Hu M, **Pavlicova M**, Campbell ANC, Nunes, EV (2009). Substance Use and High Risk Sexual Behaviors among Women in Psychosocial Outpatient and Methadone Maintenance Treatment Programs. *American Journal of Drug and Alcohol Abuse* 35 (5): 368 – 374.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, mentored lead authors and supervised master level statistician.

Journal's Description: Focusing on the pre-clinical, clinical, pharmacological, administrative, and social aspects of substance misuse, this journal provides an exchange of ideas between the various modalities involved in the study and treatment of drug abuse and alcoholism.

Journal's impact factor (2009): 1.335

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 9

Number of Citations without Candidate's Self-Citations: 9

13. Campbell ANC, Tross S, Dworkin S, Hu M, Manuel J, **Pavlicova M**, Nunes EV. Relationship Power and Sexual Risk among Women in Community-based Substance Abuse Treatment (2009). *Journal of Urban Health* 86(6): 951-964.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content and supervised master level statistician.

Journal's Description: Ranks 34 of 156 in subject category Public, environmental & occupational health and addresses health issues such as substance abuse, teenage pregnancy, HIV, tuberculosis, and violence from both clinical and policy perspectives, filling a neglected niche in medical and health literature.

Journal's impact factor (2009): 2.205

5-year Impact factor: 2.766

Number of Citations: 5

Number of Citations without Candidate's Self-Citations: 5

14. George MS, Lisanby SH, Avery D, McDonald WM, Durkalski V, **Pavlicova M**, Anderson B, Nahas Z, Bolow P, Zarkowski P, Holtzheimer P, Schwartz T, Sackeim HA (2010). Daily Left Prefrontal Transcranial Magnetic Stimulation Therapy for

Major Depressive Disorder: A Sham-Controlled Randomized Trial. *Arch Gen Psychiatry* 67(5): 507-516.

Contribution: Contribution to design of the study, data collection and RCT management. Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual, mentored lead authors and supervised master level statistician.

Journal's Description: The psychiatric journal with the highest impact factor, considered a flagship of psychiatric research. The acceptance rate is 17%.

Journal's impact factor (2009): 12.257

Journal's 5-year Impact factor (2009): 16.433

Number of Citations: 100

Number of Citations without Candidate's Self-Citations: 99

15. Campbell A, Tross S, Hu M, **Pavlicova M**, Kenney J, Nunes E (2011). Female Condom Skill and Attitude: Results from a NIDA Clinical Trials Network HIV Risk Reduction Study with Women in Substance Abuse Treatment. *AIDS Education and Prevention* 23(4): 328-339. PMID: 302981

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content.

Journal's Description: Integrates public health, psychosocial, sociocultural, and public policy perspectives on issues of key concern nationally and globally by presenting state-of-the-art research and information.

Journal's impact factor (2009): 1.510

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 1

Number of Citations without Candidate's Self-Citations: 1

16. Levin FR, Mariani JJ, Brooks DJ, **Pavlicova M**, Cheng W, Nunes E (2011). Dronabinol for the Treatment of Cannabis Dependence: A randomized, Double-Blind, Placebo-Controlled Trial. *Drug and Alcohol Dependence* 116(1-3): 142-150.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, mentored lead authors and supervised master level statistician.

Journal's Description: An international journal devoted to publishing original research, scholarly reviews, commentaries, and policy analyses in the area of drug, alcohol and tobacco use and dependence.

Journal's impact factor (2009): 3.599

Journal's 5-year Impact factor (2009): 3.947

Number of Citations: 19

Number of Citations without Candidate's Self-Citations: 19

17. Schweitzer PJ, Zafar U, **Pavlicova M**, Fallon B (2011). Long-term Follow-up of Hypochondriasis After Treatment with an SSRI. *Journal of Clinical Psychopharmacology* 31(3): 365-368.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, and mentored lead authors.

Journal's Description: A leading publication in psychopharmacology, offers a wide range of articles reporting on clinical trials and studies, side effects, drug interactions, overdose management, pharmacogenetics, pharmacokinetics, and psychiatric effects on non-psychiatric drugs.

Journal's impact factor (2009): 5.092

Journal's 5-year Impact factor (2009): 4.716

Number of Citations: 2

Number of Citations without Candidate's Self-Citations: 2

- 18*. Hu M, **Pavlicova M**, Nunes E (2011). Zero-Inflated and Hurdle Models of Count Data with Extra Zeros: Examples from an HIV-Risk Reduction Intervention Trial, *American Journal of Drug and Alcohol Abuse* 37 (5): 367-375.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript. Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: Focusing on the pre-clinical, clinical, pharmacological, administrative, and social aspects of substance misuse, this journal provides an exchange of ideas between the various modalities involved in the study and treatment of drug abuse and alcoholism.

Journal's impact factor (2009): 1.335

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 2

Number of Citations without Candidate's Self-Citations: 1

19. Nunes E, **Pavlicova M**, Hu M, Campbell A, Miele G, Hien D, Klein D (2011). Baseline matters: The importance of covariation for baseline severity in the analysis of clinical trials. *American Journal of Drug and Alcohol Abuse* 37(5): 446-452.

Contribution: Substantial impact on analyses and interpretation of the data, drafting. Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: Focusing on the pre-clinical, clinical, pharmacological, administrative, and social aspects of substance misuse, this journal provides an exchange of ideas between the various modalities involved in the study and treatment of drug abuse and alcoholism.

Journal's impact factor (2009): 1.335

Journal's 5-year Impact factor (2009): Unknown

Number of Citations: 1

Number of Citations without Candidate's Self-Citations: 1

20. McDonald WM, Durkalski V, Ball E, Holtzheimer PE, **Pavlicova M**, Lisanby SH, Avery D, Anderson BS, Nahas Z, Zarkowski P, Sackeim HA, George MS (2011) Improving the antidepressant efficacy of transcranial magnetic stimulation: Maximizing the number of stimulations: maximizing the number of stimulations and treatment location in treatment-resistant depression. *Depression and Anxiety*. 28(11): 973-980.

Contribution: Author of the analyses and interpretation of the data, drafting.

Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: *Depression and Anxiety* welcomes original research and synthetic review articles covering molecular, genetic, biopsychosocial, neurochemical, neuropsychological, physiological, behavioral, sociological, psychodynamic, psychotherapeutic, cognitive and pharmacotherapeutic aspects of mood and anxiety disorders and related phenomena in humans and animals.

Journal's impact factor (2009): 3.065

Journal's 5-year Impact factor (2009): NA

Number of Citations: 2

Number of Citations without Candidate's Self-Citations: 2

21. Schneier FR, Neria Y, **Pavlicova M**, Hembree E, Suh EJ, Amsel L, Marshall RD (2012). Combined Prolonged Exposure Therapy and Paroxetine for Posttraumatic Stress Disorder Related to the World Trade Center Attacks: A randomized Controlled Trial, *American Journal of Psychiatry* 169(1): 80-88.

Contribution: Author of the analyses and interpretation of the data, drafting.

Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: Focusing on the pre-clinical, clinical, pharmacological, administrative, and social aspects of substance misuse, this journal provides an exchange of ideas between the various modalities involved in the study and treatment of drug abuse and alcoholism.

Journal's impact factor (2009): 12.522

Journal's 5-year Impact factor (2009): 11.395

Number of Citations: 4

Number of Citations without Candidate's Self-Citations: 4

22. Fallon BA, Harper KM, Landa A, **Pavlicova M**, Schneier FR, Carson A, Harding K, Keegan K, Schwartz T, Liebowitz MR (2012). Personality Disorders in Hypochondriasis: Prevalence and comparison with two anxiety disorders, *Psychosomatics*. Available online and in press.

Contribution: Author of the analyses and interpretation of the data, drafting.

Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: Publishes articles about subjects in the areas of psychiatry and general medicine.

Journal's impact factor (2009): 1.71

Journal's 5-year Impact factor (2009): NA

Number of Citations: NA

23. Mariani JJ, **Pavlicova M**, Bisaga A, Nunes EV, Brooks DJ, Levin FR. A randomized, Double-Blind, Placebo-Controlled Trial of Extended Release Mixed Amphetamine Salts and Topiramate for Cocaine Dependence, *Biological Psychiatry*. Available online and in press.

Contribution: Author of the analyses and interpretation of the data, drafting.

Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: The journal publishes novel results of original research which represent an important new lead or significant impact on the field, particularly those addressing genetic and environmental risk factors, neural circuitry and neurochemistry, and important new therapeutic approaches. Reviews and commentaries that focus on topics of current research and interest are also encouraged.

Journal's impact factor (2010): 8.674

Journal's 5-year Impact factor (2009): NA

Number of Citations: NA

24. Mantovani A, **Pavlicova M**, Avery D, Nahas Z, McDonald W, Wajdik Ch, Holtzheimer P, George M, Sackeim H (2012). Long-Term Efficacy of Repeated Daily Prefrontal Transcranial Magnetic Stimulation (TMS) in Treatment-Resistant Depression, *Depression and Anxiety*. Available online.

Contribution: Author of some of the analyses and interpretation of the data, drafting. Revised the manuscript for intellectual content, mentored the lead author.

Journal's Description: *Depression and Anxiety* welcomes original research and synthetic review articles covering molecular, genetic, biopsychosocial, neurochemical, neuropsychological, physiological, behavioral, sociological, psychodynamic, psychotherapeutic, cognitive and pharmacotherapeutic aspects of mood and anxiety disorders and related phenomena in humans and animals.

Journal's impact factor (2009): 4.184

Journal's 5-year Impact factor (2009): NA

Number of Citations: NA

25. Campbell ANC, Tross S, Hu MC, **Pavlicova M**, Nunes EV (2012). Predictors of Relationship Power among Drug-involved Women, *AIDS & Behavior*. 16(6): 1532-1541.

Contribution: Author of some of the analyses and interpretation of the data, drafting. Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: AIDS and Behavior provides an international venue for the scientific exchange of research and scholarly work on the contributing factors, prevention, consequences, social impact, and response to HIV/AIDS. The journal publishes original peer-reviewed papers addressing all areas of AIDS behavioral research. The journal publishes original research articles, brief research reports, and critical literature reviews.

Journal's impact factor (2011): 3.195

Journal's 5-year Impact factor (2009):0

Number of Citations: 0

26. Herron AJ, Mariani JJ, **Pavlicova M**, Parinello CM, Bold KW, Levin FR, Nunes EV, Sullivan MA, Raby WN, Bisaga A (2012). Assessment of Riboflavin as a Tracer Substance: Comparison of a Qualitative to a Quantitative Method of Riboflavin Measurement, *Drug and Alcohol Dependence*. In press.

Contribution: Author the analyses and interpretation of the data, drafting. Revised the manuscript for intellectual content, mentored the lead author and supervised master level statistician.

Journal's Description: An international journal devoted to publishing original research, scholarly reviews, commentaries, and policy analyses in the area of drug, alcohol and tobacco use and dependence.

Journal's impact factor (2009): 3.599

Journal's 5-year Impact factor (2009): 3.947

Number of Citations: NA

Number of Citations without Candidate's Self-Citations: NA

27. Dakwar E, Mahony A, **Pavlicova M**, Glass A, Brooks D, Mariani JJ, Grabowski J, Levin FR (2012). The Utility of ADHD Screening Instruments in Individuals Seeking Treatment for Substance Use Disorders, *Journal of Clinical Psychiatry*. Accepted.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, and mentored lead authors.

Journal's Description: The Journal of Clinical Psychiatry has served the information needs of psychiatrists worldwide for over 60 years and is the leading psychiatric resource for clinical information. The Journal is an international peer-reviewed journal, and its articles are indexed by the National Library of Medicine.

Journal's impact factor (2009): 5.8

Number of Citations: NA

Number of Citations without Candidate's Self-Citations: NA

28. Raby WN, SanFilippo L, Pavlicova M, Carpenter KM, Glass A, Onyemekwo C, Roginek E, Nunes EV (2012). Dysregulation of Diurnal Cortisol Secretion Affects Abstinence Induction During a Lead-in Period of a Clinical Trial for Depressed Cocaine-Dependent Patients, *American Journal of Addiction*. Accepted.

Contribution: Substantial impact on analyses and interpretation of the data, drafting the manuscript statistical analyses section, result section. Revised the manuscript for intellectual content, and mentored lead authors and master statistician.

Journal's Description: The American Journal on Addictions (AJA) is the official journal of the American Academy of Addiction Psychiatry. The Academy encourages research on the etiology, prevention, identification, and treatment of substance abuse; thus, the journal provides a forum for the dissemination of information in the extensive field of addiction.

Journal's impact factor (2009): 1.74

Number of Citations: NA

Number of Citations without Candidate's Self-Citations: NA

(B) PEER REVIEWED ABSTRACTS

- 1*. **Pavlicova M**, Cressie N, Santner TJ, Algaze A (2003). Using Enhanced FDR to Find Activation in FMRI Images. *Neuroimage 19* (supplement 1): S910.
2. Algaze A, Roberts C, **Pavlicova M**, Ibinson JW, Schmalbrock P (2003). The Effects of Eye and Stimulus on the Voxel-wise Repeatability of Visual Cortex fMRI. *Proc of ISMRM 11th Scientific Meeting and Exhibition*, Toronto Canada.
3. Whitaker CDS (and **Pavlicova M**, one of 9 co-authors) (2003). Hahn, CPMG and Combine Analysis of T2 Relaxation of Alzheimer Hippocampus Using Mixed Effects Model. *Proc of ISMRM 11th Scientific Meeting and Exhibition*, Toronto Canada.
4. Whitaker CDS (and **Pavlicova M**, one of 11 co-authors) (2004). Assessment of Iron with 8T MRI T2 Imaging in Human Brain. *Proc of ISMRM 12th Scientific Meeting and Exhibition*, Kyoto Japan.
- 5*. **Pavlicova M**, Santner TJ, Cressie N (2009). Detecting Signals in FMRI Data Using FDR Procedures in Wavelet Domain. *Neuroimage 47* (Supplement 1): S125.
- 6*. **Pavlicova M** (2010). Detecting Signals in FMRI Data, *Neuroimage 52* (CD-ROM: Supplement 1).

(C) NON-REVIEWED ARTICLES AND ABSTRACT

- 1*. **Pavlicova M**, Analysis of the Periodogram (in Czech) (1995). *Master Thesis*. Supervisor: Prof Andel J, Charles University, Prague, Czech Republic.
- 2*. **Pavlicova M**, Statistics in Practice (in Czech) (1996). Conference Proceedings “Robust 96”, Prague, Czech Republic.
- 3*. Cressie N, **Pavlicova M** (2001). Calibrated Spatial Moving Average simulations, Department of Statistics, Preprint No. 683, The Ohio State University.
- 4*. **Pavlicova M**, Cressie N, Santner TJ (2002). Using Enhanced FDR for Simultaneous Thresholding of FMRI Data. *Proceedings of the American Statistical Association, Biometrics Section, [CD-ROM]*, Alexandria, VA: American Statistical Association: 2653-2658.
- 5*. **Pavlicova M**, Cressie N and Santner TJ (2003). Spatial Statistics and FMRI. *Proceedings of 12th Workshop on Stochastic Geometry, Stereology and Image Analysis*. Prague, Czech Republic.
- 6*. **Pavlicova M** (2004). Thresholding FMRI Images, *PhD Thesis*. Supervisors: Cressie N and Santner TJ, The Ohio State University, Columbus OH.