

Frank Andrew Kozel, M.D., M.S.C.R., D.F.A.P.A.
Director of TMS Clinic & Staff Psychiatrist
Mental Health and Behavioral Sciences
Affiliate Investigator in HSR&D Center of Innovation on
Disability and Rehabilitation Research (CINDRR)
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Department of Psychiatry and Behavioral Neurosciences
University of South Florida

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Family

Wife – Kelly Marisa Kilty Kozel
Children – Frank Kilty Kozel
William Joseph Kozel

Education

Yale University: New Haven, Ct 1985-1989;
Graduated Cum Laude with a B.A. in Psychology-Biology
Honors: Roosevelt Thompson Award - Given to graduating senior of Yale
in recognition of humanitarian accomplishments.
Lipkind Prize - Given to graduating senior of Berkeley College
in recognition of character.
Dwight Hall Humanitarian Award - Given in recognition of a
human service project.

University of Virginia School of Medicine: Charlottesville, VA 1989-1993;
Graduated with an M.D.
NBME Part 1 Passed 74th percentile
NBME Part 2 Passed 92nd percentile

Wilford Hall Medical Center: Lackland AFB, TX 1993-1994;
NBME Part 3 Passed 88-92 percentile
Completed an internship in psychiatry June 30, 1994.

United States Air Force School of Aerospace Medicine: Brooks AFB, TX Summer
1994;
Completed Aerospace Medicine Primary Course.

United States Air Force School of Aerospace Medicine: Brooks AFB, TX Fall 1994;
Completed Aircraft Mishap Investigation & Prevention Course.
Board member for F-117 mishap June 95
Local Board member T-34 mishap Dec. 96

Armed Forces Radiobiology Research Institute: Bethesda, MD Winter 1995;
Completed Medical Effects of Nuclear Weapons Course.

Combat Casualty Care Course: Camp Bullis, TX. Spring 1995;
Completed Advanced Trauma Life Support and Field exercises.

Medical University of South Carolina: Charleston, SC. July 1998 to June 2001;
Residency in Psychiatry
Honors: American Psychiatric Association Research Colloquium for
Junior Investigators May 2001
HealthEmotions Research Institute Scholar – Wisconsin
Symposium on Emotion April 2001
American Psychiatric Institute for Research and Education/
Janssen Scholars in Research on Severe Mental Illness
Fellowship 2000-2001
Resident Research Award from the Medical University of South
Carolina for 2000-2001
Selected Chief Resident 2000-2001
Benjamin Riggs Award for Best Resident Paper 2000-2001
“Regional Brain Correlates of Deception: A Pilot fMRI
Study in Healthy Young Men”
Benjamin Riggs Award for Best Resident Paper 1999-2000
“Detection of Deception”
J.J. Cleckley Award for Best Clinical Paper 1998-1999 “How the
Distance from Coil to Cortex Relates to Age, Motor
Threshold and Possibly the Antidepressant Response to
Repetitive Transcranial Magnetic Stimulation”
Circle of Excellence Award for Outstanding Teaching in the
Psychiatry Clerkship 1998-1999
Wyeth-Ayerst Resident Reporter for May 1999 American
Psychiatric Association Meeting
MUSC Applause Program for quality patient care April 1999

Medical University of South Carolina: Charleston, SC. July 2001 to June 2003
Research Fellow in Neuroimaging and Brain Stimulation
Honors: K-30, Clinical Research Curriculum Award Fall 2001
MUSC Applause Program for quality patient care October 2001
American Psychiatric Association Research Colloquium for
Junior Investigators May 2003

Medical University of South Carolina: Charleston, SC. Fall 2001 to August 23, 2003
Master of Science in Clinical Research, 4.0 GPA
Honors: MUSC Student Research Day 2nd Place - Masters Section
Presentation November 2001

Employment

James A Haley VA: Tampa, FL, August 2013 to present
Director of TMS Clinic & Staff Psychiatrist in Mental Health and Behavioral
Sciences
Affiliate Investigator in HSR&D Center of Innovation on Disability and
Rehabilitation Research (CINDRR)

University of South Florida: Tampa, FL, August 2018 to present
Professor - Department of Psychiatry and Behavioral Neurosciences

University of South Florida: Tampa, FL, July 2011 to August 2018
Associate Professor - Department of Psychiatry and Behavioral Neurosciences
Adjunct Sept 2013 – April 2014
Courtesy Core Faculty May 2014 to November 2015
Part-time Faculty December 2015 to December 2016
Collaborative Faculty January 2017 to August 2018

University of Texas Southwestern Medical Center: Dallas, TX, July 2005 to July 2011
Assistant Professor – Department of Psychiatry

Medical University of South Carolina: Charleston, SC, July 2005 to June 2008
Adjunct Assistant Professor – Department of Psychiatry
Brain Stimulation Lab & Center for Advanced Imaging Research

Medical University of South Carolina: Charleston, SC, July 2003 to June 2005
Assistant Professor – Department of Psychiatry
Brain Stimulation Lab & Center for Advanced Imaging Research
Honors: Selected Future Leaders in Psychiatry Meeting - April 2004

Ralph H. Johnson VA: Charleston, SC, July 2002 to June 2005
VA Special Fellowship in Psychiatric Research/Neuroscience

Medical University of South Carolina: Charleston, SC, July 2001 to Jun 2003
Instructor – Institute of Psychiatry
Fellow - Brain Stimulation Lab & Center for Advanced Imaging Research
Faculty Preceptor for the Preceptorship Depression Education Program for
Pharmaceutical Representatives, Summer & Fall 2002

Ralph H. Johnson VA: Charleston, SC, July 2001 to June 2002

Staff Psychiatrist (part-time)

Charleston/Dorchester Community Mental Health Center: Charleston, SC, August 1999 to September 2001. Staff Psychiatrist (part-time)

Medical University of South Carolina: Charleston, SC, July 1998 to June 2001.

Chief Resident – Fourth Year

Fellow (part time) Brain Magnetic Stimulation Laboratory & Functional Neuroimaging Research Division, Fall 1998 to 2001

Objective Structural Clinical Evaluation (OSCE) Preceptor for third year medical students doing psychiatry rotation, Fall 1999 to 2001

Gross Neuroanatomy Lab Assistant for First Year Medical Students, Winter 2000

Faculty Preceptor for the Preceptorship Depression Education Program for Pharmaceutical Representatives, Summer and Winter 2000, Spring 2001

Brain Stimulation Laboratory: Medical University of South Carolina, January 2001

Instructor for Introduction to Transcranial Magnetic Stimulation mini-fellowship

Designated Medical Examiner for Berkeley/Charleston/Dorchester County Probate Court: August 1998 to November 2000

United States Air Force: Active Duty Captain.

Flight Surgeon. Officer in charge of flight medicine and/or physical exams and standards at 42 AMDS, Maxwell AFB, AL, July 96 to June 98

Flight Surgeon. Officer in charge of flight medicine and the 9th BS medical element, Dyess AFB, TX, September 1994 to June 96

Psychiatry Intern. Wilford Hall Medical Center, Lackland AFB, TX, June 1993 - August 1994

Awards:

Air Force Commendation Medal

Air Force Outstanding Unit Award

National Defense Service Medal

Southwest Asia Service Medal with Service Star

Air Force Longevity Service Award

Air Force Training Ribbon

Served in AOR Operation Desert Shield/Storm 1995

United States Air Force: Reserve, Second Lieutenant, 1989-1993, Health Professions Scholarship Program

Association of Artisan Able to Cane: Spring 1988 - Summer 1989, Co-founder & Co-director of a transitional work program for the mentally and emotionally disabled

New Haven Halfway House (NHHH): Jan. 1988 to Jan. 1989, Counselor

Dwight Hall Summer Intern: Summer 1988, Counselor at NHHH and participated in various human services projects

Yale Summer Program: Summer 1987 & 1988, Counselor

Yale University Dining Services: Spring 1987-Summer 1989, Bartender, dishwasher, food server, and cleaning

Norwich Savings Society: Summers 1985-1987, Coordinator business checking, customer complaints, and personal checking clerk

Journals & Grants

Editorial:

Associate Editor:

Frontiers in Neuropsychiatric Imaging and Stimulation - 03/2010 to present

Ad hoc Reviewer Journal:

Acta Psychiatrica Scandinavica

Annals of General Psychiatry

Journal of Affective Disorders

American Journal of Psychiatry

Archives of General Psychiatry

Biological Psychiatry

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging

Bipolar Disorders - An International Journal of Psychiatry and Neurosciences

Brain Stimulation - Basic, Translational, and Clinical Research in Neuromodulation

Cerebral Cortex

Clinical Neurophysiology

Comprehensive Psychiatry

Depression and Anxiety

ExpertReview of Neurotherapeutics

Journal of Biomedical Optics

Journal of Anxiety Disorders

The Journal of Clinical Psychiatry

Journal of Clinical Psychopharmacology

Journal of Geriatric Psychiatry and Neurology

Journal of the International Neuropsychological Society

Journal of Psychiatric Practice

Journal of Psychiatric Research

Human Brain Mapping

Human Psychopharmacology: Clinical and Experimental

International Journal of Neuropsychopharmacology

The International Journal of Psychiatry in Medicine

Molecular Psychiatry

NeuroImage

Neuromodulation: Technology at the Neural Interface
Neuropsychologia
Neuropsychopharmacology
Neurosurgery
PLoS ONE
Psychiatric Services
Psychiatry Research
Psychological Medicine
Public Health Research
Social Neuroscience
Value in Health

Grant Reviewer:

2018 CAMH Discovery Fund (May 2018)
2017/05 ZMH1 ERB-D (05) R - National Institute of Mental Health Special Emphasis
Panel (Jan 2017)
Veterans Affairs RR&D SPiRE Reviewer (Spring 2014)
NIH – CSR NPAS Jun 04, Oct 05 (Temporary Member)
Department of Defense Polygraph Institute
Research Grant Council of Hong Kong
United States-Israel Binational Science Foundation (BSF)
American Institute of Biological Sciences (AIBS) for proposal directed to US Army
Medical Research and Materiel Command (USAMRMC)
Economic & Social Research Council (ESRC)

Memberships

Organization of Human Brain Mapping: 2003 to present
The American Psychiatric Association: 1993 to 1995, 1999 to present: Fellow 2013;
Distinguished Fellow 2014
The Florida Psychiatric Association: 2011 to Present
Clinical TMS Society: 2016 to Present
Elected Board of Directors May 2017- 2020
Selected to Co-Chair Research Committee May 2017
Society of Biological Psychiatry: January 2001 to present
Selected for Annual Meeting Program Planning Committee 2017 – 2020
American College of Neuropsychopharmacology (Associate): January 2007 to December
2013
Texas Society of Psychiatric Physicians: 2005 to 2011
Society for Neuroscience: December 2006 to December 2012
International Society for Neurostimulation: Dec 2009 to 2011
International Society for Transcranial Stimulation: March 2002 to Dec 2009 (merged to
become International Society for Neurostimulation)
American Neuropsychiatric Association: July 2001 to 2009

Diplomate of the American Board of Psychiatry and Neurology: October 2002 to present
Diplomate of the National Board of Medical Examiners: July 1995

License to Practice Medicine in Florida: June 2011 to present

License to Practice Medicine in Texas: June 2005 to present

License to Practice Medicine in South Carolina: July 1998 to present

License to Practice Medicine in the Commonwealth of Virginia: 1995-1998

Committees

Current:

Data Safety Monitoring Board – Chair (PI: Joy L. Taylor, PhD) Sponsor: The National Institute on Aging; 1 R01 AG055526. Noninvasive Cortical Stimulation to Improve Memory in Mild Cognitive Impairment (MCI). July 2017 to present

Elected to Board of Directors - Clinical TMS Society May 2017- May 2020

Neuronetics Scientific Advisory Board (Unpaid advisor) – May 2017 to present

Society of Biological Psychiatry's Program Planning Committee for the 2018 through 2020 meetings. April 2017 to May 2020.

Clinical TMS Society Research Committee Meeting. October 2016 to present; Co-Chair of committee. May 2017 to present

Data Safety Monitoring Board – (PI: Colleen Loo) Sponsor: University of New South Wales - Ketamine therapy among patients with treatment-resistant depression: a randomized, double blind, placebo-controlled trial. KADS. April 2016 to present.

University of South Florida IRB-01B. June 2014 to present.

James A. Haley Research and Development Committee. Dec 2013 to present.

Completed/Past:

Clinical TMS Society Membership Committee. August 2016 to May 2017

Data Safety Monitoring Board – (PI: Colleen Loo) Sponsor: University of New South Wales - A Controlled Trial of Transcranial Direct Current Stimulation as a Treatment for Unipolar and Bipolar Depression. May 2013 to October 2015

National Network of Depression Centers: rTMS Task Group – August 2009 to July 2011

UTSW IRB #4 Alternate Member – Sept 2007 to July 2011

Data Safety Monitoring of Study - P60 (PI: Rick Silver) NIH/NIAMSA - Pilot Study of TMS Effects on Pain and Depression in Patients with Fibromyalgia. 3 July 07 to Dec 09 (Study PI – E. Baron Short)

Imaging Committee - NIMH Optimization of TMS for Depression
1R01MH069896 01A1 (PI - Mark George) – Jan 2005 to July 2005

Stanley Medical Research Institute (SMRI) Center Executive Committee, July 06 - Mar 07 (PI - John Rush)

Data Safety Monitoring Board - NIMH Combined Pharmacology/Behavior Therapy in Adolescent Smokers, February 2005 to October 2008, (PI – Himanshu Upadhyaya)

Data Safety Monitoring Board – Chair - Quetiapine for Bipolar Disorder and Alcohol Dependence, Aug 2007 to May 2010 (PI - E. Sherwood Brown)

Data Safety Monitoring Board – Chair - Ziprasidone in Pediatric Bipolar Disorder: A 6-Week, Open-Label Comparison of Rapid vs. Slow Dose Titration, December 2007 to 2010 (PI - Kirti Saxena)

Data Safety Monitoring Board – Chair – Citicoline for Bipolar Disorder and Cocaine Dependence, NIDA 1 R01 DA022460-01A2, Mar 2008 to May 2013 (PI – E. Sherwood Brown)

Advanced Imaging Research Center - Protocol Review Committee – July 2008 to September 2010

Research

Peer Reviewed Manuscripts

1999

1) George MS, Nahas Z, **Kozel FA**, Goldman J, Molloy M, Oliver NC: Improvement of Depression Following Transcranial Magnetic Stimulation. *Current Psychiatry Reports* 1999, 1: 114-124.

2000

2) **Kozel FA**, Nahas Z, deBrux C, Molloy M, Lorberbaum J, Bohning D, Risch SC, George M: Coil-Cortex Distance relates to Age, Motor Threshold, and Antidepressant Response to Repetitive Transcranial Magnetic Stimulation. *The Journal of Neuropsychiatry and Clinical Neurosciences* 2000; 12: 376-384.

3) Nobler MS, Teneback CC, Nahas Z, Bohning DE, Shastri A, **Kozel A**, George MS: Structural and Functional Neuroimaging of ECT and TMS. *Depression and Anxiety* 2000; 12: 144-156.

2001

4) Nahas Ziad, Teneback Charlotte C, **Kozel Andy**, Speer Andrew M., DeBrux Cart, Molloy Monica, Stallings Lauri, Spicer Kenneth M, Arana George, Bohning Daryl E, George Mark S: Brain Effects of Transcranial Magnetic Stimulation Delivered Over Prefrontal Cortex in Depressed Adults: The Role of Stimulation Frequency and Distance from Coil to Cortex. *The Journal of Neuropsychiatry and Clinical Neurosciences* 2001; 13: 459-470.

5) McConnell KA, Nahas Z, Shastri A, Lorberbaum JP, **Kozel FA**, Bohning DE, George MS: The Transcranial Magnetic Stimulation Motor Threshold Depends on the Distance from Coil to Underlying Cortex: A Replication in Healthy Adults Comparing Two Methods of Assessing the Distance to Cortex. *Biological Psychiatry* 2001; 49: 454-459.

6) Chae Jeong-Ho, Li Xingbao, Nahas Ziad, **Kozel F. Andrew**, George Mark S.: A review of the minimally invasive brain stimulation techniques in psychiatry. *Rev Bras Psiquiatr* 2001; 23 (2): 100-109.

2002

7) **Kozel FA**, George MS: Meta-Analysis of Left Prefrontal Repetitive Transcranial Magnetic Stimulation (rTMS) to Treat Depression. *Journal of Psychiatric Practice* 2002; 8: 270-275.

8) George Mark S, Nahas Ziad, Bohning Daryl E., **Kozel F. Andrew**, Anderson Berry, Chae Jeong-Ho, Lomarev Mikhael, Denslow Stewart, Li Xingbao, Mu Chiwen: Vagus Nerve Stimulation: A Research Update. *Neurology* (supplement 4) in VNS, 5 Years After Approval, Wheless and Shachter (eds); 59:S56-S61.

9) George Mark S, Nahas Ziad, Li Xiangbao, **Kozel F. Andrew**, Anderson Berry, Yamanaka Kaouri, Chae Jeong-Ho, Foust Milton: Novel Treatments of Mood Disorders Based on Brain Circuitry. Tucker (ed); *Seminars in Clinical Neuropsychiatry* 2002; 7: 293-304.

10) George Mark S, Nahas Ziad, Li Xiangbao, **Kozel F. Andrew**, Anderson Berry, Yamanaka Kaori: Potential New Brain Stimulation Therapies in Bipolar Illness: Transcranial Magnetic Stimulation (TMS) and Vagus Nerve Stimulation (VNS). in a special volume entitled Depression in Bipolar Illness: The Stepchild. Robert M. Post, (ed), *Clinical Neuroscience Research* 2002; 2: 256-265.

11) George MS, Nahas Z, **Kozel FA**, Li X, Denslow S, Yamanaka K, Mishory A, Foust MJ, Bohning DE: Mechanisms and State of the Art of Transcranial Magnetic Stimulation. *J. ECT*. 2002;18: 170-181.

2003

12) Nahas Ziad, **Kozel F. Andrew**, Li Xingbao, Anderson Berry, George Mark S.: Left Prefrontal Transcranial Magnetic Stimulation (TMS) Treatment of Depression in Bipolar Affective Disorder: A Pilot Study of Acute Safety and Efficacy. *Bipolar Disorders – An International Journal of Psychiatry and Neurosciences*. 2003; 5: 40-47.

13) George MS, Nahas Z, **Kozel FA**, Li X, Yamanaka K, Mishory A, Bohning DE. Mechanisms and the Current State of Transcranial Magnetic Stimulation. *CNS Spectrums*. 2003; 8(7): 496-514. DOI: <http://dx.doi.org/10.1017/S1092852900018976>.

14) George MS, Nahas Z, Lisanby SH, Schlaepfer T, **Kozel FA**, Greenberg BD. Transcranial magnetic stimulation. *Neurosurg Clin N Am.*, Rezai, Rasmussen and Greenberg, eds., W.B. Saunders Company, Philadelphia, 14 (2) 2003, pp 283-301.

2004

15) **Kozel FA**, Revell LJ, Lorberbaum JP, Shastri A, Elhai JD, Horner MD, Smith A, Nahas Z, Bohning DE, George MS: A Pilot Study of Functional Magnetic Resonance Imaging Brain Correlates of Deception in Healthy Young Men. *Journal of Neuropsychiatry and Clinical Neurosciences*. 2004; 16(3): 295-305.

16) **Kozel FA**, George MS, Simpson K. Decision Analysis of Cost Effectiveness of Repetitive Transcranial Magnetic Stimulation (rTMS) versus Electroconvulsive Therapy (ECT) for Treatment of Non-psychotic Severe Depression. *CNS Spectrums*. 2004; 9: 476-482.

17) Li X, Nahas Z, **Kozel FA**, Anderson B, Bohning DE, George MS: Acute left prefrontal TMS in Depressed Patients is Associated with Immediately Increased Activity in Prefrontal Cortical as well as Subcortical Regions. *Biological Psychiatry*. 2004; 55: 882-890.

18) Li X, Nahas Z, Anderson B, **Kozel FA**, George MS: Can rTMS be used as a maintenance treatment for bipolar depression? *Depression and Anxiety*. Case Report. 2004; 20: 98-100.

19) **Kozel FA**, Padgett T, George MS: A Replication Study of the Neural Correlates of Deception. *Behavioral Neuroscience*. 2004; 118: 852-856.

20) Nahas, Z., Li, X., **Kozel, F.A.**, Mirski, D., Mamon, M., Miller, K., Yamanaka, K., Kapp, R., Chae, JH., Bohning, D., Mintzer, J., George, M.: Beneficial effects of Distance-Adjusted Prefrontal TMS in Geriatric Depression. *Depression and Anxiety* 2004 19(4): 249-56

21) Mishory, A, Molnar CE; Stroud Z; Li X, Koola J, **Kozel FA**, Myrick H, Nahas Z, George MS. The Maximum-Likelihood Strategy (MLS) for Determining TMS Motor

Threshold, using Parameter Estimation by Sequential Testing (PEST) is Faster than Conventional Methods, With Similar Accuracy. *The Journal of ECT*. 2004; 20: 160-165.

22) Li Xingbao, Teneback Charlotte, Nahas Ziad, **Kozel F. Andrew**, Large Charles, Cohn Jeffrey, Bohning Daryl E., and George Mark S.: Interleaved Transcranial Magnetic Stimulation/functional MRI Confirms that Lamotrigine Inhibits Cortical Excitability in Healthy Young Men. *Neuropsychopharmacology*. 2004; 29: 1395–1407.

23) George MS, Nahas Z, Bohning DE, Mu Q, **Kozel FA**, Borckhardt J, Denslow S. Mechanism of Action of Vagus Nerve Stimulation (VNS). *Clinical Neuroscience Research*. 2004; 4: 71-79.

2005

24) **Kozel FA** and George MS. Neuroimaging and Depression with Inadequate Treatment Response. *Primary Psychiatry*. 2005; 12: 30-34.

25) **Kozel FA**, Nahas Z, Bohning DE, George MS. Functional Magnetic Resonance Imaging and Transcranial Magnetic Stimulation. *Psychiatric Annals*. 2005; 35: 131-136.

26) Mu Q, Mishory A, Johnson KA, Nahas Z, **Kozel FA**, Yamanaka K, Bohning DE, George MS. Decreased Brain Activation During a Working Memory Task at Rested Baseline Is Associated with Vulnerability to Sleep Deprivation. *Sleep*. 2005; 28: 433-446.

27) Borckardt, J.J., **Kozel, F.A.**, Anderson, B., Walker, A., and George, M.S. Vagus nerve stimulation affects pain perception in depressed adults. *Pain Research and Management*. 2005; 10: 9-14.

28) **Kozel FA**, Johnson KA, Mu Q, Grenesko E, Laken SJ, and George MS. Detecting Deception using Functional MRI. *Biological Psychiatry*. 2005; 58(8): 605-613. PMID: 16185668

2006

29) Borckardt JJ, Anderson BA, ***Kozel FA**, Nahas Z, Smith AR, Thomas KJ, Kose S, George MS. Acute and long-term VNS effects on pain perception in a case of treatment-resistant depression. *Neurocase*. 2006 Aug; 12(4): 216-20.

*Listed as Andrew, Kozel F in PubMed

30) Borckardt JJ, Weinstein M, Reeves ST, **Kozel FA**, Nahas Z, Smith AR, Byrne KT, Morgan K, George MS. Post-Operative Left Prefrontal Repetitive Transcranial Magnetic Stimulation Reduces Patient-Controlled Analgesia Use. *Anesthesiology*. 2006 Sep; 105(3): 557-62.

31) KA Johnson, Z Nahas, **FA Kozel**, D Ramsey, DE Bohning, B Anderson, HA Sackeim, MS George and the OPT-TMS Study Group. Using Imaging to Target the Prefrontal Cortex for TMS Studies in Treatment Resistant Depression. *Dialogues in Clinical Neuroscience*, 2006, 8(2): 266-268.

2007

32) Nahas Z, Teneback C, Chae JH, Mu Q, Molnar C, **Kozel FA**, Walker J, Anderson B, Koola J, Kose S, Lomarev M, Bohning DE, George MS. Serial Vagus Nerve Stimulation Functional MRI (VNS/fMRI) in Treatment Resistant Depression.

Neuropsychopharmacology, 2007, Aug; 32(8): 1649-1660.

33) Mu Q, Johnson K, Morgan P, Grenesko E, Molnar C, Anderson A, Nahas Z, **Kozel FA**, Kose S, Knable M, Fernandes P, Nichols D, Mailman R, George MS. A single 20 mg dose of the full D1 dopamine agonist dihydrexidine (DAR-0100) increases prefrontal cortical perfusion in schizophrenia. *Schizophrenia Research*. 2007 Aug; 94(1-3): 332-41.

34) Borckardt JJ, Smith AR, Reeves ST, Weinstein M, **Kozel FA**, Nahas Z, , Shelley N, Branham RK, Thomas KJ, George MS. Fifteen minutes of left prefrontal repetitive transcranial magnetic stimulation acutely increases thermal pain thresholds in healthy adults. *Pain Res Manag*. 2007 Winter; 12(4): 287-90.

2008

35) **Kozel FA**, Trivedi MH, Wisniewski SR, Miyahara S, Husain MM, Fava M, Lebowitz B, Zisook S, Rush AJ. Treatment outcomes in older depressed patients with earlier vs. late onset of first depressive episode: A STAR*D Report, 2007, *American Journal of Geriatric Psychiatry*. 2008 January; 16 (1): 58-64. PMID: 18165462

36) Johnson K, George MS, **Kozel FA**. Detecting Deception Using Functional Magnetic Resonance Imaging. *Directions in Psychiatry*, 2008, 28; Special Report, pp. SR1-SR10.

37) **Kozel FA** and Trivedi M. Neuroimage and Crime: Developing a Neuropsychiatric Functional Brain Imaging Test. *Neurocase*. 2008, 14 (1): 52-53. PMID: 18569731

38) Borckardt JJ, Reeves ST, Weinstein M, Smith AR, Shelley N, **Kozel FA**, Byrne KT, Morgan K, George MS. Significant Analgesic Effects of One Session of Postoperative Left Prefrontal Cortex Repetitive Transcranial Magnetic Stimulation: A replication study. *Brain Stimulation*. April 2008, 1 (2): 122-127. PMID: 19759838

2009

39) **Kozel FA**, Johnson KA, Grenesko EL, Laken SJ, Kose S, Lu X, Pollina D, Ryan A, and George MS. Functional MRI Detection of Deception After Committing a Mock Sabotage Crime. *The Journal of Forensic Sciences*. 2009, 54 (1): 220-231. PMID: 19067772

40) **Kozel FA**, Johnson KA, Laken SJ, Grenesko EL., Walker J, and George MS. Can Simultaneously Acquired Electrodermal Activity Improve Accuracy of fMRI Detection of Deception? *Social Neuroscience*. 2009, 4 (6): 510-517. PMID: 18633826

41) **Kozel FA**, Laken SJ, Johnson KA, Boren B, Mapes K, Morgan PS, and George MS. Replication of Functional MRI Detection of Deception. *The Open Forensic Science Journal*. 2009, 2: 6-11. PMID: 19844599

42) Simpson KN. , Welch MJ, **Kozel FA**, Demitrack, MA, Nahas Z. Cost Effectiveness of Transcranial Magnetic Stimulation (TMS) in the Treatment of Major Depression: A Health Economic Analysis. *Advances in Therapy*. 2009, 26:3: 346-68. PMID: 19330495

43) Jin B, Strasburger A, Laken SJ, **Kozel FA**, Johnson KA, George MS, Lu X. Feature Selection for fMRI-based Deception Detection, *BMC Bioinformatics*. 2009 Sep 17;10 Suppl 9:S15. PMID: 19761569

44) **Kozel FA**, Tian F, Dhamne S, Croarkin P, McClintock SM, Elliott A, Mapes KS, Husain MM, Liu H. Using Simultaneous Repetitive Transcranial Magnetic Stimulation/Functional Near Infrared Spectroscopy (rTMS/fNIRS) to Measure Brain Activation and Connectivity. *NeuroImage*. 2009 Oct 1;47(4): 1177-84. PMID: 19446635

45) Tian F, Sharma V, **Kozel FA**, Liu H. Functional Near Infrared Spectroscopy to Investigate Hemodynamic Responses to Deception in the Prefrontal Cortex. *Brain Research*. 2009; 1303: 120-30. PMID: 19782657

2010

46) Short EB, Kose S, Mu Q, Borckardt J, Newberg A, George MS, **Kozel FA**. Regional brain activation during meditation shows time and practice effects: a functional MRI study. *Evidence-Based Complementary and Alternative Medicine*. 2010 [2007 Oct 27 Epub ahead of print - doi:10.1093/ecam/nem163] 7(1): 121-127. PMID: 18955268

47) Johnson KA, Baylis GC, Powell DA, **Kozel FA**, Miller SW, George MS. Conditioning of transcranial magnetic stimulation: Evidence of sensory-induced responding and prepulse inhibition. *Brain Stimulation*. 2010; 3(2): 78-86. PMID: 20633436

48) Croarkin PE, Wall CA, McClintock SM, **Kozel FA**, Husain MM, Sampson SM. The Emerging Role for Repetitive Transcranial Magnetic Stimulation in Optimizing the Treatment of Adolescent Depression. *J ECT*. 2010; 26: pp. 323-329. PMID: 20418774

49) **Kozel FA** Identifying phronotypes in psychiatry. *Front Psychiatry*. 2010;1:141. PMID: 21423450

2011

50) **Kozel FA**, Johnson KA, Nahas Z, Nakonezny PA, Morgan PA, Anderson BA, Kose S, Li X, Lim K, Trivedi M, George M. Fractional Anisotropy Changes After Several Weeks of Daily Left High-Frequency Repetitive Transcranial Magnetic Stimulation of the Prefrontal Cortex to Treat Major Depression. *J ECT*. 2011; 27 (1), pp 5-10. PMID: 20559144

51) **Kozel FA**, Rao U, Hanzhang L, Nakonezny PA, Grannemann B, McGregor T, Croarkin PE, Mapes KS, Tamminga CA, Trivedi MH (2011) Functional connectivity of brain structures correlates with treatment outcome in Major Depressive Disorder. *Front. Psychiatry* **2**:7. PMID: 21556277

52) Wall CA, Croarkin PE, Sim LA, Husain MM, Janicak PG, **Kozel FA**, Emslie GJ, Dowd SM, Sampson SM. Adjunctive Use of Repetitive Transcranial Magnetic Stimulation in Depressed Adolescents. *J Clin Psychiatry*. 2011 Sep;72(9):1263-9. PMID: 21951987

53) Croarkin PE, CA Wall, King JD, **Kozel FA***, Daskalakis ZJ. Pain during transcranial magnetic stimulation in youth. *Innovations in Clinical Neuroscience*. 2011; 8(12):18–23.
*Listed as Andrew, Kozel F in PubMed

2012

54) Croarkin PE, CA Wall, Nakonezny PA, Buyukdura JS, Husain MM, Sampson SS, Emslie GJ, **Kozel FA**. Increased Cortical Excitability with Prefrontal High Frequency Repetitive Transcranial Magnetic Stimulation (rTMS) in Adolescents with Treatment Resistant Major Depressive Disorder (MDD). *Journal of Child and Adolescent Psychopharmacology*. 2012 Feb;22(1):56-64. PMID: 22257125

55) Bobb DS, Adinoff B, Laken SJ, McClintock SM, Rubia K, Huang H, Husain MM, Mapes KS, Tamminga C, Cullum CM, Gopinath K, Trivedi MH, **Kozel FA**. Neural Correlates of Successful Response Inhibition in Unmedicated Patients with Late Life Depression. *The American Journal of Geriatric Psychiatry*. 2012 Dec;20(12):1057-1069. PMID: 21997605

56) Tian F, **Kozel FA**, Yennu A, Croarkin PE, McClintock SM, Mapes KS, Husain MM, Liu H. Test-retest assessment of cortical activation induced by repetitive transcranial magnetic stimulation with brain atlas-guided optical topography. *J Biomed Opt*. 2012 Nov;17(11):116020. doi: 10.1117/1.JBO.17.11.116020. PMID: 23139044

2013

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54) **Kozel FA**. Brain Stimulation in Psychiatry: Repetitive TMS Treatment of Depression. National Alliance on Mental Illness local chapter meeting, 5 July 2007; Dallas, TX.

55) **Kozel FA**. Bipolar Disorder: Assessment, Management, and a Novel Treatment Option. Charleton Methodist Family Practice Resident and Attending Group, Sept 2007; Charleton Methodist Hospital; Dallas, TX.

56) **Kozel FA**. Advances in Brain Stimulation for the Treatment of Mood Disorders. Depression Bipolar Support Alliance local chapter meeting, October 2007; Dallas, TX.

57) **Kozel FA**. Functional MRI Application: Detecting Deception. Guest Lecture at UT Arlington Neuroimaging Course, November 2007; Arlington, TX.

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73) **Kozel FA**. Using functional Near Infrared Spectroscopy (fNIRS) to measure brain changes associated with rTMS. #316, Annual Meeting of Society of Biological Psychiatry, May 2010. (Symposium Presenter)

74) **Kozel FA**. Repetitive Transcranial Magnetic Stimulation (rTMS) for the Treatment of Mood Disorders. Department of Psychiatry and Behavioral Sciences. The University of Texas Health Science Center at Houston; 3 Jun 2010.

75) Croarkin PE, Hines-Melton T, Buyukdura J, Kennard BD, Emslie GJ, **Kozel FA**, Daskalakis ZJ. Cortical Excitability and Inhibition In Adolescents with Major Depressive Disorder. AACAP's 57th Annual Meeting; October 2010.

76) Kruesi, M; Morgan, P; Herbsman, T; Johnson, K; **Kozel, FA**; Laken, SJ; Christie DK. White Matter Differences Associated with Lying in Conduct Disorder. AACAP's 57th Annual Meeting; October 2010.

77) **Kozel FA**, Rao U, Lu H, Nakonezny P, Grannemann B, McGregor T, Croarkin P, Mapes K, Tamminga C, Trivedi M. Connectivity of brain structures correlates with treatment outcome in Major Depressive Disorder. 49th Annual Meeting American College of Neuropsychopharmacology, Dec 2010, Miami, FL. (Abstract)

2011

78) **Kozel FA**, Therapeutic Mechanisms of Brain Stimulation in Major Depressive Disorder Society of Biological Psychiatry's 66th Annual Scientific Convention and Program, May 14, 2011 (Symposium Co-Chair).

79) **Kozel FA**, The Effects of rTMS in the Prefrontal Cortex in Depression: a Potential Biomarker in MDD Society of Biological Psychiatry's 66th Annual Scientific Convention and Program, May 14, 2011 (Symposium Presenter).

80) **Kozel FA**, Liu P, Rao U, Mapes KS, Marsh PK, de Almeida JRC, Croarkin PE, Tamminga CA, Trivedi MH, Lu H. Can ASL Measures of Anterior Cingulate Cortex Perfusion Predict Treatment Outcome in Major Depressive Disorder? 50th Annual Meeting American College of Neuropsychopharmacology, Dec 2011, Hawaii. (Abstract)

2012

81) **Kozel, FA**. Functional MRI Detection of Deception. USF Psychiatry and Behavioral Neurosciences Grand Rounds. Tampa, FL. Jan 2012

82) **Kozel, FA**. Neural Substrates of Deception. Invited to talk at Florida Psychiatric Society Meeting. Orlando, FL. April 2012.

83) **Kozel, FA**. Clinical Applications of Transcranial Magnetic Stimulation (TMS) in Patients with Depression. USF Lunch & Learn at STC. Tampa, FL. Nov 2012.

84) **Kozel, FA**. Clinical Applications of Transcranial Magnetic Stimulation (TMS) in Patients with Depression. Depression and Bipolar Support Alliance. Tampa, FL. Nov 2012.

85) Laken SJ, Lai A, Johnson FA, Morgan, PS, Levine K, Fernald M, Patel K, Chung-Haas K, Cahill J, **Kozel FA**. Stimuli Presentation Modification Improves Diagnostic Accuracy at the Individual Level for Functional MRI Detection of Deception. 51st Annual Meeting American College of Neuropsychopharmacology, Dec 2012, Hollywood, FL. (Abstract)

2013

86) Croarkin PE, Nakonezny P, Melton T, Lewis C, Emslie G, **Kozel FA**, Daskalakis ZJ. GABA B deficits and depression severity in children and adolescents. #909; Annual Meeting of Society of Biological Psychiatry, May 2013. 73; p 290S.

87) **Kozel FA**, Spence JS, Christina Bass C, Morgan CR, Jones P, Schraufnagel C, Turner M, Hart J. Factors impacting functional disability and PTSD symptoms in OEF/OIF/OND veterans with PTSD. 52nd Annual Meeting American College of Neuropsychopharmacology, Dec 2013, Hollywood, FL. (Abstract)

2014

88) **Kozel, FA**. Clinical & Research Applications of Transcranial Magnetic Stimulation (TMS). HSRD/RRD CIDRR8 Research Topics Seminar; James A. Haley Veterans' Hospital; 7 January 2014.

89) **Kozel FA**, Spence JS, Christina Bass C, Morgan CR, Jones P, Schraufnagel C, Turner M, Hart J. Factors impacting functional disability and PTSD symptoms in OEF/OIF/OND veterans with PTSD. James A. Haley VAH Research Day. 19 June 2014.

90) **Kozel, FA**. Clinical & Research Applications of Transcranial Magnetic Stimulation (TMS). Grand Rounds for MH&BS, James A. Haley VAH. Tampa, FL. 10 July 2014.

91) **Kozel FA** and Schoenberg M. Invited 30 minute Public Service Announcement on Suicide with Corey Dylan aired on multiple Clear Channel radio stations. September 2014.

92) **Kozel, FA**. Clinical Applications of Transcranial Magnetic Stimulation (TMS) in Patients with Depression. Bay Pines Mental Health Grand Rounds. Bay Pines, FL. 9 October 2014.

2015

93) **Kozel, FA**. Research Methods for Clinicians. James A. Haley Psychiatry Grand Rounds. Tampa, FL 10 September 2015.

94) **Kozel, FA**. Clinical and Neurobiological Changes Associated with Trauma. Title IX Conference. University of South Florida. 10 September 2015.

95) **Kozel, FA**. Transcranial Magnetic Stimulation (TMS). Brain Week. University of Central Florida. 5 October 2015.

96) **Kozel, FA**. Posttraumatic Stress Disorder (PTSD). USF Honors College Students - Tampa Museum of Art's Connections Program. Tampa, FL. 16 October 2015.

2016

97) **Kozel, FA**. Functional fMRI Detection of Deception. James A. Haley Psychiatry Grand Rounds. Tampa, FL. 4 February 2016.

98) **Kozel FA**, Didehbani N, Motes MA, Jones P, Schraufnagel CD, DeLaRosa B, Bass C, Spence JS, Hart J. Augmenting Cognitive Processing Therapy with rTMS in Combat Veterans of Recent Conflicts with PTSD. Society of Biological Psychiatry's 71st Annual Scientific Convention and Program. Atlanta, GA. 13 May 2016 (accepted oral presentation).

99) **Kozel, FA**. Transcranial Magnetic Stimulation in the treatment of Posttraumatic Stress Disorder (PTSD). Invited Lecture for 4th Annual Clinical TMS Society Meeting. Atlanta, GA. 14 May 2016.

100) Hart, J., Jr., Kozel, F.A., Motes, M., Didehbani, N., Bass, C., Jones, P., Tillman, G., Spence, J., Cullum, M., & Kraut, M. (2016). Randomized Placebo Trial of rTMS + CPT vs. sham rTMS + CPT for Combat-Related PTSD. Presented at the 2016 Military Health System Research Symposium, Kissimmee, FL.

101) **Kozel, FA.** TMS in the treatment of PTSD. James A. Haley Psychiatry Grand Rounds. Tampa, FL. 3 November 2016.

102) Croarkin PE, Lewis C, Vande Voort J, Kohli J, **Kozel FA**, Frye MA, Port JD. Spectroscopic Glutamate Correlates of Trauma in Depressed Adolescents. Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, Florida, December 6, 2016.

2017

103) **Kozel, FA.** Posttraumatic Stress Disorder (PTSD). USF Honors College Students - Tampa Museum of Art's Connections Program. Tampa, FL. 9 February 2017

104) **Kozel FA.** Depression: A Yale graduate's perspective on a major public health crisis. Yale Club of Tampa Bay. Tampa Yacht Club, Tampa, FL March 2017

105) **Kozel FA**, Van Trees KA, Larson V , Phillips S, Hashimie J, Gadbois B, Johnson S, Gallinati J, Dreschnack D, Barrett B, Toyinbo P, Weisman M, Centorino M, Gibson CA, Glenn Catalano. Targeting Disability from PTSD with Transcranial Magnetic Stimulation. Society of Biological Psychiatry's 72nd Annual Scientific Convention and Program. San Diego, CA. 20 May 2017 (poster)

106) **Kozel FA.** Are We Practicing Clinical Science or Scientology? Interpreting the Scientific Literature. Invited Lecture for 5th Annual Clinical TMS Society Meeting. San Diego, CA. 20 May 2017.

107) **Kozel FA**, Van Trees KA, Larson V, Phillips S, Hashimie J, Gadbois B, Johnson S, Gallinati J, Dreschnack D, Barrett B, Toyinbo P, Weisman M, Centorino M, Gibson CA, Glenn Catalano. Targeting Disability from PTSD with Transcranial Magnetic Stimulation. JAMES RESEARCH DAY. 24 May 2017 (poster)

108) **Kozel FA.** TMS Clinic in the VA. Training for VA National Rollout of TMS. Charleston, SC. 18 July 2017 (invited lecture).

109) **Kozel FA**, Van Trees KA, Larson V, Phillips S, Hashimie J, Gadbois B, Johnson S, Gallinati J, Dreschnack D, Barrett B, Toyinbo P, Weisman M, Centorino M, Gibson CA, Glenn Catalano. Targeting Disability from PTSD with Transcranial Magnetic Stimulation. 2017 Military Health System Research Symposium (MHSRS). Kissimmee, FL. Aug 2017 (poster)

110) **Kozel FA.** TMS Clinic in the VA. Training for VA National Rollout of TMS. Charleston, SC. 29 Aug. 2017 (lecture by Skype).

111) **Kozel, FA.** Posttraumatic Stress Disorder (PTSD). USF Honors College Students - Tampa Museum of Art's Connections Program. Tampa, FL. 28 September 2017

2018

112) **Kozel, FA.** Training for Evidence-Based Practice Repetitive Clinical Transcranial Magnetic Stimulation (rTMS) Program. Presented multiple lectures and hands on training sessions as part of VA National TMS rollout Program. Palo Alto VA, Palo Alto, CA. 22-24 Jan 2018

113) **Kozel, FA.** TMS for PTSD. Grand Rounds. Geisel School of Medicine at Dartmouth. Hanover, NH. 24 Apr 2018

114) **Kozel, FA.** Are We Practicing Clinical Science or Scientology? Interpreting the Scientific Literature. White River Junction Veterans Administration Hospital. White River Junction, VT. 24 April 2018 (Invited Lecture)

115) **Kozel, FA.** ECT and TMS for PTSD. The International Society for ECT and Neurostimulation (ISEN) 2018 Annual Meeting. New York, NY. 6 May 2017 (Invited Plenary Lecture)

116) **Kozel, FA.** TMS and Brain Stimulation Workshop. The International Society for ECT and Neurostimulation (ISEN) 2018 Annual Meeting. New York, NY. 6 May 2017 (Invited to Chair Workshop)

117) **Kozel, FA.** Top 4 Posters Flash Presentations. Clinical TMS Society 2018 Annual Meeting. 12 May 2018 (Chaired committee to select and moderated the presentations)

118) **Kozel, FA.** Update of rTMS for PTSD. Clinical TMS Society 2018 Annual Meeting. 12 May 2018

Letters to the Editor

2002

1) Risch SC, Baker S, **Kozel FA:** A Case of Risperidone- Ziprasidone-Associated Neuroleptic Malignant Syndrome Successfully Treated With Quetiapine. *The Journal of Psychotic Disorders: Reviews & Commentaries* 2002, 6:18.

Other

2000

1) **Kozel FA** and Schuyler D: When Brief Therapy Worked and Medication Did Not. *Primary Care Companion to the Journal of Clinical Psychiatry* 2000; 5: 181-182.

2003

2) Nahas Z, **Kozel FA,** Mu Q, Anderson B, Walker A, George MS: Vagus Nerve Stimulation (VNS) for Treatment-Resistant Depression. *Psychiatric Times/CME.* 2003

3) **Kozel A.** A case example. In Cognitive Therapy: A Practical Guide, Dean Schuyler (Ed.) New York: W.W Norton & Company, 2003.

2007

4) Johnson KA, **Kozel FA**, Laken SJ, George MS (2007): The neuroscience of functional magnetic resonance imaging fMRI for deception detection. *Am J Bioeth* 7:58-60. (Open Peer Commentary)

2010

5) **Kozel F Andrew.** Using Neuroimaging to Investigate the Neurobiology of Treatment in Mood Disorders. *Psychiatric Times*, April 2010; Vol. XXVII, No. 4.

Grant Funding/Support

Current Research Support

09/2018-08/2023 (projected dates) BA160594 (PI Hart; Tampa Site PI- Kozel)

Department of Defense

“Multi-site confirmatory efficacy treatment trial of combat-related PTSD”

Role: Site PI, TMS consultant, Psychiatry consultant 30% (No salary support per VA rules)

Study to test replication of prior results of effectiveness of rTMS plus Cognitive Processing Therapy (CPT) versus sham rTMS plus CPT. This will be a three site study that will include three groups: rTMS just prior to CPT; sham just prior to CPT, and just weekly rTMS that will receive rTMS treatments once a week for a similar duration as a typical CPT course.

In JIT Process IHX002395A (PI – Miles)

VA HSR&D

“Health Outcomes Associated with TBI Screening”

Role: Co-Investigator; 0.6 calendar months or 5% Effort

Study will be the first to prospectively evaluate health outcomes and service utilization associated with the Veterans Health Administration’s (VHA) traumatic brain injury (TBI) post-deployment screening. Results will inform clinical strategies and operations policy to improve quality, coordination, and efficiency of screening, evaluation, and treatment processes and healthcare outcomes for Veterans returning from deployment.

04/2015 – 03/2017 (PI - Kozel)

VA Office of Research and Development at James A. Haley

“Targeting Disability from PTSD with Transcranial Magnetic Stimulation”

Role: Principal Investigator 30% (No salary support per VA rules)

This study will test whether right prefrontal cortex 1 Hz repetitive Transcranial Magnetic Stimulation (rTMS) versus right prefrontal cortex 10 Hz rTMS provides a significantly greater improvement in function as measured by Inventory of Psychosocial Functioning (IPF) score and Posttraumatic Stress Disorder (PTSD) symptoms as measured with Clinician Administered PTSD Scale for DSM-5 (CAPS).

Completed/Past Research Support

10/14/2014 – 9/30/2016 RX 14-009, (PI - Chapman)

VA Office of Research and Development – RRD SPiRE

“Pre treatment Physiological Reactivity and Treatment Outcome”

Role: Co-investigator 10% (No salary support per VA rules)

Primary objective is to determine whether physiological nonreactors benefit from PE therapy to the same extent as Veteran reactors.

02/2011 – 04/2014 DM090122, (PI - Hart)
Department of Defense
"Novel Treatment of Emotional Dysfunction in PTSD"
Role: Co-investigator 10% (No Salary Support after Apr 2014)

This study will examine whether real versus sham rTMS given just prior to Cognitive Processing Therapy will improve the outcome of treatment in combat veterans with PTSD. Recruitment has completed but on going data analysis.

09/30/10 – 06/30/14 1 U01MH092221-01, (PI - Trivedi)
NIMH
"Establishing Moderators and Biosignatures of Antidepressant Response for Clinical Care (EMBARC)"
Role: Co-investigator (No Salary support after July 2011) – continuing data analysis

07/2005 – 06/2009 K23 NIMH 5 K23 MH070897-02, (PI - Kozel)
(no cost ext. 06/2010) Neuropsychiatry of Geriatric depression,
Total Direct Costs (4 years): \$674,488
Role: PI/Candidate

07/2008 – 06/2009 5 UL1 RR024982-02 (PI - Packer)
NIH/NCRR
Using neuroimaging to investigate neurobiological correlates of treatment resistance associated with co-morbid anxiety in Major Depressive Disorder
Direct Costs: \$25,000
Role: Pilot Award Recipient PI

09/2004 – 08/2007 W74V8H-04-1-0010 (PI - Kozel)
Department of Defense Polygraph Institute
Using BOLD fMRI to Detect Deception and Better Understand the Polygraph: Current Knowledge and a Focused, Applied Research Agenda
Total Costs: \$600,384
Role: PI/local PI

- 01/2004 – 11/2006 Cephos Corporation (PI - Kozel)
Functional MRI study of Detecting Deception
Total Costs: \$190,564
Role: PI
- 08/2006 – 04/2008 98-RC-301-12 (PI - Rush)
Stanley Medical Research Institute Center
rTMS to treat depressed phase of Bipolar Disorder Type II
Role: Project PI All Centers funded by Stanley were abruptly discontinued 2007
- 07/2002 - 06/2005 VA Special Fellowship in Psychiatric Research/Neurosciences
(PI - Kozel)
Role: PI/Fellow
- 01/2005 - 06/2005 NIMH - Optimization of TMS for Depression, (PI - George)
Role: Coinvestigator 1R01MH069896-01A1
- 07/2001 – 01/2005 Vagal Nerve Stimulation D-01/D-02/D-04/AN-01 (PI - George)
These studies involve the investigation of VNS for treatment of depression (D-01 open trial, D-02 double blind trial, D-04 non-VNS comparator group) and anxiety (AN-01 open trial).
Role: Coinvestigator
- 07/2003 – 01/2004 Deep Brain Stimulation and Functional MRI (PI - George)
Investigating the safety of using fMRI to investigate the neurocircuitry of DBS implanted in patients with movement disorders.
Role: Coinvestigator
- 07/2001 - 08/2003 Clinical Research Curriculum Award (K-30) (PI – Key)
Program Director – L. Lyndon Key, M.D.
Provides funding for enrollment in the Master of Science in Clinical Research Program, special seminar series for clinical researchers, salary support for mentors, and guidance in preparing an extramural grant application.
Role: Student
- 07/2002 – 06/2003 Interleaved TMS/fMRI investigation of lamotrigine effects on neural activity (PI - George)

Role: Coinvestigator

2000-2001 Resident Research Award from the Medical University of South Carolina (PI - Kozel)
Regional Brain Correlates of Deception: a Proof of Concept Functional Magnetic Resonance Imaging Study in Healthy Young Men
Study used BOLD fMRI to investigate brain changes during deception. In addition, simultaneous electrodermal activity was acquired. The electrodermal activity was correlated with brain changes.

Role: PI

Patents and Invention Disclosures

System and Method of Detecting Deception by fMRI. Lead inventor. Invention Disclosure filed 12/20/01. Issued 03/01/2011. Patent # 7899524.

System and Method of Inhibiting the Ability to Deceive Using Functional Magnetic Resonance Imaging- guided TMS. Invention Disclosure filed 12/02/01. US no 10/868,045, international # PCT/US2005/020910.

Recent Courses and Lectures

MEL 8626 Neurostimulation in Psychiatry Elective – Elective for USF and Visiting Medical Students to learn about Transcranial Magnetic Stimulation: Aug 2014 to present.

MDE 8811 Integration of Brain Networks - Basic Science Course for USF MS-IV to provide a conceptual framework to think about brain disease based on dysfunction at the level of the brain circuit and treatment with neurostimulation techniques: 15-26 Feb 2016; 20 Feb – 3 Mar 2017

MEL 8109 Outpatient Psychiatry Elective – Clinical course for USF and visiting medical students with didactics and practical on training in outpatient psychiatric care.: Nov 2011 to Dec 2012

Transcranial Magnetic Stimulation (TMS) – Didactic Lecture for USF Psychiatry PGY2 residents – 4 May 2017

Posttraumatic Stress Disorder (PTSD). USF Honors College Students - Tampa Museum of Art's Connections Program. Tampa, FL. 16 Oct 2015, 9 Feb 2017, 28 Sep 2017

Mentoring/Supervision

Letty J. Revell – Medical University of South Carolina; Summer 2000; Summer Medical Student worked in fMRI research – Pursued Dermatology

Tamara Padgett – Medical University of South Carolina; Summer 2002; Stanley Summer Medical Student worked in fMRI research – Pursued Psychiatry

Baron Short – Medical University of South Carolina; 2003 - 2007; supervision as Resident & Junior Faculty in Psychiatry and Medicine – Faculty, MUSC

Kevin Johnson – Medical University of South Carolina; 2004 - Oct 2009; supervised during Neuroscience Graduate Studies and sat on Ph.D. committee – Post-doc at Stanford - then Industry Research

David Atkinson – UT Southwestern Medical Center; 2006 - 2007; supervised during 3rd year psychiatry resident on research track – supervised in fMRI data analysis project of working memory task before and after treatment with rTMS – pursued research tract of child fellowship at University of Alabama Birmingham.

Bryant Boren – UT Southwestern Medical Center; Summer 2007; supervised for UT Southwestern Medical Student Research Program; Analyzed the fMRI data for consistency of activation in motor task for an fMRI experiment – Radiology Residency at UTSW.

Mary (Molly) Camp - UT Southwestern Medical Center; July 2009 - August 2010; Cognitive Behavioral Therapy supervisor.

Sameer Dhamne – UT Arlington, Department of Bioengineering; Nov 2009; Committee member for Masters Defense. “Diffuse optical imaging of brain function under repetitive Transcranial Magnetic Stimulation and in children with cerebral palsy.”

Amanda Reahard - UT Southwestern Medical Center; July 2009 - June 2010; Cognitive Behavioral Therapy supervisor.

Venkatagir (Giri) Krishnamurthy – UT Arlington, Department of Bioengineering; April 2010 – May 2011; Committee member for Ph.D. defense.

Afshan Khan - UT Southwestern Medical Center; August 2010 - June 2011; Cognitive Behavioral Therapy supervisor.

David Bobb – UT Southwestern Medical Center; 2008 - June 2011; supervise psychiatry resident on research tract, fMRI data analysis project of inhibition paradigm in geriatric depression – currently PGY 4. Dr. Bobb was awarded the prestigious Rappaport Fellowship in Forensic Psychiatry in 2010. He was also co-winner of the research award for graduating UTSW psychiatry residents 2011.

Michael Centorino – University of South Florida - Cognitive Behavioral Therapy supervisor - Aug 2011 - June 2012.

Cory Klippel, M.D. - University of South Florida - Cognitive Behavioral Therapy supervisor - July 2012-June 2013.

Scott Nelson, M.D. - University of South Florida – Resident enrichment supervision - Aug 2014 - present. December 2015. Manuscript published Nelson et al. 2016.

Jennifer Yehl, M.D. - University of South Florida – Resident enrichment supervision - July 2015 - June 2016. Manuscript published Yehl et al. 2018

Eric Quintero, M.D. - University of South Florida – Resident enrichment supervision - July 2016 - June 2017.

Michael Hernandez PGY4 - University of South Florida Medical Student – Research supervision - Oct 2016 - May 2017. Worked on building a database of clinical care as a research project with resulting published manuscript, Kozel et al. 2017.

Interests

Kayaking, travel, SCUBA diving, and reading

Hold a single engine land private pilot license (non-current)