



## Steven Lindley

Professor of Psychiatry and Behavioral Sciences (Public Mental Health and Population Sciences)

### Bio

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#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Psychiatry and Behavioral Sciences

#### ADMINISTRATIVE APPOINTMENTS

- Director of Outpatient Mental Health, VA Palo Alto HCS, (2008-2020)
- Deputy Chief of Staff, MH, Social Work, and Homeless Services, VA Palo Alto HCS, (2020- present)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My scholarly, clinical, and teaching activities apply interdisciplinary training in neuroscience/pharmacology and medicine/psychiatry to advance health and mental health care for psychiatric patients with disorders related to chronic and severe stress. As Director of Outpatient Mental Health for the VHA Palo Alto HCS, my work focuses on psychiatric disorders in military veterans. The goal is maximizing the use of evidence-based practices and reducing unnecessary medical burden of psychiatric treatments for stress-related disorders. I have conducted basic science research on the adverse effects of the stress hormone cortisol and applied research on the efficacy of medication treatments for posttraumatic stress disorder (PTSD). Currently, we are conducting research on the efficacy of innovative treatment approaches for PTSD and developing electronic medical records software tools that foster the use of evidence-based treatments and continuous monitoring of clinical outcomes and adverse effects. Clinically, we are developing and implementing clinical programs that improve access to mental health care and foster evidenced-based care.

#### CLINICAL TRIALS

- Comparative Effectiveness Research in Veterans With PTSD, Not Recruiting
- Side Effects of Antipsychotic Medications, Not Recruiting

### Teaching

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#### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Psychiatry and Behavioral Science (Fellowship Program)

### Publications

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#### PUBLICATIONS

- **Development and cross-validation of a veterans mental health risk factor screen.** *PloS one*  
Carlson, E. B., Palmieri, P. A., Vogt, D., Macia, K., Lindley, S. E.

2023; 18 (2): e0272599

- **Web-Based Problem-solving Training With and Without Peer Support in Veterans With Unmet Mental Health Needs: Pilot Study of Feasibility, User Acceptability, and Participant Engagement.** *Journal of medical Internet research*  
Possemato, K., Wu, J., Greene, C., MacQueen, R., Blonigen, D., Wade, M., Owen, J., Keane, T., Brief, D., Lindley, S., Prins, A., Mackintosh, M., Carlson, et al  
1800; 24 (1): e29559
- **Amygdala and Insula Connectivity Changes Following Psychotherapy for Posttraumatic Stress Disorder: A Randomized Clinical Trial.** *Biological psychiatry*  
Fonzo, G. A., Goodkind, M. S., Oathes, D. J., Zaiko, Y. V., Harvey, M., Peng, K. K., Weiss, M. E., Thompson, A. L., Zack, S. E., Lindley, S. E., Arnow, B. A., Jo, B., Rothbaum, et al  
2020
- **Rethinking Violence Prevention in Rural and Underserved Communities: How Veteran Peer Support Groups Help Participants Deal with Sequelae from Violent Traumatic Experiences** *JOURNAL OF RURAL HEALTH*  
Azevedo, K. J., Ramirez, J. C., Kumar, A., LeFevre, A., Factor, A., Hailu, E., Lindley, S. E., Jain, S.  
2020; 36 (2): 266–73
- **A Clinical Program to Implement Repetitive Transcranial Magnetic Stimulation for Depression in the Department of Veterans Affairs.** *Federal practitioner : for the health care professionals of the VA, DoD, and PHS*  
Carrico, W. T., Georgette, G. n., Madore, M. R., Kozel, F. A., George, M. S., Lindley, S. n., Lovett, S. n., Yoon, J. H., Yesavage, J. A.  
2020; 37 (6): 276–81
- **Peer Support in an Outpatient Program for Veterans With Posttraumatic Stress Disorder: Translating Participant Experiences Into a Recovery Model** *PSYCHOLOGICAL SERVICES*  
Kumar, A., Azevedo, K. J., Factor, A., Hailu, E., Ramirez, J., Lindley, S. E., Jain, S.  
2019; 16 (3): 415–24
- **Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder** *SCIENCE TRANSLATIONAL MEDICINE*  
Etkin, A., Maron-Katz, A., Wu, W., Fonzo, G. A., Huemer, J., Vertes, P. E., Patenaude, B., Richiardi, J., Goodkind, M. S., Keller, C. J., Ramos-Cejudo, J., Zaiko, Y., Peng, et al  
2019; 11 (486)
- **Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder.** *Science translational medicine*  
Etkin, A., Maron-Katz, A., Wu, W., Fonzo, G. A., Huemer, J., Vertes, P. E., Patenaude, B., Richiardi, J., Goodkind, M. S., Keller, C. J., Ramos-Cejudo, J., Zaiko, Y. V., Peng, et al  
2019; 11 (486)
- **Participatory system dynamics for high quality VA addiction and mental health care**  
Zimmerman, L., Lounsbury, D., Rosen, C., Kimerling, R., Holbrook, A., Hong, S., Branscomb, J., Kibbe, D., Park, S., Kramer, R., Barlow, D. C., Mushiana, S., Azevedo, et al  
BMC.2019
- **Rethinking Violence Prevention in Rural and Underserved Communities: How Veteran Peer Support Groups Help Participants Deal with Sequelae from Violent Traumatic Experiences.** *The Journal of rural health : official journal of the American Rural Health Association and the National Rural Health Care Association*  
Azevedo, K. J., Ramirez, J. C., Kumar, A., LeFevre, A., Factor, A., Hailu, E., Lindley, S. E., Jain, S.  
2019
- **Standardized Assessment and Measurement-Based Care** *AMERICAN PSYCHIATRIC ASSOCIATION PUBLISHING TEXTBOOK OF PSYCHIATRY, 7TH EDITION*  
Rosen, C. S., Lindley, S. N., Stirman, S.  
edited by Roberts, L. W.  
2019: 1095–1110
- **Peer support in an outpatient program for veterans with posttraumatic stress disorder: Translating participant experiences into a recovery model.** *Psychological services*  
Kumar, A., Azevedo, K. J., Factor, A., Hailu, E., Ramirez, J., Lindley, S. E., Jain, S.  
2018

- **PTSD Psychotherapy Outcome Predicted by Brain Activation During Emotional Reactivity and Regulation** *AMERICAN JOURNAL OF PSYCHIATRY*  
Fonzo, G. A., Goodkind, M. S., Oathes, D. J., Zaiko, Y. V., Harvey, M., Peng, K. K., Weiss, M., Thompson, A. L., Zack, S. E., Lindley, S. E., Arnow, B. A., Jo, B., Gross, et al  
2017; 174 (12): 1163–74
- **Selective Effects of Psychotherapy on Frontopolar Cortical Function in PTSD.** *The American journal of psychiatry*  
Fonzo, G. A., Goodkind, M. S., Oathes, D. J., Zaiko, Y. V., Harvey, M., Peng, K. K., Weiss, M. E., Thompson, A. L., Zack, S. E., Mills-Finnerty, C. E., Rosenberg, B. M., Edelstein, R., Wright, et al  
2017; 174 (12): 1175-1184
- **PTSD Psychotherapy Outcome Predicted by Brain Activation During Emotional Reactivity and Regulation.** *The American journal of psychiatry*  
Fonzo, G. A., Goodkind, M. S., Oathes, D. J., Zaiko, Y. V., Harvey, M., Peng, K. K., Weiss, M. E., Thompson, A. L., Zack, S. E., Lindley, S. E., Arnow, B. A., Jo, B., Gross, et al  
2017; 174 (12): 1163-1174
- **Selective Effects of Psychotherapy on Frontopolar Cortical Function in PTSD** *AMERICAN JOURNAL OF PSYCHIATRY*  
Fonzo, G. A., Goodkind, M. S., Oathes, D. J., Zaiko, Y. V., Harvey, M., Peng, K. K., Weiss, M., Thompson, A. L., Zack, S. E., Mills-Finnerty, C. E., Rosenberg, B. M., Edelstein, R., Wright, et al  
2017; 174 (12): 1175–84
- **Participatory system dynamics: triangulating electronic health records, stakeholder expertise and simulation modeling to expand evidence-based practices**  
Zimmerman, L., Lounsbury, D., Rosen, C., Kimerling, R., Trafton, J. A., Lindley, S.  
BIOMED CENTRAL LTD.2017
- **An RCT of Effects of Telephone Care Management on Treatment Adherence and Clinical Outcomes Among Veterans With PTSD** *PSYCHIATRIC SERVICES*  
Rosen, C. S., Azevedo, K. J., Tiet, Q. Q., Greene, C. J., Wood, A. E., Calhoun, P., Bowe, T., Capehart, B. P., Crawford, E. F., Greenbaum, M. A., Harris, A. H., Hertzberg, M., Lindley, et al  
2017; 68 (2): 151-158
- **Brain Mechanisms and Predictors of Response to Prolonged Exposure Therapy in PTSD**  
Fonzo, G., Goodkind, M., Oathes, D., Zaiko, Y., Harvey, M., Peng, K., Weiss, E., Mills-Finnerty, C., Thompson, A., Zack, S., Lindley, S., Arnow, B., Jo, et al  
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- **Participatory System Dynamics Modeling: Increasing Stakeholder Engagement and Precision to Improve Implementation Planning in Systems.** *Administration and policy in mental health*  
Zimmerman, L., Lounsbury, D. W., Rosen, C. S., Kimerling, R., Trafton, J. A., Lindley, S. E.  
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- **An RCT of Effects of Telephone Care Management on Treatment Adherence and Clinical Outcomes Among Veterans With PTSD.** *Psychiatric services*  
Rosen, C. S., Azevedo, K. J., Tiet, Q. Q., Greene, C. J., Wood, A. E., Calhoun, P., Bowe, T., Capehart, B. P., Crawford, E. F., Greenbaum, M. A., Harris, A. H., Hertzberg, M., Lindley, et al  
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- **Provider-Driven Development of a Measurement Feedback System to Enhance Measurement-Based Care in VA Mental Health** *COGNITIVE AND BEHAVIORAL PRACTICE*  
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- **A Pilot Program in Telepsychiatry for Residents: Initial Outcomes and Program Development** *ACADEMIC PSYCHIATRY*  
DeGaetano, N., Greene, C. J., Dearaujo, N., Lindley, S. E.  
2015; 39 (1): 114-118
- **Peer Support Program for Veterans in Rural Areas** *PSYCHIATRIC SERVICES*  
Jain, S., Hernandez, J. M., Lindley, S. E.  
2014; 65 (9): 1177-1177

- **Psychotic-like Experiences, Symptom Expression, and Cognitive Performance in Combat Veterans With Posttraumatic Stress Disorder.** *Journal of nervous and mental disease*  
Lindley, S. E., Carlson, E. B., Hill, K. R.  
2014; 202 (2): 91-96
- **Hypothalamic-pituitary-adrenal axis physiology and cognitive control of behavior in stress inoculated monkeys** *2nd Herzliyah Symposium on Developmental Psychopathology*  
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- **Hypothalamic-pituitary-adrenal axis physiology and cognitive control of behavior in stress inoculated monkeys.** *International journal of behavioral development*  
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- **Relationship between insulin resistance and C-reactive protein in a patient population treated with second generation antipsychotic medications** *INTERNATIONAL CLINICAL PSYCHOPHARMACOLOGY*  
Kim, S. H., Reaven, G., Lindley, S.  
2011; 26 (1): 43-47
- **Overview of Bioethical Issues in Contemporary PTSD Treatment and Research: Considering Priorities for Future Empirical Ethics Investigation** *AJOB Primary Research*  
Jain, ., Nazarian, D., Weitlauf, J., Lindley, S.  
2011; 36 (1): 26-32
- **Relationship between body mass index and insulin resistance in patients treated with second generation antipsychotic agents** *JOURNAL OF PSYCHIATRIC RESEARCH*  
Kim, S. H., Nikolics, L., Abbasi, F., Lamendola, C., Link, J., Reaven, G. M., Lindley, S.  
2010; 44 (8): 493-498
- **Monitoring mental health treatment acceptance and initial treatment adherence in veterans Veterans of Operations Enduring Freedom and Iraqi Freedom versus other veterans of other eras** *89th Annual Conference of the Association for Research in Nervous and Mental Disease*  
Lindley, S., Cacciapaglia, H., Noronha, D., Carlson, E., Schatzberg, A.  
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- **Glucocorticoid antagonists in neuropsychiatric disorders (vol 583, pg 358, 2008)** *EUROPEAN JOURNAL OF PHARMACOLOGY*  
Schatzberg, A. F., Lindley, S.  
2008; 592 (1-3): 168
- **Glucocorticoid antagonists in neuropsychotic disorders** *EUROPEAN JOURNAL OF PHARMACOLOGY*  
Schatzberg, A. F., Lindley, S.  
2008; 583 (2-3): 358-364
- **PTSD in Iraq War Veterans: Implications for Primary Care** *Directions in Psychiatry*  
Prins, A., Gregg J, Coles C, Frayne S, Lindley SE  
2008; 28 (2): 91-102
- **A randomized, double-blind, placebo-controlled trial of augmentation topiramate for chronic combat-related posttraumatic stress disorder** *JOURNAL OF CLINICAL PSYCHOPHARMACOLOGY*  
Lindley, S. E., Carlson, E. B., Hill, K.  
2007; 27 (6): 677-681
- **Early life stress and novelty seeking behavior in adolescent monkeys** *PSYCHONEUROENDOCRINOLOGY*  
Parker, K. J., Rainwater, K. L., Buckmaster, C. L., Schatzberg, A. F., Lindley, S. E., Lyons, D. M.  
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- **Serotonin transporter polymorphism, memory and hippocampal volume in the elderly: association and interaction with cortisol** *MOLECULAR PSYCHIATRY*  
O'Hara, R., Schroder, C. M., Mahadevan, R., Schatzberg, A. F., Lindley, S., Fox, S., Weiner, M., Kraemer, H. C., Noda, A., Lin, X., Gray, H. L., Hallmayer, J. F.  
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- **Monoamine oxidase and catechol-omethyltransferase enzyme activity and gene expression in response to sustained glucocorticoids** *PSYCHONEUROENDOCRINOLOGY*  
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- **Basal and dexamethasone suppressed salivary cortisol concentrations in a community sample of patients with posttraumatic stress disorder** *BIOLOGICAL PSYCHIATRY*  
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- **Aging and panic disorder - Phenomenology, comorbidity, and risk factors** *AMERICAN JOURNAL OF GERIATRIC PSYCHIATRY*  
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- **Mesolencephalic dopamine neurochemical responses to glucocorticoid administration and adrenalectomy in Fischer 344 and Lewis rats** *BRAIN RESEARCH*  
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2002; 958 (2): 414-422
- **Psychotic symptoms in posttraumatic stress disorder.** *CNS spectrums*  
Lindley, S. E., Carlson, E., Sheikh, J.  
2000; 5 (9): 52-57
- **Glucocorticoid effects on mesolencephalic dopamine neurotransmission** *NEUROPSYCHOPHARMACOLOGY*  
Lindley, S. E., Bengoechea, T. G., Schatzberg, A. F., Wong, D. L.  
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- **Strain differences in mesolencephalic dopaminergic neuronal regulation between Fischer 344 and Lewis rats** *BRAIN RESEARCH*  
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1999; 832 (1-2): 152-158
- **Separation induced changes in squirrel monkey hypothalamic-pituitary-adrenal physiology resemble aspects of hypercortisolism in humans** *PSYCHONEUROENDOCRINOLOGY*  
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- **Adrenergic differentiation potential in PC12 cells: Influence of sodium butyrate and dexamethasone** *MOLECULAR BRAIN RESEARCH*  
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- **DIVALPROEX SODIUM IN THE TREATMENT OF AGGRESSIVE-BEHAVIOR AND DYSPHORIA IN PATIENTS WITH ORGANIC BRAIN SYNDROMES** *JOURNAL OF CLINICAL PSYCHIATRY*  
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- **EVIDENCE THAT HYPOTHALAMIC PERIVENTRICULAR DOPAMINE NEURONS INNERVATE THE INTERMEDIATE LOBE OF THE RAT PITUITARY** *NEUROENDOCRINOLOGY*  
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- **DOPAMINERGIC AND BETA-ADRENERGIC-RECEPTOR CONTROL OF ALPHA-MELANOCYTE-STIMULATING HORMONE-SECRETION DURING STRESS** *NEUROENDOCRINOLOGY*  
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- **ACTIVATION OF TUBEROINFUNDIBULAR BUT NOT TUBEROHYPOPHYSIAL DOPAMINERGIC-NEURONS FOLLOWING INTRACEREBROVENTRICULAR ADMINISTRATION OF ALPHA-MELANOCYTE-STIMULATING HORMONE** *NEUROENDOCRINOLOGY*  
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- **3,4-DIHYDROXYPHENYLACETIC ACID CONCENTRATIONS IN THE INTERMEDIATE LOBE AND NEURAL LOBE OF THE POSTERIOR PITUITARY-GLAND AS AN INDEX OF TUBEROHYPOPHYSIAL DOPAMINERGIC NEURONAL-ACTIVITY** *BRAIN RESEARCH*  
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- **EFFECTS OF ALTERATIONS IN THE ACTIVITY OF TUBEROHYPOPHYSIAL DOPAMINERGIC-NEURONS ON THE SECRETION OF ALPHA-MELANOCYTE STIMULATING HORMONE** *PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE*  
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- **EFFECT OF ELECTRICAL-STIMULATION OF THE ARCUATE NUCLEUS ON NEUROCHEMICAL ESTIMATES OF TUBEROINFUNDIBULAR AND TUBEROHYPOPHYSIAL DOPAMINERGIC NEURONAL ACTIVITIES** *BRAIN RESEARCH*  
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