

CURRICULUM VITAE

Date of Revision: April 19, 2016

Name: Matthew M. Burg, Ph.D.

Proposed for Appointment as: Associate Professor, Department of Internal Medicine, Section of Cardiovascular Medicine, Investigator Track, coterminous with VA appointment, with a Secondary Appointment in the Department of Anesthesiology

Term: Primary Appointment: July 1, 2015 – June 30, 2020
Secondary Appointment: July 1, 2015 – June 30, 2020

School: Yale University School of Medicine

Reason for Appointment:

Education:

B.A. SUNY New Paltz (Psychology) 1974
M.A. Drake University (Applied Behavior Analysis) 1979
Ph.D. West Virginia University (Clinical Psychology) 1984

Career/Academic Appointments:

1983 - 1984 Psychology Associate, VAMC, Durham, NC
1984 - 1986 Post-Doctoral Fellow in Cardiovascular Behavioral Medicine, Duke University Medical School, Durham, NC
1987 - 1993 Assistant Clinical Professor of Psychology in Psychiatry, Yale University School of Medicine, New Haven, CT
1993 - 2002 Assistant Clinical Professor of Medicine, Yale University School of Medicine, New Haven, CT
2002 - Present Associate Clinical Professor of Medicine, Yale University School of Medicine, New Haven, CT
2004 - Present Associate Clinical Professor of Medicine & Behavioral Medicine, Columbia University Medical Center, NY, NY

Administrative Positions:

1986 - 2003 Chief, Health Psychology Section and Director of Training in Clinical Health Psychology, VA Connecticut, West Haven, CT
1986 - Present Director Cardiovascular Behavioral Medicine Research Program, VA Connecticut, West Haven, CT

Board Certification:

Licensed Clinical Psychologist, State of Connecticut, 1988-Present

Professional Honors & Recognition

2001 - Present	Elected Fellow, Society of Behavioral Medicine
2000 - Present	Elected Fellow, Academy of Behavioral Medicine Research
1999 - Present	Founding Fellow, Academy of Cognitive Therapy
1984 - 1986	NIA Post Doctoral Fellowship, Duke University
1981 - 1984	Sweigart Fellowship, West Virginia University
1980 - 1981	NIMH Traineeship, West Virginia University

Grant/Clinical Trials History:

Current Grants

Agency: NIH/NHLBI

I.D.# R01HL126770

Title: "Stress, Sleep, and Arterial Stiffness

P.I.: Matthew M. Burg, PhD

Percent effort: 30%

Total costs for project period: \$3,196,357

Project Period: 07/01/16 - 06/30/20

Agency: NIH/NHLBI

I.D.# R01HL125587

Title: "PTSD, Sleep, and Risk for Incident Hypertension

P.I.: Matthew M. Burg, PhD

Percent effort: 30%

Total costs for project period: \$3,205,535

Project Period: 08/01/15 - 07/31/19

Agency: NIH/NHLBI

ID#: R01 HL116470

Title: "TRANSLATIONAL RESEARCH OF NEGATIVE EMOTIONS AND ACUTE ENDOTHELIAL DYSFUNCTION"

P.I.: Daichi Shimbo, MD

Role on Project: Co-investigator

Percent effort: no support taken

Direct costs per year: \$500,000

Total costs for project period: \$2,500,000

Project period: 7/01/2013-6/30/2018

Agency: Veteran's Administration Cooperative Studies Program

I.D.# IIR 12-118

Title: "Women Veterans Cohort Study, Wave II"

P.I.: Sally Haskell, M.D.

Role on project: Co-Investigator

Percent effort: 20%
Total costs for project period: \$2,500,000
Project period: 07/01/2014 – 06/30/2018

Agency: Veteran's Administration Clinical Science Program

I.D.#

Title: "PTSD and Incident Cardiovascular Disease Risk in OIF/OEF Veterans"

P.I.: Matthew M. Burg, PhD, Robert Soufer, M.D.

Percent effort: 20%

Total costs for project period: \$600,000

Project period: 10/01/2014 – 09/30/2018

Agency: NIH/NHLBI

ID #: R01 HL125918 (Lampert)

Title: "EXERCISE IN GENETIC CARDIOVASCULAR CONDITIONS"

PI: Rachel Lampert, MD

Role on project: Co-Investigator

Percent Effort: 10%

Direct Costs per Year: Total costs for project period: \$775,273

Total costs for project period: \$2,866,550

Project period: 03/01/2015 - 02/29/2020

Past Grants

Agency: NIH/NHLBI

I.D.# R01 HL115941

Title: "ECOLOGICAL LINK OF PSYCHOSOCIAL STRESS TO EXERCISE PERSONALLIZED PATHWAYS"

P.I.: Matthew M. Burg, PhD, Karina Davidson, PhD

Percent effort: 10%

Direct costs per year: \$375,000

Total costs for project period: \$1,125,000

Project period: 10/01/2012 – 09/30/2015

Agency: NIH/NHLBI

ID#: P01 HL088117

Title: "DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES"

P.I.: Karina Davidson, PhD

Role on Project: Co-investigator, Project Leader

Percent effort: 20%

Direct costs per year: \$1,500,000

Total costs for project period: \$7,500,000

Project period: 09/22/2008-06/30/2015

Agency: NIH/NHLBI

ID#: P01 HL47540

Title: "PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE"
P.I.: Joseph Schwartz, PhD
Role on Project: Co-investigator, Project Leader
Percent effort: 20%
Direct costs per year: \$1,500,000
Total costs for project period: \$7,500,000
Project period: 07/01/2009-02/28/2016 (nce)

Agency: NIH/NHLBI
I.D.# R01 HL 59619
Title: "NEUROBEHAVIORAL CORRELATES OF MENTAL STRESS ISCHEMIA"
P.I.: Robert Soufer, MD.
Role on project: Co-Investigator
Percent effort: 20%
Total costs for project period: \$2,500,000
Project period: 01/01/2008 – 12/31/2013

Agency: NIH/NHLBI
I.D.# R24 HL76857
Title: "MIND-BODY-BEHAVIORAL MED CLINICAL TRIALS INFRASTRUCTURE"
P.I.: Thomas Pickering, MD.
Role on project: Core Director
Percent effort: 20%
Total costs for project period: \$2,500,000
Project period: 09/30/2004 - 07/31/2009

Agency: NIH/NHLBI
I.D.# R24 HL76857
Title: "EMOTIONAL REACTIVITY: A TRIGGER OF ATRIAL FIBRILLATION"
P.I.: Rachel Lampert, MD.
Role on project: Co-Investigator
Percent effort: 15%
Total costs for project period: \$1,500,000
Project period: 05/01/2004 - 04/30/2009

Agency: Veteran's Administration Clinical Science Program
I.D.#
Title: "Depression and Coronary Disease: Prognosis and Mechanisms"
P.I.: Matthew M. Burg, PhD, Robert Soufer, M.D.
Percent effort: 20%
Total costs for project period: \$600,000
Project period: 10/01/2003 – 09/30/2008

Agency: Veteran's Administration Clinical Science Program
I.D.#
Title: "Psychological, CNS and Myocardial Mechanisms in Mental Stress Ischemia"
P.I.: Matthew M. Burg, PhD, Robert Soufer, M.D.
Percent effort: 20%

Total costs for project period: \$600,000
Project period: 10/01/1998 – 09/30/2002

Agency: Veteran's Administration Clinical Science Program

I.D.#

Title: "Mental stress and acute coronary syndromes"

P.I.: Matthew M. Burg, PhD, Robert Soufer, M.D.

Percent effort: 20%

Total costs for project period: \$453,000

Project period: 10/01/1994 – 09/30/1998

Agency: Veteran's Administration Clinical Science Program

I.D.#

Title: "Psychological and physiological factors in myocardial ischemia"

P.I.: Matthew M. Burg, PhD, Robert Soufer, M.D.

Percent effort: 20%

Total costs for project period: \$450,000

Project period: 10/01/1991 – 09/30/1994

Past Clinical Trials

Agency: NIH/NHLBI

ID#: P01 HL47540

Title: "REDUCING VULNERABILITY TO ICD SHOCK TREATED VENTRICULAR ARRHYTHMIAS"

P.I.: Matthew M. Burg, PhD

Percent effort: 35%

Direct costs per year: \$500,000

Total costs for project period: \$2,500,000

Project period: 09/30/2007-06/30/2014

Agency: NIH/NHLBI

ID#: RC2 HL101663

Title: "COMPARISON OF DEPRESSION INTERVENTIONS AFTER ACUTE CORONARY SYNDROME (CODIACS)"

P.I.: Karina Davidson, PhD

Role on Project: Site-PI

Percent effort: 20%

Direct costs per year: \$500,000

Total costs for project period: \$1,724,935

Project period: 09/30/2009-07/31/2011

Agency: NIH/NHLBI

ID#: HC25197

Title: "CONSORTIUM FOR TRANSLATION OF PSYCHOSOCIAL DEPRESSION THEORIES TO INTERVENTIONS AND DISSEMINATION (COPES)"

P.I.: Karina Davidson, PhD

Role on Project: Site-PI, Therapy Core Director

Percent effort: 55%

Direct costs per year: \$500,000

Total costs for project period: \$\$3,423,198
Project period: 09/30/2002 - 09/29/2008

Agency: NIH/NHLBI
ID#: HC25197
Title: “ENHANCING RECOVERY IN CHD PATIENTS (ENRICHD)”
Role on Project: Site-PI, Therapy Core Co-Director, QA Core Co-Director
Percent effort: 25%
Direct costs per year: \$500,000
Total costs for project period: \$3,554,373
Project period: 09/30/1995 - 09/30/2002

Agency: Veterans Administration Cooperative Studies
ID#: 996
Title: “Prevention and Treatment of Hypertension Study (PATHS)”
Role on Project: Site-PI
Percent effort: 20%
Direct costs per year: \$384,300
Total costs for project period: \$1,000,000
Project period: 09/30/1991 - 09/30/1994

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

Burg MM. Post-Traumatic Stress Disorder (PTSD) & Cardiovascular Disease Risk: A Research Agenda. Invited presentation to Pain Research, Informatics, Multi-morbidities, and Education (PRIME) Center; West Haven, CT, November, 2015.

Burg MM. Mental Stress Provoked Ischemic Syndromes: Moving Forward. Cardiology Grand Rounds, Emory University, Atlanta, GA, October, 2015.

Burg, MM. PTSD, PTSD Treatment, and Risk for Incident Hypertension in OIF/OEF Veterans. Invited address, Department of Veterans Affairs Health Services Research and Development Conference, Philadelphia, PA, July, 2015.

Burg, MM. Clinical trials for stress reduction in ICD patients. Invited address, Tilburg University, Tilburg, Netherlands, November, 2012.

Burg, MM. Mental stress ischemia: Current status and future directions. SUNY Stony Brook, February, 2011

Burg, MM. The role of anger in cardiovascular disease: emerging issues in assessment and treatment. Invited address, annual meeting of The Academy of Behavioral Medicine Research, June, 2010, Bodega Bay, CA

Burg, MM. Treating depression after acute coronary syndrome: ENRICH and beyond. Faculty Inception, Groningen University, Groningen, Netherlands, September, 2008.

Burg, MM. Depression trials for patients with heart disease: Moving Forward. Invited address, Tilburg University, Tilburg, Netherlands, November, 2008.

- Burg, MM. Treating depression in post-ACS patients: Can we improve event free survival. Clinical rounds, CORPS, Tilburg University, Tilburg, Netherlands, May 2007.
- Burg, MM. Potential role of endothelial function monitoring: Identification of vascular risk associated with stress and depression in CHD patients. Meeting of ENDOTHELIX Advisory Board, New Orleans, LA, March 2007.
- Burg, MM. Emotion and incident cardiovascular disease risk. Invited course, Tilburg University, Tilburg, Netherlands, October, 2006.
- Burg, MM. Stress, the Forgotten Risk Factor. Cardiology Rounds, University of Miami, February, 2006
- Burg, MM. Depression, social support, and ischemic heart disease. Cardiology Rounds, Columbia University School of Medicine, February 2004.
- Burg, MM. Emotion, stress and CHD. Colloquium, Yeshiva University, NYC, NY, October 2003.
- Burg, MM. Treating depression in patients after acute coronary syndrome. Colloquium, Hartford Hospital, Hartford, CT, June 2003.
- Burg, MM. Stress and emotion in cardiovascular disease. Colloquium, VA Connecticut, West Haven, CT, May 2003.
- Burg, MM. Cardiovascular behavioral medicine: A primer. Colloquium, VA Connecticut, West Haven, CT, October 2002.
- Burg, MM. The ENRICHD Clinical Trial: Primary and secondary outcomes. Integrative and Behavioral Cardiology Grand Rounds, Mount Sinai School of Medicine, NYC, NY, September 2002.
- Burg, MM. Mental stress ischemia: Characteristics, mechanisms and treatment. Integrative and Behavioral Cardiology Grand Rounds, Mount Sinai School of Medicine, NYC, NY, June 2002.
- Burg, MM. Stress, emotion and coronary heart disease. Cardiology Grand Rounds, Hartford Hospital, Hartford, CT, December 1999.
- Burg, MM. Mental stress and psychosocial factors in myocardial ischemia. Invited address and participation in Special Emphasis Panel on Mental Stress Ischemia, National Heart, Lung and Blood Institute, January 1996.
- Burg, MM. Stress related risk factors for ischemic heart disease. Colloquium presented to Department of Psychology, Connecticut College, New London, CT, November 1990.
- Burg, MM. Stress and Health: A biopsychosocial model. Colloquium presented to Briarwood College, Southington, CT, November 1990.

Professional Service

Peer Review Groups/Grant Study Sections:

March 2015 Member Conflict Review, MESH Study Section
June 2014 Member Conflict Review, MESH Study Section
2004-2011 Member, RPHB-2 Study Section
1998-2003 Ethel Donaghue Foundation, Scientific Advisory Panel, Clinical and Community Health

Journal Service:

Reviewer

2002-present Reviewer for Psychosomatic Medicine, Annals of Behavioral Medicine, European Heart Journal, Biological Psychiatry, Journal of Psychosomatic Medicine, Journal of the American College of Cardiology, PACE, Journal of the American Heart Association, Journal of General Internal Medicine, American Journal of Cardiology, American Journal of Cardiology

Professional Service for Professional Organizations:

2014 American Psychosomatic Society representative, “Science on the Hill Day”, September 18, 2014, Washington, DC.
2015 American Psychosomatic Society representative, “COSSA-Advocacy Day”, March 9-10, 2015, Washington, DC.

Yale University Service:

1986-Present Training Committee, Psychology Service, VA Connecticut
2012-2014 Research Mentor, Physician’s Assistant Training Program

Public Service:

2010 Featured Panelist, Heart Disease & Prevention-Coronary Microvascular Disease, “Second Opinion”, Episode 501, PBS.
2015 Women Veterans Cardiovascular Health Workgroup

Bibliography:

Peer-Reviewed Original Research

1. **Burg MM**, Reid DH, Lattimore J. Use of a self-recording and supervision program to change institutional staff behavior. *J Appl Behav Anal* 1979;12:61-73.
2. Edelstein BA, Keaton-Brasted C, **Burg MM**. The effects of caffeine withdrawal on cardiovascular and gastrointestinal responses. *Health Psychol* 1983;2:343-352.
3. Edelstein BA, Keaton-Brasted C, **Burg MM**. Effects of caffeine withdrawal on nocturnal enuresis, insomnia, and behavior restraints. *J Consul Clin Psychol* 1984;52:857-862.
4. Blumenthal JA, **Burg MM**, Barefoot J, Williams RB, Haney T, Zimet G. Social support, type A behavior, and coronary artery disease. *Psychosom Med* 1987;44:331-340.
5. Blumenthal JA, Barefoot J, **Burg MM**, Williams RB. Psychological correlates of hostility among

patients undergoing coronary angiography. *Brit J Med Psychol* 1988;60:349-355.

6. Fontana A, Kerns R, Blatt SJ, Rosenberg RR, **Burg MM**, Colonese C. Cynical mistrust and the search for self worth. *J Psychosom Res* 1989;33:449-456.
7. Fontana A, Rosenberg RR, **Burg MM**, Kerns RD, Colonese KL. Type A behavior and self referencing: Interactive risk factors. *J Pers Soc Behav* 1990;5 (1):215-232.
8. **Burg MM**, Jain D, Soufer R, Kerns RD, Zaret BL. Role of behavioral and psychological factors in mental stress induced silent left ventricular dysfunction in coronary artery disease. *J Am Coll Cardiol* 1993;22:440-448.
9. **Burg MM**, Seeman TE. Families and health: The negative side of social ties. *Ann Behav Med* 1994;16:109-115.
10. Jain D, **Burg MM**, Soufer R, Zaret BL. Prognostic implications of mental stress induced silent left ventricular dysfunction in patients with stable angina pectoris. *Am J Cardiol* 1995;76:31-35.
11. Benedetto MC, Kerns RD, Rosenberg R, **Burg MM**, Westgate K. Health risk behaviors and their relationships to health care utilization among veterans receiving primary medical care. *J Clin Psychol in Med Settings* 1998;5:441-447.
12. Cushman WC, Cutler JA, Hanna E, Bingham SF, Follmann D, Harford T, Dubbert P, Allender PS, Dufour M, Collins JF, Walsh SM, Kirk GF, **Burg MM**, et al. The prevention and treatment of hypertension study (PATHS): Effects of an alcohol treatment program on blood pressure. *Arch Intern Med* 1998;158:1197-1207.
13. Jain D, Shakir S, **Burg MM**, Wackers FTh, Soufer R, Zaret BL. Effect of mental stress on left ventricular and peripheral vascular performance in patients with coronary artery disease. *J Am Coll Cardiol* 1998;31:1314-1322.
14. Soufer R, Bremner JD, Arrighi JA, Cohen I, Zaret BL, **Burg MM**, Goldman-Rakic P. Cerebral cortical hyperactivation in response to mental stress in patients with coronary artery disease. *Proc Nat Acad Sci* 1998;95:6454-6459.
15. Arrighi JA, **Burg MM**, Cohen I, Pfau S, Caulin-Glaser T, Zaret BL, Soufer R. Myocardial blood flow response to mental stress in normal subjects and patients with chronic coronary artery disease. *Lancet* 2000;356:310-11.
16. The ENRICHD Investigators. Enhancing recovery in coronary heart disease patients (ENRICHD): Study design and methods. *Am Heart J* 2000;139:1-9.
17. Lampert R, Jain D, **Burg MM**, Batsford WP, McPherson CA. Destabilizing effects of mental stress on ventricular arrhythmias in patients with implanted cardioverter-defibrillators. *Circulation* 2000;101:151-164
18. Jain D, Joska T, Lee FA, **Burg M**, Lampert R, Zaret BA. Day to day reproducibility of mental-stress induced abnormal left ventricular function response in patients with coronary artery disease and its relationship to autonomic activity. *J Nucl Cardiol* 2001;8:347-55.
19. The ENRICHD Investigators. Enhancing recovery in coronary heart disease patients (ENRICHD):

Study intervention. *Psychosom Med* 2001;63:747-55.

20. Lampert R, Joska T, Burg, MM, Batsford, WP, McPherson CA, Jain D. Emotional and physical precipitants of ventricular arrhythmia. *Circulation* 2002;106:1800-05.
21. **Burg MM**, Benedetto CM, Rosenberg R, Soufer R. Pre-surgical depression impacts 6-month outcome in patients undergoing coronary artery bypass graft (CABG) surgery. *Psychosom Med* 2003;65:111-118.
22. Berkman LF, Blumenthal J, **Burg M**, Carney RM, Catellier D, Cowan MJ, Czajkowski SM, DeBusk R, Hosking J, Jaffe A, Kaufmann PG, Mitchell P, Norman J, Powell LH, Raczynski JM, Schneiderman N, ENRICHD Investigators. The enhancing recovery in coronary heart disease patients (ENRICHD) study: The effects of treating depression and low social support on clinical events after myocardial infarction. *JAMA* 2003;289:3106-16.
23. Arrighi JA, **Burg MM**, Cohen IS, Possick S, Soufer R. Simultaneous Assessment of Myocardial Perfusion and Function During Mental Stress in Patients with Chronic Coronary Artery Disease. *J Nucl Cardiol* 2003;10:267-74.
24. **Burg MM**, Benedetto MC, Soufer R. Depression and mortality 2 years after coronary artery bypass graft surgery (CABG). *Psychosom Med* 2003;65:508-510.
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30. **Burg MM**, Lampert R, Joska T, Batsford W, Jain D. Psychological traits and emotion-triggering of ICD shock-terminated arrhythmias. *Psychosomatic Med* 2004;66:898-902.
31. Lampert R, Shusterman V, **Burg MM**, Lee F, Earley C, Goldberg A, McPherson C, Batsford W, Soufer R. Effects of Psychologic Stress on Repolarization and Relationship to Autonomic and Hemodynamic Factors. *J Cardiovasc Electrophysiol* 2005;16:371-7.
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- S. Depression and heart failure in patients with new myocardial infarction. *Am Heart J* 2005;149:851-5.
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 34. Haas DC, Chaplin WF, Shimbo D, Pickering TG, **Burg M**, Davidson KW. Hostility is an independent predictor of recurrent coronary heart disease events in men but not women: results from a population based study. *Heart* 2005;91:1609-10.
 35. **Burg MM**, Czajkowski S, Berkman LF, Barefoot JC, Saab P, Skala J, Huber M, DeLilli V, Taylor CB. Social support and recurrent cardiac events in the Enhancing Recovery in Coronary Heart Disease (ENRICHD) trial. *Psychosom Med* 2005;67:879-88.
 36. Gerin W, Ogedegbe G, Schwartz JE, Chaplin WF, Goyal T, Clemow L, Davidson DW, **Burg M**, Lipsky S, Kentor R, Jhalani J, Shimbo D, Pickering, TG. Assessment of the white coat effect. *J Hypertens* 2006;24:67-74.
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 40. Rieckmann N, Kronish IM, Haas D, Gerin W, Chaplin W F, **Burg MM**, Vorchheimer D, Davidson KW. Persistent depressive symptoms lower aspirin adherence following acute coronary syndromes. *Am Heart J* 2006;152:922-7.
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48. **Burg MM**, Lespérance F, Rieckmann N, Clemow L, Skotzko C, Davidson KW. Treating persistent depressive symptoms in post-ACS patients: The Project COPEs phase-I randomized controlled trial. *Contemp Clin Trials* 2008;29:231-240.
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51. Lopez-Jimenez F, Wu CO, Tian X, O'Connor C, Rich MW, **Burg MM**, Sheps D, Raczynski J, Somers VK, Jaffe AS. Weight Change after Myocardial Infarction—the Enhancing Recovery in Coronary Heart Disease patients (ENRICHD) Experience. *Am Heart J* 2008;155:478-84.
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54. Trockel M, **Burg MM**, Jaffe A, Barbour K, Taylor CB. Smoking behavior post myocardial infarction among ENRICHD Trial participants: Cognitive behavior therapy intervention for depression and low perceived social support compared with care as usual. *Psychosom Med* 2008;70:875-82.
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Detection of Risk for Emotion Provoked Myocardial Ischemia. *Psychosom Med* 2009;71:14-20.

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58. Lampert R, Shusterman V, **Burg M**, McPherson C, Batsford W, Goldberg A, Soufer R. Anger-induced T-wave alternans predicts future ventricular arrhythmias in patients with implantable cardioverter-defibrillators. *J Am Coll Cardiol* 2009;53:774-8.
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