

**Mayra Rodriguez, PhD, MPH**  
 Assistant Professor of Epidemiology & Biostatistics  
 Edward Via College of Osteopathic Medicine  
 910 S. Donahue Dr.  
 Auburn, Alabama 36832  
[mrodriguez@auburn.vcom.edu](mailto:mrodriguez@auburn.vcom.edu)

**A. Education & Training**

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Doctor of Philosophy in Public Health Sciences Behavioral and Community Health University of North Texas Health Science Center, Fort Worth, TX	2014
Master of Public Health Social and Behavioral Science University of North Texas Health Science Center in Fort Worth, TX	2009
Clinical Research Graduate School of Biomedical Science University of North Texas Health Science Center, Fort Worth, TX	2005
Bachelor of Science Biology/Chemistry University of Texas at Brownsville	2001

**C. Academic Positions**

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Assistant Professor Epidemiology & Biostatistics Director of Preventive Medicine and Public Health Biomedical Division Edward Via College of Osteopathic Medicine Auburn	2015- Present
Adjunct Assistant Professor Department of Health Behavior & Health Systems University of North Texas Health Science Center	2015-2018
Instructor Course: English as a Second Language (ESL) School of Public Health University of North Texas Health Science Center	2014
Instructor Course: (BACH 5335) Mental Health & Mental Illness School of Public Health University of North Texas Health Science Center	2012
Teaching Assistant Course: (EPID 5312) Survey Research & Questionnaire Design School of Public Health University of North Texas Health Science Center	2009

Certified Instructor 2002-2003  
Courses: Chemistry and Physics  
High School Science Teacher, Brownsville ISD, TX

Instructor 1998-2002  
Course: Mathematics  
College Preparatory Program, UT Brownsville, TX

## **B. Research Positions**

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Research Manager 2011-2015  
Department of Behavioral and Community Health  
School of Public Health  
University of North Texas Health Science Center  

- In-Person Computer Intervention to Increase Probation Compliance (NIDA) 3 RO1 DA29010-04S2)

Research Coordinator 2007-2011  
Department of Osteopathic Manipulative Medicine  
Osteopathic Research Center  
Texas College of Osteopathic Medicine  
University of North Texas Health Science Center  

- Osteopathic Manipulative Medicine in Pregnancy: Physiologic and Clinical Effects (NIH/NCCAM) 3K23AT003304-04S1
- Midcareer Investigator Award in CAM-Osteopathic Medicine (NIH/NCCAM) K24 AT002422
- Treatment Efficacy of OMT for Carpal Tunnel Syndrome (NIH/NCCAM) R21 ATT002303

Research Assistant 2006  
Department of Family Medicine  
Texas College of Osteopathic Medicine  
University of North Texas Health Science Center  

- Cardiovascular Disease, Perceived Discrimination, Social Support, Sense of Control: Understanding Biological Pathways – North Texas Healthy Heart Study (NCMHHD) 5P20MD001633-05

## **D. Guest Lecturer**

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Topic: Principles of Epidemiology Fall 2015  
Public Health Nutrition  
Auburn University

Topic: Health Education/Policy & Health Behavior Models Spring 2015  
Principles of Public Health  
Austin College

Topic: Behavior Outcomes among Substance Users involved on Probation Fall 2014  
(BACH 6317) Addictive Behaviors  
University of North Texas Health Science Center

Topic: Community Based-Participatory Research  
(BACH 5300) Theoretical Foundations of Individual and Community Health  
University of North Texas Health Science Center

Spring 2013

Topic: Social Influence  
(BACH 6322) Motivational Interviewing  
University of North Texas Health Science Center

Spring 2012

Topic: Research Methods  
(BACH 5310) Community Assessment  
University of North Texas Health Science Center

Fall 2011

### **E. Honors & Awards**

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2015- Adjunct Assistant Professor, Department of Health Behavior and Health Systems,  
University of North Texas Health Science Center

2015 - President's Hero Award for developing of an English as a Second Language Pilot  
Course/Project for facilities management Spanish speaking employees working the day/night shift  
at the University of North Texas Health Science Center

2014 - Outstanding Research Paper Presentation, "*What motivates people to treatment? Factors  
associated with increased motivation for substance abuse treatment among probationers*" Texas  
Public Health Association, Corpus Christi, Texas

2013 - Rand Horseman Employee Scholarship, Scholarship awarded to full-time University of  
North Texas Health Science Center employees who are also working toward higher education.

2009 - Oral Presentation Award (Group) Research Appreciation Day, "*Bioterrorism: awareness  
and preparedness of Denton county Medical Reserve Corps (MRC) volunteers*". Second Place,  
Oral Presentation Award at Research Appreciation Day. University of North Texas Health  
Science Center

### **F. Professional Research Organizations**

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Association for Prevention Teaching and Research	American Public Health Association
American Psychological Association	Society for Epidemiology Research

### **G. Research Journal Articles**

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**Rodriguez, M.** Walters, S.T., Houck, J., Ortiz, A., Taxman, F., Examining Language as a  
Mechanism of Behavior Change Among Criminal Justice Offenders. *Journal of Studies on Alcohol  
and Drugs*. Under Review.

Spoehr, S. A., Taxman, F. S., **Rodriguez, M.**, & Walters, S. T. (2016). Motivational interviewing  
fidelity in a community corrections setting: Treatment initiation and subsequent drug use. *Journal  
of substance abuse treatment*, 65, 20-25.

Taxman, F. S., Walters, S. T., Sloas, L. B., Lerch, J., **Rodriguez, M.** Motivational tools to improve  
probationer treatment outcomes. *Contemporary Clinical Trials*. July 2015. 43, 120 – 128.

Hensel, K.L., Buchanan, S., Brown, S.K., **Rodriguez, M.**, Cruiser, A. Pregnancy Research on Osteopathic Manipulation Optimizing Treatment Effects: The PROMOTE Study A Randomized Controlled Trial. *American Journal of Obstetrics and Gynecology*. July 2014. 211(14), 1-9.

Rossheim, M.E., Wilson, F., Suzuki, S., **Rodriguez, M.**, Walters, S., Thombs, D.L. Associations between drug use and motorcycle helmet use in fatal crashes. *Traffic Injury Prevention*, Nov 2013. 15(7), 678-684.

Walters, S.T., Ondersma, S.J., Ingersoll, K., **Rodriguez, M.**, Lerch, J., Rossheim M.E., Taxman, F.S. MAPIT: Development of a web-based intervention targeting substance abuse treatment in the criminal justice system. *Journal Substance Abuse Treatment*, Feb 2013. 46 (1), 60-65.

Carroll, J.F., Fulda, K., Chiapa, A.L., **Rodriguez, M.**, Phelps D.R. Cardarelli, K., Vishwanatha, J.K., Cardarelli R. Impact of race/ethnicity on the relationship between visceral fat and inflammatory biomarkers. *Obesity Journal*, Feb 2009, 1-8.

Carroll, J.F., Chiapa A.L., **Rodriguez, M.**, Phelps, D.R., Cardarelli, K.M. Vishwanatha, J.K., Bae, S., Cardarelli, R. Visceral fat, waist circumference and body mass index: Impact of race/ethnicity. *Obesity*, Jan 2008, 16, 600-607.

AbdulRahim N., Cardarelli R., Cardarelli K.M., Chiapa A.L., **Rodriguez M.** Relationship between Interleukin-6 and Coronary Artery Calcium Scores. *The Primary Care Research Journal*, 2006.

**Rodriguez, M.** "Community Outreach" *The Primary Care Research Journal*. Fall 2006; Vol. 2, No. 4.

## **H. Research Presentations**

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Kidd, J, Kidd, J, **Rodriguez, M**, Stoner, A. 2<sup>nd</sup> Year Osteopathic Medical Students' Exposure to a Community Health Assessment and Implementation Project. Roundtable discussion – APTR professional meeting Albuquerque, NM. March 2016.

**Rodriguez, M.**, Spohr, Walters, S.T., Taxman, F. Examining the Language of Behavior Change among Criminal Justice Offenders. American Public Health Association. November 2015. Poster Presentation

**Rodriguez, M.**, Spohr, Walters, S.T., Taxman, F. Language as a Mechanism of Behavior Change among Criminal Justice Offenders. American Academy of Health Behavior. March 2015. Poster Presentation.

Spohr, S. Walters, S.T., Taxman, F, **Rodriguez, M.**, Lerch, J. What reminders do probationers want to assist with probation and treatment goals? Texas Public Health Association Conference. March 2014. Poster Presentation.

**Rodriguez, M.**, Lerch, J., Walters, S.T., Taxman, F.S. Get In, Get Out: Motivation for substance abuse treatment among people on probation. Texas Public Health Association Conference. March 2014. Oral Presentation.

**Rodriguez, M.**, Lerch, J., Walters, S.T., Taxman, F.S. What motivates people to treatment? Factors associated with increased motivation for substance abuse treatment among probationers. Research Appreciation Day. March 2014. Poster Presentation.

**Rodriguez, M.**, Lerch, J., Walters, S.T., Taxman, F.S. What motivates people to treatment? Factors associated with increased motivation for substance abuse treatment among probationers. American Academy of Health Behavior. March 2014. Poster Presentation.

Walters, S.T., Taxman, F.S., Lerch, J., **Rodriguez, M.**, Rossheim, M. MAPIT: Development and testing of a web-based intervention targeting substance abuse treatment in the criminal justice system. American Public Health Association. November 2013. Oral Presentation.

Walters, S.T., Taxman, F.S., **Rodriguez, M.**, Lerch, J. Development of a web-based intervention targeting treatment initiation and probation compliance. American Society of Criminology. November, 2013. Poster Presentation.

Lerch, J., **Rodriguez, M.**, Walters, S.T., Taxman, F.S. Commitment level to treatment and probation: A preliminary analysis of MAPIT. Addiction of Health Services Research. October 2013. Poster Presentation.

Lerch, J., Taxman, F.S., **Rodriguez, M.**, Walters, S.T. Development of a web-based intervention targeting treatment initiation and probation compliance. HIV Methods and Intervention Science Meeting. September 2013, Poster Presentation.

Taxman, F.S., Walters, S.T., **Rodriguez, M.**, Lerch, J. Integrated intervention to motivate offenders to change. International Conference on Mental Health and Law. July 2013. Oral Presentation.

Taxman, F.S., Walters, S.T., **Rodriguez, M.**, Lerch, J. The concept of motivation in programs for justice involved individuals. Justice Involved Women. June 2013. Oral Presentation.

Walters, S., **Rodriguez, M.**, Lerch, J., Taxman, F.S. MAPIT: Development of a web-based intervention targeting substance abuse treatment in the criminal justice system. College on Problems on Drug Dependence. June 2013. Poster Presentation.

Walters, S.T., **Rodriguez, M.**, Lerch, J., Taxman, F.S. MAPIT: Development of a web-based intervention targeting substance abuse and HIV risk in the criminal justice system. Texas Conference on Health Disparities. May 2013. Poster Presentation.

**Rodriguez, M.**, Walters, S.T., Lerch, J., Taxman, F.S. HIV perceptions, HIV testing intentions and commitment for substance abuse treatment among probationers. Texas Conference on Health Disparities. May 2013, Poster Presentation.

Taxman, F.S., Walters, S.T., **Rodriguez, M.**, Lerch, J. Development of a web-based intervention targeting treatment initiation and probation compliance. DC Health Communications Conference. March 2013. Poster Presentation.

Rossheim, M.E., Patil, P.G., **Rodriguez, M.**, Walters, S.T. Formative Research to guide the selection of an automated narrator voice in a computer-based health behavior intervention. March 2013. Poster Presentation.

Rossheim, M.E., Patil, P.G., **Rodriguez, M.**, Walters, S.T. Synthetic vs. human narration in a health behavior intervention: Formative research to guide the selection of a narrator voice. American Academy of Health Behavior. March 2013, Poster Presentation.

Walters, S.T., Taxman, F.S., **Rodriguez, M.**, Lerch, J. An e-intervention targeting probation compliance. Addiction of Health Services Research. October 2012. Oral Presentation.

Walters, S.T., **Rodriguez, M.**, Lerch, J., Taxman, F. Development of a motivational interviewing based e-intervention targeting probation compliance. International Conference of Motivational Interviewing. June, 2012. Oral Presentation.

Weikle, G., Hensel, K., Pacchia, C., **Rodriguez, M.**, Smith, M. Osteopathic manipulative treatment can improve acute peripheral hemodynamic control in 3<sup>rd</sup> trimester patients. Research Appreciation Day 2011. Poster Presentation.

**Rodriguez, M.**, Reyes-Ortiz, C. Acculturation influences the association between family history of disease and quality of diet. Research Appreciation Day 2010. Poster Presentation.

Basari, N., **Rodriguez, M.**, Natividad, G., Puri, S. Bioterrorism: awareness and preparedness of Denton county Medical Reserve Corps (MRC) volunteers. Research Appreciation Day 2009. Second Place- Oral Presentation Award.

Johnson, K., Chiapa A.L., **Rodriguez M.**, Cardarelli K.M., Cardarelli R. Acculturation and self-rated health among Hispanics. Johnson Unite for Sight Conference at Yale University, New Haven, CT, April 2008.

Johnson K, Chiapa A.L., **Rodriguez M.**, Cardarelli K.M., Cardarelli R. Acculturation and self-rated health among Hispanics. Texas Public Health Policy Forum, Austin, TX, January 2008.

Cardarelli, R. Fulda, K.G., Chiapa, A., **Rodriguez, M.**, Carroll, J., Cardarelli, K. Racial/Ethnic Differences in Cardiovascular Inflammatory Markers –The North Texas Healthy Heart Study Research Appreciation Day 2008.

Carroll, J.F., Cardarelli, K.M., Chiapa, A., **Rodriguez, M.**, Phelps, D.R., Bae, S., Vishwanatha, J.K., Cardarelli, R. Role of ethnicity and gender in the relationship between body fat and inflammatory risk factors in the North Texas Healthy Heart Study RAD 2007, American College of Sports Medicine (ACSM) 2007.

Carroll, J.F., Chiapa A., **Rodriguez, M.**, Phelps, D.R., Cardarelli, K.M., Vishwanatha, J.K., Bae, S., Cardarelli, R. Visceral fat, waist circumference and body mass index: Impact of race/ethnicity TCHD 2007.

Carroll, J.F., Cardarelli, K.M., Chiapa, A., **Rodriguez, M.**, Phelps, D.R., Vishwanatha, J.K., Bae, S., Cardarelli, R. Visceral and subcutaneous fat distribution in Hispanic, African American, and white men and women in the North Texas Healthy Heart Study: Relation to inflammatory biomarkers. TCHD 2007.

**Rodriguez, M.**, Cardarelli, R., Chiapa, A.L. The relationship between Cannabis use, dieting and exercise behaviors Research Appreciation Day, Poster Presentation. UNTHSC 2007.

Abdulrahim N., Chiapa A.L., **Rodriguez M.**, Carroll J., Cardarelli K.M., Cardarelli R. Relationship between Interleukin-6 and Calcium Scores – The North Texas Healthy Heart Study. Research Appreciation Day 2007, American Medical Association Interim Meeting 2006.

Abdulrahim N., Cardarelli R., Cardarelli K.M., Chiapa, A.L., **Rodriguez M.** Relationship between interleukin-6 and coronary artery calcium scores. American Medical Association Annual Scientific Session. Las Vegas, NV, November 2006.

## I. Abstracts

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Carroll J.F., Cardarelli K, Chiapa A.L., **Rodriguez M.**, Phelps D.R., Cardarelli R. Race/ethnicity alters the visceral fat/inflammation relationship. North Texas Healthy Heart Study. American College of Sports Medicine Annual Meeting. Indianapolis, IN, May 2008. *Medicine & Science in Sports Exercise*. 2008; 40 (Suppl): S01.

Cardarelli K.M., Chiapa A.L., **Rodriguez M.**, Cardarelli, R. Mediating and modifying factors in the relationship between perceived racial discrimination and coronary artery calcification. Society for Epidemiologic Research Annual Meeting. Boston, MA, June 2007. *American Journal Epidemiology*. 2007; 165(Suppl): S76.

Carroll J.F., Cardarelli K.M., Chiapa A.L., **Rodriguez M.**, Phelps D.R., Cardarelli R. Role of ethnicity and gender in the relationship between body fat and inflammatory risk factors in the North Texas Healthy Heart Study. American College of Sports Medicine Annual Meeting. New Orleans, LA, May 2007. *Medicine & Science in Sports Exercise*. 2007; 39 (5 Suppl): S311.

#### **J. Submitted for Funding**

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**Rodriguez, M.** xx. Effects of Neighborhood Constructs on Health Outcomes in Rural America: Systematic Review and Meta-Analysis Funder: Robert Wood Johnson Foundation. May 2016. Amount \$21,115

**Rodriguez, M.**, Newton, A. Meacham, S. Healthy Appalachian Youth: Intervention to Improve Community Lifestyle Behaviors (The HAPPY Study)