

BIOGRAPHICAL SKETCH

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NAME: Zimmerman, M. Bridget

eRA COMMONS USER NAME (credential, e.g., agency login): ZIMMERMANMB

POSITION TITLE: Professor (Clinical)

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of the Philippines at Los Baños	B.S.	1978	Statistics
University of the Philippines at Los Baños	M.S.	1982	Statistics
Iowa State University, Ames, IA	M.S.	1984	Statistics
Iowa State University, Ames, IA	Ph.D.	1987	Statistics & Industrial Eng.

A. Personal Statement**B. Positions and Honors****Positions and Employment**

1978-79	Programmer, Policy and Technical Advisory Group, University of the Philippines at Los Baños, Los Baños, Laguna, Philippines
1979-81	Instructor, Department of Statistics, University of the Philippines at Los Baños, Los Baños, Laguna, Philippines
1980-81	Programmer, Multiple Cropping Systems Project, Department of Agronomy, University of the Philippines at Los Baños, Los Baños, Laguna, Philippines
1983-87	Research Assistant, Numerical Analysis Section, Department of Statistics, Iowa State University, Ames, Iowa
1987-88	Visiting Assistant Professor, Department of Statistics and Actuarial Science, University of Iowa, Iowa City, Iowa
1988-95	Assistant Research Scientist, Biostatistics Division, Department of Preventive Medicine and Environmental Health, University of Iowa, Iowa City, Iowa
1990-	Director, Biostatistics Consulting Center, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
1995-2003	Associate Research Scientist, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
2003-2008	Associate Professor(Clinical), Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
2008-	Professor(Clinical), Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
2009-	Associate Director of the ICTS Biostatistics Core, Institute for Clinical and Translational Science at The University of Iowa

Professional Memberships

American Statistical Association

C. Contributions to Science

My career as consulting statistician, spanning 27 years, have primarily involved collaborative research in health science research. My role in these studies included development of study design, statistical analysis, and interpretation of study results. This has produced 240 publications with 8000+ citations.

A third of this work is in ophthalmology research, in the area of vascular eye diseases. The scope of these studies included natural history and progression of these eye diseases, and association of systemic conditions and treatment on visual outcomes. The findings from these studies have influenced the management of these conditions.

- a. Hayreh SS, Zimmerman MB, Podhajsky P. Nocturnal arterial hypotension and its role in optic nerve head and ocular ischemic disorders. American Journal of Ophthalmology 117(5):603-624, 1994. PMID: 8172267
- b. Hayreh SS, Podhajsky PA, Zimmerman B. Ocular manifestations of giant cell arteritis. American Journal of Ophthalmology 125(4):509-520, 1998. PMID: 9559737
- c. Hayreh SS, Zimmerman MB. Non-arteritic anterior ischemic optic neuropathy: role of systemic corticosteroid therapy. Graefes Archive for Clinical and Experimental Ophthalmology 246(7):1029-46, 2008. PMID: 18404273
- d. Hayreh SS, Podhajsky PA, Zimmerman MB. Natural history of visual outcome in central retinal vein occlusion. Ophthalmology 118(1):119-133. 2011. PMID: 20723991 PMID: PMC2989417

I have also been involved in the design and statistical analysis of clinical trials. This included a large clinical trial on intranasal mupirocin to prevent post-operative *S. aureus* infection. The findings from this study have been applied to pre-operative practice for prevention post-operative surgical site infection. Other clinical trials of note included a study on comparative antihypertensive effects of Hydrochlorothiazide and Chlorthalidone, a randomized trial of liberal versus restrictive red blood cell transfusion in preterm infants, and a study on distraction to reduce distress in children during a medical procedure.

- e. Perl TM, Cullen JJ, Wenzel RP, Zimmerman MB, Pfaller MA, Sheppard D, Twombly J, French PP, Herwaldt LA. Intranasal mupirocin to prevent postoperative staphylococcus aureus infections. New England Journal of Medicine 346(24):1871-1877, 2002. PMID: 12063371
- f. Ernst ME, Carter BL, Goerd CJ, Steffensmeier J, Phillips BB, Zimmerman MB, Bergus GR. Comparative antihypertensive effects of Hydrochlorothiazide and Chlorthalidone on ambulatory and office blood pressure. Hypertension 47:352-358, 2006. PMID: 16432050
- g. Bell EF, Strauss RG, Widness JA, Mahoney LT, Mock DM, Seward VJ, Cress GA, Johnson KJ, Kromer IJ, Zimmerman MB. Randomized trial of liberal versus restrictive guidelines for red blood cell transfusion in preterm infants. Pediatrics 115(6):1685-1691, 2005. PMID: 15930233
- h. McCarthy AM, Kleiber C, Hanrahan K, Zimmerman MB, Ersig A, Westhus N, Allen S. Matching doses of distraction with child risk for distress during a medical procedure: a randomized clinical trial. Nursing Research 63(6):397-407, 2014. PMID: 25350539 PMID: PMC4282990

Recent collaborations include studies on pain with faculty in the College of Nursing, and Department of Physical Therapy which examined effect of Transcutaneous Electrical Nerve Stimulation on pain in patients with knee osteoarthritis.

- i. Vance CG, Rakel BA, Blodgett NP, de Santana JM, Amendola A, Zimmerman MB, Walsh DM, Sluka KA. Effects of Transcutaneous Electrical Nerve Stimulation on Pain, Pain Sensitivity, and Function in Patients With Knee Osteoarthritis: A Randomized Controlled Trial. Physical Therapy 92(7):898-910, 2012. PMID: 22466027 PMID: PMC3386514
- j. Rakel B, Vance C, Zimmerman MB, Petsas-Blodgett N, Amendola A, Sluka KA. Mechanical Hyperalgesia and Reduced Quality of Life Occur in People with Mild Knee Osteoarthritis Pain. Clinical Journal of Pain. 2014 May 23. [Epub ahead of print] PMID: 24866856
- k. Rakel BA, Zimmerman MB, Geasland K, Embree J, Clark CR, Noiseux NO, Callaghan JJ, Herr K, Walsh D, Sluka KA. Transcutaneous electrical nerve stimulation for the control of pain during rehabilitation after total knee arthroplasty: A randomized, blinded, placebo-controlled trial. Pain 155(12):2599-611, 2014. PMID: 25270585 PMID: PMC4250415

My published work can be accessed through ResearchGate:

https://www.researchgate.net/profile/Bridget_Zimmerman/publications?pubType=article

D. Additional Information: Research Support and/or Scholastic Performance

Current Research

R01 HL 119882 Helena Laroche (PI)

NIH

Family Obesity Intervention: Motivational Interviewing and Community Support

Role: Biostatistician

8/1/14-6/30/19

UM1 AR063381 Kathleen A. Sluka (PI) NIH Fybromyalgia Activity Study with TENS "FAST" Role: Biostatistician	7/1/13-6/30/19
U54 NS053672 Kevin Campbell (PI) NIH Muscular Dystrophy Cooperative Research Center Role: Biostatistician	6/8/05-6/30/20
R01 MH104363 David Wacker (PI) NIH Comparing Behavioral Assessments Using Telehealth for Children with Autism Role: Co-Investigator	4/1/15-3/31/19
U01 DK108334 Aliye Uc (Contact PI) NIH INSPPIRE to Study Pediatric Chronic Pancreatitis Role: Co-Investigator	9/28/15-8/31/20
R01 CA193249 Susan Lutgendorf (PI) NIH Behavioral Influences on Ovarian Cancer Progression: Role of Chemoresistance Role: Co-Investigator	2/10/16-12/31/20
UL1 TR002537 Patricia Winokur (Contact PI) NIH The University of Iowa Clinical and Translational Science Award Role: Biostatistician	3/30/18-2/28/23
R25 HL147231 Gideon Zamba (Contact PI) NIH Iowa Summer Institute for Research Education in Biostatistics (ISIREB) Role: Co-Investigator	3/1/19-2/28/22
R01 NR017610 Barbara Rakel (Contact PI) NIH Preventing Persistent Post-Surgical Pain and Dysfunction in At-Risk Veterans: Effect of a Brief Behavioral Intervention Role: Co-Investigator	2/8/19-11/20/23

Completed Research

5 P01 HL0496925 John Widness (PI) NIH Neonatal Anemia and Thrombocytopenia: Pathophysiology and Treatment Role: Co-Investigator/Biostatistician	7/1/06-6/30/17
5 R34 AT008349 Barbara Rakel (PI) NIH Preventing Persistent Post-Surgical Pain & Opioid Use in Veterans: Effect of ACT Role: Biostatistician	9/1/14-6/30/17
5 U54 TR001356 Gary Rosenthal (Contact PI) NIH The University of Iowa Clinical and Translational Science Award Role: Co-Investigator	8/14/15-7/31/17

1 R25 HL131467 Gideon Zamba (PI)

NIH

Iowa Summer Institute for Research Education in Biostatistics

Role: Co-Investigator

2/15/16-1/31/19