

Curriculum Vitae

Sydney D. Pettygrove

Chronology of Education

- 1986 A.B. University of California at Berkeley, Berkeley, CA. Major: Zoology.
1998 Ph.D. The Johns Hopkins University, Baltimore, Maryland. Major: Epidemiology. Dissertation: *A Case-Control Study of Neural Tube Defects and Agricultural Chemicals Using Geographic Information Systems*. Advisor: Adolfo Correa-Villaseñor, MD, Ph.D.

Chronology of Employment

- 2005-present Assistant Professor of Epidemiology, Division of Epidemiology and Biostatistics, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, Arizona.
1999-2005 Research Associate, University of Arizona, College of Public Health, Tucson, Arizona.

Honors and Awards

- 1992 National Science Foundation Graduate Fellowship - Honorable Mention 1993
Marilyn Menkes Book Award for Personal and Academic Excellence

Service/Outreach

Local & State

- 2002-present Autism referrals. I receive two to four requests per month for information about services in Phoenix and Tucson for people with autism. I have collected a set of information about resources that I provide.

National & International

- 2002-present Autism and Developmental Disabilities Monitoring Network (ADDM). ADDM is a Network of researchers conducting surveillance for Autism Spectrum Disorders and other developmental disabilities and is funded by the Centers for Disease Control and Prevention.

ADDM Committee memberships:

- 2002 – present Quality Control Committee
2002 – present Scientific Issues Group

Departmental Committees

- 2002 – present Admissions Committee
2002 – present Qualifying Exam Committee
2002 – 2006 Curriculum Committee
2007 – 2008 Qualifying Exam Committee, Chair

College Committees

2003- present Reviewer, MPH Admissions
2002, '03, '04 Judge, Internship Conference
2006 Member, Search Committee, Assistant Professor, Community,
Environment and Policy Division

Publications/Creative Activity

GL Carlo, NL Lee, KG Sund, **S Pettygrove**. 1992. The interplay of science, values and experiences among scientists asked to evaluate the hazards of dioxin, radon and environmental tobacco smoke. *Journal of Risk Analysis* 12(1):37-43.

GL Carlo, KG Sund, NL Lee, MR Jablinske, **S Pettygrove**. 1992. The Health Scientist Survey: identifying consensus on assessing human health risk. *Environment International* 18(4):331-9.

BL Williams, Y Florez, **S Pettygrove**. 2001. Inter- and intra-ethnic variation in water intake, contact, and source estimates among Tucson residents: implications for exposure analysis. *Journal of Exposure Analysis and Environmental Epidemiology* 11(6):510-521.

R Renger, A Cimetta, **S Pettygrove**, S Rogan. 2002. Geographic Information Systems (GIS) as an evaluation tool. *American Journal of Evaluation* 23 (4):469-479.

S Damon, R Arias, C Cunniff, FJ Meaney, **S Pettygrove**. MD STARnet: The Arizona experience. The Muscular Dystrophy Surveillance, Tracking, and Research Network. Poster paper at the 35th Annual Meeting and National Health Conference of the Association of American Indian Physicians, August 2006.

Centers for Disease Control and Prevention (CDC). 2007. Prevalence of Autism Spectrum Disorders. Autism and Developmental Disabilities Monitoring Network, Six Sites, United States, 2000. *MMWR Surveillance Summaries* 56(No.SS-1) 1-12.

Centers for Disease Control and Prevention (CDC). 2007. Prevalence of Autism Spectrum Disorders. Autism and Developmental Disabilities Monitoring Network, 14 Sites, United States, 2002. *MMWR Surveillance Summaries* 56(No.SS-1) 13-29.

K Van Naarden Braun, **S Pettygrove**, J Daniels, et al. 2007. Evaluation of a Methodology for a Collaborative Multiple Source Surveillance System for Autism Spectrum Disorders. Autism and Developmental Disabilities Monitoring Network, 14 Sites, United States, 2002. *MMWR Surveillance Summaries* 56(No.SS-1) 30-41.

FJ Meaney, SA Rice, **S Pettygrove**, J Andrews, J. Mortality and Disability: A Comparative Study of the Arizona Department of Economic Security, Division of Developmental Disabilities Client Deaths Between October 01, 2000 and September 20, 2004, Preliminary Report June 26, 2007.

S Pettygrove. Attack Rate. In: Sarah Boslaugh, Editor. *Encyclopedia of Epidemiology*.

SAGE Publications, Thousand Oaks, California, Volume 1:54-55, 2008.

S Pettygrove. Dose Response. In: Sarah Boslaugh, Editor. Encyclopedia of Epidemiology. SAGE Publications, Thousand Oaks, California, Volume 1:282-283, 2008.

FJ Meaney, **S Pettygrove.** Gene-Environment Interaction. In: Sarah Boslaugh, Editor. Encyclopedia of Epidemiology. SAGE Publications, Thousand Oaks, California, Volume 1:406-411, 2008.

S Pettygrove. Randomization. In: Sarah Boslaugh, Editor. Encyclopedia of Epidemiology. SAGE Publications, Thousand Oaks, California, Volume 2:891, 2008.

CE Rice, J Baio, A Washington, JS Nicholas, L King, LC Lee and **S Pettygrove.** Age and Use of the Early Classification of the Autism Spectrum Disorders (ASDs) In Multiple Areas of the United States. International Meeting for Autism Research London, May 2008.

CE Rice, J Baio, MJ Morrier, LD Wiggins, N Hobson, LC Lee, JS Nicholas, LA Carpenter and **S Pettygrove.** Changes in Diagnostic Testing Practices for the Autism Spectrum Disorders (ASDs) in Four US Populations. International Meeting for Autism Research Chicago, Illinois, USA, May 7-9, 2009.

Autism and Developmental Disabilities Monitoring Network. Prevalence of Autism Spectrum Disorders — Autism and Developmental Disabilities Monitoring Network, United States, 2006. Morbidity and Mortality Weekly Reports December 18, 2009 Vol. 58 No. SS-10.

CE Rice, J Nicholas, J Baio, **S Pettygrove**, LC Lee, K Van Naarden Braun, N Doernberg, C Cunniff, C Newschaffer, FJ Meaney, J Charles, A Washington, L King, M Kolotos, K Mancilla, CA Mervis, L Carpenter, M Yeargin-Allsopp. 2010. Changes in autism spectrum disorder prevalence in 4 areas of the United States. Disability and Health Journal 3(3) 186-201.

LA Schieve, CE Rice, O Devine, MJ Maenner, LC Lee, R Fitzgerald, MS Wingate, D Schendel, **S Pettygrove**, K van Naarden Braun, M Durkin. 2011. Have Secular Changes in Perinatal Risk Factors Contributed to the Recent Autism Prevalence Increase? Development and Application of a Mathematical Assessment Model. Ann Epidemiol 21(12) 930-945.

A Pedersen, **S Pettygrove**, FJ Meaney, K Mancilla, K Gotschall, DB Kessler, TA Grebe, C Cunniff. 2012. Prevalence of Autism Spectrum Disorders in Hispanic and Non-Hispanic White Children. Pediatrics 129 (3) e629-e635.

Abstracts and Presentations

Conferences

2009 Rice C, Baio J, Wiggins L, Morrier M, Hobson N, Nicholas J, Carpenter LA, Lee L-C, Pettygrove S for the Autism and Developmental Disabilities Monitoring (ADDM) Network. Trends in Diagnostic Testing for Autism Spectrum

Disorders in a Population-based Sample from Four Areas of the United States. International Meeting for Autism Research. Chicago, Illinois. May 7-9, 2009.

- 2007 Rice C, Pettygrove S, Becker-Cottrill, B. What's in a Number? Reports from the Autism and Developmental Disabilities Monitoring (ADDM) Network. The Autism Society of America 38th National Conference on Autism Spectrum Disorders. Phoenix, AZ. July 13, 2007.
- 2000 Pettygrove, S. Gastroschisis in Southern Arizona. Border Health: Information for Action II Conference. Rio Rico, AZ. January 28, 2000.
- 2000 Pettygrove, S; Lebowitz, M; O'Rourke, MK. Determinants of Indoor PM10 Concentrations in the National Human Exposure Assessment Survey (NHEXAS) in Arizona. International Society for Exposure Analysis Annual Conference. Monterey, CA. October 27, 2000.

Seminars

- 2002 Pettygrove, S. The Arizona Autism Spectrum Surveillance Program – the Genetics of Autism. Genetics Rounds, University of Arizona, Department of Pediatrics January 14, 2002.
- 2002 Pettygrove, S. The Arizona Autism Spectrum Surveillance Program – the Epidemiology of Autism. Epidemiology Seminar, University of Arizona, College of Public Health, January 17, 2002.

Invited Lecture

- 2010 Pettygrove, S. Autism Spectrum Disorders in Maricopa County - Data from the Arizona Autism and Developmental Disabilities Surveillance Program (ADDSP). The Directors' Institute: A Special Education Odyssey. Phoenix, Arizona, September 1, 2010.

Grants and Contracts

Current

- 2006-2010 Co-Principal Investigator, "Arizona Developmental Disabilities Surveillance Program," Funding Source: Centers for Disease Control and Prevention, Total Funds: \$1,520,000, Principal Investigators: Christopher Cunniff MD, Sydney Pettygrove, PhD, Effort: 30%.
- 2006-2011 Co-Investigator, "Arizona Muscular Dystrophy Surveillance and Research Program," Funding Source: Centers for Disease Control and Prevention, Total Funds: \$2,365,000, Principal Investigators: Christopher Cunniff MD, F. John Meaney Ph.D., Effort: 20%.
- 2008-2014 Location Lead Investigator, Maricopa County "The National Children's Study – Arizona," Funding Source: National Institute of Child Health and Human Development, Total Funds: \$44,763,001, Principal Investigator: Fernando Martinez MD, Effort: 10%
- 2009-2014 Co-Investigator, "Fetal Alcohol Syndrome Surveillance Network – Arizona," Funding Source: Centers for Disease Control and Prevention, Total Funds: \$1,000,000, Principal Investigator: Christopher Cunniff MD,

Effort: 5%.

2005-2010 Faculty Member. Decreasing MCH Disparities through Graduate Education. Funding Source: Maternal and Child Health Bureau, HRSA, Total Funds: \$1,879,000, Principal Investigator: Doug Taren Ph.D., Effort: 10%.

Past

1999 – 2001 Research Associate, "Interindividual Variation in Human susceptibility to Environmentally-Caused Disease in Arizona," Funding Source: U.S. Environmental Protection Agency, Total Funds: \$344,087, Principal Investigator: Michael Lebowitz, Ph.D., Effort: 50% (through 7/31/01), 25% (8/1/01 - 9/30/01)

1999 – 2000 Principal Investigator, "A Case-control Study of Gastroschisis in Southern Arizona," Funding Source: Southwest Environmental Health Sciences Center – Pilot Project Grant, Total Funds: \$15,000, Principal Investigator: Sydney Pettygrove, Ph.D., Effort: 20% (through 9/30/00).

2001-2006 Co-Investigator, "Arizona Autism Spectrum Surveillance Program," Funding Source: Centers for Disease Control and Prevention, Total Funds: \$1,770,440, Principal Investigators: Christopher Cunniff MD, F. John Meaney Ph.D., Effort: 40%.

2002-2006 Co-Investigator, "Arizona Muscular Dystrophy Surveillance and Research Program," Funding Source: Centers for Disease Control and Prevention, Total Funds: \$1,459,333, Principal Investigators: Christopher Cunniff MD, F. John Meaney Ph.D., Effort: 40%.

2008-2009 Co-Principal Investigator, "University Centers on Disabilities – University of Arizona," Funding Source: Northern Arizona University / Centers for Disease Control and Prevention, Total Funds: \$81,000, Principal Investigators: Sydney Pettygrove Ph.D., Sydney Rice MD, Effort: 20%.