

Ian W. Pray, PhD MPH

Epidemic Intelligence Service Officer (2019-21)
Centers for Disease Control and Prevention
Assignment:
Wisconsin Department of Health Services
Bureau of Environmental and Occupational Health

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I. Education

Degrees

Ph.D.	2019	Oregon Health and Science University, Portland, OR	Epidemiology
M.P.H.	2015	Oregon Health and Science University, Portland, OR	Env. Sys. & Hum. Hlth
B.A.	2009	Saint Olaf College, Northfield, MN	Biology, Env. Studies

Certifications

C.P.H. 2015 Certified in Public Health Practice, NBPHE

II. Profession, Volunteer, and Academic Experience

2015-2019	Graduate Research Assistant Funding: NIH-R01 – Ring Strategy for Cysticercosis Control in Peru Mentor: Seth O’Neal, MD School of Public Health, Oregon Health and Science University, Portland, OR
2015-2019	Graduate Teaching Assistant (1 quarter per year) Courses: Env Hlth, Inf Dis Epi, Biostat II, Epi Data Analysis School of Public Health, Oregon Health and Science University, Portland, OR
2017-2018	Fulbright Research Scholar in Peru U.S. Dept of State, Fulbright Scholars Program Center for Global Health, Univ.Peruana Cayetano Heredia, Tumbes, Peru
2013-2015	Research Analyst Oregon Integrated Food Safety Center of Excellence Oregon Public Health Division, Portland, OR
2013	Mental Health Technician Cedar Hills Hospital and Mental Health Treatment Center, Portland, OR
2010-2012	Peace Corps Volunteer (Mozambique) Assignments: High School Teacher (Eng, Biol, IT), HIV/AIDS Youth Proj Regional Coordinator, Eng Thtr Proj Regional Coordinator
2010	Biological Science Research Assistant USDA Forage Research Center, University of Wisconsin, Madison, WI

IV. Scholarship

Areas of research/scholarly interest

Epidemiology
Global Health
Infectious/zoonotic diseases
Geographic Information System (GIS)
Disease modeling (dynamic models, agent-based models)

Publications in peer-reviewed journals

EIS (CDC)

Ghinai[†] I, **Pray IW[†]**, Navon L, O’Laughlin K, Saathoff-Huber L, Hoots B, et al. E-cigarette product use, or vaping, among persons with associated lung injury - Illinois and Wisconsin, April-September 2019. *MMWR Morb Mortal Wkly Rep.* 2019;68:865–9. (†co-first-authors).

Perrine CG, Pickens CM, Boehmer TK, et al. **Pray IW**; Lung Injury Response Epidemiology/Surveillance Group. Characteristics of a multistate outbreak of lung injury associated with e-cigarette use or vaping—United States, 2019. *MMWR Morb Mortal Wkly Rep* 2019;68:860–4.

Layden JE, Ghinai I, **Pray I**, et al. Pulmonary illness related to e-cigarette use in Illinois and Wisconsin—preliminary report. *New Engl J Med* 2019. Epub September 6, 2019.

Oregon Health and Science University

Pray IW, Muro C, Gamboa R, Vilchez P, Wakeland W, Pan W, et al. Seasonal patterns in risk factors for *Taenia solium* transmission: a GPS tracking study of pigs and open human defecation in northern Peru. *Parasit Vectors.* 2019;12(352).

Beam M, Spencer AG, Atto R, Camizan R, Vilchez P, **Pray IW**, et al. To Really Know the Disease: Creating a Participatory Community Education Workshop about *Taenia solium* Focused on Physical, Economic, and Epidemiologic Evidence. *Am J Trop Med Hyg.* 2019;100(6):1490–3.

Lescano AG[†], **Pray IW[†]**, Gonzalez AE, Gilman RH, Tsang VCW, Gamboa R, et al. Clustering of necropsy-confirmed porcine cysticercosis surrounding *T. solium* tapeworm carriers in Peru. *Am J Trop Med Hyg.* 2019;100(2):314-22.(†co-first-authors).

Fernandez L, Gamboa R, Vilchez P, **Pray IW**, Beam M, Garvey B, et al. Evaluating urban taeniasis as a potential threat to cysticercosis elimination in northern Peru. *Am J Trop Med Hyg.* 2019;100(1):140-142.

Pray IW, Ayvar V, Gamboa R, Muro C, Moyano LM, Benavides V, et al. Spatial relationship between *Taenia solium* tapeworm carriers and necropsy cyst burden in pigs. *PLoS Negl Trop Dis.* 2017 Apr;11(4):e0005536.

Flecker RH, **Pray IW**, Santivañez SJ, Ayvar V, Gamboa R, Muro C, et al. Assessing Ultrasonography as a Diagnostic Tool for Porcine Cysticercosis. *PLoS Negl Trop Dis.* 2017;11(1):e0005282.

Pray IW, Swanson DJ, Ayvar V, Muro C, Moyano LM, Gonzalez AE, et al. GPS Tracking of Free-Ranging Pigs to Evaluate Ring Strategies for the Control of Cysticercosis/Taeniasis in Peru. *PLoS Negl Trop Dis.* 2016;10(4):e0004591.

Oral presentations (*indicates lead presenter)

- Pray IW**, Muro C, Gamboa R, Vilchez P, Wakeland W, Pan W, et al. Seasonal patterns in risk factors for *Taenia solium* transmission: a GPS tracking study of pigs and open human defecation in northern Peru. American Society of Tropical Medicine and Hygiene 68th Annual Meeting. Washington D.C., November 2019.
- Pray IW***, Wakeland W, Pan W, Lambert W, Gilman H, Gonzalez AE, Gavidia CM, Garcia HH, O'Neal SE. Introducing CystiAgent: an agent-based model to simulate *Taenia solium* transmission in Peru. American Society of Tropical Medicine and Hygiene 67th Annual Meeting. New Orleans, LA. October 2018.
- Flecker RH, **Pray IW***, Santivañez SJ, Ayvar V, Gamboa R, Muro C, et al. Assessing ultrasound as a diagnostic tool for porcine cysticercosis. American Society of Tropical Medicine and Hygiene 65th Annual Meeting. Atlanta, GA. November 2016.
- Booth H* and **Pray IW**. Thinking outside the 2x2 table: building software to aggregate background food exposure data for binomial probability calculations in outbreak investigations. Council of State and Territorial Epidemiologists Annual Conference. Boston, MA. June 2015 (unable to attend conference).

Poster presentations (*indicates lead presenter)

- Pray IW***, Gamboa R, Elizalde M, Gomez LA, Vilchez P, Muro C, Moyano LM, Gonzalez AE, Garcia HH, O'Neal SE. Detection of *Taenia* eggs in soil after mass anti-helminthic treatment: results from a community-wide soil sampling in northern Peru. American Society of Tropical Medicine and Hygiene 67th Annual Meeting. New Orleans, LA. Oct 2018.
- Pray IW***, Gamboa R, Vilchez P, Muro C, Moyano LM, Gonzalez AE, et al. Spatial and temporal variations in *Taenia solium* exposure among pigs in rural Peru. American Society of Tropical Medicine and Hygiene 66th Annual Meeting. Baltimore, MD. Nov 2017.
- Spencer AG*, Beam M, Atto R, Camizan R, Fernandez L, Garvey B, **Pray IW**, et al. Community engagement and health education to increase knowledge of the *T. solium* life cycle for village residents in northern Peru: baseline and preliminary results. American Society of Tropical Medicine and Hygiene 66th Annual Meeting. Baltimore, MD. Nov 2017.
- Beam M*, Atto R, Camizan R, Spencer AG, Fernandez L, Garvey B, **Pray IW**, et al. Socializing evidence to transform community barriers in cysticercosis prevention and surveillance in northern Peru. American Society of Tropical Medicine and Hygiene 66th Annual Meeting. Baltimore, MD. Nov 2017.
- Fernandez L*, Beam M, Atto R, Camizan R, Spencer AG, Garvey B, **Pray IW**, et al. Household participation in pig and human interventions for control of *T. solium* and likelihood of continued transmission a year later in northern Peru. American Society of Tropical Medicine and Hygiene 66th Annual Meeting. Baltimore, MD. Nov 2017.
- Pray IW***, Gamboa R, Vilchez P, Muro C, Moyano LM, Gonzalez AE, et al. Spatial and temporal variations in *Taenia solium* exposure among pigs in rural Peru. Oregon Health and Science University Research Week. Portland, OR. May 2017.

- Pray IW***, Gamboa R, Vilchez P, Muro C, Moyano LM, Gonzalez AE, et al. Spatial and temporal variations in *Taenia solium* exposure among pigs in rural Peru. School of Public Health Student Poster Showcase, Oregon Health and Science University. Portland, OR. Apr 2017.
- Pray IW***, Ayvar V, Gamboa R, Muro C, Moyano LM, Benavides V, et al. Spatial relationship between *T. solium* tapeworm carriers and necropsy cyst burden in pig. American Society of Tropical Medicine and Hygiene 65th Annual Meeting. Atlanta, GA. November 2016.
- Pray IW***, Swanson DJ, Ayvar V, Muro C, Moyano LM, Gonzalez AE, et al. GPS tracking of free-ranging pigs to evaluate ring strategies for the control of cysticercosis/taeniasis in Peru. Latin American Society of Tropical Medicine and Hygiene Annual Meeting. Lima, Peru. March 2016.
- Pray IW***, Swanson DJ, Ayvar V, Muro C, Moyano LM, Gonzalez AE, et al. GPS tracking of free-ranging pigs to evaluate ring strategies for the control of cysticercosis/taeniasis in Peru. American Society of Tropical Medicine and Hygiene 64th Annual Meeting. Philadelphia, PA. October 2015.
- Booth H*, **Pray IW**, and Zhang A. Aggregating interview data to estimate food and animal exposures of cases of *Salmonella* and STEC infections in Oregon: 2007-2015. Council of State and Territorial Epidemiologists Annual Conference. Boston, MA. June 2015 (unable to attend conference).

V. Service

Professional Societies

2015-present American Society of Tropical Medicine and Hygiene

Peer reviewer

2018-present PLoS Neglected Tropical Diseases
 2015-present Journal of Emerging Infectious Diseases
 2015-present Infectious Diseases of Poverty

OHSU Committees

2017 School of Public Health Liaison, OHSU Research Week Planning Committee

VI. Grants and Awards

2017-2018 Fulbright Research Scholarship to conduct doctoral research in Peru
 Fulbright U.S. Scholars Program

2017 Full scholarship to attend summer courses in infectious disease modeling
 University of Washington, Seattle

2017 Best graduate-student poster
 OHSU-PSU School of Public Health Poster Showcase

2016 Travel scholarship to present poster at academic conference
 Marie Brown Travel Award, Portland State University

2016 Travel scholarship to carry out 4-week international elective in Peru
 OHSU Global Overseas Elective Scholarship

2015 Travel scholarship to carry out MPH Field Experience in Peru
 OHSU-PSU School of Public Health

2005-2009	St. Olaf College Regent's Presidential Scholarship
2006-2009	St. Olaf College Dean's List
2006-2009	Minnesota Intercol. Athletic Conference, Academic All-Conference (Tennis)
2006-2009	Minnesota Intercol. Athletic Conference, 1 st Team All-Conference (Tennis)