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Philip Pape, M.P.H

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Professional Profile

Mr. Philip Pape is an environmental health scientist who specializes in human health risk assessment, environmental exposure assessment, industrial hygiene, and environmental epidemiology. His master's thesis focused on assessing links between climate change-induced extreme heat events, heat-related illness, and disproportional impacts experienced by low-SES communities in Milwaukee, Wisconsin. He has extensive experience with conducting chemical and physical agent exposure assessments; systematic literature reviews; qualitative and quantitative analysis; data visualization using ArcGIS Pro and online software; and has a medical background that includes working in primary care clinic settings.

Mr. Pape received his M.P.H. in Environmental Health Sciences from the University of Wisconsin-Milwaukee Zilber School of Public Health. He received his B.S. in Psychology from the University of Wisconsin-Madison and was heavily involved with mental health outreach initiatives that include the Green Bandana Project, a national mental health awareness campaign that has been deployed at over 40 different college campuses.

Academic Credentials & Professional Honors

M.P.H., Public Health, University of Wisconsin, Milwaukee, 2021

B.S., Psychology, University of Wisconsin, Madison, 2019

Prior Experience

COVID-19 Team Lead Supervisor, City of Milwaukee Health Department, May-October 2021

COVID-19 Case Manager, City of Milwaukee Health Department, 2020-2021

Primary Care Medical Assistant, 2017-2019

Publications

Presentations

Pape, P. Healthcare systems environmental impacts and master's thesis discussion. Guest lecture, University of Nevada, 2021.

Pape, P. Exploring how healthcare systems contribute to climate change and downstream environmental impacts. Guest lecture, University of Wisconsin-Madison, 2019.

Bass, C., Pape, P. Green Bandana Project presentation and evaluation of implemented mental health awareness campaigns on the University of Wisconsin-Madison campus. Slideshow presentation, Wisconsin National Alliance on Mental Illness statewide conference, 2018.

Project Experience

Performed a literature review of historical extreme heat events and what heat-induced illnesses were caused by specific historical events. Data from the literature included analyzing mortality and heat-induced illness incidence data, mean land surface temperature data, predicted excess heat morbidity, and meteorological and built environments factors were evaluated.

Performed a spatial analysis using ArcGIS Pro to create a data-driven map of Milwaukee County depicting the population rates of individuals affected by heat exhaustion or heat stroke.

Conducted detailed interviews with six Milwaukee County community leaders via teleconferencing software to illuminate barriers connected to specific solutions and to better understand heat illness trends in the County.

Worked as a contact tracer, case manager, and supervisor for COVID-19 response with the City of Milwaukee Health Department. Supervised 12 case managers as a supervisor with weekly check-ins that included answering questions and providing constructive feedback on client charting and documentation.

Worked as a primary care medical assistant for the University of Wisconsin-Madison University Health Services clinic. Duties included medical background/history intake, chief complaint charting, and performing vitals that include temperature and blood pressure. Specific tasks instructed by the provider performed included eye exam, spirometry, crutch fitting, and ACE wrapping.

Performed surface wipe sampling for carbamazepine exposure to healthcare workers in pharmacy, nursing, and waste removal areas in a short-term healthcare facility. Surface swipe composite samples were taken on eight different surfaces throughout the facility to assess exposures.

Conducted risk characterization, exposure pathway analyses, and health risk assessment for all non-antineoplastic drugs used in a short-term healthcare facility.

Created a Qualtrics survey assessing healthcare worker’s perception of exposure and harm during preparation, handling, and administration of non-antineoplastic drugs

Conducted a health risk assessment of trichlorethylene exposure utilizing retrospective exposure data and vapor intrusion principles.

Performed a meta-analysis evaluating the potential risk of graphene nanomaterials on living organisms.

Analyzed lithium exposures among communities proximate to mining pipelines and brines.