

"Enhancing Interprofessional Collaboration and Learning for Strengthening Primary Health Care"

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Title	INITIATING "HEALTHY BATIK VILLAGE"/ "DESA BATIK SEHAT" TO EMPOWER BATIK WORKERS THROUGH COLLABORATIVE HEALTH, ENVIRONMENTAL AND SOCIAL INTERVENTIONS
Type	Oral Presentation <i>High-Quality Learning and Collaborations in the Health Workforce</i>
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Abstract N ^o	TUFH549
Content	<p>The industrialization of the batik industry has been a solution to the higher demand for batik production. While it is necessary for economic growth, it poses harmful effects to the environment and workers particularly with the use of synthetic dye. This study aimed to address the health and environmental problems among batik workers and their workplaces. Literature studies, observational studies, and interviews were carried out to identify the health and environmental problem in batik production. Based on this result, we formed an intersectoral team that involved experts in chemistry, environmental health, toxicology, dermatology, neurology, public health, and human ecology. In this study, chemical and physical hazards have been identified, followed by environmental, health, and social interventions. The health and environmental issues found were carpal tunnel syndrome, contact dermatitis, significant differences in renal and liver function of batik workers and control group, low wastewater quality, and heavy metal exposure in the workplace. It can be seen that several heavy metal elements, such as Sulphur, Potassium, Titanium, Chromium, Manganese, Iron, Nickel, Zinc, and Lead were detected in the air of batik workers' workspace. PM 2.5 concentrations were also higher than WHO air quality guidelines. Besides that, chemical parameters of batik wastewater were found above the standard value of batik wastewater according to the national standard. Health and environmental issues in the batik workplace are complex. Intersectoral collaboration, improvements in workers' well-being, effective wastewater management, and ideal management strategy is needed to maintain the sustainability of a "Healthy Batik Village".</p>