

## Columbia - Sinai - KHRC collaborative publications through Spring 2022

### GRAPHS RCT

Jack, D. W., Ayuurebobi, K., Gould, C. F., Boamah-Kaali, E., Lee, A. G., Mujtaba, M. N., ... & Asante, K. P. (2021). A cluster randomised trial of cookstove interventions to improve infant health in Ghana. *BMJ global health*, 6(8), e005599.

Quinn, A. K., Adjei, I. A., Ayuurebobi, K., Agyei, O., Boamah-Kaali, E. A., Burkart, K., ... & Asante, K. P. (2021). Prenatal household air pollutant exposure is associated with reduced size and gestational age at birth among a cohort of Ghanaian infants. *Environment international*, 155, 106659.

Kinney, P. L., Asante, K. P., Lee, A. G., Burkart, K., Boamah-Kaali, E., Twumasi, M., ... & Owusu-Agyei, S. (2021). Prenatal and postnatal household air pollution exposures and pneumonia risk: evidence from the Ghana Randomized Air Pollution and Health Study. *Chest*, 160(5), 1634-1644.

Chillrud, S. N., Ae-Ngibise, K. A., Gould, C. F., Owusu-Agyei, S., Mujtaba, M., Manu, G., ... & Asante, K. P. (2021). The effect of clean cooking interventions on mother and child personal exposure to air pollution: results from the Ghana Randomized Air Pollution and Health Study (GRAPHS). *Journal of exposure science & environmental epidemiology*, 31(4), 683-698.

Dubowski, K., Kaali, S., Jack, D., Prah, R. K. D., Clemente, J. C., Tawiah, T., ... & Asante, K. P. (2021). Infant Nasopharyngeal Microbiota Subphenotypes and Early Childhood Lung Function: Evidence from a Rural Ghanaian Pregnancy Cohort. *International journal of environmental research and public health*, 18(14), 7276.

Carrión, D., Kaali, S., Kinney, P. L., Owusu-Agyei, S., Chillrud, S., Yawson, A. K., ... & Asante, K. P. (2019). Examining the relationship between household air pollution and infant microbial nasal carriage in a Ghanaian cohort. *Environment international*, 133, 105150.

Lee, A. G., Kaali, S., Quinn, A., Delimini, R., Burkart, K., Opoku-Mensah, J., ... & Asante, K. P. (2019). Prenatal household air pollution is associated with impaired infant lung function with sex-specific effects. Evidence from GRAPHS, a cluster randomized cookstove intervention trial. *American journal of respiratory and critical care medicine*, 199(6), 738-746.

Kaali, S., Jack, D. W., Delimini, R., Hu, L., Burkart, K., Opoku-Mensah, J., ... & Lee, A. G. (2019). Prenatal household air pollution alters cord blood mononuclear cell mitochondrial DNA copy number: sex-specific associations. *International journal of environmental research and public health*, 16(1), 26.

Quinn, A. K., Ae-Ngibise, K. A., Kinney, P. L., Kaali, S., Wylie, B. J., Boamah, E., ... & Asante, K. P. (2017). Ambulatory monitoring demonstrates an acute association between cookstove-related carbon monoxide and blood pressure in a Ghanaian cohort. *Environmental Health*, 16(1), 1-14.

Quinn, A. K., Ayuurebobi, K., Jack, D. W., Boamah, E. A., Enuameh, Y., Mujtaba, M. N., ... & Asante, K. P. (2016). Association of Carbon Monoxide exposure with blood pressure among pregnant women in rural Ghana: evidence from GRAPHS. *International journal of hygiene and environmental health*, 219(2), 176-183.

Jack, D. W., Asante, K. P., Wylie, B. J., Chillrud, S. N., Whyatt, R. M., Ae-Ngibise, K. A., ... & Owusu-Agyei, S. (2015). Ghana randomized air pollution and health study (GRAPHS): study protocol for a randomized controlled trial. *Trials*, *16*(1), 1-10.

Van Vliet, E. D., Asante, K., Jack, D. W., Kinney, P. L., Whyatt, R. M., Chillrud, S. N., ... & Owusu-Agyei, S. (2013). Personal exposures to fine particulate matter and black carbon in households cooking with biomass fuels in rural Ghana. *Environmental research*, *127*, 40-48.

### **Longitudinal surveillance of the GRAPHS cohort**

Daouda, M., Mujtaba, M.N., Yang, Q., Seyram, K., Lee, A.G., Tawiah, T., Ae-Ngibise, K.A., Chillrud, S.N., Jack, D. and Asante, K.P., 2022. Prediction of personal exposure to PM<sub>2.5</sub> in mother-child pairs in rural Ghana. *Journal of Exposure Science & Environmental Epidemiology*, pp.1-8.

Kundel, V., Agyapong, P. D., Parekh, A., Kaali, S., Prah, R. K. D., Taweeseedt, P., ... & Asante, K. P. (2022). Characterizing sleep-wake patterns in mothers and children in an agrarian community: results from the Ghana Randomized Air Pollution and Health Study. *Sleep*.

Boamah-Kaali, E., Jack, D. W., Ae-Ngibise, K. A., Quinn, A., Kaali, S., Dubowski, K., ... & Lee, A. G. (2021). Prenatal and Postnatal Household Air Pollution Exposure and Infant Growth Trajectories: Evidence from a Rural Ghanaian Pregnancy Cohort. *Environmental health perspectives*, *129*(11), 117009.

Kaali, S., Jack, D., Opoku-Mensah, J., Bloomquist, T., Aanaro, J., Quinn, A., ... & Lee, A. (2021). Prenatal household air pollution exposure, cord blood mononuclear cell telomere length and age four blood pressure: evidence from a Ghanaian pregnancy cohort. *Toxics*, *9*(7), 169.

### **Clean energy transitions**

Carrión, D., Prah, R., Tawiah, T., Agyei, O., Twumasi, M., Mujtaba, M., ... & Asante, K. P. (2021). Enhancing LPG Adoption in Ghana (ELAG): A trial testing policy-relevant interventions to increase sustained use of clean fuels. *Sustainability*, *13*(4), 2213.

Prah, R. K. D., Carrion, D., Oppong, F. B., Tawiah, T., Mujtaba, M. N., Gyaase, S., ... & Jack, D. W. (2021). Time Use Implication of Clean Cookstoves in Rural Settings in Ghana. *International Journal of Environmental Research and Public Health*, *18*(1), 166.

Carrión, D., Prah, R., Gould, C. F., Agbokey, F., Mujtaba, M., Pillarisetti, A., ... & Asante, K. P. (2020). Using longitudinal survey and sensor data to understand the social and ecological determinants of clean fuels use and discontinuance in rural Ghana. *Environmental research communications*, *2*(9), 095003.

Agbokey, F., Dwommoh, R., Tawiah, T., Ae-Ngibise, K. A., Mujtaba, M. N., Carrion, D., ... & Jack, D. W. (2019). Determining the enablers and barriers for the adoption of clean cookstoves in the middle Belt of Ghana—A qualitative study. *International journal of environmental research and public health*, *16*(7), 1207.

Abdulai, M. A., Afari-Asiedu, S., Carrion, D., Ae-Ngibise, K. A., Gyaase, S., Mohammed, M., ... & Jack, D. (2018). Experiences with the mass distribution of LPG stoves in rural communities of Ghana. *EcoHealth*, *15*(4), 757-767.

Carrión, D., Dwommoh, R., Tawiah, T., Agyei, O., Agbokey, F., Twumasi, M., Mujtaba, M., Jack, D. and Asante, K.P., 2018. Enhancing LPG adoption in Ghana (ELAG): a factorial cluster-randomized controlled trial to Enhance LPG Adoption & Sustained use. *BMC Public Health*, 18(1), pp.1-11.

Asante, K.P., Afari-Asiedu, S., Abdulai, M.A., Dalaba, M.A., Carrión, D., Dickinson, K.L., Abeka, A.N., Sarpong, K. and Jack, D.W., 2018. Ghana's rural liquefied petroleum gas program scale up: A case study. *Energy for Sustainable Development*, 46, pp.94-102.