

Publications – Innovate project (completed project of the Geomatics Lab at the Humboldt-Universität zu Berlin)

Peer-reviewed papers

Brinkel, J, MMH Khan, Alexander Kraemer. A systematic review of arsenic exposure and its social and mental health effects with special reference to Bangladesh. *International Journal of Environmental Research and Public Health* 2009; 6: 1609-1621.

Burkart K., Khan M.H., Krämer A., Schneider A., Breitner S., Endlicher, W. (2013): An analysis of heat effects in different subpopulations of Bangladesh. *International Journal of Biometeorology*, online first. doi 10.1007/s00484-013-0668-5.

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Burkart K., Khan M.H., Krämer A., Breitner S., Schneider A., Endlicher W. (2011): Seasonal variations of all-cause and cause-specific mortality by age, gender, and socio-economic condition in urban and rural areas of Bangladesh. *International Journal for Equity in Health*, 10-32.

Burkart K., Endlicher W. (2009): Assessing the Atmospheric Impact on Public Health in the Megacity of Dhaka, Bangladesh. *Die Erde* 140 (1): 93-109.

Burkart K., Gruebner O., Khan M.H., and Staffeld R. (2008): Megacity Dhaka Informal Settlements, Urban Environment and Public Health. *Geographische Rundschau*, 4-10.

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Islam M., Morshed Alam, M. Tariqzaman, M. A. Kabir, R. Pervin, Munni Begum, MMH Khan. Predictors of the number of under-five malnourished children in Bangladesh: application of the Generalized Poisson Regression Model. *BMC Public Health* 2013; 13:11.

Kabir MA, SM Mostafa Kamal, Kim Leng Goh, MMH Khan. Tobacco smoking and its association with illicit drug use among young men of 15-24 years living in urban slums of Bangladesh. *PLoS ONE* 2013 (in press).

- Kabir MA, Kim Leng Goh, MMH Khan. A cross-country comparison of tobacco consumption among youths from selected South-Asian countries. *BMC Public Health* 2013, 13:379
- Kabir MA, Kim Leng Goh, MMH Khan. Adolescent tobacco use and its determinants: evidence from Global Youth Tobacco Survey, Bangladesh 2007. *Asia-Pacific Journal of Public Health* 2013.
- Kabir MA, K-L Goh, MN Azam, MMH Khan. Tobacco consumption and illegal drug use among Bangladeshi males: Association and determinants. *American Journal of Men's Health*, 2012 (in press).
- Kabir MA, K-L Goh, MMH Khan, AQ Al-Amin, MN Azam. Safe-delivery practices: Experience from cross-sectional data of Bangladeshi women. *Asian-Pacific Journal of Public Health*, 2012 (DOI: 10.1177/1010539512437401).
- Khan, M. M. H., Gruebner, O., & Kraemer, A. (2014). The Geography of Diabetes among the General Adults Aged 35 Years and Older in Bangladesh: Recent Evidence from a Cross-Sectional Survey. *PloS One*, 9(10), e110756. doi:10.1371/journal.pone.0110756
- Khan MMH, Arina Zanuzdana, Katrin Burkart, Alexander Krämer. Determinants of diarrhoea in urban slums of Dhaka and adjacent rural areas: a household level analysis. *Population, Space and Place* 2013 (in press)
- Khan MMH, Oliver Gruebner and Alexander Krämer. Is area affected by flood/stagnant water associated with poorer health outcomes in urban slums of Dhaka and adjacent rural areas? *Natural Hazards* 2013 (in press).
- Khan MMH, Arina Zanuzdana, Alexander Krämer. Levels, trends and disparities of public health-related indicators among reproductive aged women in Bangladesh by urban-rural and richest-poorest groups, 1993-2011. *PLoS ONE* 2013 (in press).
- Khan MMH, Alexander Krämer. Are rural-urban migrants living in slums more vulnerable in terms of housing, health knowledge, smoking, mental and general health? *International Journal of Social Welfare* 2013 (in press).
- Khan MMH, O Grübner, A Krämer. Utilisation and satisfaction of major healthcare services among slum dwellers: a cross-sectional case study in the megacity of Dhaka. *Internationales Asienforum* 2012; 43(1-2):61-79.
- Khan MMH, O Grübner, A Krämer. Frequently used healthcare services in urban slums of Dhaka and adjacent rural areas and their determinants. *Journal of Public Health*, 2012 34(2):261-71.
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Khan MMH, Khandoker Aklimunnessa, M Kabir, Mitsuru Mori. Determinants of drinking arsenic contaminated tubewell water in Bangladesh: evidence from a recent national survey. *Health Policy and Planning* 2007; 22: 22:335-343.

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Khandoker Aklimunnessa, MMH Khan, Manas Akmatov, Alexander Kraemer, Mitsuru Mori. TV watching among men and its association with awareness on public health issues, Bangladesh. *The Journal of Family Welfare* 2009; 55(1): 52-61.

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Zanuzdana Arina, MMH Khan, A Krämer. Housing satisfaction is related to health and importance of services in urban slum areas: Evidence from Dhaka, Bangladesh. *Social Indicators Research* 2012; 112: 163-185.

Book chapters

Bruns, A., Blackburn, S., Perez Bolde, C.C., Burkart, K., Francis, R., Kraft, D., Li, Y., Lu, Q., Olaniyi, A., Zhou, X. (2013): Environmental impacts of megacities on the coast. In: Pelling, M. & S. Blackburn, *Urbanisation and the Coast*. IGBP Synthesis Report. Routledge, Earthscan.

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Khan MMH, Tanja Wörmann. Klimawandel, Überschwemmungen, Gesundheitskonsequenzen und Bewältigungsstrategien: Der Fall Bangladesch (englischer Titel: Climate change, flooding, health consequences and strategies: Focus on Bangladesh). In: HJ Jahn, A Krämer, T Wörmann eds. *Klimawandel und Gesundheit: Internationale, nationale und regionale Herausforderungen und Antworten*. Springer Spektrum Verlag, Berlin, Heidelberg.

Khan MMH. Drinking water and solid waste in Dhaka: What are their major sources and how satisfied are slum dwellers with their management? In: J Schneider, I Kasperek, and A Knab, eds. *Future Megacities in Balance*. German Academic Exchange Service, Bonn, Germany, Band 66, pp. 105-111, 2011.

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Burkart, K., Meier, F., Scherer, D., Endlicher, W (2012): Using NDVI for estimating the influence and mitigation effect of urban green on heat-related excess mortality in Lisbon, Portugal IGC COLOGNE 2012 - 32nd International Geographical Congress, Cologne 2012, 26 - 30 August 2012.

Burkart K, Endlicher W (2011): The effect of temperature and thermal atmospheric conditions on mortality in Bangladesh. Presented at the 19th International Congress on Biometeorology, 4th to 8th December, 2011, Auckland, New Zealand.

Burkart K, Endlicher W (2011): Bioclimate and Health in urban and rural areas of Bangladesh. Presented at the Portuguese-German Workshop on "Climate and Health - Impacts, Vulnerability and Adaptation", organised by the University of Lisbon and the Humboldt-Universität zu Berlin, September 30th, 2011, Lisbon.

Burkart K, Endlicher W (2010): Investigating the effect of temperature and thermal conditions on all-cause and cardiovascular mortality in Bangladesh using generalized additive models (GAMs) Presented at the 29th annual meeting of the Arbeitskreis Klima der Deutschen Gesellschaft für Geographie, October 29th to 31st, 2010, Würzburg.

Burkart K, Endlicher W (2010): The effect of atmospheric thermal conditions and urban thermal pollution on all-cause and cardiovascular mortality in Bangladesh. Presented at the BMBF's Young Researchers' Symposium "Future Megacities in Balance", jointly organised by the German Academic Exchange Service (DAAD) and the University Duisburg-Essen, October 9th to 10th, 2010, Essen.

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Burkart K, Endlicher W (2009): Seasonality of disease in urban poor population groups. Presented at the Workshop on "Megacities-Megachallenge. Informal Dynamics of Global Change" organised by the Priority Programme 1233 "Megacities-Megachallenge. Informal Dynamics of Global Change", February 25th to 26th, 2009, Dhaka.

Burkart K, Endlicher W (2008): Conceptual Framework for Assessing the Public Health Implications of Climate Change and Air Pollution in the Megacity of Dhaka, Bangladesh. Presented at the 7th International NCCR Climate Summer School. "Key challenges in climate variability and change", August 31st to September 5th, 2008, Monte Verità, Switzerland.

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AM Grosser, L Spallek, T Pollmann, A Krämer, MMH Khan. Contraceptive use in rural and urban areas in Bangladesh, India and Pakistan. An analysis of the Demographic and Health Surveys. The Annual Meeting of German Epidemiological Association, 26-29 September, 2012, Regensburg, Germany (Poster), p. 169.

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Gruebner, O., Khan, M., Lautenbach, S., Mueller, D., Krämer, A., Tobia Lakes, & Patrick Hostert (2012). Mental health in the slums of Dhaka – a geo-epidemiological study. In, Oral presentation at the pre-conference to the 32nd International Geographical Conference in Cologne 2012: The Geography of Health: The Challenges of Environmental and Societal Issues in the 21st Century. Berlin, Germany

Gruebner, O. (2010). INNOVATE: Informal settlements, economic and environmental change, and public health - Strategies to improve the quality of life in Dhaka. In: Oral presentation at the annual scientific colloquium for the priority programme 1233 of the German Research Foundation (DFG). Berlin, Germany

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Gruebner, O., Khan, MMH., Kraemer, A., Hostert, P. (2009). Neighbourhood Conditions, Environmental and Socio-Economic Factors Explaining Health Outcomes in Informal Settlements of Dhaka, Bangladesh. In: Life and Survival in a Megacity. The Role of Informal Arrangements in Everyday Life and Economic Organisation. Case Studies from Dhaka, Bangladesh. Symposium im Rahmen der Asien-Pazifik-Wochen Berlin 2009 im Roten Rathaus. Berlin, Germany

Gruebner, O., Lakes, T., Kraemer, A., Khan, MMH., Hostert, P. (2009). Neighbourhood conditions, environmental and socio-economic factors explain health in informal settlements of Dhaka, Bangladesh. In: 7th International Science Conference on the Human Dimensions of Global Environmental Change (IHDP). Bonn, Germany

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MMH Khan, O Gruebner, Patrick Hostert, A Krämer. The geography of diabetes among general adult population in Bangladesh: Recent evidence from a cross-sectional survey. Oral presentation at the XVth International Medical Geography Symposium held in Michigan State University, USA, July 7-12, 2013.

MMH Khan, O Gruebner, Patrick Hostert, A Krämer. Food insecurity and its association with malnutrition and anaemia in Bangladesh: Geographical disparities across divisions, rural and urban areas. Oral presentation at the XVth International Medical Geography Symposium held in Michigan State University, USA, July 7-12, 2013.

MMH Khan, Alexander Krämer. Internal migration in Bangladesh: are rural-urban migrants living in urban slums more vulnerable as compared to other areas? Oral presentation at the final regional conference of the priority programme 1233 of the German Research Foundation (DFG) Megacities-Megachallenge in Dhaka 2012, November 26-28, Dhaka, Bangladesh.

MMH Khan, A Zanuzdana, A Krämer. Education as an important factor to reduce slum versus non-slum disparities in Bangladesh: analyses of women data focusing on multiple indicators. The Annual Meeting of German Epidemiological Association, 26-29 September, 2012, Regensburg, Germany (oral), p. 64.

MMH Khan, A Krämer. Housing, health problems, health care utilisation and food consumption by migration status in Bangladesh: Comparative analysis of combined data based on three consecutive surveys. The Annual Meeting of German Epidemiological Association, 26-29 September, 2012, Regensburg, Germany (poster), p. 169.

MMH Khan, Oliver Grübner, Alexander Krämer. Are areas affected by flood and stagnant water associated with poorer health outcomes in urban slums of Dhaka and adjacent rural areas? 32nd International Geographical Congress, August 26-30, Cologne, Germany (oral), pp. 718.

MMH Khan, Arina Zanuzdana, Alexander Krämer. What determines the level of housing satisfaction in urban slums of Dhaka? Results from the baseline survey of a cohort study in Bangladesh. 32nd International Geographical Congress, August 26-30, Cologne, Germany (oral), pp. 773.

MMH Khan, Arina Zanuzdana, Alexander Krämer. Seasonal variations, urban-rural differences and major determinants of respiratory health symptoms among urban poor in Dhaka. 32nd International Geographical Congress, August 26-30, Cologne, Germany, (poster), pp. 933.

MMH Khan. Public health in Bangladesh in context of climate change: challenges and strategies. 2nd International conference on climate change effects and energy development of Bangladesh (ICCEB), May 18-19, 2012, Bonn University, Bonn, Germany (oral), pp. 24.

MMH Khan, Alexander Krämer, Oliver Grübner, Patrick Hostert. Environmental and health condition of slum residents living in Dhaka: a descriptive study. The European Conference on Modern South Asian Studies under panel Megacities in South Asia as Arenas of Risks and Resilience, July 26-29, 2010, University of Bonn, Germany (oral).

MMH Khan, Alexander Krämer, Oliver Grübner and Patrick Hostert. Utilisation of and satisfaction about major health care facilities among urban poor living in Dhaka. The European Conference on Modern South Asian Studies under panel Human Health in Urban and Peri-Urban South Asia, July 26-29, 2010, University of Bonn, Germany (oral)

MMH Khan, Arina Zanuzdana, Khandoker Aklimunnessa, A Krämer. Changes in socio-demographic and health-related indicators among ever married women of reproductive age in Bangladesh: focus on urban versus rural disparities. The 3rd European Public Health Conference, November 10-13, 2010, Amsterdam, Netherlands (oral).

MMH Khan, Aklimunnessa Khandoker. Are gaps in antenatal care services increasing in urban areas of Bangladesh? The 9th International Conference on Urban Health, October 27-29, 2010, New York, USA (oral).

MMH Khan, Alexander Kraemer, Anwar Islam. Trends and determinants of increasing prevalence of overweight among married women in urban areas of Bangladesh: evidence from multiple nationally representative surveys. The 9th International Conference on Urban Health, October 27-29, 2010, New York, USA (poster).

MMH Khan, A Krämer. Environmental health knowledge, healthy lifestyles and better environmental living conditions among slum people in Dhaka. The Annual Meeting of German Epidemiological Association, 21-25 September, 2010, Berlin, Germany (poster). Gesundheitswesen, 72: 622-623.

MMH Khan, Khandoker Aklimunnessa, A Krämer, Mitsuru Mori. Levels, trends, and disparities of demographic and health indicators by poorest versus richest groups of population in Bangladesh. The Annual Meeting of German Epidemiological Association, 21-25 September, 2010, Berlin, Germany (poster). Gesundheitswesen, 72: 638.

MMH Khan, Ronny Staffeld, Alexander Krämer and Elmar Kulke. Degree of informality and health outcomes: evidence from the slum adults living in the megacity of Dhaka, Bangladesh. Local workshop, Dhaka, BUET, February 23-24, 2010.

MMH Khan, O Gruebner, T Lakes, A Kraemer, P Hostert. Surrounding environment and health outcomes: preliminary findings of a study conducted in marginal settlements in the megacity of Dhaka and in rural areas of Bangladesh. The Annual Meeting of German Epidemiological Association, 16-19 September, 2009, Münster, Germany (oral).

MMH Khan, A Khandoker, A Kraemer, Mitsuru Mori. Higher depressive symptoms among arsenicosis patients: evidence from a case-control study conducted in an arsenic-affected rural village of Bangladesh. The 12th World Congress on Public Health, April 27- May 1, 2009, Istanbul, Turkey.

MMH Khan, Oliver Gruebner, Alexander Krämer. Satisfaction about neighbourhood conditions in relation to well-being status among married adults living in Dhaka megacity and its adjacent rural area: results from a cross-sectional study. The 12th World Congress on Public Health, April 27- May 1, 2009, Istanbul, Turkey (poster).

MMH Khan, A Kraemer, L Pruefer-Kraemer. Climate change and infectious diseases in megacities of the Indian subcontinent. The Satellite Conference on Health in Megacities and Urban areas, September 23-24, 2008 Bielefeld, Germany.

MMH Khan, R Mikolaiczuk, M Akmatov, O Gruebner, J Lojewski, A Krämer. Health outcomes and socio-demographic and environmental factors relating to social inequalities in the megacity of Dhaka and adjacent rural areas in Bangladesh. The Health Inequalities III conference, 13-14 June, 2008, Bielefeld, Germany.

MMH Khan, Alexander Krämer, Manas Akmatov. Men's depressive symptoms and migration: the case of Bangladesh. The 2nd Conference of Migrant Health in Europe, 22-24 May 2008, Malmö, Sweden.

MMH Khan, Alexander Krämer, Russell Kabir, M Kabir. Relationship between depression and spousal violence against women in the megacity of Dhaka: slum and non-slum comparison. The 9th South East Asia Regional Scientific Meeting organized by the International Epidemiological Association, 9-12 February 2008, Dhaka, Bangladesh.

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A Khandoker, MMH Khan, A Krämer, Mitsuru Mori. Social consequences of arsenicosis and mental health of arsenicosis patients: evidence from an arsenic-affected area of Bangladesh. The Annual Meeting of German Epidemiological Association, 21-25 September, 2010, Berlin, Germany (poster). *Gesundheitswesen*, 72: 629.

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