

Editorial Article

Mathews Journal of Pediatrics

Exposure of Pediatric Population to Global WASH-Borne Hazards

Sayed Mohammad Nazim Uddin¹

¹Department of Science, University of Victoria, Canada.

Corresponding Author: Sayed Mohammad Nazim Uddin, Department of Science, University of Victoria, Canada,

Tel: -250-721-7211; Email: nazimiwfmbuet@gmail.com

Received Date: 20 Dec 2016

Accepted Date: 20 Dec 2016

Published Date: 23 Dec 2016

INTRODUCTION

Global pediatric population, particularly children under five years of age, are highly vulnerable to water, sanitation, and hygiene (WASH)-borne hazards and diseases such as diarrhea, dysentery, hepatitis, schistosomiasis, infant botulism, stunting, and other neglected tropical diseases (see for example, Baker et al., 2016, Fuller et al., 2016; Kobayashi, et al., 2014; Uddin et al., 2014; Boisson et al., 2016; Uddin et al., 2012. In 2013, 0.578 million children (<5 years) died due to the diarrheal disease that is the second leading cause of child-death around the world (Liu et al., 2015). It has been noted that young children, particularly in the Global South, are highly exposed to unplanned and unsafe disposal of human feces including child-feces (Isunju et al., 2011; George et al., 2016). A recent study conducted by Freeman et al. (2016) revealed that 'safe' disposal of child feces is practiced by only 1.1% of households by using burial/disposal to toilets.

Meeting the Sustainable Development Goals by 2030 in water, sanitation, and health and to reduce the exposure of millions of world's pediatric population, global WASH-borne hazards need to be addressed and reduced comprehensively to ensure the child-health protection. Despite many initiatives, millions are still dying, affecting diseases and caused disabilities, due to various WASH-borne hazards around the world, particularly in the Global South. Local grass-root level approaches, which are child-friendly, can be re-invented to identify the key problems and to implement appropriate solutions.

This issue cannot be solved overnight. Scientific communities, policy makers and other related stakeholders are suggested to give much attention into this issue for solving the problems, saving our planet and to reduce the WASH-borne deaths of millions of our children around the world. Political willingness, good governance, corporate social responsibilities, and socio-cultural interests to improve the situation are required in many parts of the low- and middle-income regions to make the world better place for our pediatric population.

REFERENCES

1. Baker KK, O'Reilly CE, Levine MM, Kotloff KL, et al. (2016). Sanitation and hygiene-specific risk factors for moderate-to-severe diarrhea in young children in the global entericmulticenter study, 2007-2011: case-control study. PLOS Medicine, 13(5), e1002010.

Copyright © 2016 Uddin SMN

Citation: Uddin SMN. (2016). Exposure of Pediatric Population to Global WASH-Borne Hazards. M J Pedi. 1(1): 005.

2. Boisson S, Engels D, Gordon BA, Solomon AW, et al. (2016). Water, sanitation and hygiene for accelerating and sustaining progress on neglected tropical diseases: a new Global Strategy 2015-20. Int Health. 8(Suppl 1), i19-i21.

3. Freeman MC, Majorin F, Boisson S, Routray P, et al. (2016). The impact of a rural sanitation programme on safe disposal of child faces: a cluster randomized trials in Odisha, India. Trans R. Soc Trop Med Hyg, 110, 386-392.

4. Fuller JA, Villamor E, Cevallos W, Trostle J, et al. (2016). I get height with a little help from my fiends: herd protection from sanitation on child growth in rural Ecuador, International Journal of Epidemiology. 1-10.

5. George CM, Oldja L, Biswas S,Perin J, et al. (2016). Unsafe child feces disposal in associated with environmental enteropathy and impaired growth. The Journal of Pediatrics. 176, 43-49.

6. Isunju JB, Schwartz K, Schouten MA, Johnson WP, et al. (2011). Socio-economic aspects of improved sanitation in slums: A review. Public Health. 125(6), 368-376.

7. Kobayashi T, Haginoya K, Morimoto T, hatakeyama T, et al. (2014). A case of infant botulism infection due to consumption of untreated well-water. The Journal of Pediatrics. 164(4), 931-933.

8. Liu L, Oza S, Hogan D, Perin J, et al. (2014). Global, regional, and national causes of child mortality in 2000-13, with projections to inform post-2015 priorities: an updatedsystematic analysis. The Lancet. 385, 430-440.

9. Uddin SMN, Li Z, Gaillard JC, Tedoff PF, et al. (2014). Exposure to WASH-borne hazards: A scoping study on peri-urban Ger areas in Ulaanbaatar, Mongolia. Habitat International. 44, 403-411

10. Uddin SMN, Muhandiki VS, Fukuda J, Nakamura M, et al. (2012). Assessment of Social Acceptance and Scope of Scaling Up Urine Diversion Dehydration Toilets in Kenya. Journal of Water, Sanitation and Hygiene for Development. 2(3), 182-189.