

MEASURING URBAN SANITATION AND EMPOWERMENT (MUSE)

PRELIMINARY FINDINGS: Women in Saidpur, Bangladesh

BACKGROUND AND METHODS

Background: Women's and girls' roles in household water, sanitation, and hygiene (WASH) are well-documented. Yet, there are limited data on how WASH conditions, programs, and policies impact women's empowerment, or how women's empowerment impacts WASH.

Aim: The aim of the MUSE project is to create and validate measures of sanitation-related empowerment in urban settings. Data generated can be used to inform gender sensitive programming.

Methods: WaterAid Bangladesh and ITN-BUET, in partnership with Emory University, surveyed 729 adult women in Saidpur, Bangladesh from March 21, 2022 – April 8, 2022. Surveys were conducted across 15 wards selected in collaboration with WaterAid Bangladesh. The survey included 16 scales and five indices to assess the three domains of empowerment: Resources, Agency, and Institutional Structures and their associated subdomains, adapted from van Eerdewijk (2017) (Figure 4). The survey also included questions on population demographics, WASH facility access and practices, and relevant WASH experiences related to the COVID-19 pandemic and lockdown. Further validation of scales in other locations is ongoing.

This report presents preliminary findings from the data collected in Saidpur, Bangladesh.

FUNDER

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PARTNERS





RESEARCH TEAM



ROLLINS SCHOOL OF PUBLIC HEALTH

Bethany Caruso, PhD, MPH Sheela Sinharoy PhD, MPH Amelia Conrad, MDP Madeline Patrick, MPH Thea Mink, MPH Rinchen Doma, MPH Mary Ellen Grap, MPH Derun Xia

Hubert Dept of Global Health &
Gangarosa Dept. of Environmental Health
Emory University

KEY FINDINGS

- Sanitation 86% used a sanitation facility located in their own dwelling, and 28% needed to collect water for sanitation.
- **Menstruation** Half **(49%)** reported depending on someone else to pay for menstrual items.
- **Decision-making –** Only **4%** reported influencing decisions about sanitation for their community.
- Norms The majority (91%) agreed that it is women more often than men who are expected to maintain the cleanliness of family sanitation facilities.
- Safety & Security 30% reported not always feeling safe in the place they typically go for sanitation during the night.
- Knowledge & Skills 10% of respondents reported that they have skills, like budgeting, organization, or mobilizing, to contribute to sanitation-related projects in their community.
- Critical Consciousness 66% agreed or strongly agreed that women typically have to delay going to a sanitation location more often than men because of their responsibilities.

PARTICIPANT DEMOGRAPHICS

- 32.2: average participant age
- **85.6%** married
- 4.6: average that live in household

- 88.6% completed at least primary education
- 7.3% employed outside the home
- 1.8 hours: average time spent outside home

WASH ACCESS AND PRACTICES

Sanitation

- The majority (91.3%) used a privately-owned sanitation facility for daytime defecation needs.
- The majority (86.1%) used a facility located in their own dwelling (Figure 1).
- 94.0% reported their sanitation facility was lockable from the inside.
- 3.8% had insufficient lighting inside their sanitation facility.

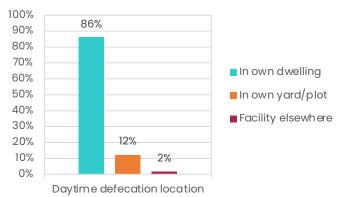


Figure 1. Locations where women reported defecating during the daytime

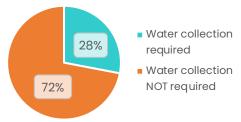


Figure 2. Proportion of women reporting they need to collect water for sanitation

Water

- 28.0% needed to collect water for sanitation (Figure 2).
- Of those, 14.0% had to pay for the water used for sanitation-related purposes (e.g., paying at a collection site, for delivery of water, or for a water bill).

Menstruation

Among the 82.3% of respondents who menstruate:

- 48.8% used cloth and 46.9% used single-use or disposable sanitary pads.
- 2.2% avoided engaging in income-generating activities during their periods because they could not access a facility to change materials.
- Most used a bathroom inside the house (81.5%)
 or a privately-owned toilet inside the house
 (14.7%) for changing materials (Figure 3).
- 48.9% depended on someone else to pay for menstrual items.

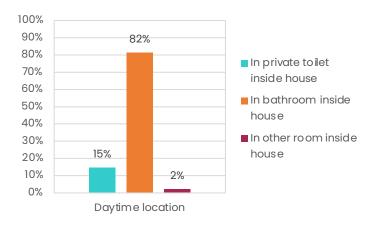


Figure 3. Locations where women reported changing menstrual materials

IMPACT OF COVID-19

As a result of the coronavirus pandemic or resulting lockdowns or restrictions:

- 62.4% reported difficulties purchasing sanitation-related items.
- 33.9% reported difficulties purchasing menstrual materials among those who menstruate.
- 17.2% reported spending more time caring for the sanitation-related needs of household members.
- 25.1% reported spending increased time cleaning sanitation facility.

EMPOWERMENT DOMAINS

Empowerment, as defined for this study, is composed of 3 domains: Agency, Resources, and Institutional Structures (Figure 4). The MUSE survey includes 16 scales and 5 indices for sub-domains of empowerment within these 3 domains. Below, we present example findings for individual items from each domain. In our results, 'sanitation location' includes sanitation facilities, like flush and dry toilets, and open defecation.

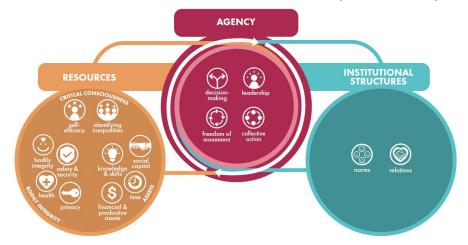


Figure 4. Conceptual Model of Empowerment adapted from van Eerdewijk, et al. 2017.

AGENCY

Agency involves Decision-Making, Leadership, Collective Action, and Freedom of Movement.

Decision-Making

86.5% of respondents agreed or strongly agreed that they would be welcome to participate in a discussion if their household was making a decision about sanitation-related issues. At the community level, **22.5%** of respondents agreed or strongly agreed that others were likely to listen if they spoke up in a community meeting about sanitation issues. **4.3%** reported influencing decisions about sanitation for their community. **4.4%** reported that local leaders, NGOs, or government officials had sought their input when making sanitation-related decisions (**Figure 5**).

Leadership

The majority of respondents **(92.7%)** agreed or strongly agreed that women are as capable as men to take on official leadership roles in sanitation initiatives.

Collective Action

5.22% reported gathering with community members to discuss sanitation-related problems and possible solutions. Similarly, **5.1%** reported gathering with neighbors to discuss sanitation-related issues and solutions.

Freedom of Movement

99.3% of respondents reported that they could go to a sanitation location alone, without asking permission or requiring accompaniment. **53.3%** reported that they could go to a community meeting or training outside of their neighborhood alone, without asking permission or requiring accompaniment.

INSTITUTIONAL STRUCTURES

Institutional Structures include the subdomains of Norms and Relations.

Norms

The majority of respondents (91.3%) agreed that, in their communities, it is women more often than men who are expected to assume most responsibilities related to maintaining the cleanliness of the sanitation location that their family uses (Figure 6). 54.0% reported that they agreed or strongly agreed that in their community, it is acceptable for a woman to express a different opinion than her husband about sanitation issues. 79.4% agree and strongly agree that in their community, it is socially acceptable for women to have leadership roles in sanitation-focused committees or organizations.

Relations

53.2% of respondents reported that their family would encourage or help them to participate in a community initiative to improve sanitation. The majority of respondents **(94.4%)** reported that their interactions with local leaders or authorities about sanitation-related issues are generally free of conflict, and **45.1%** reported that they feel comfortable reporting sanitation-related problems to service providers when they arise.

RESOURCES

Resources includes the subdomains of Bodily Integrity, Critical Consciousness, Financial and Productive Assets, Time, Social Capital, Knowledge and Skills and Health, Privacy, and Safety.

Bodily Integrity

The majority of respondents **(95.1%)** reported that they often or always felt satisfied with the sanitation location they used most often.

Health

The majority **(98.6%)** reported that they never used a sanitation location that they believed might make them ill in the past 30 days.

Safety and Security

18.4% reported not always feeling safe in the place they typically go for sanitation during the day, and **30.2%** reported not always feeling safe in the place they usually go at night. Of those who used a shared sanitation facility, **45.9%** reported not always feeling safe in the place they typically go for sanitation during the day and **41.1%** reported not always feeling safe in the place they usually go at night.

Privacy

11.1% reported that their sanitation location was never private enough for their needs in the past 30 days.

Financial and Productive Assets

45.6% reported that they would need to ask permission before spending household money on small sanitation-related expenses, such as toilet paper, soap, or pay-per-use latrines. About half of respondents **(51.4%)** reported that they have control over money they could use to pay for household latrine/toilet improvements or repairs.

Time

22.1% reported that the sanitation-related needs and responsibilities of their household often or always prevented them from doing other housework. **10.9%** of respondents agreed or strongly agreed that the sanitation-related needs and responsibilities of their household often make them miss out on other activities they would like to do.

Social Capital

39.7% of respondents reported that they have someone in their household who would help with chores, such as cooking or providing childcare, so that they could tend to their own sanitation needs.

Knowledge and Skills

10.0% of respondents reported that they have skills, like budgeting, organization, or mobilizing, to contribute to sanitation-related projects in their community.

Self-Efficacy

14.3% of respondents felt that they could change sanitation conditions in their community if they wanted to.

Critical Consciousness – Identifying and Questioning Inequalities

66.1% agreed or strongly agreed that women typically have to delay going to a sanitation location more often than men because of their responsibilities **(Figure 7)**.

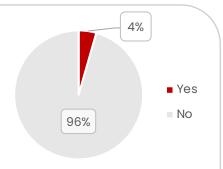


Figure 5. Proportion of responses to the Decision-making statement: Local leaders, NGOs, or government officials have sought my input when making sanitation-related decisions.

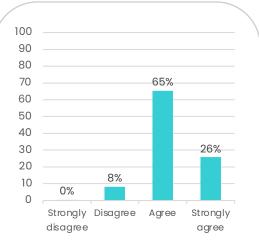


Figure 6. Proportion of responses to the Norms statement: In this community, it is more often women than men who are expected to do most responsibilities related to maintain the cleanliness of the family sanitation facility.

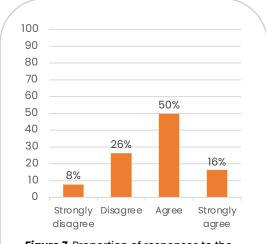


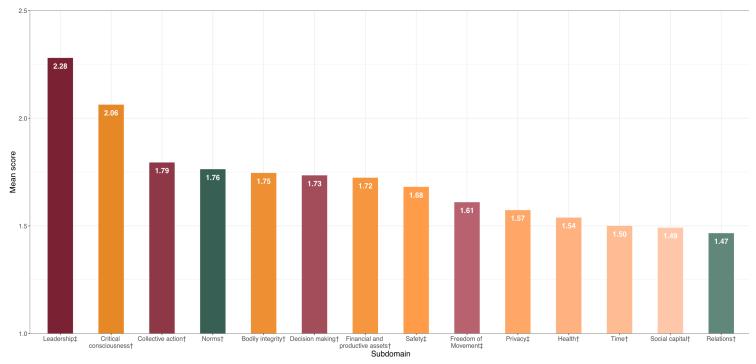
Figure 7. Proportion of responses to the Critical Consciousness statement: Women typically have to delay going to a sanitation location more often than men because of their responsibilities.

PRIORITIZATION OF EMPOWERMENT SUB-DOMAINS

To learn how participants prioritized the empowerment sub-domains, participants were asked about the degree to which each empowerment sub-domain was a concern or a problem to them.

For each sub-domain prioritization question, participants responded to scores ranging from 1 to 4. Higher scores indicate a greater priority. The prioritization scores were then averaged across participants.

Leadership (2.3) and critical consciousness (2.0) had the highest mean prioritization scores (Figure 8).



- † Indicates degree to which subdomain is a concern
- ‡ Indicates degree to which subdomain is a problem
- The scores range from 1 to 4:
- (1) Not concerned at all (2) A little concerned (3) Moderately concerned (4) Extremely concerned (1) Not a problem (2) A very small problem (3) A medium sized problem (4) A big problem

Figure 8. Participants' prioritization of empowerment sub-domains



REFERENCES

Van Eerdewijk, A. H. J. M., Franz Wong, Chloe Vaast, Julie Newton, Marcelo Tyszler, and Amy Pennington. "White paper: A conceptual model on women and girls' empowerment." (2017).