Review of sanitation system interactions with menstrual hygiene practices

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Marianne Kjellen and Chibesa Pensulo

Outline

- The Menstrual Management and Sanitation Systems project
- SEI's Global Review of Sanitation System trends
- Sanitation System Interactions
 - Methodology & Framework
 - Findings: Impact of MHM on:
 - -waterborne systems
 - -on-site
 - -productive
 - Disposal through the solid waste system
 - Recommendations re. privacy, water and information
- Final reflections on education, gender and MHM

Background

- Sanitation taboo...
 Menstruation a taboo within the taboo.
- Research project funded by the Bill and Melinda Gates Foundation. managed by the University of Maryland
- Interactions between menstrual (hygiene) management and sanitation
 - sanitation hardware
 - women's/girl's practices
 - Future sanitation systems
 & menstrual management products.

Project structure



SEI component

SEI SEI STOCKNOLM ENVIRONMENT INSTITUTE

Stockholm Environment Institute, Project Report - 2011

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Synthesis of current knowledge on interactions between MHM and sanitation systems

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Global Review of Sanitation System Trends and Interactions with Menstrual Management Practices

Report for the Menstrual Management and Sanitation Systems Project

Marianne Kjellén, Chibesa Pensulo, Petter Nordqvist and Madeleine Fogde

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Sanitation System Trends





Sanitation System Interactions

Analysis of impacts of MHM on different sanitation systems:

- Water-borne sewerage;
- On-site systems;
- Productive sanitation systems;

Menstrual waste disposal via the solid waste system

user interface collection/conveyance point of treatment

Methods: Literature review (global) and 20 expert interviews

(Argentina, Brazil, Bolivia, South Africa, Lesotho, Zambia, Malawi, Tanzania, Kenya, Burkina Faso, Yemen, India, Philippines, Cambodia)

Findings 1. Conventional sewerage systems



Used MHM products

- superabsorbent
- increase likelihood of blockages
- significant
 proportion of materials removed

2. On-site systems



- Preferred means of menstrual waste disposal
- Reduced design life = pits fill up faster
- Problems for emptying
- Research...
 (decomposition)

3. Productive sanitation systems



- High level of user information => less frequent menstrual waste problems
- Uncommon to find menstrual waste
- Women/girls must resort to other disposal means
- Concern: menstrual blood contaminating urine (unwarranted???)

Disposal through the solid waste system



- Many unaware that sanitation systems not designed to handle menstrual waste
- Habit change =>
 - 0.3% increase of solid waste
 - considerable cost savings for sewerage utilities
- Contextual disposal depend on location
- Concern: menstrual waste not to be seen by others
- Menstrual waste management systems lacking in schools

Recommendations

- Privacy & Space: Toilet design space! (&light) change / wash / discard discreetly.
- Water: needed inside cubicle/toilet.
- Information:
 - on 'correct' means of disposal
 - 1) effective
 - 2) implicitly suggests menstruation is ok

Final Reflections

- Streamline MHM into sanitation planning & education/training
- Gender balance!
 Female concerns to influence on sanitation system design
- MHM **rising** on the global agenda