

Under the High Patronage of His Majesty King Mohammed VI



XIX WORLD WATER CONGRESS
International Water Resources Association (IWRA)
Marrakech, Morocco | 1-5 December 2025

Kingdom of Morocco



Ministry of
Equipment and Water

Small Drops, Big impact; A micro-scale approach to community safe water system

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Introduction

Access to clean and safe water is a critical determinant of health and wellbeing, particularly in vulnerable communities.

Safe water access strengthens resilience against public health threats and advances social equity .



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W4HL Intervention aims to:

- Adopt a Micro-scale Solution to address a Macro Problem:
- Achieve a Household-Level Impact
- Community-Wide Ripple Effect
- Empowerment Through Simplicity
- Sustainable Health Gains



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Methodology and Approach



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- **Mixed-Methods Design:**

Combined quantitative household surveys (n = 272) with qualitative key informant interviews (n = 25) involving community leaders, service providers, and public health officials.

- **Focus Areas:**

Data collection assessed changes in water treatment practices, sanitation behaviors, and disease outbreak surveillance post-intervention.

- **Quantitative Analysis:**

Statistical techniques were applied to measure shifts in household water treatment and hygiene practices.

- **Qualitative Analysis:**

Thematic coding of interviews provided insights into community perceptions, barriers, and scalability of the intervention.



Results



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The findings from our study revealed the following:

- **Improved Water Safety Practices:** Survey results show significant adoption of point-of-use water treatment methods across the target communities.
- **High Uptake Rate:** Approximately 79% of households reported consistent use of household water treatment products post-intervention.
- **Behavioral Change:** Communities demonstrated marked improvements in hygiene practices alongside water treatment adoption.
- **Health Impact:** Primary health care centers recorded a 25% reduction in gastrointestinal illnesses, including cholera and dysentery.



Other findings from the survey



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Despite the benefits of Household water treatments;

- Only 31% of Households beneficiaries of the 'free' restocked water treatment products, one-year post-intervention.



Key deep-rooted Issues causing low re-stock rates



Behavioral/Cultural	Economic	Market/Supply Chain
<ul style="list-style-type: none">• Low perceived risk• Preference for Traditional Methods• Low habit formation	<ul style="list-style-type: none">• Affordability issues• Income instability• Competing Priorities	<ul style="list-style-type: none">• Gaps in transitioning from donor-support to market-based models of distribution



Conclusion

The findings from our study confirms that integrated WASH interventions which involves a combination of strategies can lead to measurable improvements in community health.

However, sustained impact will require continued community engagement/reinforcements as well as market-based solutions



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Thank you!



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