

Empowering Community Health Workers for Early Detection and Referral of Atopic Dermatitis in Underserved Areas of Multan, Pakistan

Learning Objective:

To assess how training Community Health Workers improves early detection and referral of Atopic Dermatitis in underserved communities of Multan.

Takeaway Message:

Empowering CHWs enhances timely diagnosis and referral of AD, bridging care gaps and improving outcomes in low-resource areas.

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Conflict of Interest: The authors declare that there is no conflict of interest.

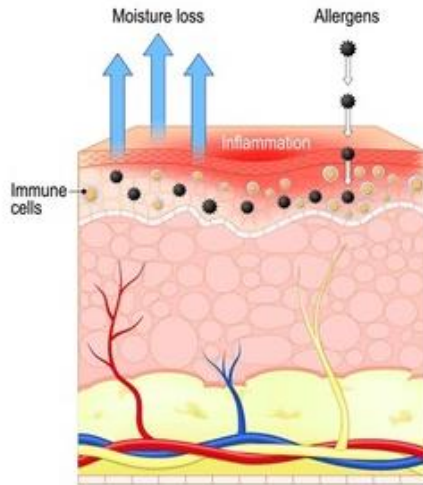


Background

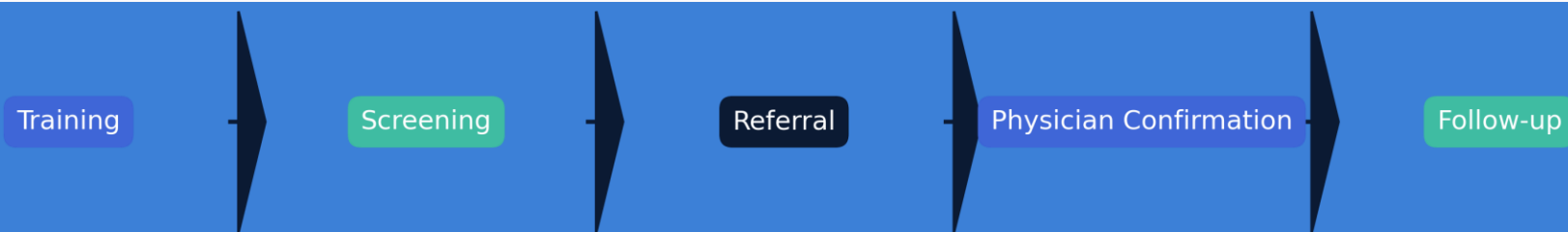
Atopic Dermatitis (AD) often remains underdiagnosed in Pakistan's underserved regions due to limited access to specialized dermatologic care and low community awareness. These challenges contribute to delayed recognition and inadequate management of the condition. Community Health Workers (CHWs) act as vital links between communities and healthcare systems, helping to bridge this gap. By empowering CHWs to detect early symptoms and facilitate timely referrals, complications can be reduced and patient outcomes significantly improved.

Objectives

- To assess the feasibility and impact of training CHWs for early detection and referral of AD cases in low-income communities of Multan.
- To evaluate the improvement in Community Health Workers' knowledge and skills regarding the recognition and management of Atopic Dermatitis after targeted training.
- To measure the effectiveness of CHW-led referrals in enhancing early diagnosis, follow-up adherence, and community awareness about Atopic Dermatitis in underserved populations.



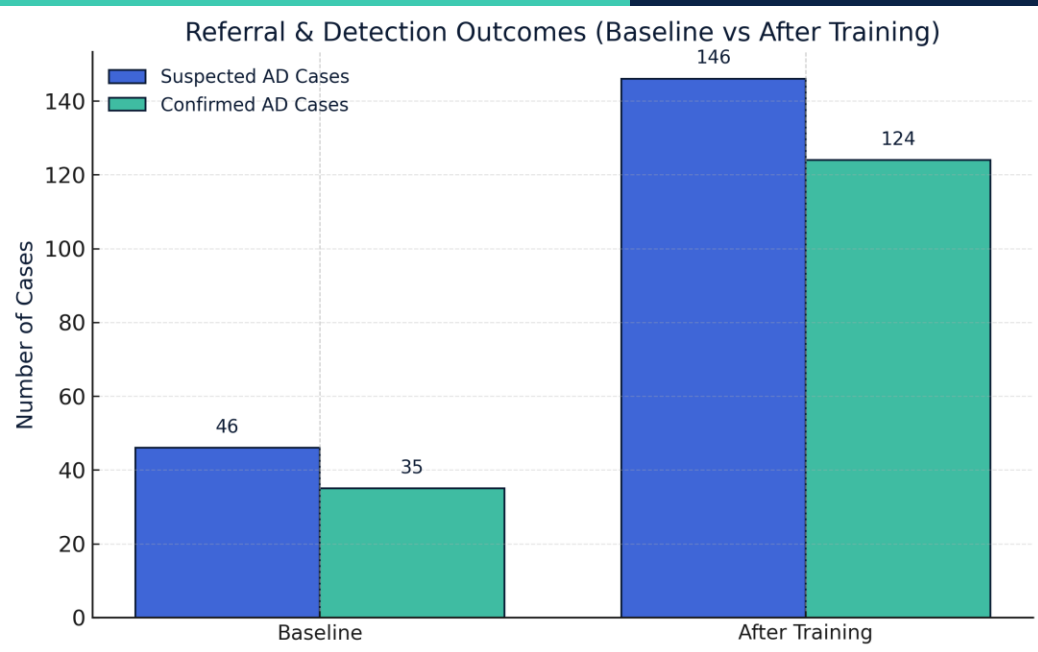
Methodology



- Study Design: 6-month pilot intervention (8 urban slums in Multan)
- Participants: 10 trained CHWs
- Training Content:
 - AD recognition (symptoms, triggers)
 - Basic skin care & hygiene guidance
 - Referral protocols and documentation
- Tools: Standardized reporting forms, pre- and post-training assessments
- Verification: Physician confirmation of referred cases.

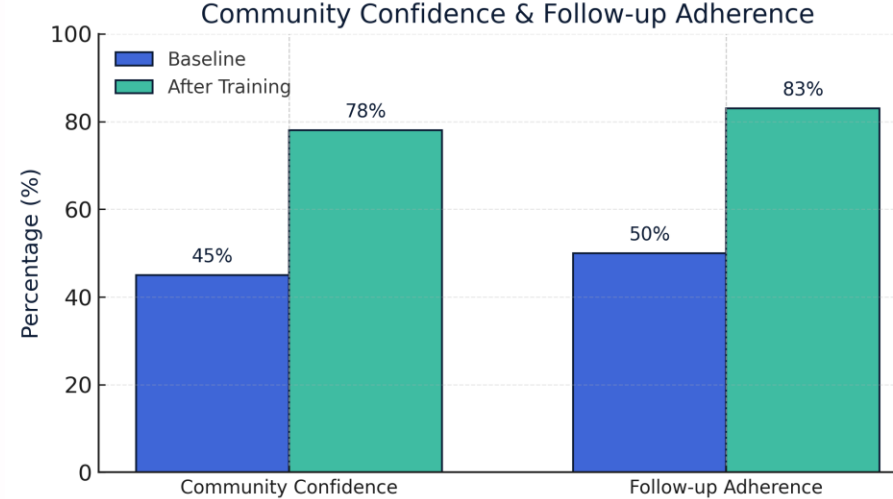
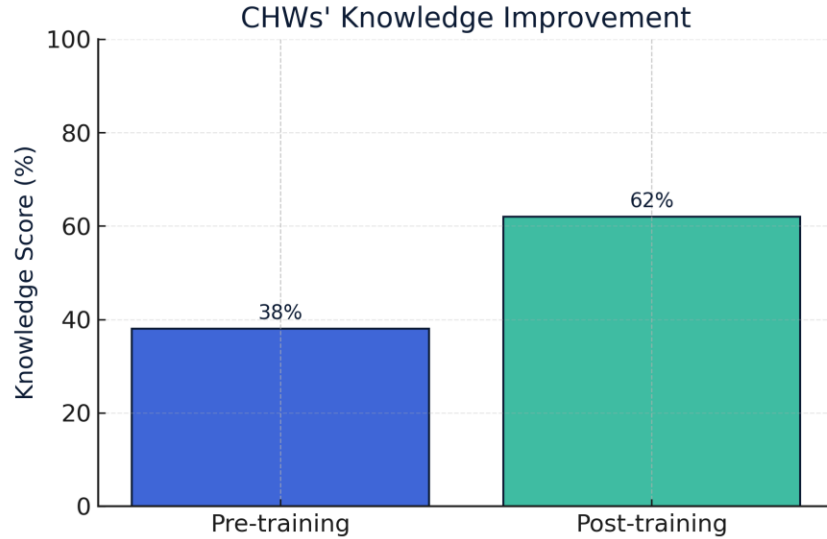
Results

Referral & Detection Outcomes



- 146 suspected AD cases identified
- 124 (84.9%) confirmed clinically
- Referrals increased 3.2× from baseline.

Training Effectiveness



CHWs' knowledge scores improved by 62% post-training



Community trust in CHWs' dermatologic guidance increased notably



Follow-up adherence among referred patients improved.

Discussion

- + CHWs can serve as effective frontline screeners for dermatologic conditions.
- + Structured training programs improve diagnostic awareness and referral accuracy.
- + Community-level involvement enhances trust, compliance, and continuity of care.





Conclusion

Training CHWs for AD detection and referral is both feasible and impactful.

Integrating them into dermatologic outreach efforts could transform early diagnosis and reduce the burden of untreated AD in vulnerable populations.

Recommendations

- Expand CHW training to rural and peri-urban areas.
- Include dermatology modules in primary healthcare training curricula.
- Establish referral networks between CHWs and dermatologists.
- Monitor long-term outcomes through digital reporting or follow-up tools.



Thanks!

Do you have any questions?

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