



HEARING AND VISION SERVICES FOR PRESCHOOL CHILDREN A MHEALTH SUPPORTED COMMUNITY-BASED PROGRAMME

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INTRODUCTION



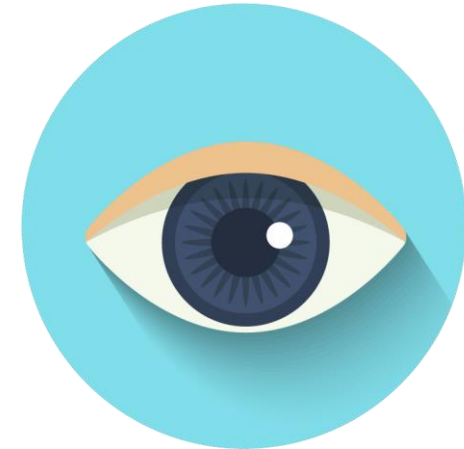
32 MILLION
CHILDREN



90% RESIDE IN LMIC



ACCESS TO
SERVICES



19 MILLION
CHILDREN



INNOVATIVE NEW MODEL

Accurate & reliable	✓
Time efficient	✓
Cost-effective	✓
Quality control	✓
Trained laypersons	✓



AIM



To describe and evaluate a joint sensory (hearing and vision) community-based screening programme for preschool children in underserved communities in the Western Cape using mHealth technology.

METHOD



Decentralized (ECD)



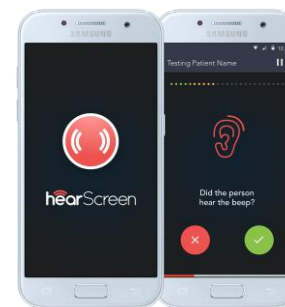
Trained non-professionals



mHealth solutions



5-6 year olds



Hearing screening (hearScreen)



Vision screening (Peek Acuity)



Linked to public health diagnostic services



RESULTS

- CHILDREN SCREENED: 5901 (hearing & vision)
- ECDs: 203
- CONSENT FORMS OUT: 8763
- CONSENT FORMS BACK: 7141* (81.5%, return rate)
- RETURNED NON-ENG: 33.9% (Xhosa/Afrikaans)
- 2017 COVERAGE RATE: 95.7%



*Not all eligible for screening/still in process of screening

RESULTS | HEARING

	TOTAL
Hearing screenings	5901
Referral rate	325 (5.5%)
First line follow-up rate	292 (89.8%)
Diagnostic referrals	100 (34.2%)
Attended diagnostic appointment	59 out of 81 (72.8%)
Awaiting diagnostic appointment	19
Confirmed with hearing loss	34 & 8 suspected (awaiting 2nd diagnostic app) = 42
Required alternative intervention	4

RESULTS | VISION

	TOTAL
Vision screenings	5901
Referral rate	119 (2%)
Attended diagnostic appointment	70 (58.8%)
Confirmed with vision impairment (issued with spectacles)	41 (58.6%)



CONCLUSION



A joint sensory screening community-based programme enabled by mHealth supported systems and trained non-professionals:

- Increases access to services (5901 children reached)
- Reduces programme costs
- Increases scalability
- Increases community awareness & staff knowledge
- Results in job creation



IMPACT STORY



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