





WASH in HCF Global Learning Event Kathmandu, Nepal 28-30 March 2017

Scaling up an Evidence-Based Package for Water, Sanitation and Hygiene (WASH) in Zambia to Mitigate healthcare-associated infections (HAI) Dr Leah Namonje Chilanga District Health Director MOH ZAMBIA – with UNICEF support

Scope of work

Context and background

Zambia=Lower Middle Income Country, in Southern Africa Population = 15.5mio (2015); 17.4 people/km2 Annual growth rate=2.8%

Key indicators:

- Maternal Mortality Ratio = 398 /100,000 live
- <5yrs Mortality Rate = 75 / 1,000 live births</p>
- Top ten causes for <5yrs mortality/morbidity incl. Diarrhea & Respiratory infections
- >90% of infrastr. for water supply, for sanitation and 97% of HC waste disposal need REPAIR or REPLACEMENT (1)

Zambia has 1,690 public HCF: approx. 80% health posts/rural health centres

198 urban health centers

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78 hospitals

ZAMBIA

Scope of work: Aims and objectives



2. Plan to scale up to all 1,620HCF using same WASH-IPC package expected from 2018 on...

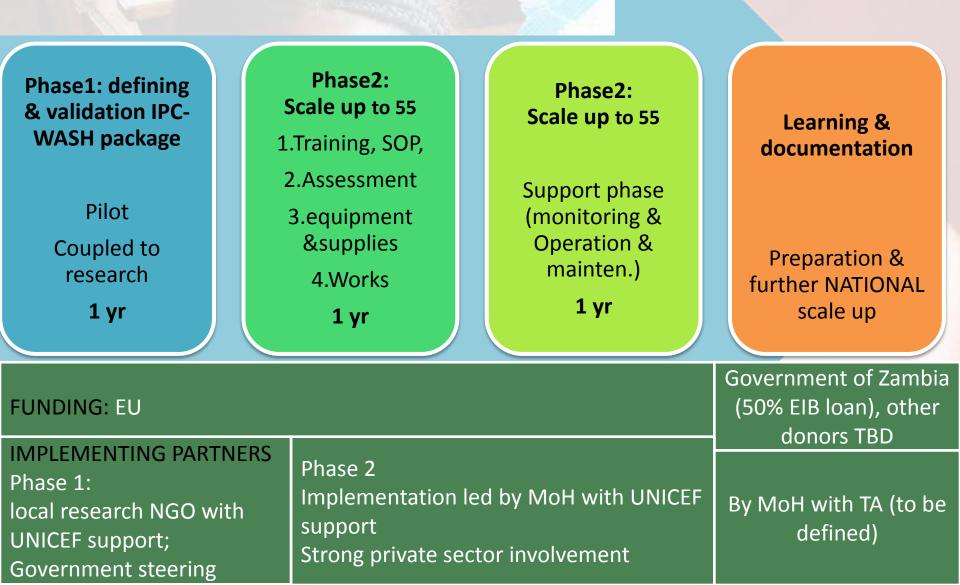
Government funded

European Investment Bank loan under negotiation [project document developed]; other donors to be defined

THEORY OF CHANGE – BASIS OF THE INTERVENTION

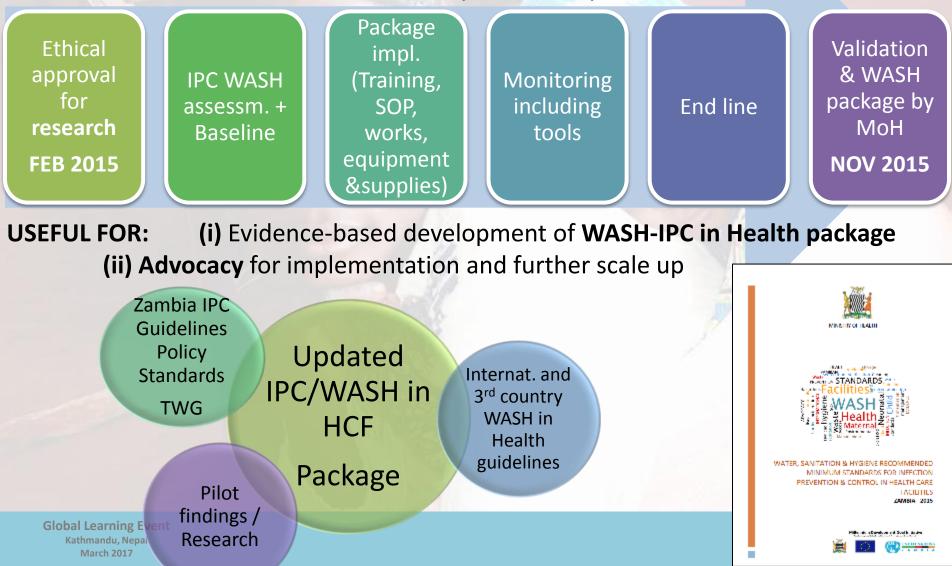


APPROACH: PROCESS of implementation



APPROACH: Phase 1 = DEFINING THE IPC-WASH PACKAGE

Phase 1: Pilot in 4 Health Facilities (9 months) in Lusaka & Ndola



APPROACH: A COMPREHENSIVE PACKAGE

INTERVENTIONS (Soft+Hard)	Infection Prevention EFFECTIVENESS	COST
Liquid chlorine production units + training	++++	+
Water supply, Storage, Treatment (chlorine dosing)	+ + +	+++
Supply hand washing stations and sanitizers, practice	++++	+
Build / rehabilitate toilets, maintenance	++++	+++
Equipment for solid waste collection, storage and disposal (pits, incinerators)	++	++++ +
IPC committee; develop simple standards + capacity building	++++	+
	Liquid chlorine production units + training Water supply, Storage, Treatment (chlorine dosing) Supply hand washing stations and sanitizers, practice Build / rehabilitate toilets, maintenance Equipment for solid waste collection, storage and disposal (pits, incinerators) IPC committee; develop simple	INTERVENTIONS (Soft+Hard)Prevention EFFECTIVENESSLiquid chlorine production units + training+++++Water supply, Storage, Treatment (chlorine dosing)++++Supply hand washing stations and sanitizers, practice+++++Build / rehabilitate toilets, maintenance+++++Equipment for solid waste collection, storage and disposal (pits, incinerators)+++IPC committee; develop simple+++++

MILLENIUM DEVELOPMENT GOAL INITIATIVE











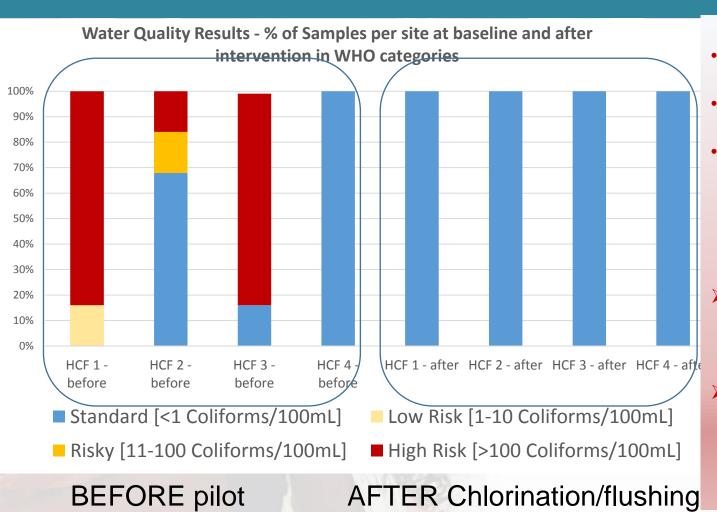


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Outcomes: Phase 1 pilot – water quality

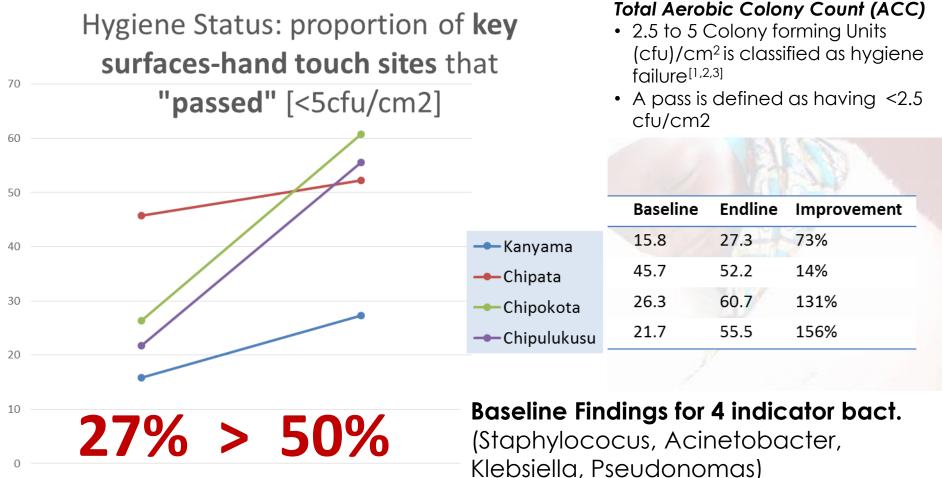


- Sampled water points in 4 pilot HCF;
- All 4 HCF with borehole + water utility water;
- Leakages found 4 HCF repaired to extent possible

Learning: RESIDUAL CHLORINE REQUIRED = most feasible 100% safe solution through ON SITE

through ON-SITE CHLORINATION: using Chlorine dosing pumps

Outcomes: Phase 1 pilot findings – Hygiene status



Baseline Endline
[3Month period]

>50% of samples showed drug resistance to10 commonly used antibiotics

Outcomes: Pilot research on Hand Washing / handrub practice

In same 4 HCF: observations

OUT of all 800 observed hand hygiene opportunities, ONLY 8 (1%) hand hygiene practiced!

Reasons: focus group discussions+interviews
 Lack of facilities, water, soap
 Lack of motivation
 Lack of monitoring

Outcomes: Policy/standards

 National Infection Prevention Control Guidelines reviewed beginning 2017; dissemination pending

now include WASH-IPC package [WASH-IPC standards, SOPs, training curriculum]

- National O&M framework under development
 - Certification of equipment operators
 - Clear accountability definition (Central-Prov-Distr-HCF)
 - Operation-maintenance-servicing rules defined
 - Reporting/logging protocols defined

Outcomes: Monitoring

 Key WASH-IPC indicators inclusion in HMIS; SELECTION OF INDICATORS also related to top 10 causes <5yrs mortality/morbidity [Diarrhea & Respiratory infections]

Monthly reporting:

water availability + quality
hand hygiene (facilities with water/cleaning agent)
cleaning/decontamination of surfaces
solid/medical waste management

6-monthly reporting:

O&M & functionality of equipment (indicators/protocols still under development); nb of IPC meetings

Outcomes: Capacity strengthening

WASH-IPC – software & practices

- Training (ToT) of pool of 24 national/provincial trainers WASH-IPC; 5 Training Videos
- Training of District Environmental Health Technologists(EHT) in charge of monitoring/supervision in 11 districts
- IPC committees constituted in 55 HCF –daily monitoring and HCF staff training: > 50% of staff trained (still ongoing), ground & medical staff
- WASH equipment operation, maintenance & servicing
- Training of Medical Equipment Officers Nat/Prov/District for O&M + supervision of Chlor Prod Units & Dosing Pumps, Incinerators
- Training of EHT, in-charge and operators in each HCF

In 55 HCF: 1 yr package implementation & training + 1 yr support/TA

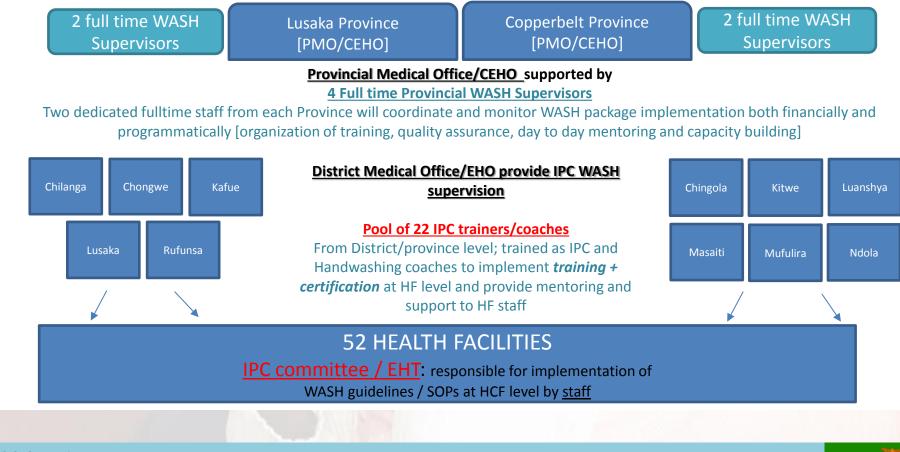
Private sector capacity building – namely CPU supplier received training from Antenna (now supplier is developing LOW COST CHLORINE production plant using same Antenna Chlorine Production Global Learning Event Units March 2017

SCALING UP: SERVICE DELIVERY MODEL SUPPORT AT ALL LEVELS

MoH Disease Surveillance and Public health department

MDGi WASH UNICEF team for support

Central level at MoH + UNICEF: coordination role, facilitating the implementation of package, policy & guidelines



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Central

Provinces

Districts

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LESSONS LEARNED & TAKE-AWAYS to ADDRESS MAIN CHALLENGES

Evidence based implementation – through PILOT+Research

IS IMPORTANT in order to

- Convince stakeholders at all levels: HCF, District, Provincial, Nat If people believe in package = much easier
- Advocacy for additional FUNDS/partners (example EIB)
- Develop standardised package national WASH-IPC standards, guidelines, SOPS et

Institutional strengthening

- Align implementation with MoH structure
- Minimum standards in National Infection Prevention guidelines
- Create Pool of National trainers [ToT] (soft+hardware)

LESSONS LEARNED

Monitoring and Supervision

- Feed into HMIS (use existing structure)
- -> LINK WITH top 10 causes of mortality / morbidity

Equipment management

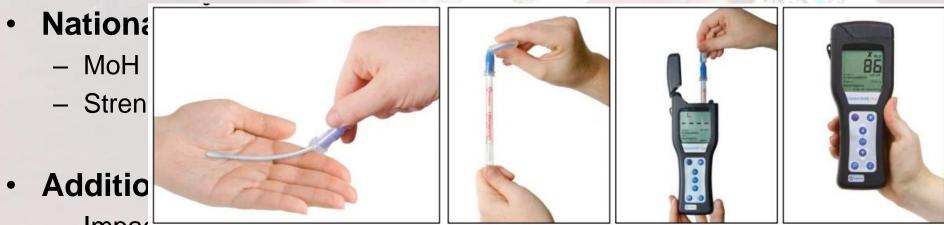
- Focus on maintenance and servicing
- Operator certification: only trained operators can operate equipment
- Allocate budget for supplies: fuel, electricity, salt...

Quarterly joint meetings – for exchange and learning

To ensure harmonized approach through Districts/Provinces and HCF

Next steps & Recommendations

- Inclusion of WASH-IPC in Nat/Province/District plans
- Include IPC in training curriculum of Environmental Health Technologists (EHT)



- Impaction wash-incontrarger scale

March 2017

- On sustainable operation and maintenance of WASH equipment WITH ANTENNA for Chlorine Prod Units
- On cost effective hand hygiene surveillance using ATP call for funding!

References / contact



IPC IN WASH TRAINING OF TRAINERS

Tobias Tembo · 5 videos · 8 views · Last updated on Jan



Hand Hygiene

by Tobias Tembo

Play all Share + Save

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What is the importance of Waste Management in IPCLAVUUN Verstraete — UNICEF by Tobias Tembo WASH Zambia

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How to keep medical instruments safe to use by Tobias Tembo

lverstraete@unicef.org





by Tobias Tembo

https://www.youtube.com/playlist?list=PLuX PkKa9vOKckGm4Rsnr5iWqpkvV1awfy&featu re=em-share_playlist_user

