



Caring for sick children in the community: Experiences from Malawi



Humphreys Nsona IMCI Unit



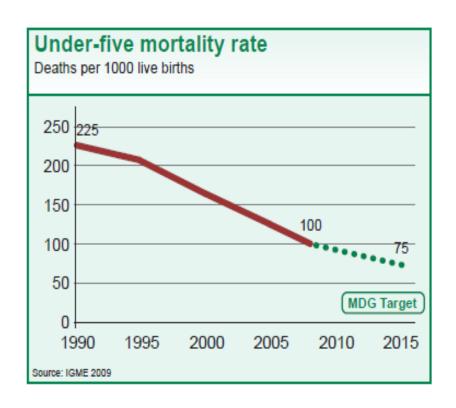


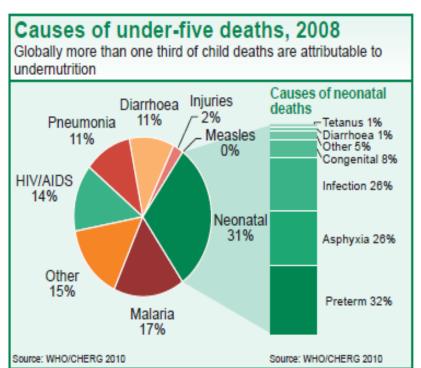
Outline of the presentation

- Rationale for community case management of childhood illness (CCM) in Malawi
- Characteristics of the approach
- Status of implementation
- Results of quality of care assessment
- What has worked and tackling challenges



Progress in improving child survival, Malawi

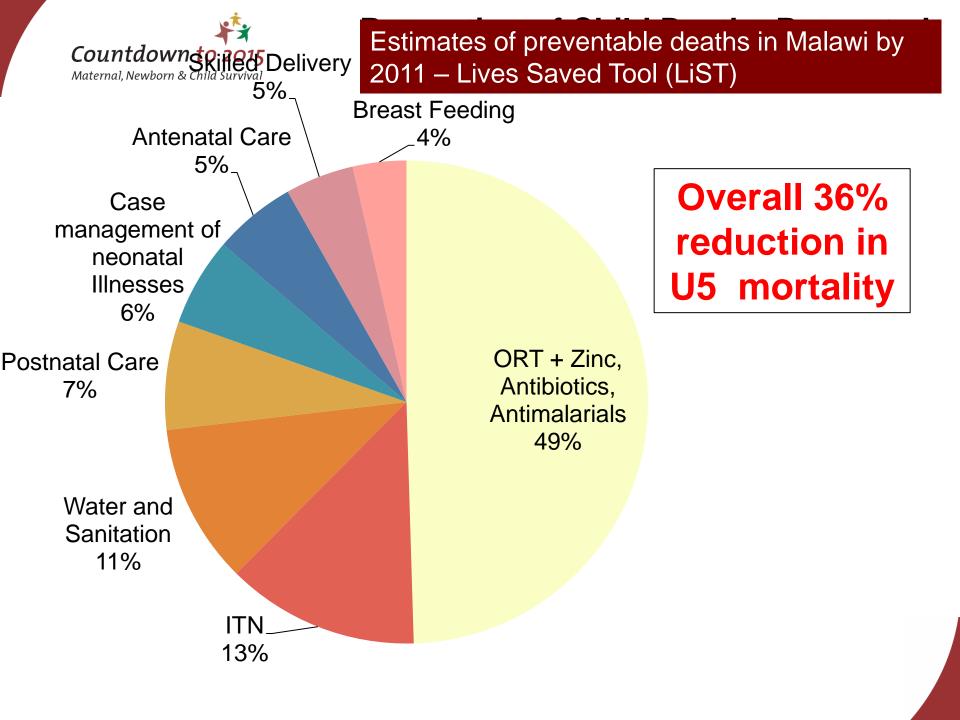






Rationale for CCM in Malawi

- 30-35% of the population lives more than 8 km from a health facility
- Coverage of treatment for pneumonia (30%), malaria (25%) and diarrhoea (27%) - this is too low
- 10,451 Health Surveillance Assistants are part of the health workforce - approximately 1:1000 population
- The national Essential Health Package includes community-based treatment of common childhood conditions (CCM)





Essential features of CCM

HSAs trained to manage sick children aged 2-59 months with simplified WHO IMCI algorithm

- Assess symptoms
- Classify illness
- Treat or refer (severe cases)
 - ➤ Pneumonia → antibiotics
 - Fever / malaria antimalarials
 - ➤ Diarrhea → ORS and zinc
 - ➤ Danger signs/severe illness → refer

Child's Caregi	Sick Child Recording For (for community-based treatment of child age 2 (bay / Month / Year) First Name: Surname Age: ver's name: Relationship: Mother / Fath al Address:	months up to 5 years) Years/Months Boy/Girl	H5 A :
1. Id	lentify problems		SICK but NO
	ASK and LOOK	Any DANGER SIGN?	Danger Sign?
	What are the child's problems? If not reported, then ask to be sign present →Tick ♥ NO sign → Circle •		
	■ Cough? If yes, for how long? days	□ Cough for 21 days or more	
0	■ Diarrhoea (loose stools)? IF YES, for how long?days. ■ Blood in stool?	 □ Diarrhoea for 14 days or more □ Blood in stool 	□ Diarrhoea (less than 14 days AN no blood in stool
	Fever (reported or now)? If yes, started days ago.	☐ Fever for last 7 days	☐ Fever (less than 7 days)
	■ Convulsions?	□ Convulsions	
	■ Difficulty drinking or feeding? IF YES, not able to drink or feed anything? □ ■	 Not able to drink or feed anything]
	■ Vomiting? If yes, vomits everything? □ ■	□ Vomits everything]
0	■ Red eyes? If yes, for how longdays. ■ Difficulty in seeing? If Yes for how longdays	□ Red eye for 4 days or more □ Red eye with visual problem	□ Red eye (less than 4 days)
	Any other problem I cannot treat (E.g. problem in breast feeding, injury)? See 5 If any OTHER PROBLEMS, refer.	Other problem to refer:	
LOOK			
0	■ Chest indrawing? (FOR ALL CHILDREN) IF COUGH, count breaths in 1 minute:breaths per minute (bpm) ■ Fast breathing: Age 2 months up to 12 months: 50 bpm or more Age 12 months up to 5 years: 40 bpm or more	□ Chest indrawing	☐ Fast breathing
	■ Very sleepy or unconscious?	 Very sleepy or unconscious 	
	■ Palmar pallor	□ Palmar pallor	
	For child 6 months up to 5 years, MUAC tape colour:	□ Red on MUAC tape	
	■ Swelling of both feet?	☐ Swelling of both feet	1
			NO Danger Sign, at home and advise



Essential Elements for effective CCM implementation

ELEMENTS

Train HSAs in CCM

Procure drug boxes; ORT equipment, bicycles

Provide support for DEC's and TWG's meetings

Support for orientation of Health Centre In-Charges

Support orientation of village health clinic committees

Support HSA quarterly review meetings

Support Mentorship program

Support training of senior HSA's as VC supervisors

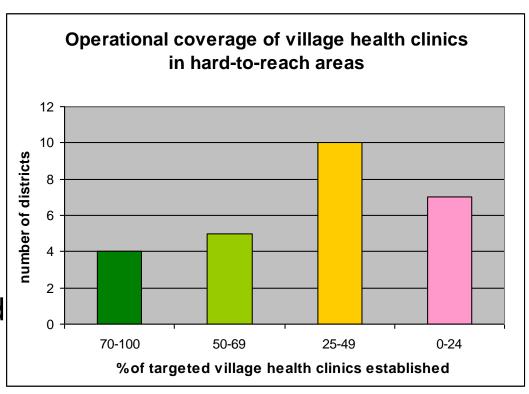
Strengthen drug management system

Strengthen M&E system



Progress in scaling-up of CCM

- National target 2011:
 2971 Village Health
 Clinics established
- Currently achieved:
 - 1077 HSAs trained,
 - 978 VHCs established





Reasons for seeking care

Cases Seen by HSAs Jan Mar 2010



Average number of cases treated per month per village clinic: 46 children



Can HSAs deliver services with quality?



Picture taken by J Callaghan, with permission, during practice observations in training of evaluation team



Assessment of quality of care June – Nov 2009

- Objective 1: To determine the quality of care provided to sick children for pneumonia, diarrhea and malaria by HSAs in Malawi
- Objective 2: To describe the processes in place to ensure the quality of CCM services provided by HSAs, including training, drug supply, and supervision



Use of multiple methods

Clinical

Systems

Direct
observation
with
Re-exam

Quality of assessment, classification, & treatment actions

Case scenarios

HSA knowledge in severe cases Register review

Cases seen; treatment & referral decisions

Caretaker Exit Interview

Client satisfaction; counseling messages; costs

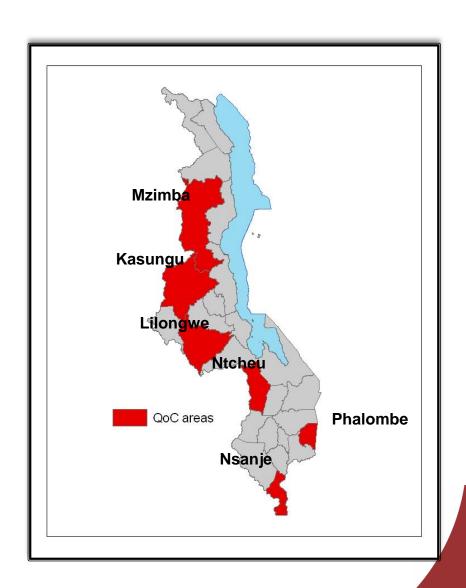
HSA Interviews

Drugs; supplies; supervision & training



Methodology

- Six districts
 - HSAs trained in CCM
 - Initial drugs available (functioning VHC)
- HSAs randomly sampled
 - 22 per district
- Data collection
 - 6 evaluation teams visited 131 HSAs
 - Average of 1 HSA per day
 - Average of 3.9 sick child observations per HSA

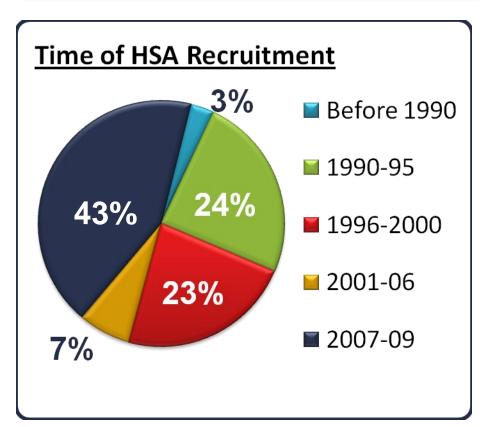


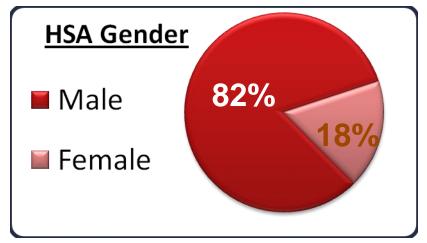


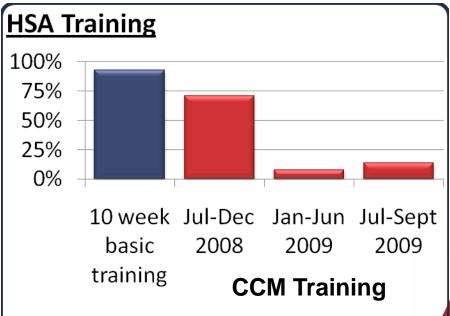
HSAs included in the sample

131 HSAs visited

Average Age = 34



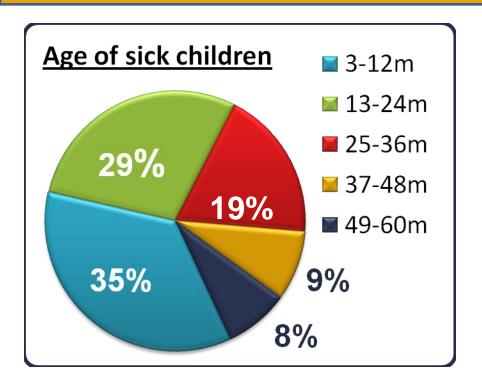






Sick children and caretakers included in the sample

TOTAL Sick Children Observed = 385



Sex of
Child
~47% Girls

Sex of Caretaker 95% Female

5% Male

Gold Standard Class	sifications
Diarrhoea < 14d	28%
Blood in stool	2%
Fever <7d	67%
≥ 7d	4%
Convulsions	2%
Vomits everything	2%
Red eye < 4d	8%
≥ 4 d	2%
Fast Breathing	26%
Palmar Pallar	2%
MUAC Tape Red	2%
Yellow	3%
Swelling both feet	2%
Other problems – refer	12%



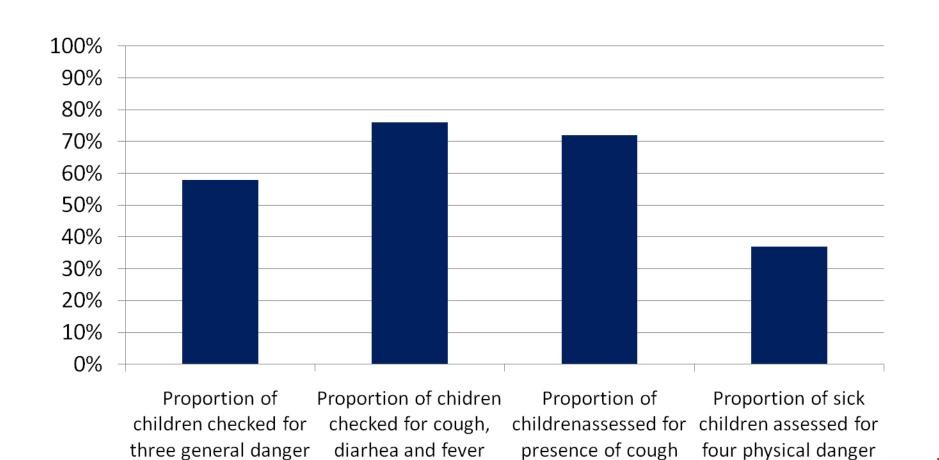
signs

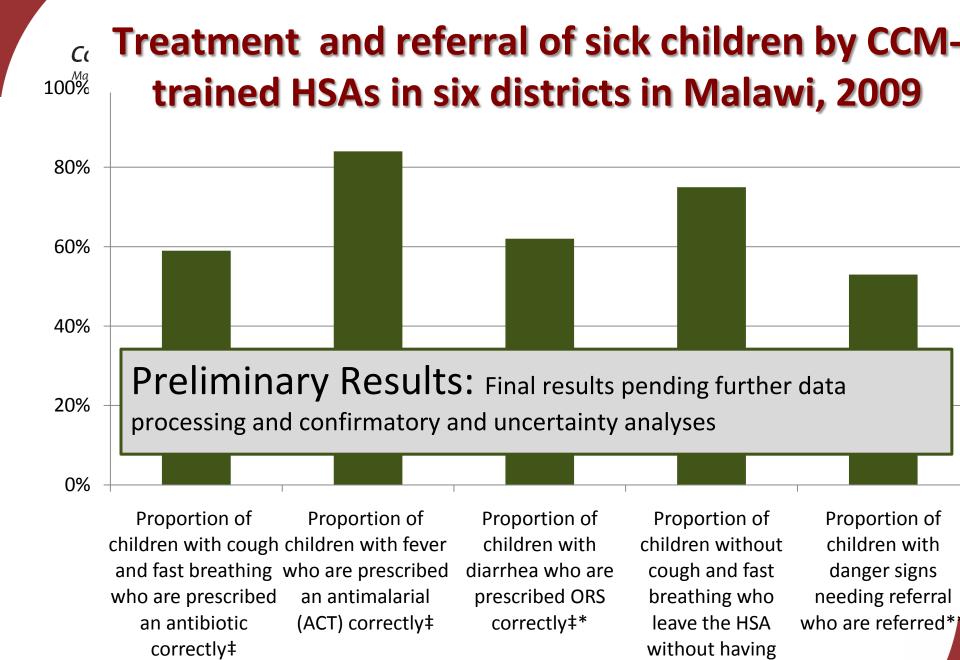
Assessment of sick children by CCM-trained HSAs

through counting of

Respiratory Rates

signs

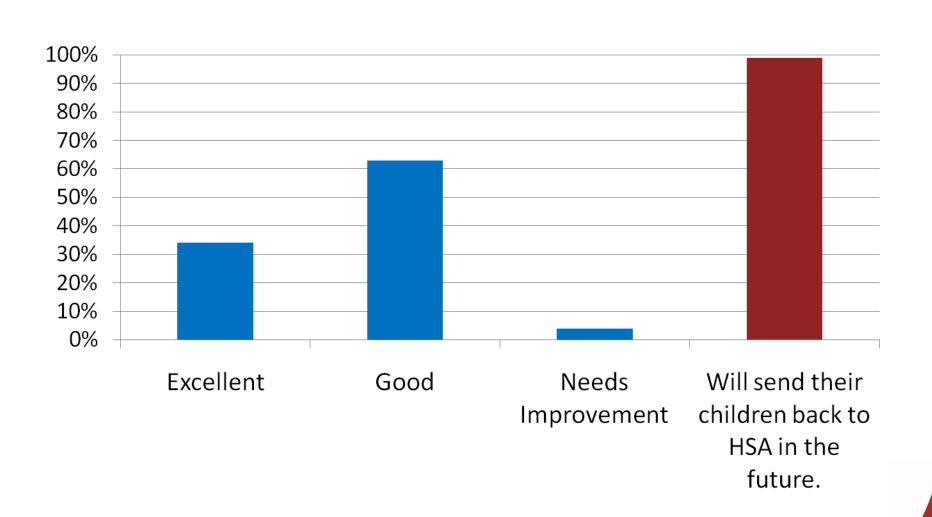




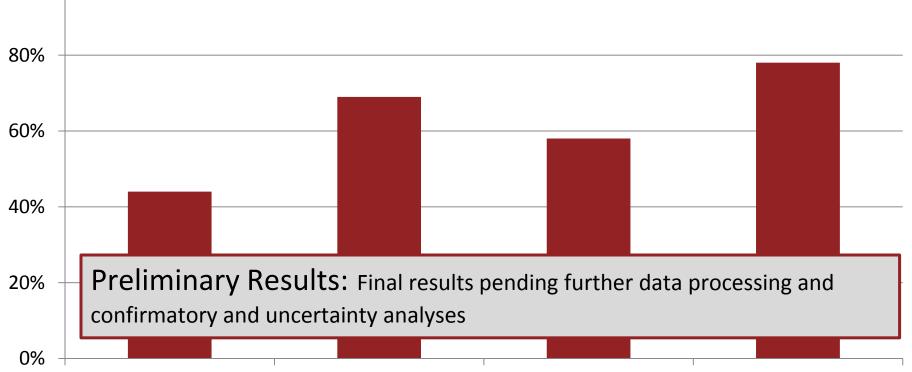
received an antibiotic‡



Proportion of caregivers who report satisfaction with HSA services



Counseling of caretakers of sick children by CCM-trained HSAs in six districts in Malawi, 2009



Proportion of children who need an antibiotic, ORS, &/or antimalarial who receive the correct first dose in presence of HSA‡ *

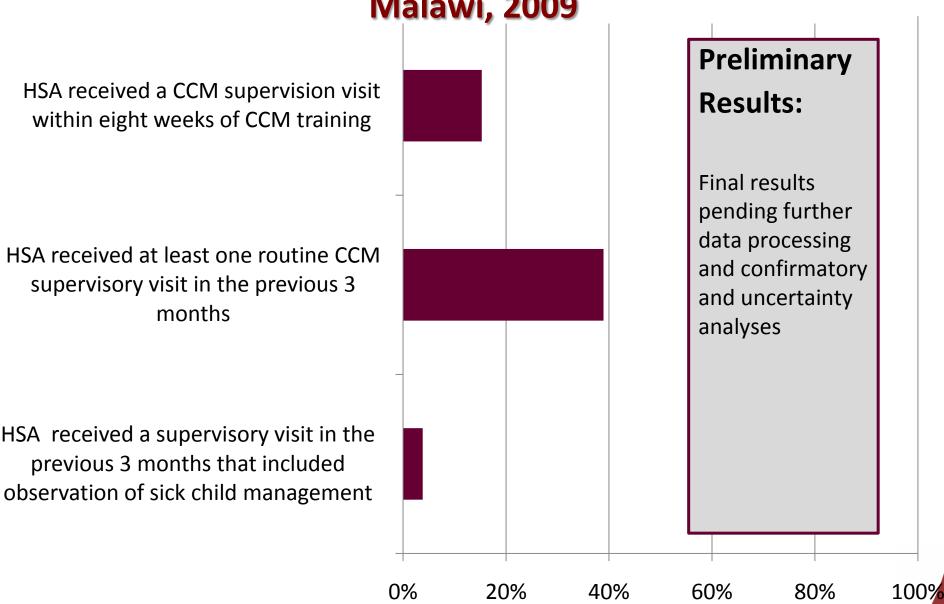
Proportion of children who have had their vaccination status checked‡

Proportion of children with diarrhea whose caretakers are advised to give extra fluids and continue feeding

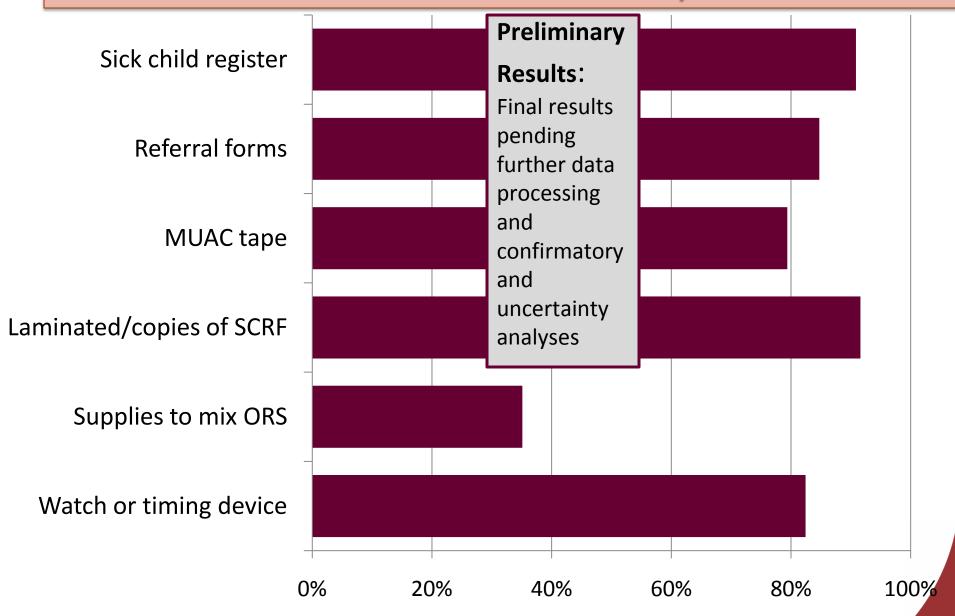
Proportion of children prescribed ORS &/or oral antibiotic, &/or antimalarial who received dose, duration and frequency counseling messages about administering treatments‡

Drug supplies among CCM-trained HSAs with functional VHC in six districts in Malawi, 2009 ■ Drugs present on VHC with ORS, Cotrim, and day of visit two formulations of LA Stock-out in previous 3 months Antibiotic eye ointment Paracetamol **Preliminary** LA 2x6 **Results:** Final results LA 1x6 pending further data processing Cotrimoxizole and confirmatory **ORS** and uncertainty analyses 0% 20% 40% 60% 80% 100%

Supervision of CCM-trained HSAs in six districts in Malawi, 2009



CCM supplies among CCM-trained HSAs with functional VHC in six districts in Malawi, 2009





Summary of preliminary findings

- Quality of assessment and treatment
 - Relatively high, even in comparison to other surveys
- Assessment of and referral for danger signs
 - Need improvement
- Counseling and communication
 - Done well
 - HSAs have more time for counseling than other workers
- Systems supports (supervision, drugs & supplies)
 - Need great improvements
 - > Still under development



What worked in Malawi?

- MoH leadership and partner coordination
- National guidelines and training materials derived from WHO/UNICEF generic package
- Focus on hard-to-reach areas
- District level orientation and joint planning
- Community participation and ownership of the VHCs
- Designation of referral facility and use of referral notes
- Adoption of CCM register and monitoring system
- SMS-based reporting of treatments provided



Tackling challenges

- Introduction of programme management training, joint planning, and quarterly review meetings with DHMTs
- Collaboration in MoH and with partners to strengthen forecasting, procurement and uninterrupted supply of medicines at the point of delivery
- Institutionalizing mentorship program for HSAs in health centres
- Creation on integrated supervision of HSAs by various cadres, and including observed case management



Acknowledgements

Malawi-MoH with:

MoWCD WHO **UNICEF** Johns Hopkins University, IIP **USAID/BASICS** PSI Save the Children Bill and Melinda Gates Foundation Canadian International Development Agency

The HSAs, district health teams, caregivers and children in Malawi



Picture taken by J Callaghan, with permission, during practice observations in training of evaluation team