

ENRICH BASELINE EVALUATION: HIGH LEVEL FINDINGS IN 4 COUNTRIES



Daniel Sellen, PhD

Director, The Joannah and Brian Lawson Centre for Child Nutrition
Distinguished Professor of Anthropology and Global Health
Professor of Nutritional Sciences, Social & Behavioral Health Sciences
Senior Resident Scholar, SickKids Centre for Global Child Health



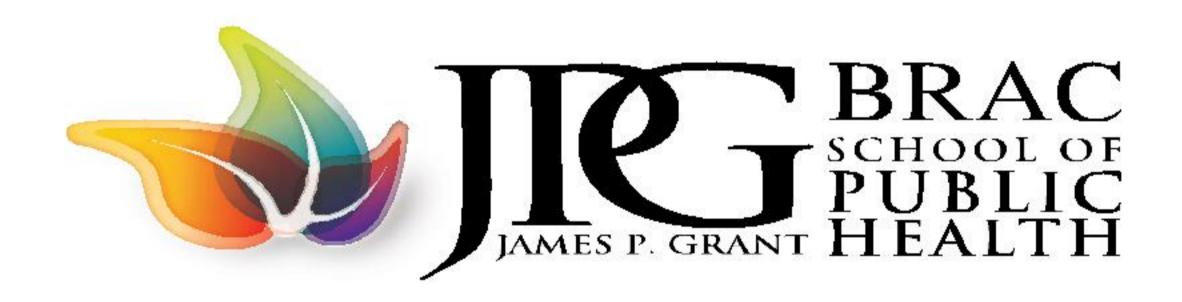


















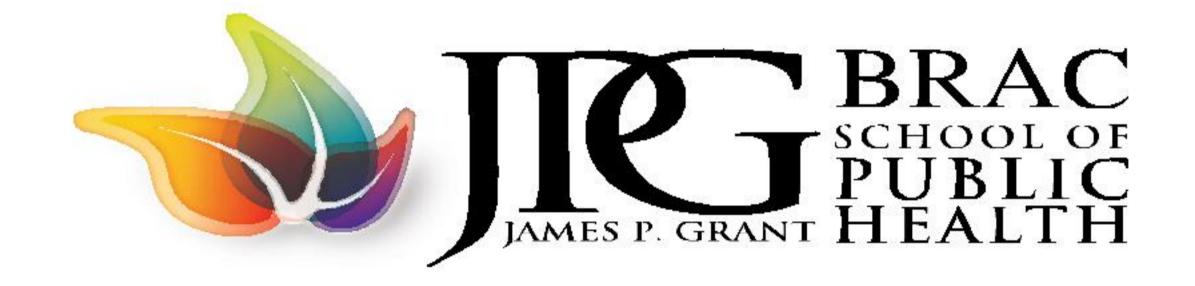






OVERVIEW

Overview of baseline study activities



Analysis and key findings



Recommendations





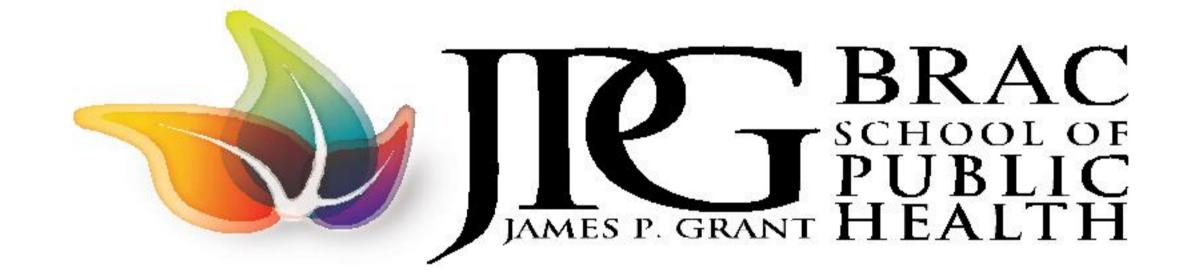






OVERVIEW

Overview of baseline study activities



Analysis and key findings



Recommendations





RESEARCH PARTNERS: OVERSIGHT + DESIGN

Country Research Partner organization / Unit	National ethics approval	Evaluation Design		
University of Toronto (UofT), DLSPH, CCNH	Office of Research Ethics Health Sciences Research Committee Protocol ID 33246			
Egerton University (EU)	EU Ethical Review Committee (ERC) + National Commission for Science, Technology and Innovation (NACOSTI)	"Double difference" impact analysis: changes in		
Enhance Tanzania Foundation (ENTAF)	Medical Research Coordination Committee of National Institute of Medical Research (NIMR)	PMF indicators between program and non- program area, using quasi-experimental mixed method approach with repeated cross-sections		
James P Grant School of Public Health at BRAC University (JPGSPH)	JPGSPH, BRAC University Ethical Review Committee (ERC)	surveys at the baseline, midterm and end line;		
Aga Khan University, Pakistan (AKUP)	Aga Khan University Ethical Review Committee (ERC)	"Adequacy design": pre-and post- evaluation, without any non-program comparison group *		

^{*}vertical national programs do not allow disparities in interventions

BASELINE ACTIVITY TIMELINE

May-Jun, 2016	Jul-Aug, 2016	Sep-Oct, 2016	Oct-Dec, 2016	Oct-Mar, 2017
 Recruitment and orientation of ENRICH UofT M&E team Identification and orientation of incountry partners Development of baseline protocol Discussions on baseline plans & methodologies Submission of UofT Ethics application 	 Finalization of baseline protocol Development of tools and guidelines Development of baseline budget Development of Terms of References (ToR) Submission of in-country ethics applications 	 Finalization of baseline budget Finalization of sampling protocol Development of ODK template for digital data collection UofT & in-country ethical approval Execution of UofT-WVC agreements Sharing UofT-CRP sub-agreements 	 Execution of UofT-CRP sub- agreement Translation and adaptation of tools Adaptation of country- specific ODK template Development of field operation plans 	 Execution of fund transfer Recruitment and training of data collectors Pretesting and finalization of tools Data collection and ODK management Data cleaning and editing Data analyses & tabulation of preliminary results Sharing of preliminary results with WVNO's for validation and finalization Preparation of draft reports Submission of final reports

"CRPs" co-created final study design and tools, coordinated and supervised all aspects of field team training and data collection, and collaborated on data management, analysis, interpretation

BASELINE STUDY REPORTS:

COMPONENTS Executive Summary Conclusions and Introduction recommendations Annexes Gender Methodology assessment results Health facility Household survey assessment results results > 300 PAGES









Overview of baseline study activities



Analysis and key findings









CHALLENGES MET (SELECTED)

- Formidable task of contextualization and finalization of the ODK X-forms and digital template during training, pretesting and initial data collection phase
- Challenges in ensuring random sample of under-five children
- Difficulties in finding the sampled households
- Harsh weather conditions, social unrest & insecurity
- Underestimated human resource budgets for data collection

STRENGTHS

- All tools worked well to generate intended PMF indicators
- PMF indictors are precisely estimated, in most cases within the range anticipated; comparable across sites, countries
- Sample size estimation and selection of clusters adequate for later inferences about program impact
- Strong organizational partnerships key for meeting several significant challenges encountered
- Rigorously collected and copious baseline data can be used as a robust and accurate resource for targeting + evaluation
- Should be possible to make robust difference-in-differences comparisons on many key indicators at midline and end line

LIMITATIONS, CONSTRAINTS, POTENTIAL BIASES

- HHS sample not representative of whole population
- Cross-sectional design
- Maternal recall

No fully independent control over all study activities

- Some managed by WV in coordination with UofT, CRPs
 e.g. development of ODK data collection template, ongoing access to data by all parties, household listing
- Non-program area comparison site selection

Some significant differences between ENRICH program and non-program areas for some important PMF indicators

Sample Size:

Children
0-59.9 mo

up to 36 clusters per area

Country	Target		Achieved			
	Program	Non	Program		Non	
		Program			Program	
Kenya	1,2	48		1,2	74	
	832	416	858		416	
			М	F	Μ	F
			414	444	203	213
			(48%)	(52%)	(49%)	(51%)
Tanzania	1,404		1,399			
	936	468	935		464	
			Μ	F	Δ	F
			434	501	238	226
			(46%)	(54%)	(51%)	(49%)
Bangladesh	1,326		1,323			
	884	442	881		442	
			M	F	М	F
			460	421	227	215
			(52%)	(48%)	(51%)	(49%)
Pakistan	93	36	942			
			М	F	None in	
			528	414	Pakistan	
			(56%)	(44%)		

SELECTED KEY INDICATORS

Selected from among dozens in the PMF....

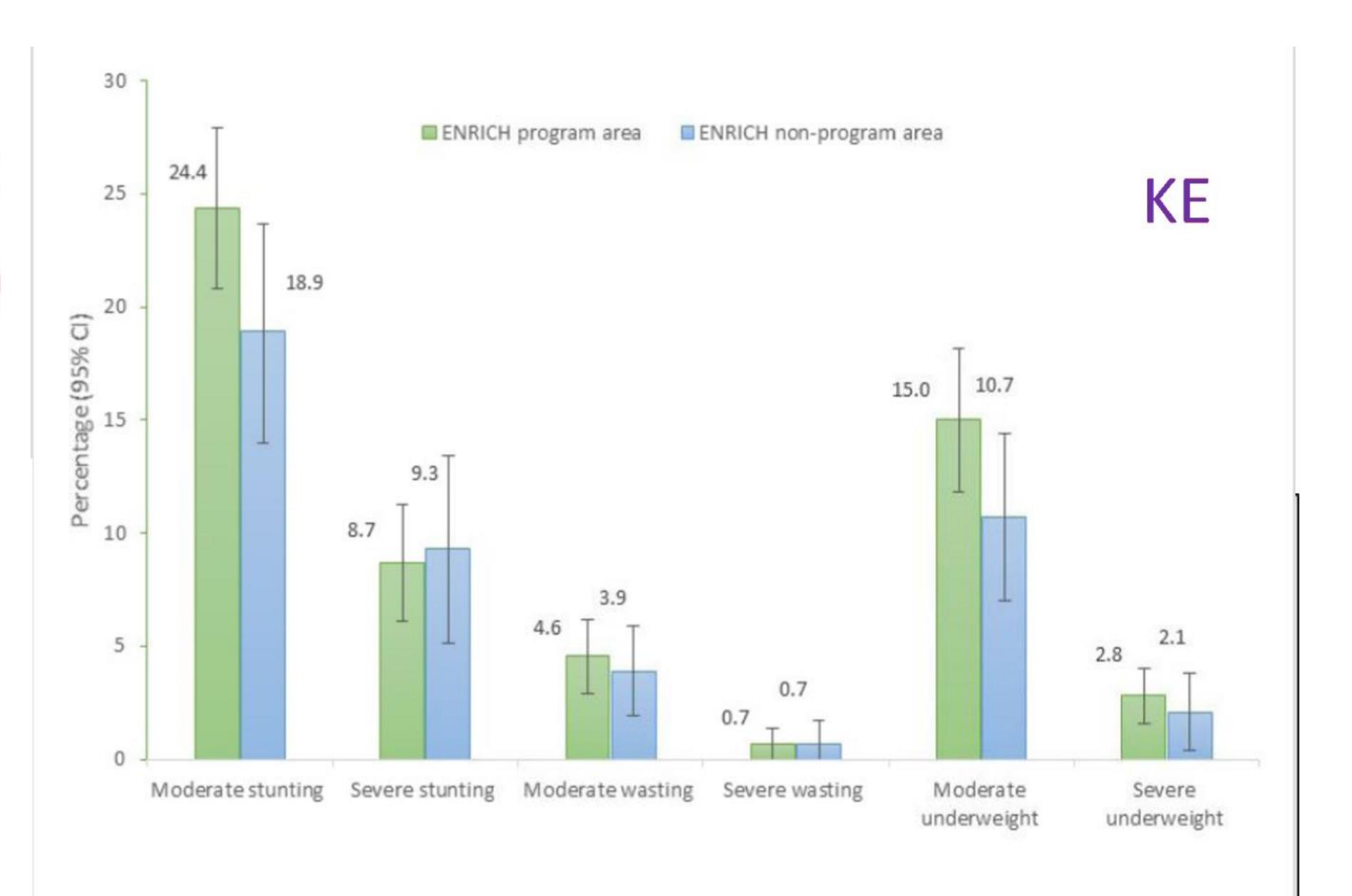
- Undernutrition: Young kids stunted, wasted, underweight
- Service coverage: child weighing
 - Poverty: Household food insecurity
 - WASH: Improved water, toilets, handwashing
- IYCF: Breast + complementary feeding, diet diversity

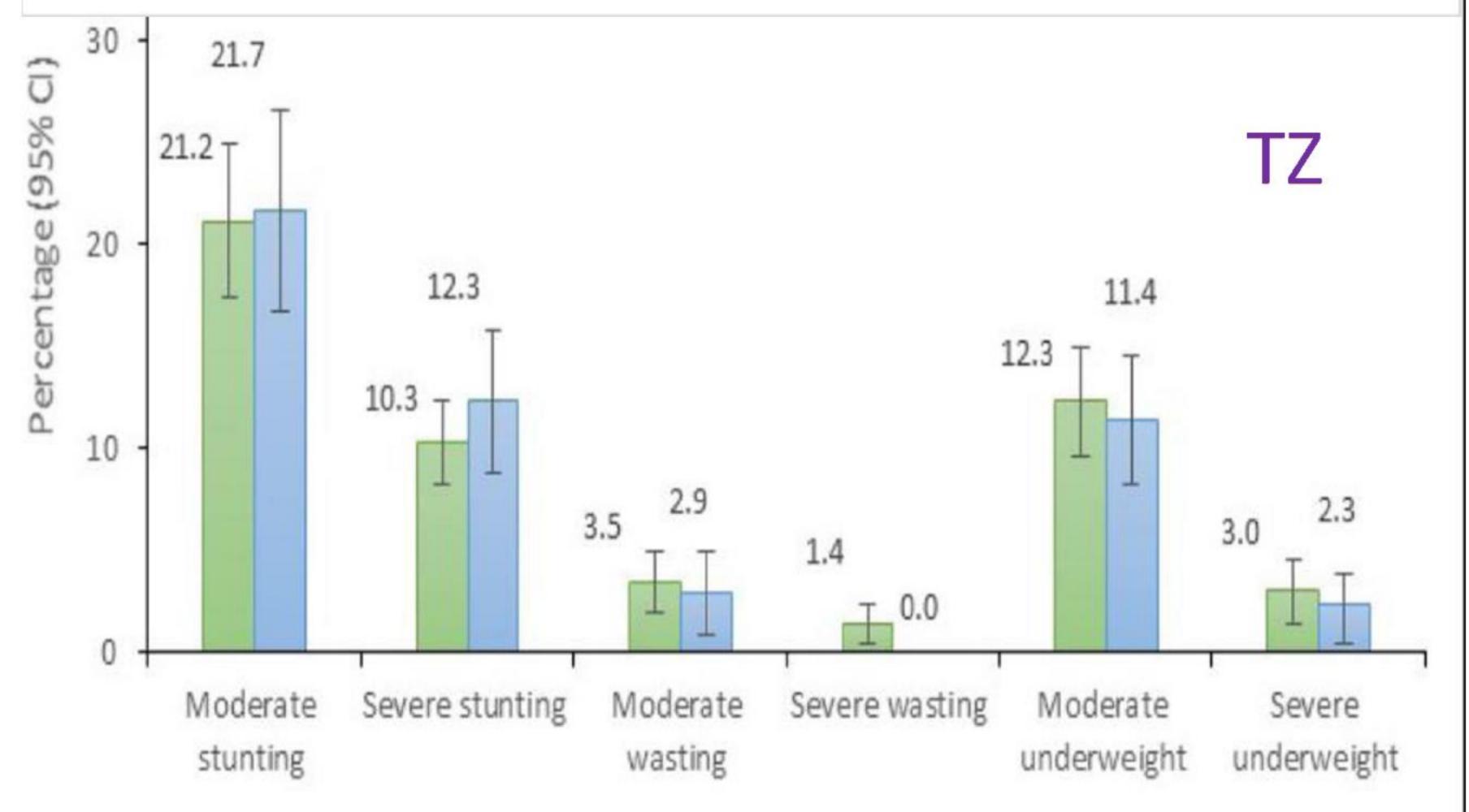
UNDERNUTRITION: CHILDREN 6-59 MO

EAST AFRICA

- > 30% STUNTING
- ~ 5% WASTING
- > 15 % UNDERWEIGHT

SIMILAR HIGH RATES
ABOVE NATIONAL AVERAGES



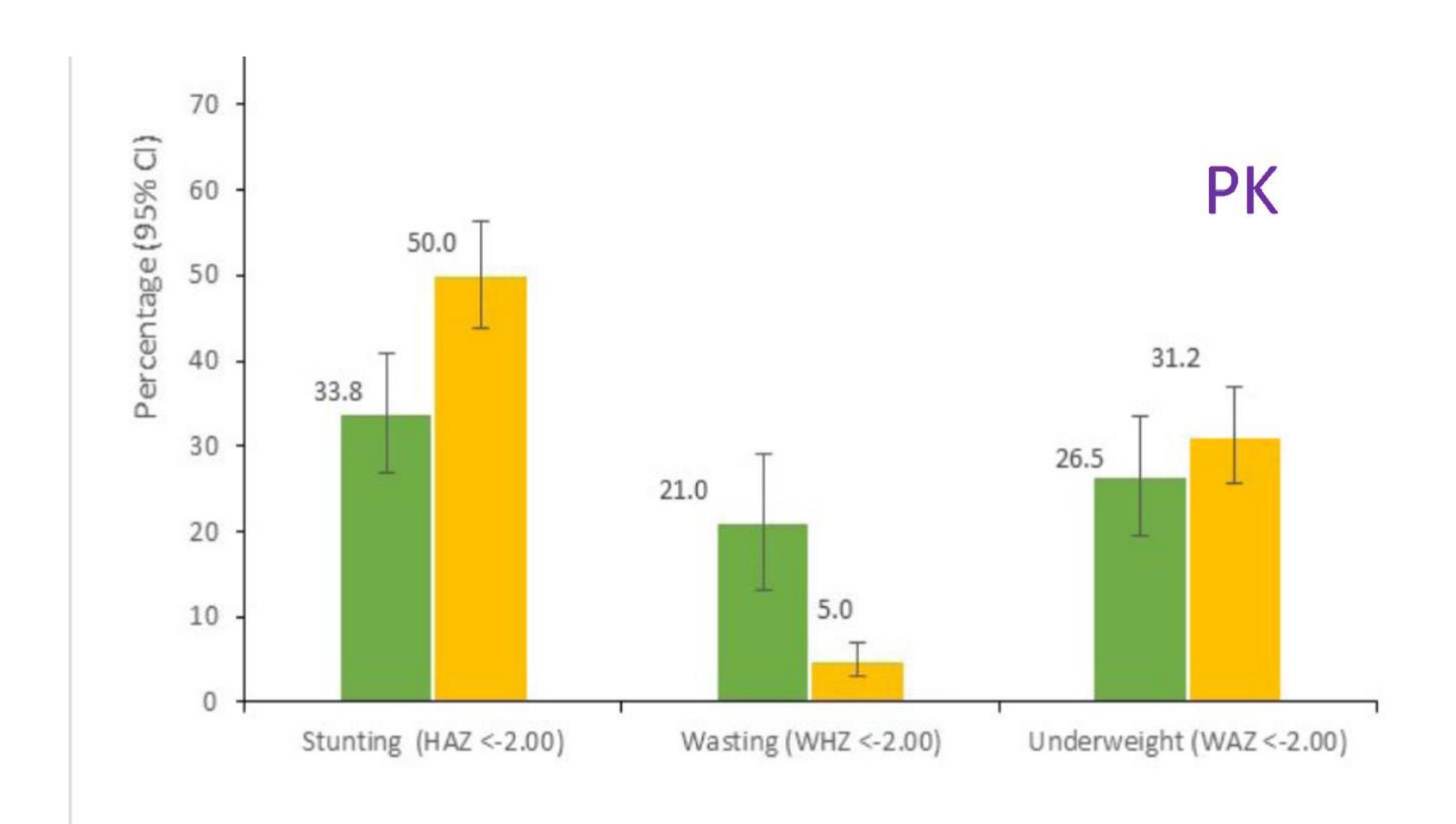


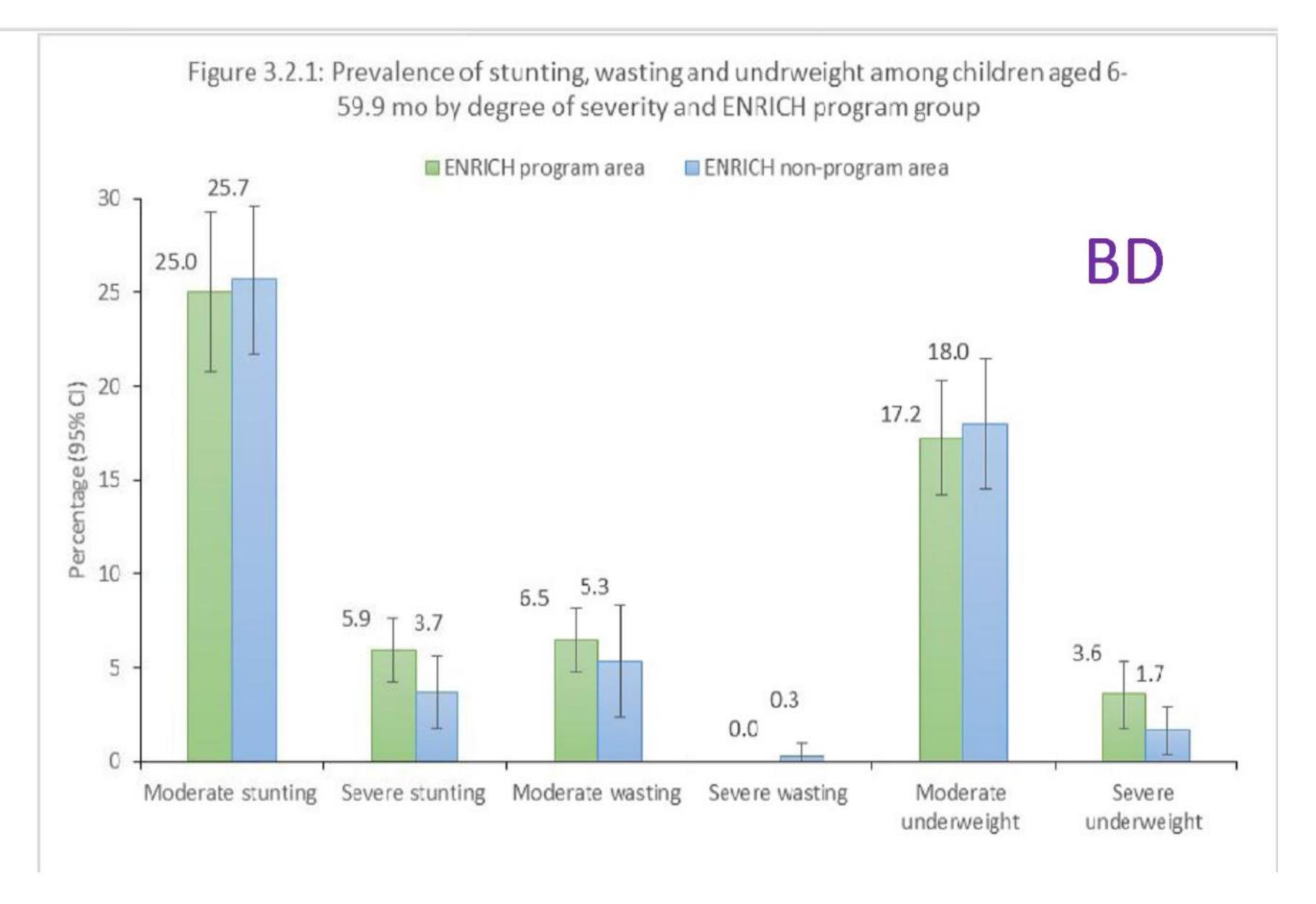
UNDERNUTRITION: CHILDREN 6-59 MO

SOUTH ASIA

- > 30% STUNTING
- > 5% WASTING
- > 15 % UNDERWEIGHT

EXTREMELY HIGH IN PAKISTAN

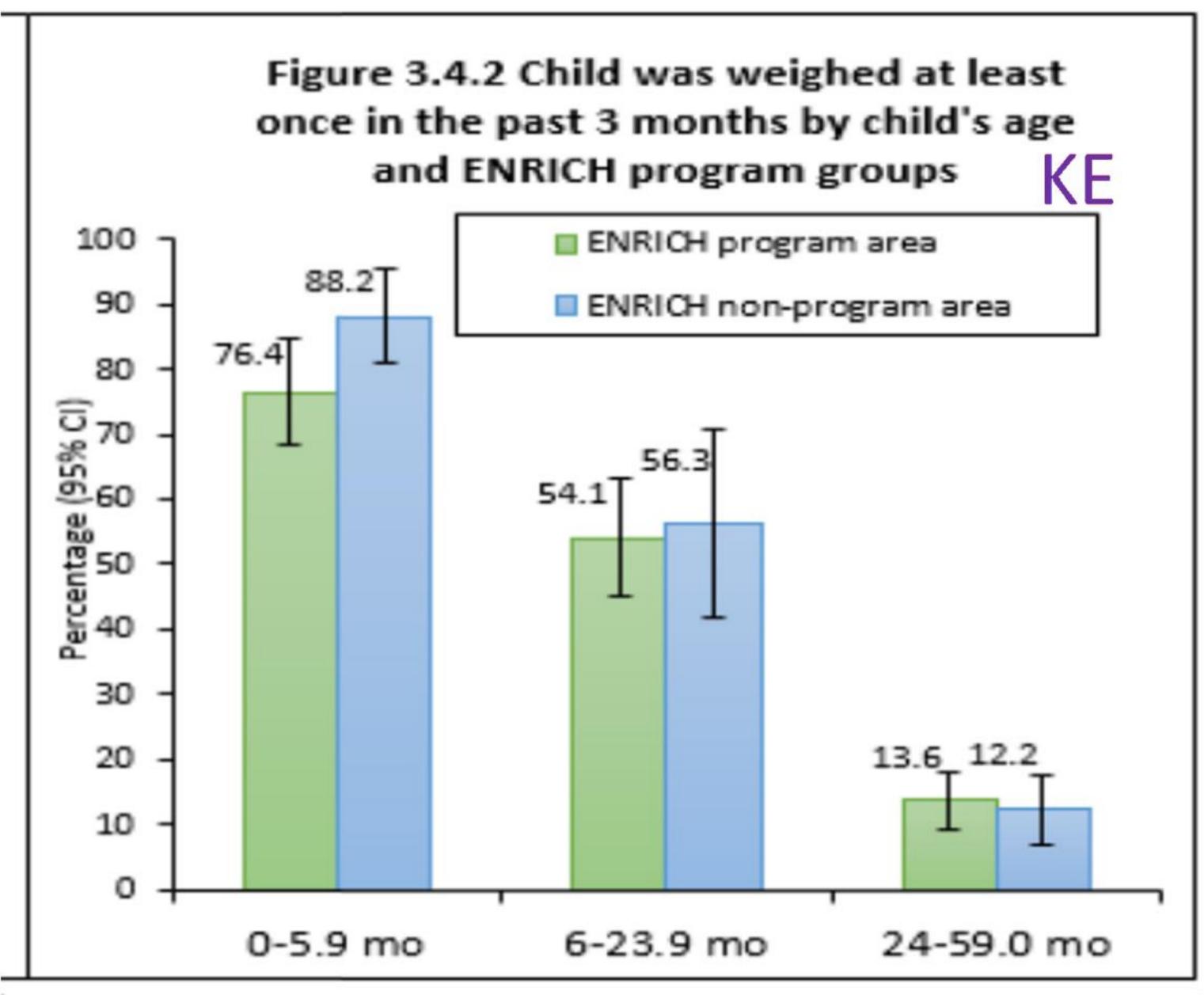


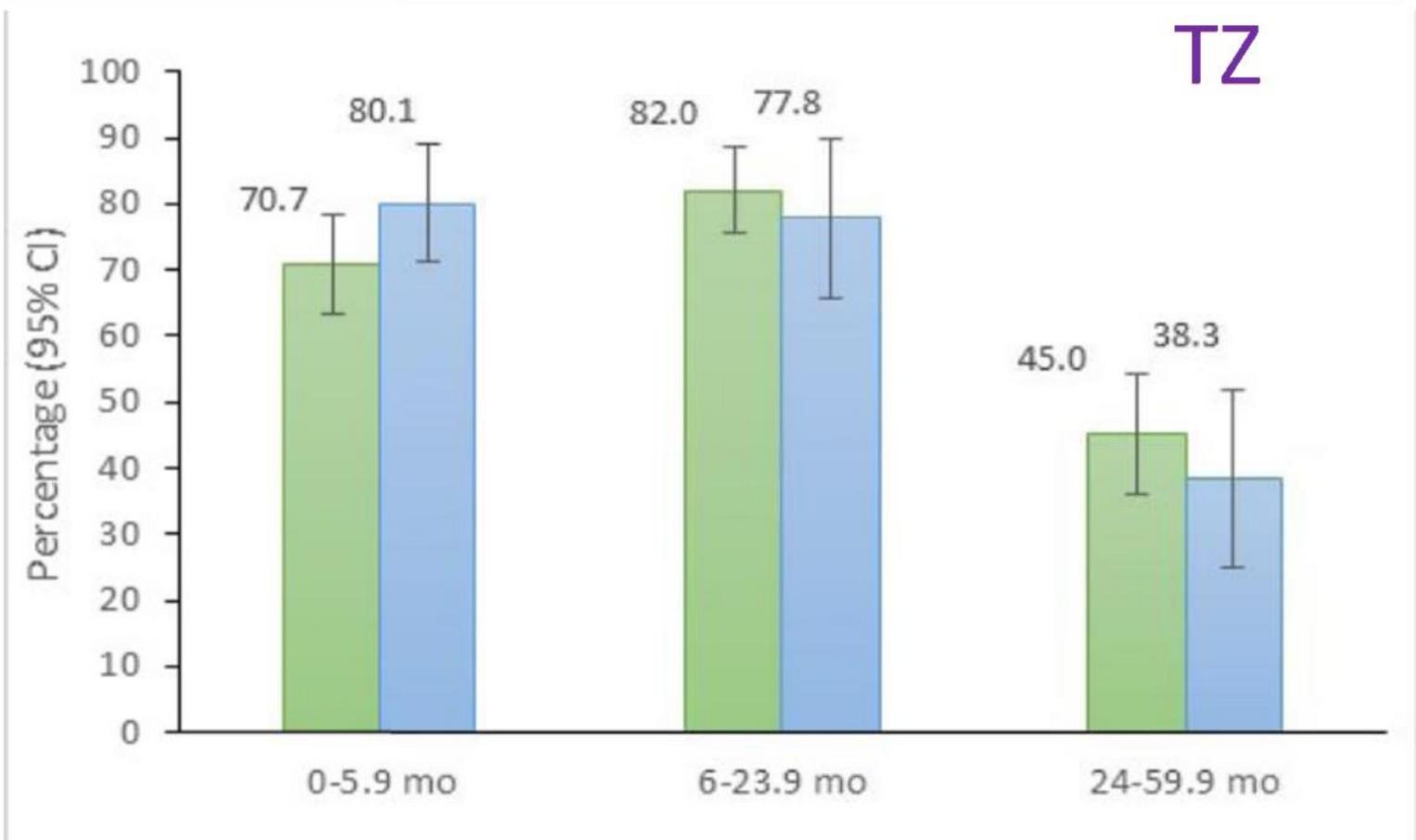


SERVICE COVERAGE: CHILD WEIGHT MEASURED W/I LAST 3 MO

EAST AFRICA

BELOW 100%

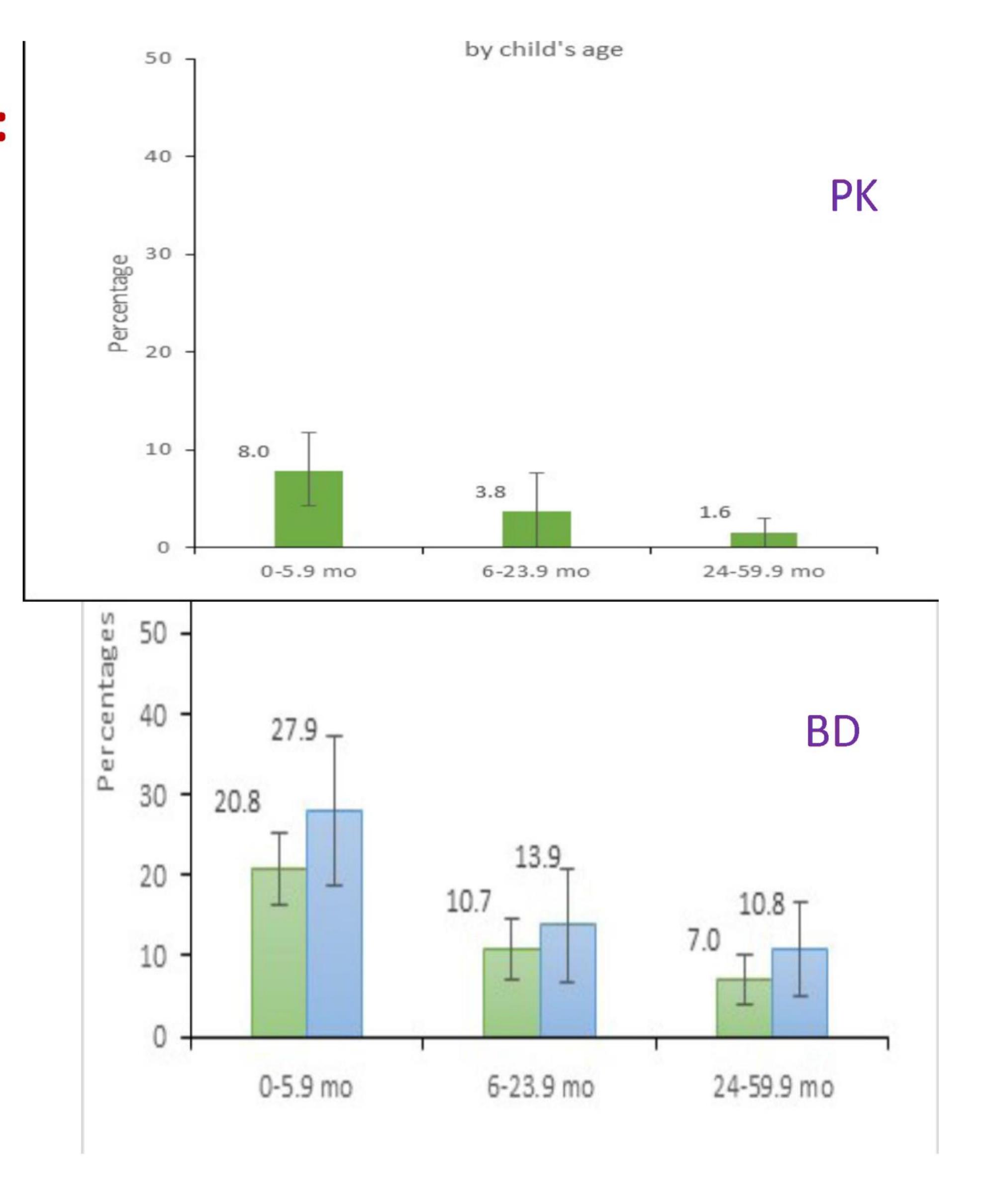




SERVICE COVERAGE: CHILD WEIGHT MEASURED W/I LAST 3 MO

SOUTH ASIA

BELOW 10%



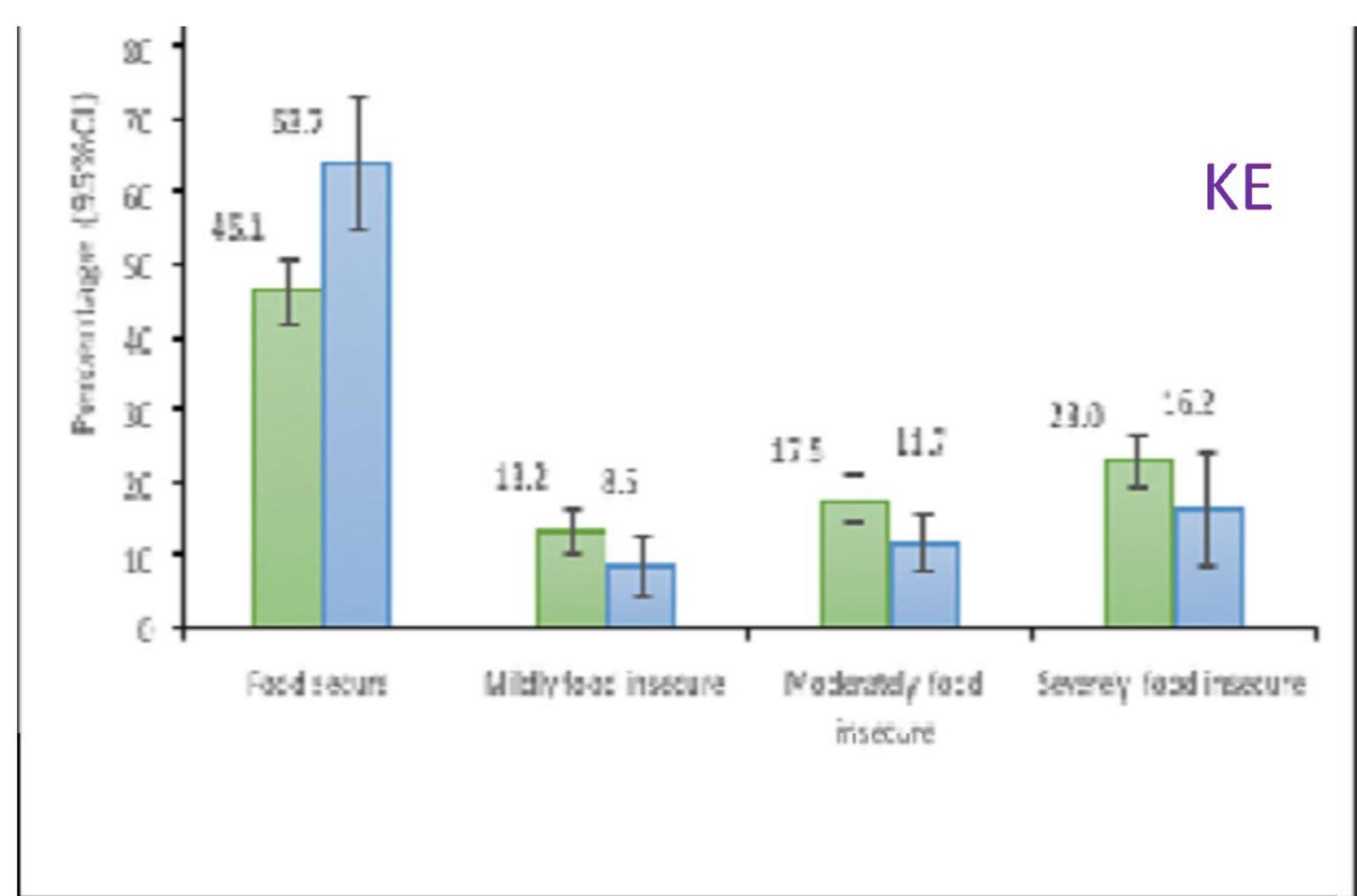
HOUSEHOLD FOOD INSECURITY

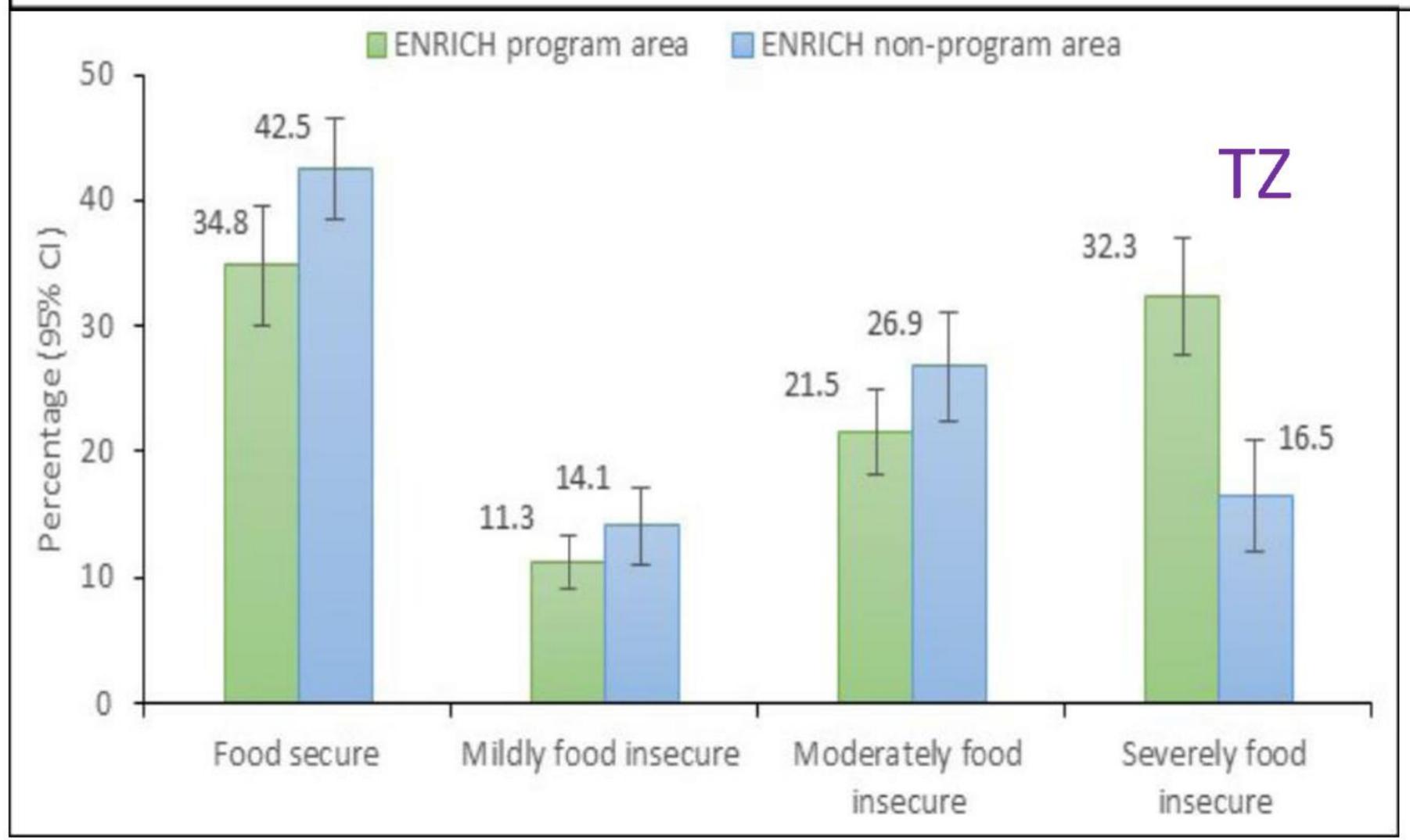
EAST AFRICA

LESS THAN HALF OF ALL HH
WITH YOUNG KIDS ARE
FOOD SECURE

FOOD INSECURITY RATES HIGH IN PROGRAM AREAS

HIGHEST IN TANZANIA





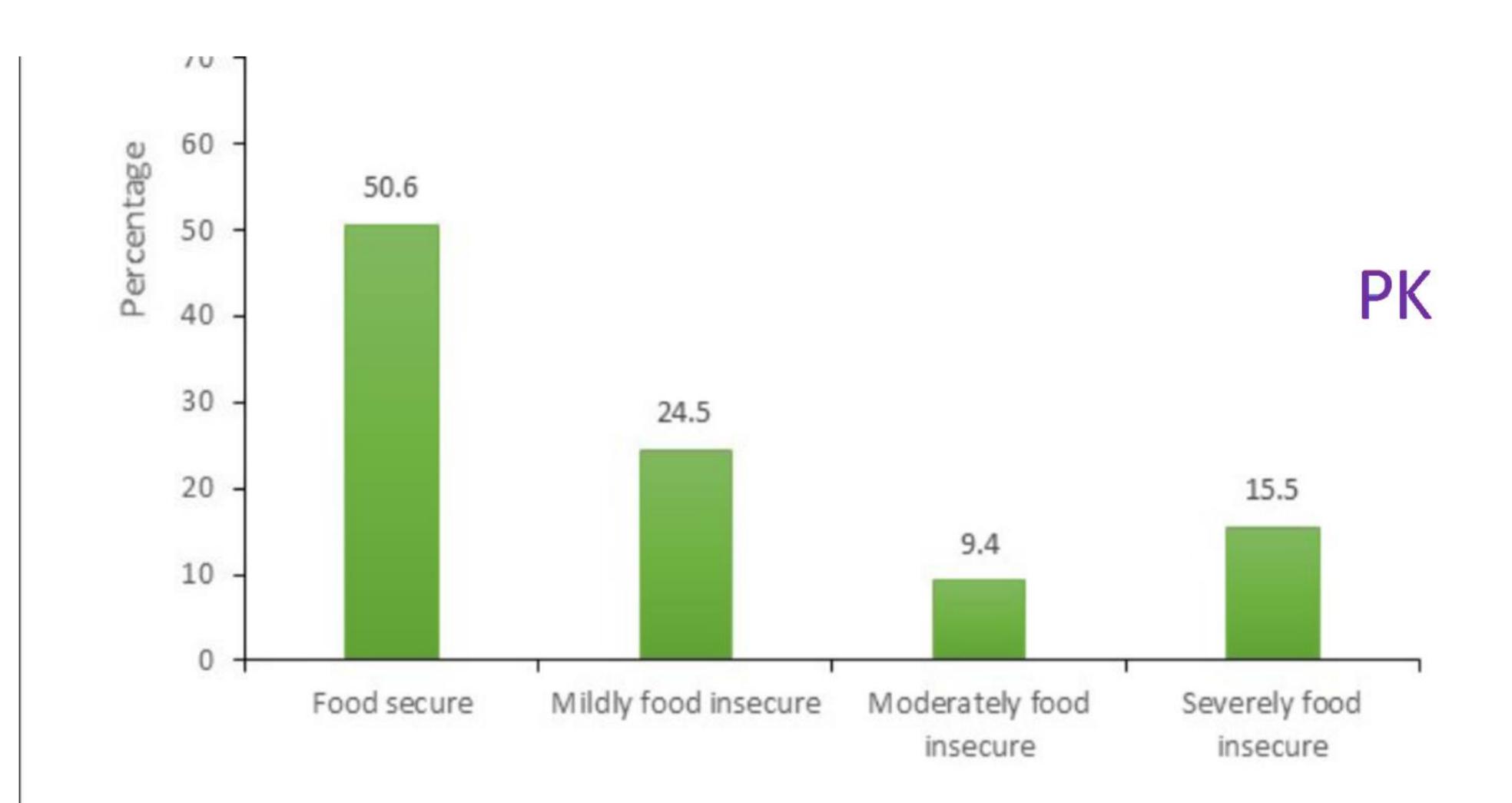
HOUSEHOLD FOOD INSECURITY

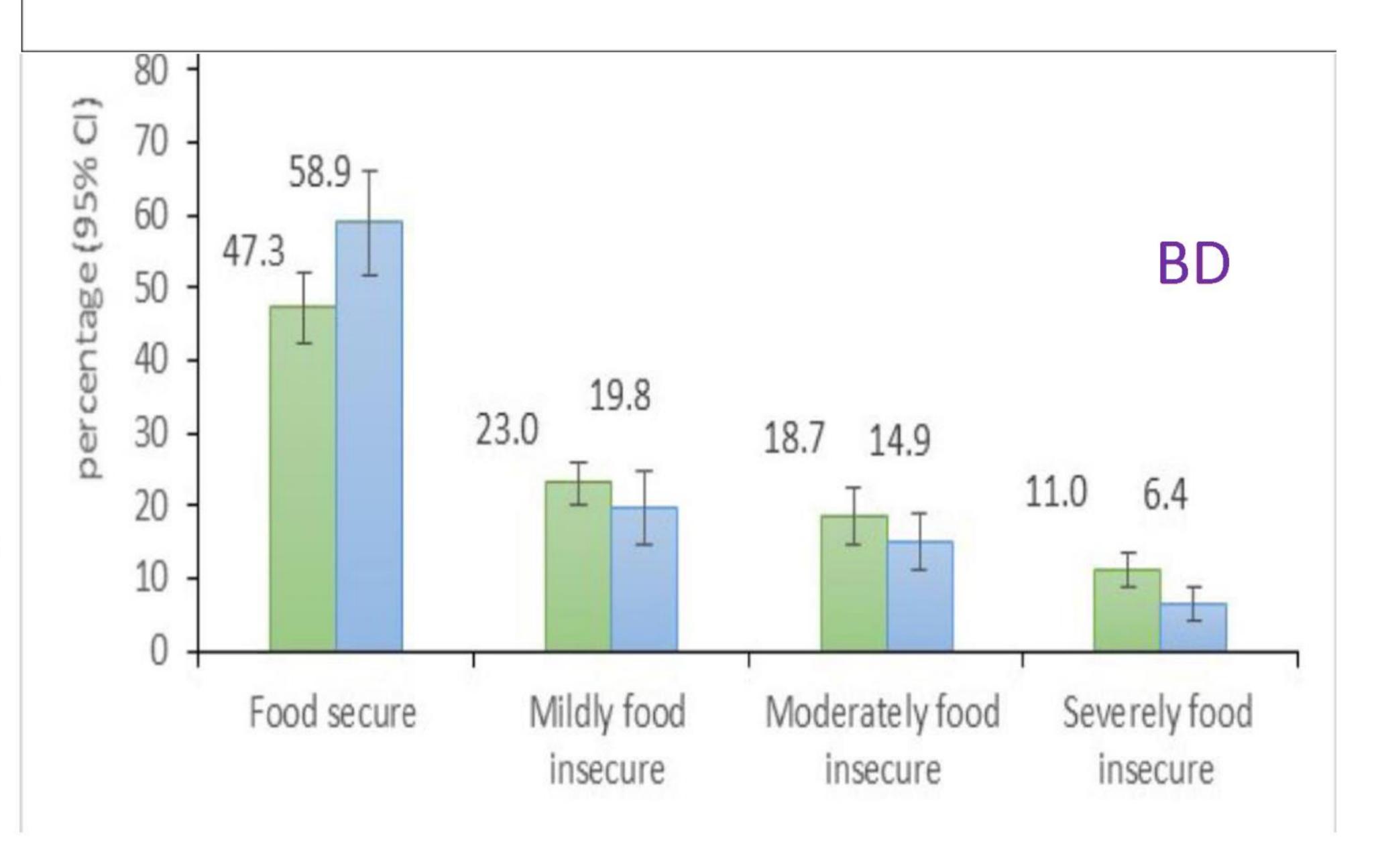
SOUTH ASIA

BARELY HALF OF ALL HH
WITH YOUNG KIDS ARE
FOOD SECURE

FOOD INSECURITY RATES HIGH IN PROGRAM AREAS

DIFFERENT SOCIAL GRADIENTS





WATER, SANITATION, WASH PRACTICES

EAST AFRICA

< 2/3 HH ACCESS IMPROVED WATER

< 20% IMPROVED TOILETS

< 60% BETTER HANDWASHING 100

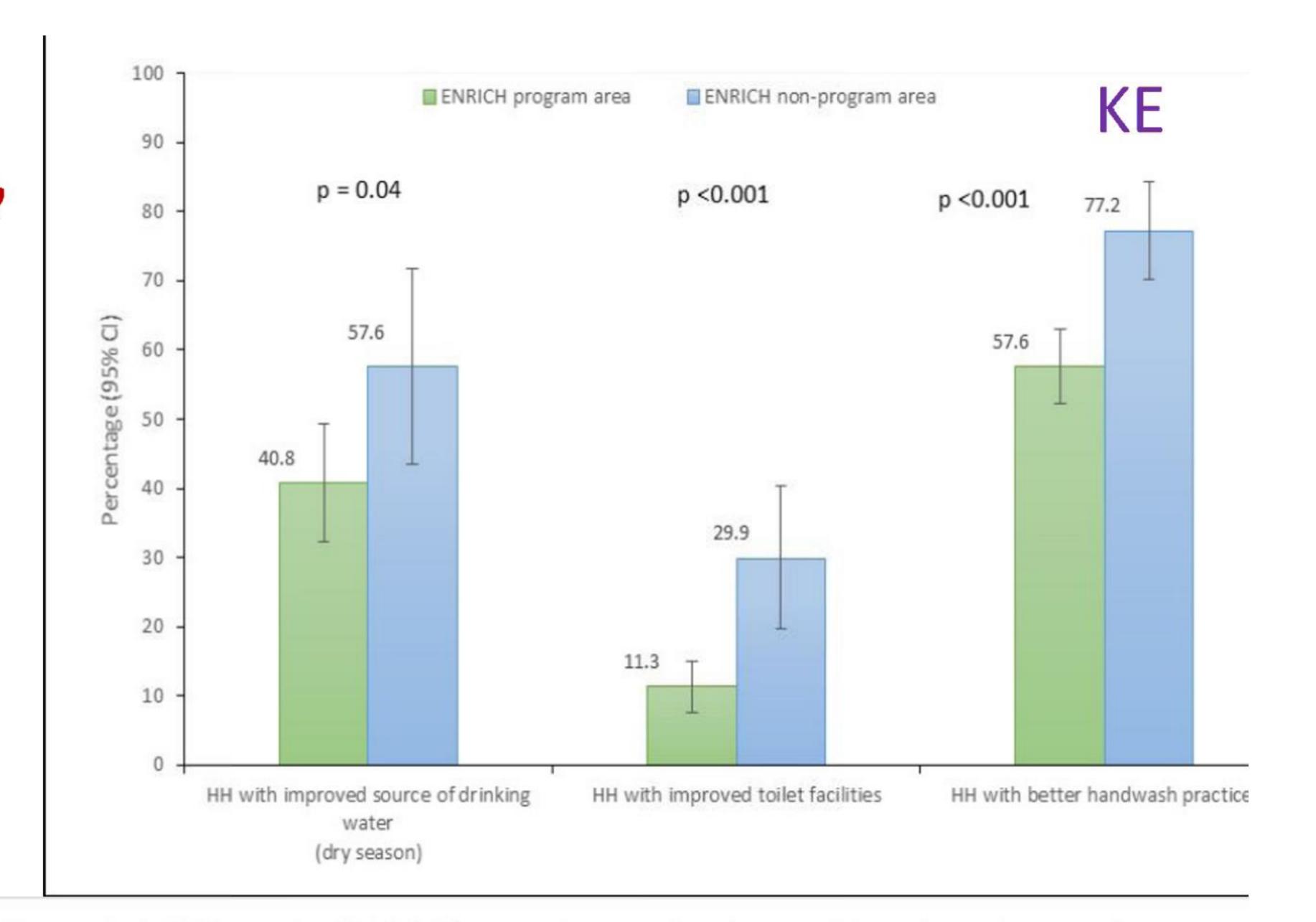


Figure 3.1.1 Household drinking water, sanitation and hand wash practice among mothers/caregivers of children aged 0-23.9 mo ENRICH non-program area ENRICH program area 70.5 73.6_T 80 66.7 57.8 70 60 43.3 ± 36.7 50 40 30 16.3 12.4 20 10 HH with improved HH with improved HH with improved toilet HH with better source of drinking water source of drinking water facilities handwashing practice (Dry Season) (Rainy Season)

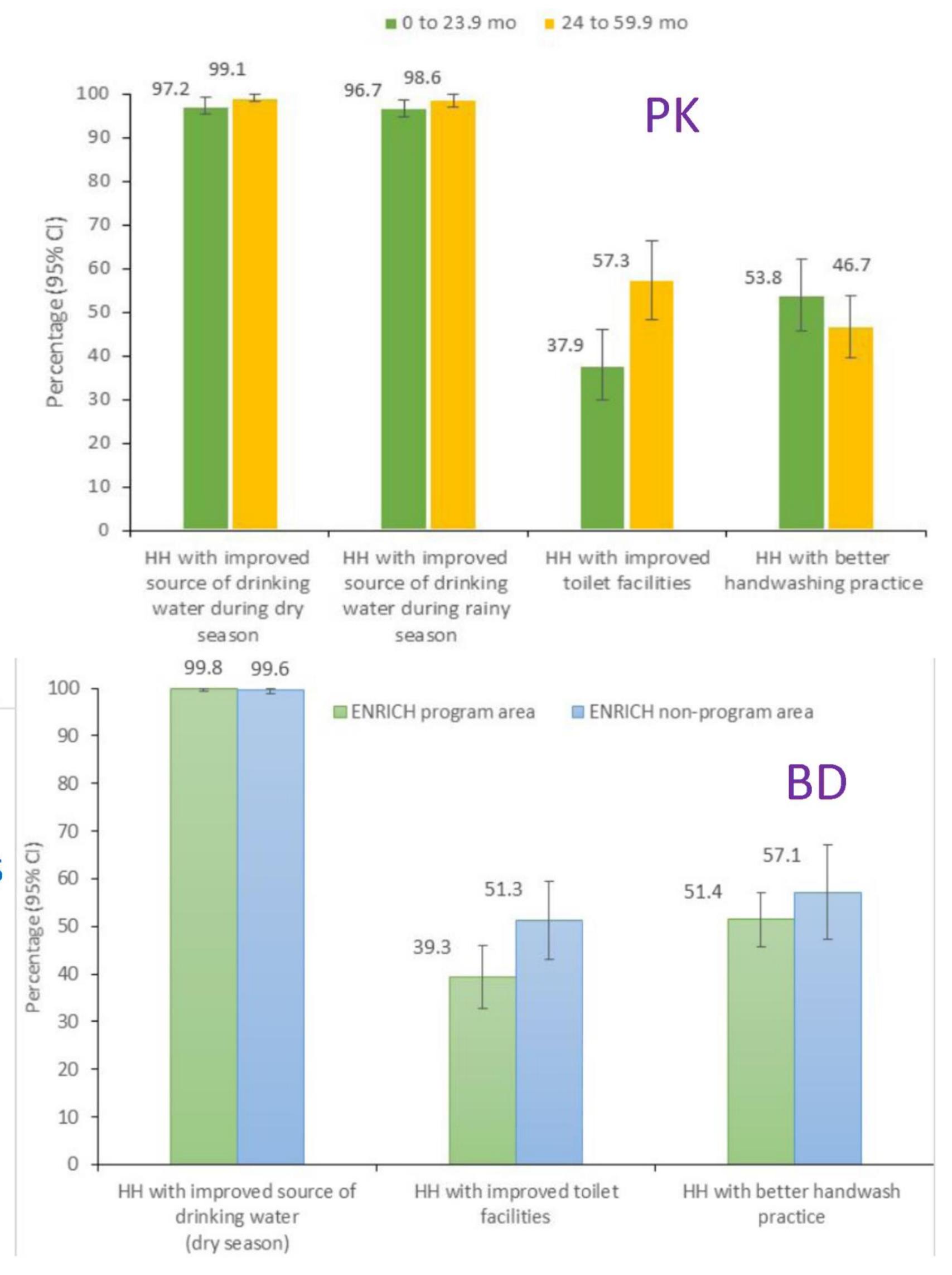
WATER, SANITATION, WASH PRACTICES

SOUTH ASIA

> 95% ACCESS IMPROVED WATER

<50% IMPROVED TOILETS

~50% BETTER HANDWASHING PRACTICES



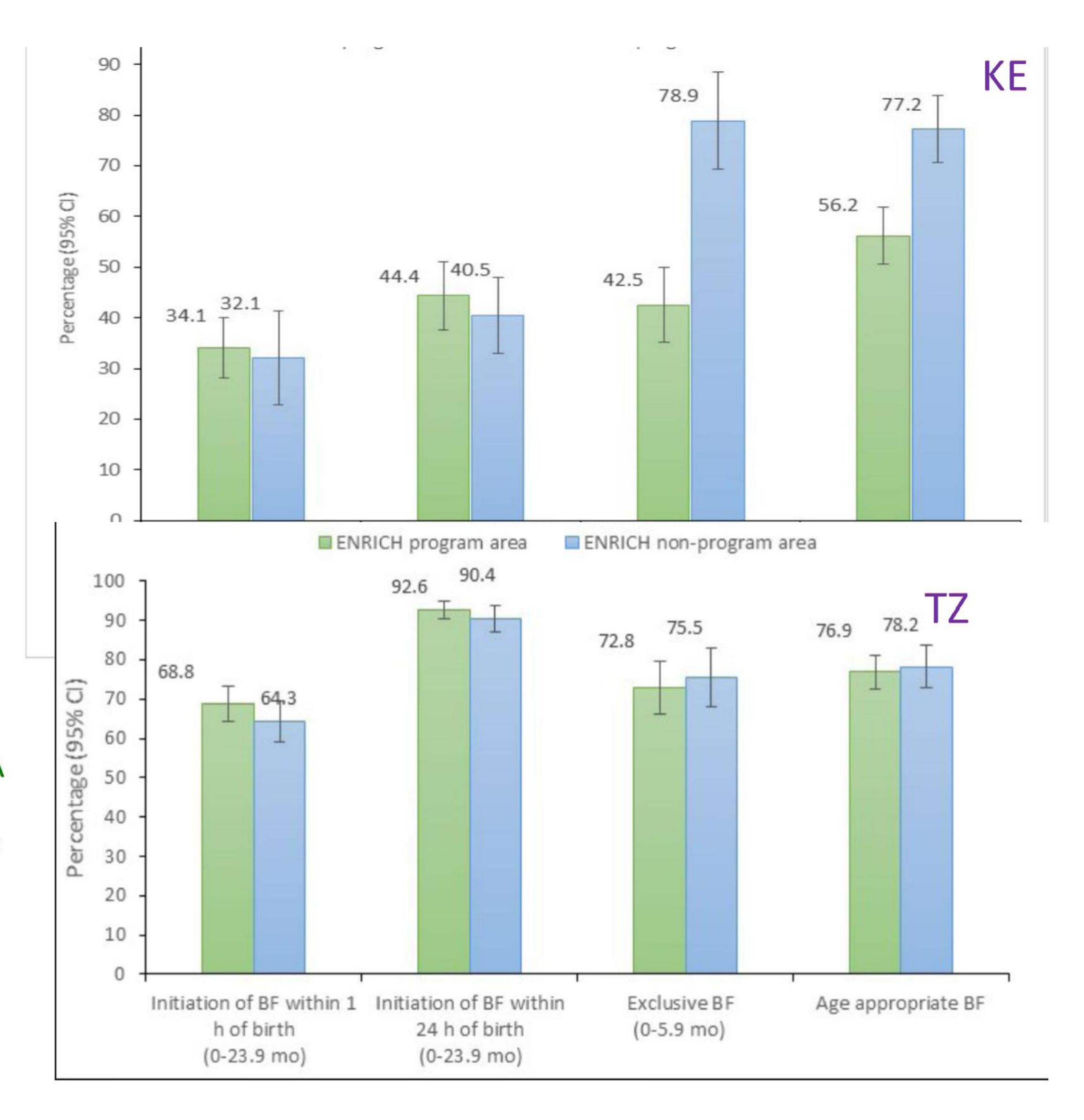
BREAST FEEDING, 0-24 MO

EAST AFRICA

HIGH RATES

LIMITED TIMELY
INITIATION, ESP. KENYA

NEED TO PROTECT EBF



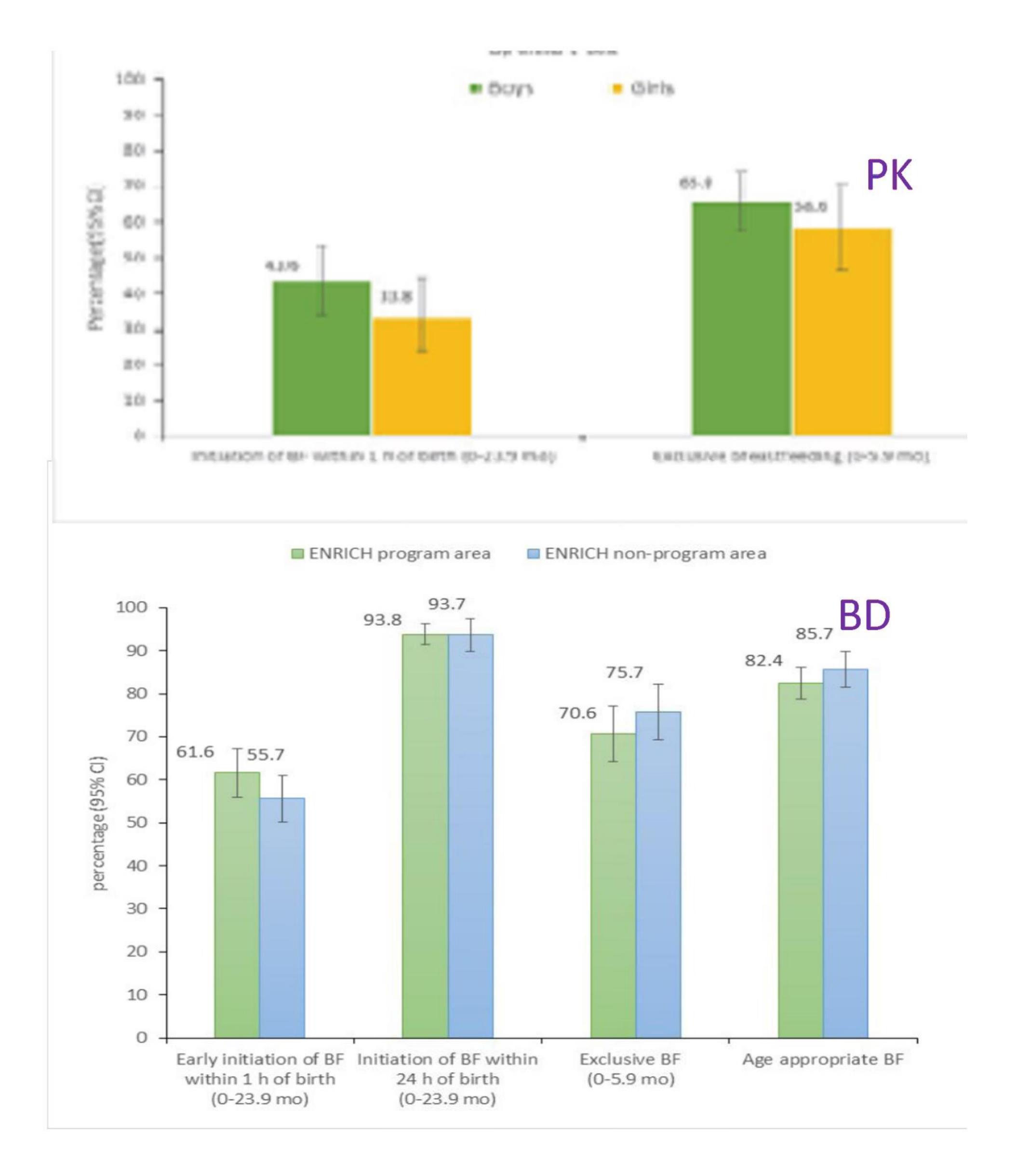
BREAST FEEDING, 0-24 MO

SOUTH ASIA

HIGH RATES

LIMITED TIMELY INITIATION

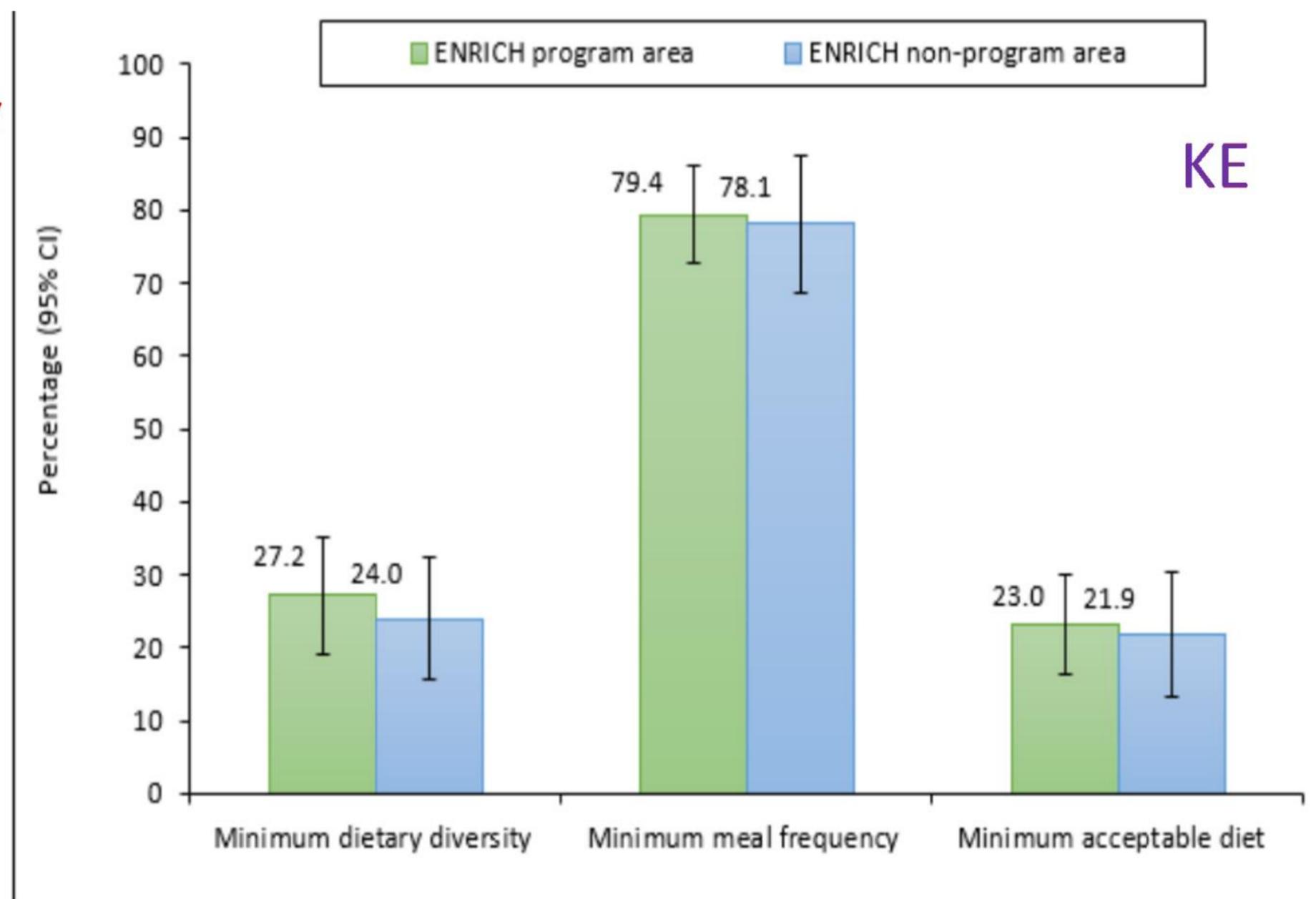
NEED TO PROTECT EBF

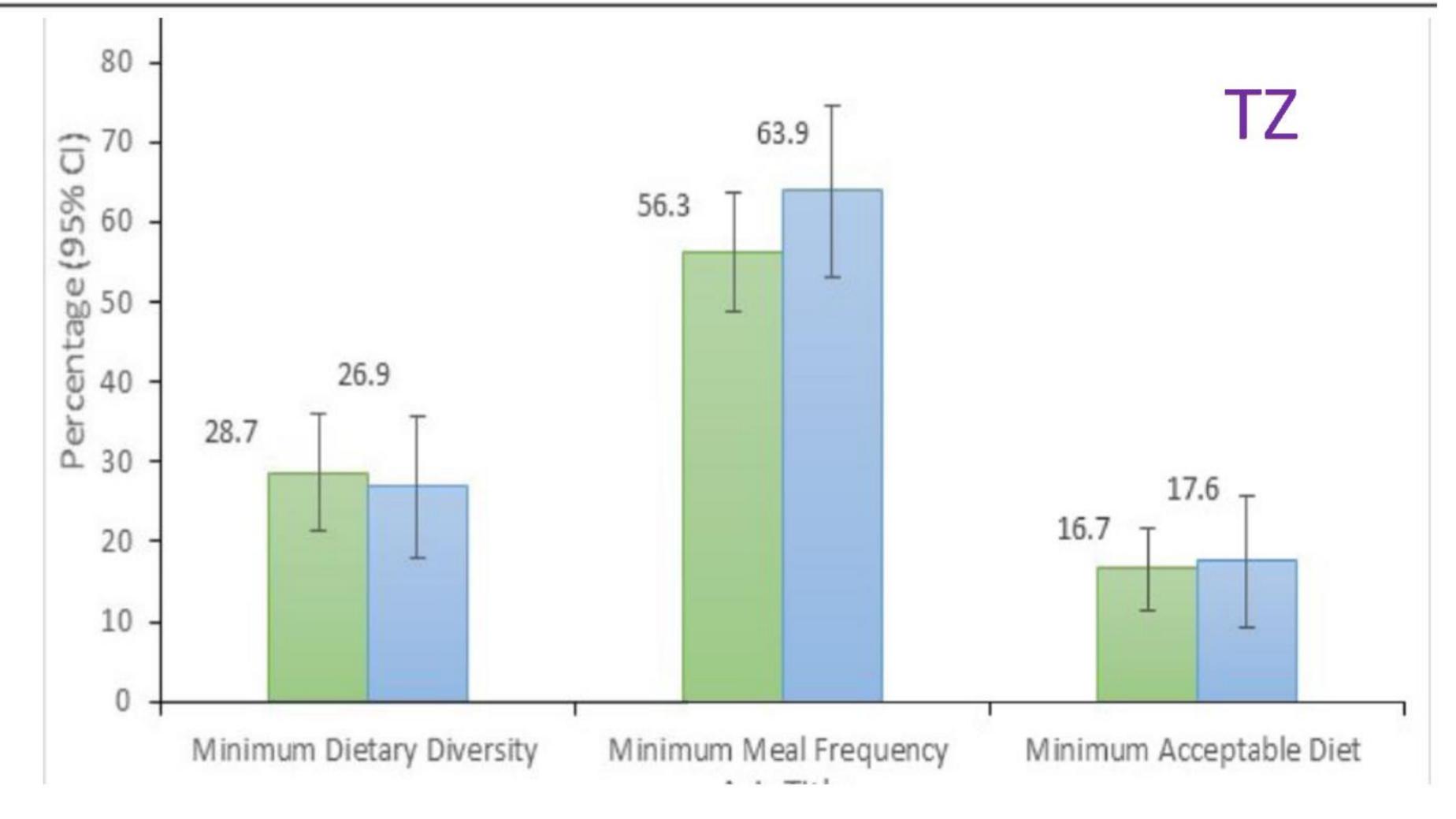


COMPLEMENTARY FEEDING

EAST AFRICA

FEW KIDS MEET MINIMUM
DIETARY DIVERSITY,
ACCEPTABLE DIET,
MEAL FREQUENCY



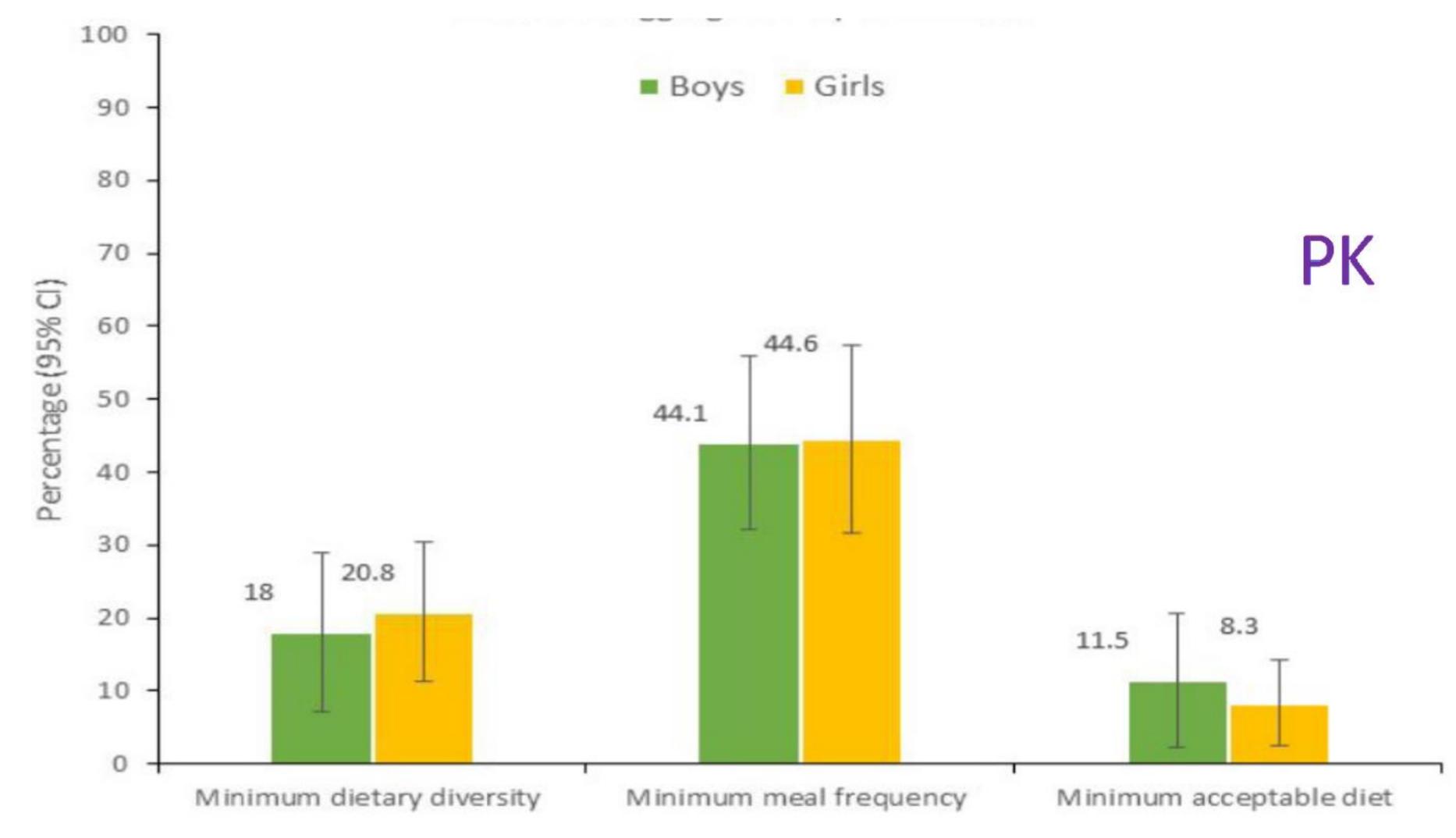


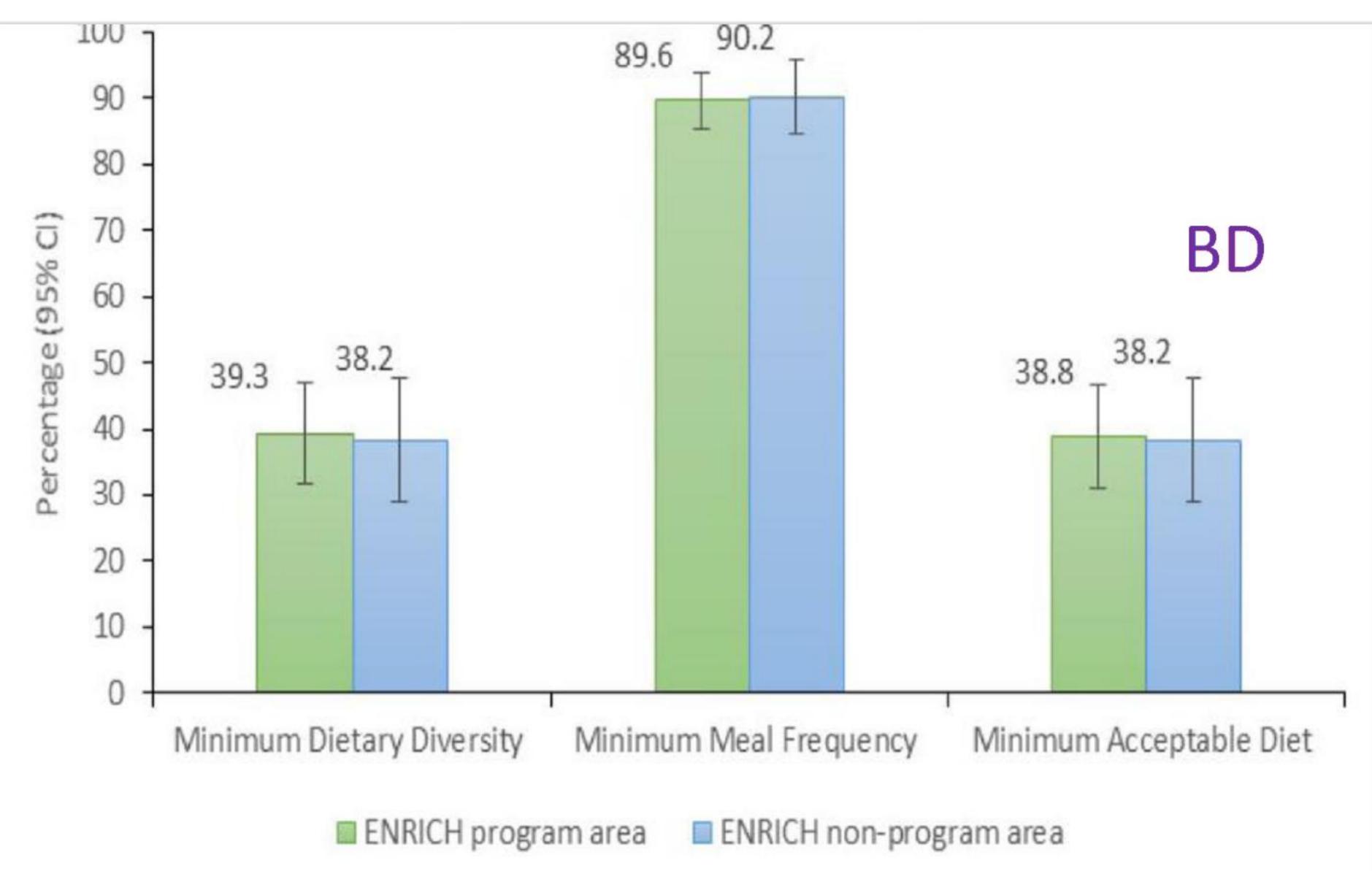
COMPLEMENTARY FEEDING

SOUTH ASIA

FEW KIDS MEET MINIMUM
DIETARY DIVERSITY,
ACCEPTABLE DIET,
MEAL FREQUENCY (PAKISTAN)

LITTLE APPARENT GENDER BIAS













Overview of baseline study activities



Analysis and key findings



Recommendations





RECOMMENDATIONS FOR PROGRAM DESIGN

Opportunities to address several key underlying causes of malnutrition operate in all the ENRICH program areas, e.g.

- Weak prenatal, newborn and postnatal service provision
- Assessed health facility needs largely match PIP
- Low coverage of specific services, contacts, information
- High food insecurity, Low maternal child dietary diversity
- Inadequacy of toilets, handwashing, seasonal water
- Potential for improved practices: hygiene + child diet
- Low maternal education, Low female decision making

THANK YOU

And thanks to the many participants, and to individuals, organizations and host governments...

SPECIAL THANKS: CANADA-BASED PERSONS

University of Toronto (UofT)

Marieme Lo, Professor of Women and Gender Studies

Rehim Moineddin, Professor of Epidemiology

Lee Vernich, Director, Office of Research Development and Support Services

Fan Zhang, Research Finance Officer

Shiela van Landeghem, Research Funding Manager, Research Services Office

Daniel Gyewu, Research Ethics Manager

Drew Gyorke, Director, Agency & Foundation Funding, Research Services Office

World Vision Canada (WVC)

Aaron Mok, Program Information Manager, Evidence & Impact

Moses Warukira, Finance Officer)

Abena Thomas, ENRICH Grant Manager / M&E Advisor

Melanie Gillespie, Team Lead, Monitoring & Evaluation, Grant Acquisition & Management

Dr. Asrat Dibaba, Chief of Party, ENRICH Program

SPECIAL THANKS: ENRICH KENYA (2016-17)

Egerton University (EU)

Dr Elizabeth Kamau-Mbuthia, Co-Pl

Catherine Sarange, Field Supervisor

Samwel Mbugua, Senior Research Coordinator

World Vision Kenya (WVK)

Linda Mdhune, Project Manager ENRICH

Godfrey Wapangana, Project Nutrition Officer ENRICH

Moses Kiptugen, Area Programmes Manager, Elgeyo

Marakwet Cluster

SPECIAL THANKS: ENRICH TANZANIA (2016-17)

Enhance Tanzania Foundation (ENTAF)

Hadija Kweka, Executive Director),

Advocatus Kakorozya, Project Coordinator

Fred Lwillajr, Field Supervisor

Neema Wilson, Field Supervisor

Kelvin Maokola, Josephine Shabani, Safina Juael, accounting support

Dr Sebalda Leshabari, technical and ethics advisor

World Vision Tanzania (WVT)

Pastory Ushindi, Monitoring & Evaluation Specialist

Rester Boniface, District Project Coordinator

Mwivano Malimbwi, Project Manager. ion & Management

SPECIAL THANKS: ENRICH BANGLADESH (2016-17)

James P Grant School of Public Health, BRAC University

Malbikar Sarker, Professor and Director of Research
Muhammad Jakir Hossain, Senior Manager, Finance & Accounts
Prof. Sabina Faiz Rashid, Dean
Priyanka Gayen, Sr. Research Associate
Imran Ahmed Chowdhury, Sr. Research Associate),
Razin Iqbal Kabir, Sr. Research Associate),
Afzal Aftab, Research Coordinator

World Vision Bangladesh (WVB)

Md. Kamruzzaman, Senior Grants Management Coordinator Begum Zerina Reshma, Project Manager ENRICH Chandan C. Gomes, Guest Relations Event Mgt-Coordinator Md. Al Mamun Hossain (Regional Security Officer)

INDIVIDUALS: ENRICH PAKISTAN (2016-17)

Aga Khan University (AKUP)

Dr **Syed Muhammad Ali Turab,** Co-PI and Technical and Monitoring Lead **Mukhtiar Channa, f**ield coordinator

Mr. Ikram Maznani (Research Associate, gender assessment

Dr. Tariq Ahmad Samejo, Research Associate, Health Facility Assessment

Mr. Basharat Hussain, Research Associate, Household survey

Mr. Imtiaz Hussain, Senior Manager Research).

World Vision International Pakistan (WVK)

Touseef Abbas (Project Manager – ENRICH, Pakistan).