Multi-sectoral Nutrition Overview

A compilation of materials from selected countries

August 2013



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Telling the 'nutrition story'

The complete (multi-sectoral) story – in a way that connects the dots, captures the attention of decision-makers, appeals to technical practitioners, fosters consensus among diverse stakeholders on the nutrition issues of the country, and ultimately, prompts action.

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PREFACE

Many of the highlights included in this booklet were emerging materials that had yet to be discussed in-depth and validated in-country.

The process of establishing consensus among partners is equally important as the outputs of analytical exercises, such as the Multi-sectoral Nutrition Overview.

1: BASIC NUTRITION TRENDS

Stunting, wasting, underweight & micronutrient deficiency disorders

Alarming levels and numbers of underweight, wasted and stunted children 6-59 months in Bangladesh



1.BBS Population Census 2001, BBS (Nationwide projection) 2010

2.HFSNA 2009 (WHO standard 2006); 3. Approximately 8 million children (<5 y) are underweight according to NCHS/CDC/WHP 1977

4. Prevalence of under-nutrition is higher among the children of 6-23 months due to poor quantity & quality of feeding practices, 10.8% of total population are the children of 6-59 months age group (HFSNA 2009)

Levels of child undernutrition have been dropping in Ethiopia since 2005 with considerable progress in underweight and stunting

Summarizing anthropometric trends over time, and measuring against MDG1 target 2 & 'critical' population thresholds

Underweight children <5



Stunted children <5



Wasted children <5



*Note: Prevalence recalculated using 2006 WHO growth standards

Source: DHS (2011); DHS (2005); DHS (2000); Other NS (1992); WHO Conversion tool from NCHS reference into estimates based on the WHO Child Growth Standards

High prevalence of all types of undernutrition throughout Bangladesh



Highest prevalence of wasting in Eastern Terai, though largest number of wasted children found in Central Region of Nepal



Largest numbers of malnourished children in Northern region but increasing in Southern and Eastern regions of Sierra Leone



Note: SMART 2010 prevalence data provided for children 6-59 months. Absolute numbers for children 0-59 months using SMART 2010 prevalence rates for children 6-59 months. Source: DHS, 2009; SMART Survey, 2010; REACH analysis.

Despite reductions in stunting from 2008 to 2011, wasting actually increased in many of the same provinces in Mozambique



Decrease

5

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In 2011, largest numbers of children with chronic (stunting) and acute (wasting) malnutrition found in the same three regions of Ethiopia



In Ethiopia, levels of anaemia are decreasing among both children and women though child anaemia remains a serious public health issue



2: CAUSES OF MALNUTRITION

Conceptual framework for analysing the causes of malnutrition



Food Security

Dietary diversification, food preservation, fortification and livelihoods

Malnutrition and food insecurity patterns are somewhat different by district in Sierra Leone



Source: DHS, 2009; SMART Survey, 2010; REACH analysis.

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> 70

40 - 55

Percentage of households within poor and

borderline food consumption

District

Province

Mid-Western, Far-Western regions are most food insecure and also have highest prevalence of stunting & wasting in Nepal



The price of the basic food basket is prohibitively high for over half of Mozambique's population, compromising food access



3.6 kg fruits

*SIMA/MINAG June/July 2009

total monthly income, calling for social protection measures

In Sierra Leone, income levels and livelihoods affect households' food security and nutritional status



Source: CFSVA, 2011

Women involved farming systems but face many challenges to access resources in Sierra Leone

Profiling gender issues in relation to food systems, among other factors

Time constraints:

- · Main reason women do not join farmers organisation due to lack of time
- Insufficient time for activities such as weeding affects productivity and yields
- Time-consuming manual post-harvest handling and processing activities but limited access to labour-saving technologies

Low levels of education and limited financial literacy inhibit women from engaging in marketing activities, accessing credit

Women often have to go through men to access land, negotiate prices and deals, or technology/inputs

Limited influence or control of household resources:

- Women have little control over income, particularly for high-value crops
- Many women find additional income generating activities or sell unprocessed rice or other products at low prices to generate 'fast cash' to meet daily needs

Household use of iodized salt is on the rise, but on average, only 35% of Ghanaian households consume adequately iodised salt



Northern, Volta and Upper East regions with greatest room for improvement.

Care Practices

Exclusive breastfeeding, adequate complementary feeding & personal hygiene

Despite initial improvement in early initiation and exclusive breastfeeding, rates remain low in Mali

Looking at infant feeding trends, particularly early initiation of breastfeeding and exclusive breastfeeding

Fluctuating levels of Exclusive Breastfeeding (EBF) with a sharp decline from 2006 to 2010

In 2010, just 6.5% were EBF at 4-5 months old, with many also receiving other substances, increasing the risk of illness due to contamination



In Uganda, little progress made in exclusive breastfeeding from 2006 to 2011, calling for further inquiry



Most children do not receive timely introduction of complementary foods in Ethiopia

Presenting data on the introduction of complementary foods within the context of international guidelines

Complementary feeding practices children 6-23 months (2011)



International guidelines promote complementary foods to be introduced at 6 months of age but most children in Ethiopia receive them either too early or late.

- Nearly 20% of children receive complementary foods earlier
- Nearly 50% of children start eating complementary foods later

Central and Mid-Western regions of Nepal with *lowest* percentage of children given recommended IYCF practices also had some of *highest* severe stunting levels in 2011



Health: Services & Environment

Healthcare, micronutrient supplementation, water and sanitation

Pregnant women generally receive skilled antenatal care but start too late and don't complete the full course in both urban and rural areas of Uganda

Recognizing that multiple nutrition actions are provided during ANC visits, and thus rely on quality, timely and uptake of ANC



- Uptake same in urban and rural areas
- Most antenatal care provided by skilled provider
- Less than 25% of women seek antenatal care in the first trimester of pregnancy
- About half of women have 4 or more ANC visits, with uptake higher in urban settings

All regions in Ghana improved Vitamin A coverage from 2006 to 2011, except Ashanti

Highlighting trends in coverage of Vitamin A supplementation to help achieve scale, where deemed necessary

% children ages 6-59 months who received high dose vitamin

A during last 6 months



- Uneven progress e.g. substantial increase for Greater Accra and nominal increases in Eastern and Upper West Regions.
- In 2011, 74% of Ghanaian children age 6-59 months received Vitamin A supplement.
- Three regions approaching or have achieved scale in 2011, with Upper East Region and Brong Ahafo reaching 90%

In Sierra Leone, access to improved water has only increased in urban areas, and rural households do not treat water appropriately

Recognizing access to clean water as an important component of addressing undernutrition

Use of an improved drinking water source has gradually improved over the last 6 years

But rural populations still lack access to safe water – Almost no use of HH water treatment methods (2008)

Non-improved water source

Use HWT treatment

65.6 16.6 14.4 4.2 Urban Rural

Source: MICS 2005, DHS, 2008, CFSVA 2011;

% population

A small proportion of Ugandan HHs have no facility, though access to improved sanitation facilities is low for rural and urban HHs



In Ghana, stunting is highest in regions where sanitation facilities are least accessible.



Basic Causes

Poverty, Education and Gender

Nepal's poorest households tend to be the most food insecure and have children that are stunted and/or wasted



Poverty reduction is not completely solving the problem of undernutrition in Bangladesh: 1 in 4 children in the highest wealth quintile is stunted

Highlighting the need to go beyond poverty reduction and to consider other social and economic development issues when addressing child undernutrition



% of stunted children <5



% of underweight children <5

Early marriage remains high in Mozambique, particularly in rural areas, though levels have been decreasing

Calling attention to early marriage in view of emerging linkages between teenage pregnancy and stunting

Women aged 20-24 who were married before they were 15 and 18 % 55.1 60 51.1 43.9 40 21.7 17.7* 14.4 20 0 DHS 2003 **MICS 2008** DHS 2011 Before 15 Before 18



*MICS 2008 for marriages under 15 includes women age 15-49

- Marriage before the age of 18⁺ is prohibited by law.
- = violation of children's rights and of the Convention of Elimination of all forms of Discrimination Against Women.
- Yet, early marriage is a widespread issue in Mozambique.
- Over half of women in rural areas are married before their 18th birthday

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Indicator DASHBOARD

A monitoring and advocacy tool

Indicator Dashboard Uganda example

Summarizing the nutrition situation in one page

		Indicator	Status National	Trend	Sev- erity	Target 2016	Status Western	Status Eastern
	Stunting	Prevalence of stunting among children <5 years old	33%			32%	44%	25%
oact	Wasting	Prevalence of wasting among children <5 years old	5%		0	N/A	3%	5%
Nutritional Imp	Underweight	Prevalence of underweight among children <5 years old	14%			10%	16%	10%
		Prevalence of underweight among non-pregnant women 15-49 years old (with BMI < 18.5 kg/m2)	12%			8%	8%	20%
	Iron deficiency	Prevalence of anaemia among children <5 years old	49%			50%	39%	55%
		Prevalence of anaemia among women 15-49 years old	23%		0	30%	17%	28%
Ises	Food Security	Percentage of households with poor or borderline food consumption	20%			N/A	18%	24%
ig Cai	Health	Percentage of newborns weighing <2.5 kg at birth	10%			9%	8%	7%
lerlyin	Care	Percentage of infants exclusively breastfed to age 6 months	63%			75%	???	???
nn		Prevalence of diarrhoea among children 6-59 months old	23%			N/A	19%	33%
Basic Causes	Education	Female literacy rate	64%			N/A	63%	49%
	Gender	Women's intra-household decision-making power	37%	N/A		N/A	37%	26%

Note: Statistics presented in red are above the established targets, whereas those presented in green are below such targets. Sources: DHS (2011 & 2006) / CFSVA (2013 & 2009)

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Mozambique Situation Analysis Dashboard, Urban-Rural

		Indicator	URBAN	Severity	Trend	RURAL	Severity	Trend			
Nutritional Impact	Stunting	Prevalence of stunting among children 6-59 mo. old	35.0 %		Ļ	45.5%		1			
	Wasting	GAM prevalence among children 6-59 mo. old	3.8 %	\bigcirc	\downarrow	6.7%	\bigcirc	Ļ			
		SAM prevalence among children 6-59 mo. old	1.4%	\bigcirc	\downarrow	2.4%		Ļ			
	Vitamin A deficiency	Children <5 with Vitamin A deficiency	63.3 %		n.a.	73.1%		n.a.			
	Iron deficiency	Children 6-59 mo. old with anemia	59.7 %		n.a.	72.0 %		n.a.			
		Women 15-49 yrs.old with anemia	51.8 %		n.a.	55.1 %		n.a.			
	IDD	Median urinary iodine level for school-aged children	89.6 µg/L	\bigcirc	n.a.	59.2 µg/L	\bigcirc	n.a.			
	Food Security	Households with poor or borderline food consul	uring dask	boarde t	o hiahlir	nht dienau	ritias				
		Global Hunger Index Score									
Underlying Causes	Health and Sanitation	Under 5 mortality rate	100	\bigcirc	1	111	\bigcirc	1			
		Proportion of institutional deliveries	81.8 %	\bigcirc	1	44.5%	\bigcirc	1			
		Households with access to improved water sources	85.3 %	\bigcirc	n.a.	37.1 %		n.a.			
		Households with access to improved sanitation facilities	43.7 %	TBD	n.a.	12.3 %	TBD	n.a.			
	Care	Timely initiation of breastfeeding	75.0 %	\bigcirc	1	12.3 %	\bigcirc	1			
		Infants 0-5 mo. old exclusively breastfed									
		Children 6-23 mo. old receiving an acceptable diet	12.3 %	\bigcirc	n.a.	13.3%	\bigcirc	n.a.			
		Households with a washing station equipped with water and soap/cleansing material	48.6 %	\bigcirc	n.a.	24.3%	\bigcirc	n.a.			
		Households taking 30+ minutes to fetch water	18.1 %	\bigcirc	1	48.6 %	\bigcirc	1			
Basic Causes	Education	Females that completed primary school or higher	49.0%	\bigcirc	1	11.2%	\bigcirc	1			
		Females 15-49 yrs. who are literate	67.8 %	\bigcirc	1	25.5 %	\bigcirc	1			
	Population	Total fertility rate	4.5	\bigcirc	Ļ	6.6	\bigcirc	Ļ			
	Gender	Women who were married before 18 yrs.	42.4 %	\bigcirc	n.a.	56.4 %	\bigcirc	n.a.			
		Women ages 15-19 who already had a child or are currently pregnant	30.8 %	\bigcirc	1	41.5 %	\bigcirc	1			
	Poverty	Population living under national poverty line	49.6 %	\bigcirc	1	56.9 %		1			
		GINI Index									

SEVERITY

Not currently a serious problem

Requiring action

Urgent Problem requiring urgent action Not applicable

TRENDS

 \uparrow Improving \downarrow Deteriorating \rightarrow No Change

Indicator Dashboard – Iringa Region (Tanzania) SITUATION ANALYSIS

Not currently a serious problem

Requiring action

Serious problem requiring urgent action

O Not applicable

		Devising sub-national dashboards			
		Indicator	Status	Severity	Trend
ĭ	Stunting	Stunting among children 0-59 mo *	51.9%	0	improving
Jac	Wasting	GAM prevalence among children 0-59 mo *		0	improving
Ĕ	wasting	SAM prevalence among children 0-59 mo *	0.8%	0	no change
all	Underweight	Underweight among children 0-59 mo *	18.2%	0	improving
ũ	Vitamin A Deficiency	Children 6-59 mo with Vitamin A deficiency *	35.1%	0	n.a.
riti	Iron Deficiency	Children 6-59 mo with anemia *	45.6%	0	no change
Inti	non Denciency	Women 15-49 yrs with anemia *	28.3%	0	worsening
Z	Iodine Deficiency Disorders School-aged children with iodine deficiency disorders †		24.7%	0	n.a.
ß	Food Security	Households with poor or borderline food consumption \Diamond	14.5%	0	n.a.
yir es	Health & Sanitation	Women 15-49 yrs with problem(s) accessing health care *	28.0%	0	improving
erl	nealth & Samation	Household access to improved water source *	68.1%	0	n.a.
nd Ca	Care	Timely initiation of breastfeeding (within first hour) *	73.0%	0	improving
D	Care	Mothers who washed hands after using toilet ◊	90.2%	0	improving
ic es	Education Females that completed primary school or higher *		45.8%	0	improving
asi aus	Population	Total fertility rate *	5.4	0	improving
Ca	Gender Women's intra-household decision-making power		20.9%	0	worsening

So what ? Leveraging the Multi-sectoral Nutrition Overview to influence planning and/or action



The Multi-sectoral Nutrition Overview,¹ including indicator dashboards, can catalyse change and/or prompt action in nutrition policy, planning as well as the implementation of nutrition interventions. For example, they may help to:

- Gain consensus on main nutrition problems and priority interventions
- Advocate for continued action/momentum for addressing child and maternal undernutrition in spite of recent progress in Ethiopia
- Inquire further on why Capo Delgado, Tete, Manica and Sofala provinces experienced decreases in stunting, yet increases in wasting, during the same period so that appropriate action can be taken
- Hold refresher trainings for health professionals on proper IYCF practices in Central and Mid-western regions of Nepal, where lowest proportions of children ages 6-23 months receive proper IYCF and severe stunting is highest
- Intensify construction and/or rehabilitation of safe water points and prioritise rural areas of Sierra Leone for household water treatment interventions
- Underscore regional, urban-rural, gender, etc. disparities with quantitative data to promote increased equity
- Promote common messages regarding the nutrition situation of the country

Unlike a story book, this is not 'THE END'

It is just the beginning and/or a basis upon which: Country priority interventions are selected, Stakeholders and activities are mapped Institutional arrangements are analysed, Delivery mechanisms are analysed Coverage is mapped to plan Policy formulation and reform is supported Multi-sectoral planning and budgeting is supported Coordination capacity is supported and enhanced Efficiency and effectiveness are improved.



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