Philippine Integrated Management of Severe Acute Malnutrition (PIMAM)

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4th National Conference of Nutrition Action Officers 15-16 November 2016

Cebu City



ON COUNCIE

Outline

At the end of the session, we will discuss

- I. Situation of under 5 year old child wasting.
- 2. Evidence for community based treatment of SAM.
- 3. Evidence for integrated management of acute malnutrition.
- 4. Roles and Responsibilities as PIMAM Managers



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Three Stories on Severe Acute Malnutrition



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Three Stories









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The Philippines and wasting in childhood

FNRI DOST, National Nutrition Survey, 2015





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63,231 children (under 5 years of age in Regions VI, VII, & VIII were screened) 1,851 were acutely malnourished



FAQs in Emergencies UNICEF

	→0-5mont	hs6-11 months	I2 months		
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		2008		2011	2013
	0-5months	11.9		.	13.4
	6-11 month	s .6		.9	11.4
	12 months	94		91	10.6
	\rightarrow 24 months	5.5		6.6	6.4
		4.4		4.5	5.8
		hs 4.3		5.5	5.5

Among Filipino children, those 12 months old and younger are most affected

FNRI DOST, National Nutrition Survey

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The First 1000 Days!



- UNICEF: Improving Child Nutrition: The achievable imperative for global progress (New York, 2013)
- Global targets to improve maternal, infant and young child nutrition Policy Brief, 1,000 Days Partnership, n.d., thousanddays.org/wp-content/uploads/2012 05/WHO-Targets-Policy-Brief.pelf [accessed 10 May 2015]





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Community – Based Management of Acute Malnutrition (CMAM)



Why do we need to treat SAM?

Children with SAM are 9 times more likely to die than those who are well nourished.

(RE Black et al. Maternal and Child Undernutrition. Paper 1. Gllobal and regional exposures and health consequences. The Lancet 2008)

 Recognized and treated early, it can be reversed with proper food, nutrition and care.











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We had the WHO protocol for ITC

WHO Classification for the Treatment of Malnutrition





The evidence looked good for ITC using the WHO protocol

With the use of the WHO facility based protocol for children over 6 months to 59 months, the risk of death was reduced by 55% compared to conventional treatment.

Referring to mortality -- "From 9 pooled studies, summary risk ratio of 0.45 (95% CI 0.32-0.62) when compared with conventional treatment"

Bhutta, ZA et al (2006) The Lancet. Maternal and child undernutrition Series 3.





But how have we fared against malnutrition using in-hospital care?

Case fatality rates in developing countries is 20-30%

DESPITE

WHO management protocols capable of achieving case-fatality rates of 1–5% in specialized units





Malnutrition treatment primarily hospital based

Several factors affect success:

- Lack of skilled and motivated personnel
- Lack of appropriate and adequate resources
- Co-existing medical conditions
- Late presentation at hospital
- High risk of cross-infection
- High rate of defaulters







The move towards the community

- Started in the 1970's to 80's
- Generally, short hospital stays AND
- Locus of treatment to communities
 - simple nutrition rehabilitation centers,
 - existing primary health-care clinics,
 - or the homes of those affected





However...

Review of 27 such programs from the 1980s and 1990s: Six (22%) of the 27 achieved:

- case-fatality rates of less than 5%,
- average weight gains of more than 5 g/kg/day, and
- relapse or readmission rates of less than 10%

Conclusions:

- home treatment was rarely successful
- early discharge of severely malnourished patients from inpatient treatment units was usually hazardous

Ashworth, A. Community-based rehabilitation of severely malnourished children: a review of successful programmes. London School of Hygiene and Tropical Medicine, London; 2001





Ready To Use Therapeutic Food (RUTF)

- a suitable high-energy, nutrient-dense food enriched vitamins
- Induces weight gain in emergency settings (recommended by WHO, UNICEF, and the UN World Food Program)
- Among 23, 511* unselected SAM children:
 - ✓ Overall case-fatality rate: 4.1%,
 - ✓ Recovery rate: 79.4%
 - ✓ Default: 11.0%.

Ashworth, A. Community-based rehabilitation of severely malnourished children: a review of successful programmes. London School of Hygiene and Tropical Medicine, London; 2001



What is the evidence that integrated management works?

95% vs 78% (p < 0.001)

Rates of weight gain = 5.2 g/kg/day vs 3.1 g/kg/day AND

Recovery to 100% weight for height among children

*175 kcal/kg/day

On use of take-home ration RUTF* (vs WFP corn soya blend) given after early discharge from phase I care in a facility following the WHO ITC protocol:

Manary MJ, Ndkeha MJ, Ashorn P, Maleta K, Briend A. Home based therapy for severe malnutrition with ready-to-use food. Arch Dis Child 2004; 89: 557–61.



So because of RUTF,

- Shortened duration of inpatient treatment from an average of 30 days to only 5–10 days
- Reduced the resources needed to treat SAM, which improves cost-effectiveness



Collins S, et al (2006) Management of Severe Acute Malnutrition. The Lancet





The Integrated Management of Malnutrition

Classification for the Community-Based Treatment of Acute Malnutrition







From CMAM to PIMAM

What it is:

- Philippine Integrated Management of Acute Malnutrition
- Includes SAM management as part of routine health and nutrition services at all levels
- Updated and evidence-based treatment
- Involves and relies on a strong community component





CMAM in the Philippines

- Began in emergency context in 2009
- Guidelines first drafted in 2011, only finalized in 2015
- SAM should be implemented not just during emergencies but also in "normal" times
- SAM is an emergency!











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Medications: Therapeutic Food

Ready-to-Use Therapeutic Food	Therapeutic M	lilk (F75, F100)
For SAM without complications	For SAM with	complications
		Image: State Stat



Components of PIMAM

- Management of **SAM** without complications
- 2. Management of **SAM** with complications

Outpatient Therapeutic Care (OTC)

Inpatient Therapeutic Care (ITC)

3. Management of MAM Program (SFP)

4. Community Outreach

Community Mobilization











Manual of Operations

unicef 🚱

- National Guidelines on the Management of Acute Malnutrition for Children under 5 years
- Administrative Order 2015-0055: SAM is now part of DOH regular program
- Budget Allocation: DOH Central will cover CMAM supplies and support training rollout
- 4. Standardization of Training Modules

16 Priority Areas for 2016

	Phase 1
Region V	Camarines Sur
	Catanduanes
	Masbate
Region VI	Antique
	Iloilo
Region VII	Bohol
	Cebu
Region VIII	Eastern Samar
	Leyte
	Northern Samar
	Zamboanga del
Region IX	Sur
Region IX	Davao del Sur
Region XII	North Cotabato
ARMM	Lanao del Sur
	Maguindanao
	Sulu



Phase 2		
Region I	Ilocos Norte	
Region II	Cagayan	
Region III	Aurora	
Region III	Zambales	
Region IVA	Laguna	
Region IVB	Occidental Mindoro	
Region VII	Siquijor	
Region VIII	Biliran	
Region IX	Zamboanga Sibugay	
Region XII	Saranggani	
CARAGA	Agusan del Norte	
CAR	Abra	



Phase 3		
Region I	Ilocos Sur	
Region I	La Union	
Region II	Nueva Vizcaya	
Region III	Nueva Ecija	
Region IVA	Rizal	
Region IVB	Palawan	
Region V	Camarines Norte	
Region VI	Capiz	
Region X	Lanao del Norte	
Region X	Misamis Occidental	
ARMM	Tawi-Tawi	
NCR	NCR District 4	



	Phase 4
Region I	Pangasinan
Region IVB	Oriental Mindoro
Region VI	Aklan
Negros	Negros Occidental
Region VIII	Western Samar
	Zamboanga del
Region IX	Norte
Region XI	Davao del Norte
Region XII	Sultan Kudarat
CARAGA	Surigao del Norte
ARMM	Basilan
CAR	Benguet
NCR	NCR District 2



Phase 5		
Region II	Quirino	
Region III	Pampanga	
Region IVA	Batangas	
Region IVA	Quezon	
Region V	Albay	
Negros	Negros Oriental	
Region VIII	Southern Leyte	
Region X	Camiguin	
Region XI	Davao Oriental	
CAR	Арауао	
CAR	Mountain Province	



Phase 6	
Region II	Isabela
Region III	Bulacan
Region III	Tarlac
Region IVA	Cavite
Region IVB	Romblon
Region X	Misamis Oriental
Region XII	South Cotabato
CARAGA	Surigao del Sur
CARAGA	Agusan del Sur
NCR	NCR District 3
NCR	NCR District 1


11 Add'l Priority Areas 2022

Phase 7	
Region II	Batanes*
Region III	Bataan
Region IVB	Marinduque
Region V	Sorsogon
Region VI	Guimaras
Region IX	Isabela City*
Region X	Bukidnon
Region XI	Compostela Valley
CAR	Ifugao
CAR	Kalinga
CAR	Dinagat Islands*













































Is it possible to solve SAM?







Slide 45





Are you ready to learn and do your role?





Recommendations for Action

- Integrate SAM Management in Local Health Systems
- As you organize and implement your PIMAM program to ensure that children with SAM are treated and do not leave the program, seek to ensure that
- Your PIMAM adheres to the guidelines in AO 2015-0055
- 2. Your PIMAM is integrated into other health programs in your LGU





This is what our Filipino babies look like









This is what our Filipino babies look like

Payat? Sakitin? Pandak?

Our kids can really NOT be.





This is what our Filipino babies SHOULD look like









Are you ready to learn and do your role?



Our Goal is ZERO SAM



- A significant number of Filipino children under 5 year olds are wasted.
- The threat of wasting grows worse during times of emergencies.
- The integrated management of SAM from community to facility will save lives.



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