Nutrition in the Post-2015 Context



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Presentation

- Different Dimensions of Malnutrition
- Consequences
- Food Security and Nutrition
- Looking forward
- Key Points

Nutrition Goes Beyond Food Security

- Multiple causes requires multi-sectoral response
- Health
- Water Sanitation
- Education
- Social Protection

Nutrition is important for ...





Wasting or Acute Malnutrition Source WHO



Guatemalan children, significantly stunted



Growth falters due to poor nutrition



Source: Victora CG, de Onis M, Hallal PC, Blössner M, Shrimpton R. Worldwide timing of growth faltering: revisiting implications for interventions using the World Health Organization growth standards. Pediatrics, 2010

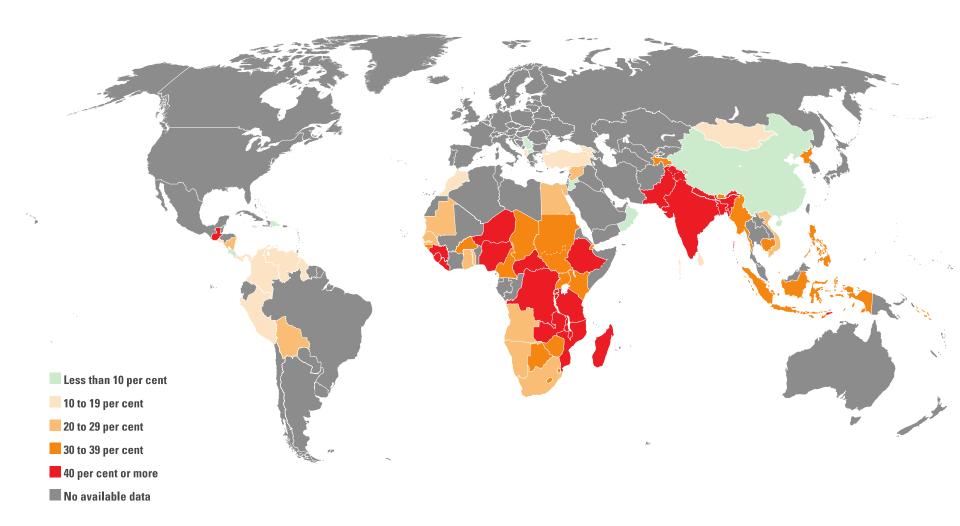


Stunting Prevalence is Highest in sub-Saharan Africa and South Asia

FIGURE 4

Stunting prevalence is highest in sub-Saharan Africa and South Asia

Percentage of children under age 5 who are moderately or severely stunted



UNICEF 2013: Improving Child Nutrition

Greatest Need: Prevalence and Trends of Stunting Among Pre-School 55 r Children, 1990-2020 50 45 40 **Africa** 35 Stunting (%) 30 All developing 25 20 Asia LAC 15 10 All developed 5 1990 1995 2000 2005 2010 2015 2020 Year Prevalence and trends of stunting

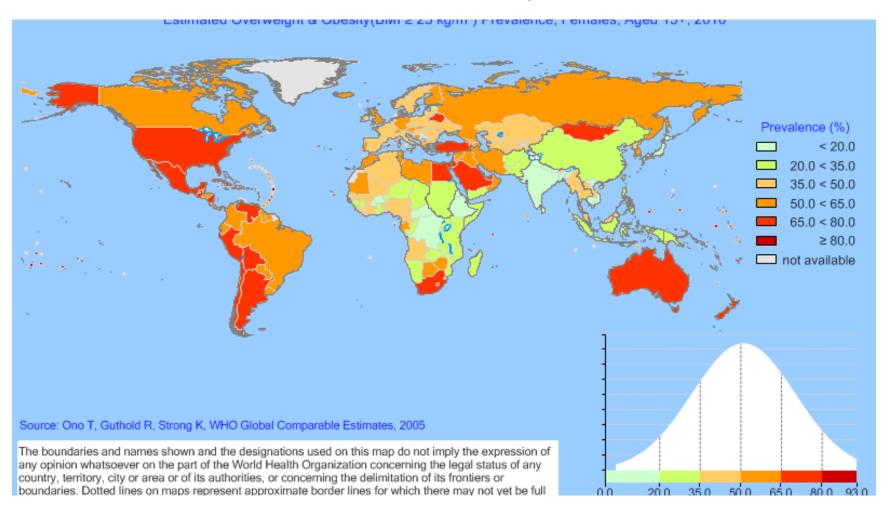
among pre-school children, 1990–2020. Mercedes de Onis, Monika Blossner and Elaine Borghi. Public Health Nutrition 2011



Micronutrient deficiencies – Hidden Hunger



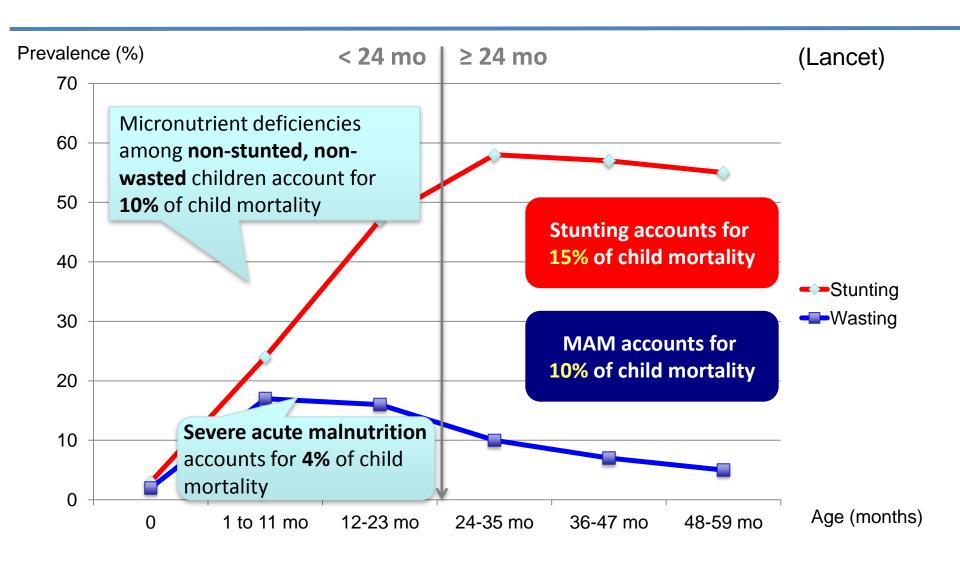
Overweight and Obesity among women >15 years



Consequences of Malnutrition

- Morbidity and Mortality
- Impaired cognitive ability
- Lower school attainment
- Intergenerational impact
- Increased susceptibility to chronic disease
- Health costs
- Lower work productivity
- Increased poverty

Undernutrition and child mortality



Source: Ethiopia Demographic and Health Survey (2011); Lancet Nutrition Series, 2008

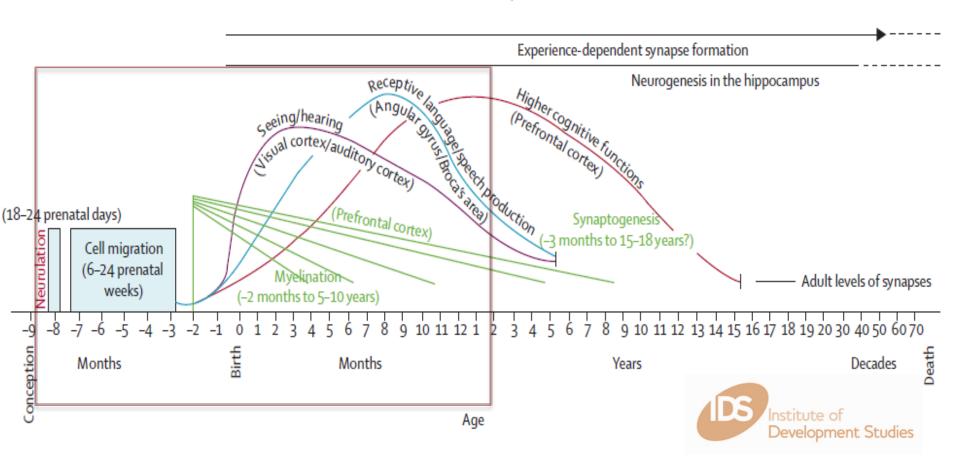
Underweight (no data for stunting) is still the biggest single risk factor for the attributable burden of disease in most of Sub-Saharan Africa and 4th in South Asia

Ranking legend ■ 1-5 6-10 11-15 □ 16-20 21-25 26-30 □ 31-35 36-40 >40 Risk factor	Gobal	SouthAsia	Oænia	Southern sub-Scharan Africa	Eatem sub-Sharan Africa	Central sub-Scharan Africa	Weten sub-Sharan Africa	
Hghbloodpressure	1	3	6	2	6	5	6	
Tobacco smoking, induding second-hand smoke	2	2	3	5	7	12	10	
Alcohol use	3	8	5	1	5	6	5	
Household air pollution from solid fuels	4	1	4	7	2	2	2	
Diet lowinfruits	5	5	9	8	8	11	13	
Hgh body-mæssindex	6	17	2	3	14	18	15	
Hghfætingplæmaglucce	7	7	1	6	10	13	11	
Childhood underweight	8	4	8	9	1	1	1	
Ambient particulatematter pollution	9	Û	83	25	10	14	7	
Physical inactivity and low physical activity	10	11	7	11	15	15	16	

Risk factors ranked by attributable burden of disease, 2010 Lancet. Vol 380 December 15/22/29, 2012

Human Brain Development in the First 1,000 Days

Human brain development



Thompson, R.A. & Nelson, C.A. (2001). Developmental science and the media: Early brain development. *American Psychologist*, 56(1), 5-15.

Brain Development

Normal



Malnourished



Stunting at the age of two

Irreversible

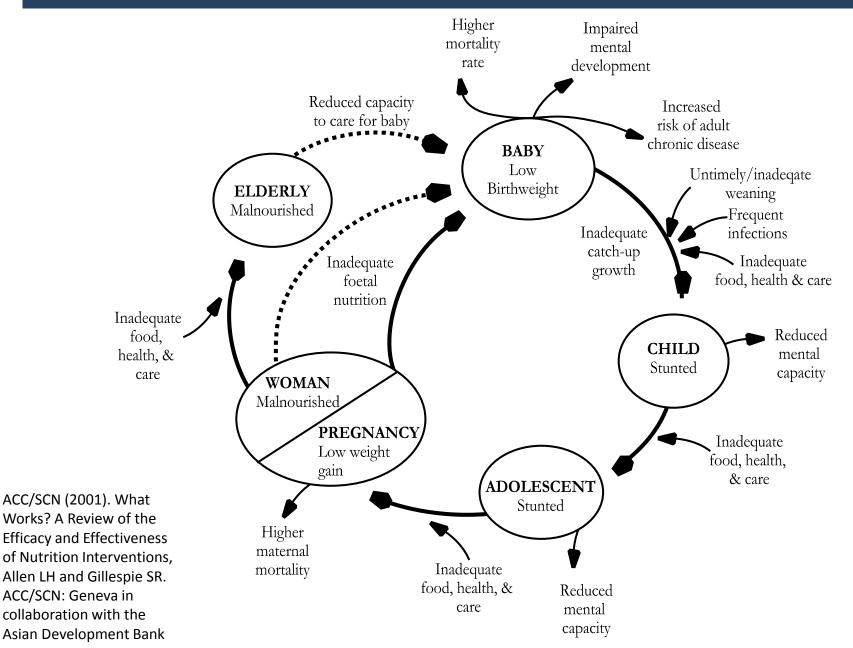
- Deprives these children from full potential
- Deprives them from equal opportunities for the rest of their life
- Deprives the communities, societies, countries, and the world from its full human potential

Nutrition and School Performance

- Children not stunted at 3 years of age:
 - Higher attained grade
 - Better test scores
- Recent Guatemala study 25 year follow-up: a nutrition intervention in early childhood resulted in women staying in school 1.2 more years

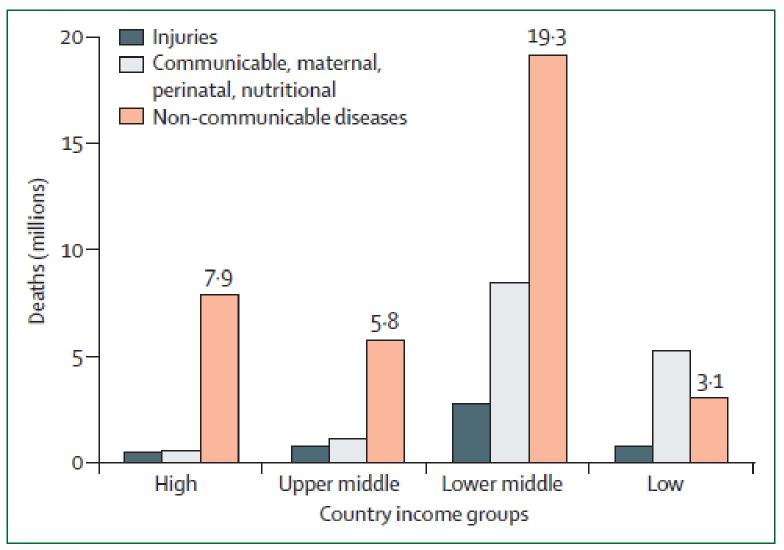
 Both maternal and paternal education are strong determinants of child stunting

This Life Cycle model became popular in the 2000s



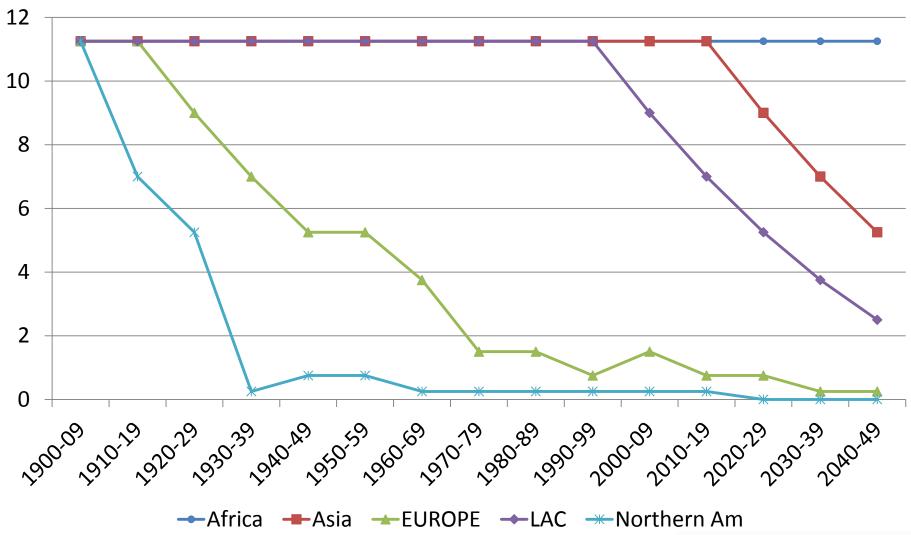
19

Non communicable disease is the leading cause of death in all but the poorest countries, 2008





Estimated % of GNP lost due to poor nutrition, 1900-2010, and projections to 2050

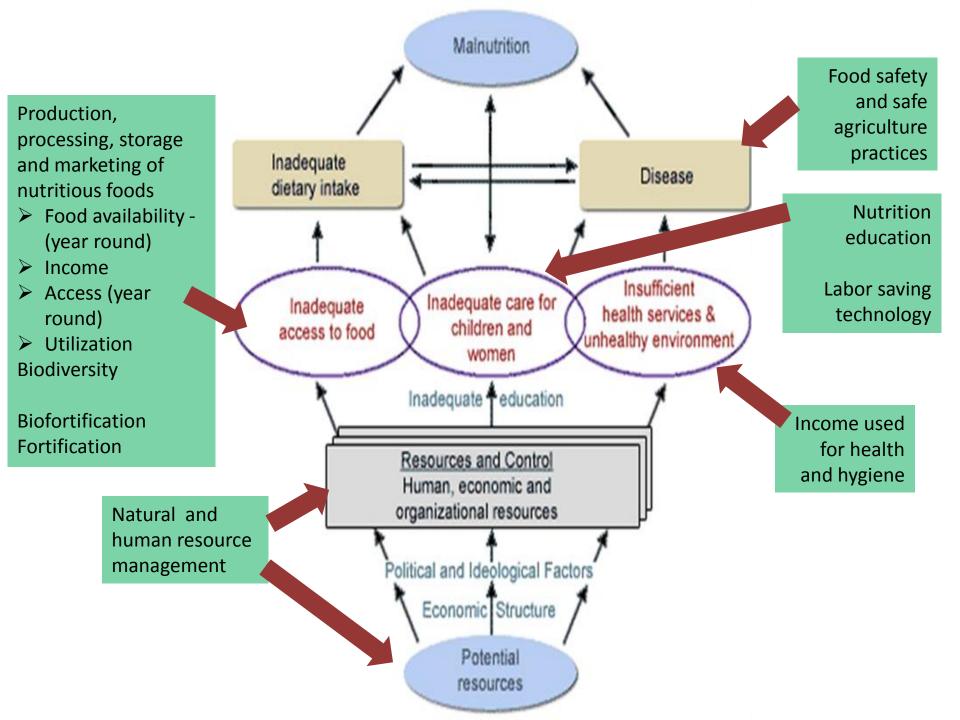


Malnutrition. Global economic losses attributable to malnutrition 1900–2000 and projections to 2050. Sue Horton and Richard H. Steckel. 2013. In "The Economics of Human Challenges", ed B. Lomborg. In Press. Cambridge University Press.



Nutrition and Food Security Linkages

- Availability
- Access
- Utilization
- Stability



Nutrition and Food Availability

- Availability of nutritious foods, of nutrients
- Food Diversity
- Nutrition is often at the individual level or focused on specific target groups
- Processing food fortification is critical
- Food wastage most commonly of nutritious foods





Nutrition and Food Access

- Economic access (affordability)
- Physical access (markets)
- Food price variability
- Many successful Social Protection (safety nets) programmes include special foods for children



Nutrition and Utilization



Nutrition and Utilization

Consumption – foods/nutrients

- Beyond food security—
 - Breastfeeding, complementary feeding practices
 - Health water sanitation Illness impacts on nutrient absorption and use and increases requirements



Looking forward

- Food price volatility nutrients or calories?
- Climate change increase in shocks, longer term impacts on food production and health
- Increase in food requirements vs. availability
- Links between systems
- Measuring malnutrition same tools
- Elevate nutrition as part of the global conversation on sustainability

Key Points

- There can be no sustainable development if we do not eradicate hunger and poverty
- Malnutrition is universal in its three dimensions
- Nutrition is multi-sectoral in causality and in response
- Risk that nutrition in all its dimensions will get lost in the post-2015 process
- Preventing malnutrition immediately and sustainably



Thank You





