NUTRITION INTERVENTIONS

June 2019

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Malnutrition - Summary

Malnutrition comprises of:

a) Undernutrition – Stunting, under-weight and wasting & micronutrient deficiencies.

b) Over-nutrition – Overweight & Obesity

- Double Burden of malnutrition
- Multifactorial causes of malnutrition

Consequences of undernutrition

- Malnutrition has negative consequences on health, physical and cognitive growth, intellectual performance and earning potential, thereby constraining social & economic development of communities and countries.
- Inhibits the body's immune system from fighting disease, inhibits cognitive, social-emotional and motor development
- Irreversible consequences of chronic malnutrition early in life

Nutrition related non-communicable diseases

Goal?

 Improve nutrition to save lives, increase economic productivity and advance development

How?

Reduce chronic, acute and micronutrient malnutrition among women of reproductive age and children under 5 years with a focus on the first 1000 days window – Pregnancy to a child's second birthday.

1000 Days window of Opportunity

Science has shown that the first 1000 days (Pregnancy & a child's second birthday) are the most critical to ensure physical and cognitive development.

Focus - Key interventions

- Good maternal nutrition
- Optimal breastfeeding (Immediate & EBF)
- Appropriate complementary feeding Dietary diversity
- Appropriate hygiene practices

Strategies

 Multisectoral approach that addresses direct and underlying causes of malnutrition.

 Implement high impact interventions in health, nutrition, agriculture, education, water & sanitation

 Scale up effective, integrated nutrition specific and nutrition sensitive interventions

The Purpose of Multisectoral Nutrition

What is needed?

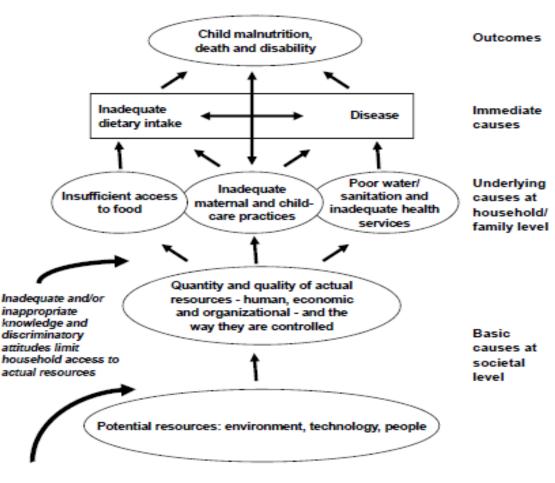
Nutrition-specific actions

Nutrition-sensitive actions

Consequences:

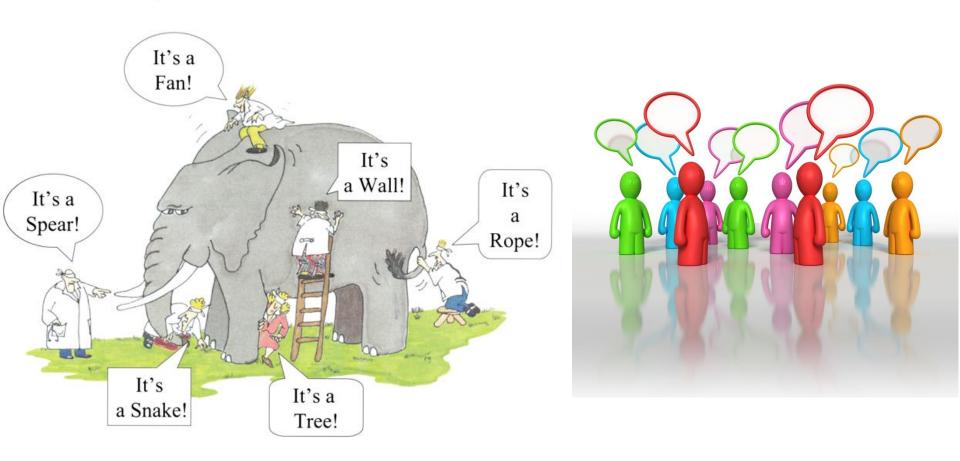
- 1. Child survival
- 2. Child health
- 3. Adult health
- 4. Cognitive development
- 5. School performance
- 6. Adult income
- 7. Economic growth
- 8. Equity
- 9. Human Rights

Figure 1: Causes of Child Malnutrition



Political, cultural, religious, economic and social systems, including women's status, limit the utilization of potential resources

Fragmented Views of Multisectoral Nutrition



A Common Understanding Is Required!!

Nutrition Specific Interventions

Address immediate causes of undernutrition

 Nutrition sensitive interventions if implemented at scale have impact on malnutrition and the associated morbidity and mortality.

Nutrition Specific Interventions Kenya's High Impact Nutrition Interventions

1. Promote exclusive breastfeeding for 6 months. 13% deaths prevented.

2. Promote optimal complementary feeding after 6 months. 6% deaths prevented.

Vitamin A supplementation 2 doses/yr for children 6 – 59 months. 2% deaths prevented.

HiNi

- 4. Zinc supplementation for diarrhoea management. 5% deaths prevented.
- 5. Multiple micronutrients for children < 5 yrs
- 6. Iron folic acid supplemention for pregnant mothers. 20% reduction maternal mortality.
- 7. Deworming for children (2 doses/yr 12 59 mons). Prevents anaemia

HiNi

- 8. Promotion of improved hygiene practices = hand washing Prevention of diarrhea disease
 - Salt iodization. 13 % increase in intelligence quotient
- 10. Iron fortification of staple foods . 17% increase in adult work productivity.
- 11. Prevention and treatment of severe acute malnutrition and moderate malnutrition.

WHY HINI For Kenya??

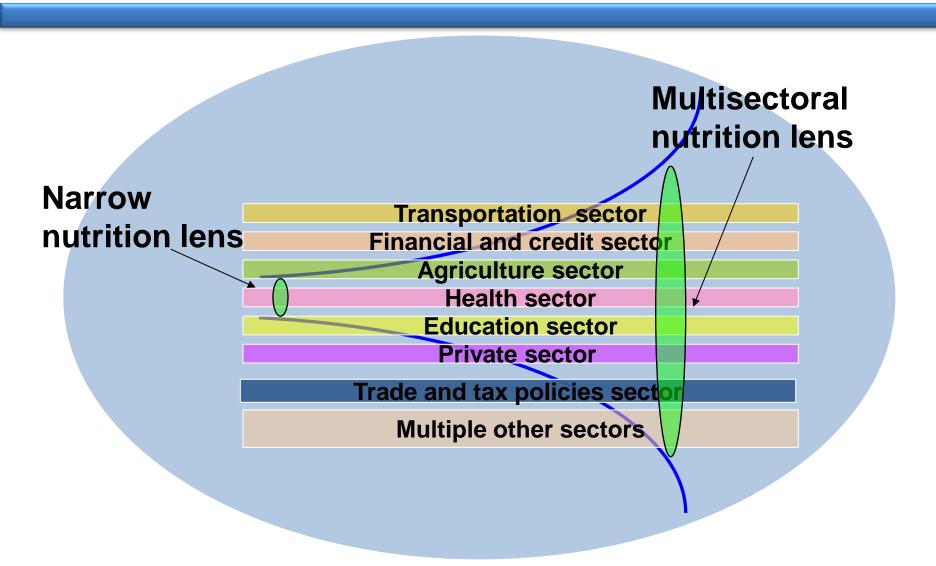
Malnutrition levels unacceptably high

About 30% of child deaths attributed to malnutrition

 Growth of 2.1 million kenyan children < 5 years stunted limiting realization of full potential

Nutrition Sensitive Programming

"Widening the vision to Nutrition-sensitive programming"



Nutrition Sensitive Interventions

Addresses underlying and systemic/basic causes of malnutrition& Include:

- Family planning Healthy spacing of pregnancies
- Water, sanitation & hygiene
- Nutrition sensitive agriculture
- Food safety & processing
- Early childhood care and development
- Girls and women's education and empowerment
- Economic strengthening, livelihoods and social protection

Nutrition-sensitive strategies

Agriculture:

- •Boost agricultural/livestock production, keep prices low, and increase incomes .
- Enhancing access to diverse diets in poor populations, foster women's empowerment, and support livelihoods.

Water & Sanitation

- Clean Water & basic sanitation
- Improving access to clean water and sanitation to reduce infection and diseases.
- Health education hand washing with soap.

Education & Employment:

- Integration nutrition in ECD programmes
- Deworming, micronutrient supplementation (VAS, IFA), food fortification,
- Ensuring children have the nutrition needed to learn and earn a decent income as adults

Nutrition-sensitive strategies

Health Care: Access to services that enable women & children to be healthy

Resilience: Establishing a stronger, healthier population and sustained prosperity to better endure emergencies and conflicts

Social welfare

- Improve diet quantity, quality, and diversity and decrease vulnerability to food insecurity.
- Decrease child mortality; and help children reach their full potential.

Empowerment

- Equity for women-Optimizing focus on women's nutrition and empowerment
- Microfinance institutions-Increasing the income for households and communities hence better access to food and health care.

National Scale up Requires

- Leadership
- Funding
- Partnerships and coordination
- Advocacy
- Monitoring and evaluation
- Long term commitment

Overview of Other Nutrition Interventions

- Micronutrient Supplementation
- Food supplementation
- Food fortification
- School feeding
- Growth monitoring

Cont.....

- Nutrition surveillance
- Disease control
- Maternal and child care
- Kitchen gardens and small animal husbandly
- Food Aid and Food for work

Cont....

- De-worming
- Nutrition education
- Improving water supply
- Nutrition rehabilitation

GROWTH MONITORING AND PROMOTION

Purpose

Growth monitoring and promotion aims at detecting growth faltering in children through regular measurements of a child's weight and height.

Child Health and Nutrition Information System (CHANIS)

Where?

 Health centers offering maternal and child health services.

Target – children < 5yrs

Cont.....

How?

• Measures of Weight, Height, Age & Gender

Used to compute Nutrition status indicators

Nutrition status indicators

Weight, Height, Age, Sex

Weight for age - Underweight

Height for age - stunting

Weight for height - Wasting

Promotion of Breastfeeding and Complementary Feeding

- Baby Friendly Hospital Initiative (BFHI)
- Code for Marketing of breastmilk substitutes
- Baby friendly community initiative
 - Mother support groups
 - Engagement of key household influencers men and grandmothers

HEALTH RELATED SERVICES

Even in the absence of specific nutrition interventions, general health measures can have an important impact on nutritional status e.g.

 Incidences of gastro-intestinal infections and parasitic infections can be significantly reduced by improved sanitation and provision of safe drinking water.

Cont.....

 Malaria control and immunization against childhood diseases will reduce negative influences on nutritional status.

Vitamin A delivery with immunization services.

Promoting breastfeeding during diarrhoea.

Oral Rehydration Therapy and zinc supplementaion

NUTRITION EDUCATION

 Delivered through group education sessions, oneone counseling, using IEC and media.

 Antenatal clinic, Intra -partum and Well baby clinic, mother support groups.

Themes

- Recommended breastfeeding and complementary feeding practices
- Maternal nutrition
- Nutrition supplementation
- Importance of growth monitoring
- De-worming
- Importance of WASH

MEASURES TO IMPROVE HOUSEHOLD FOOD SECURITY

- Promotion of small scale agricultural production including traditional foods
- Income generating projects including livestock and nonfarm activities
- Initiation of credit programmes
- Food price stabilization
- Free distribution of food to selected groups e.g. supplementary feeding

Cont.....

- Timely warning and intervention systems
- Food quality and safety control.
- Public stock-piling of food