5/7/2020 OneNote

1. Nutrition - Malnutrition and Diseases of Malnutrition

Wednesday, 25 September 2019 09:43

Public Health Nutrition OVERVIEW

- 1. Nutrition Policies Guidelines and Protocols MOH
 - Understanding Malnutrition
 - O High priority nutrition interventions Kenya
 - o Priority Nutrition Interventions within the health sector
 - Key nutrition policies, guidelines and protocols
- 2. Community Nutrition Diagnosis
 - O Assessment of nutrition status methods and protocols
 - o Methods in assessment of child nutritional status
 - o Interpretation and application of assessment results

NB:

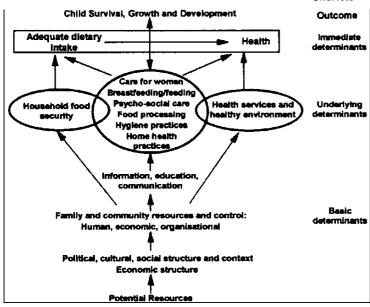
- CAT 1 Community Diagnosis GPA, HCA, Group work reports
- Written CAT 15 marks
- Final Exam MCQ, SAQ, LAQ
- Oral Exam 10% of the 70%

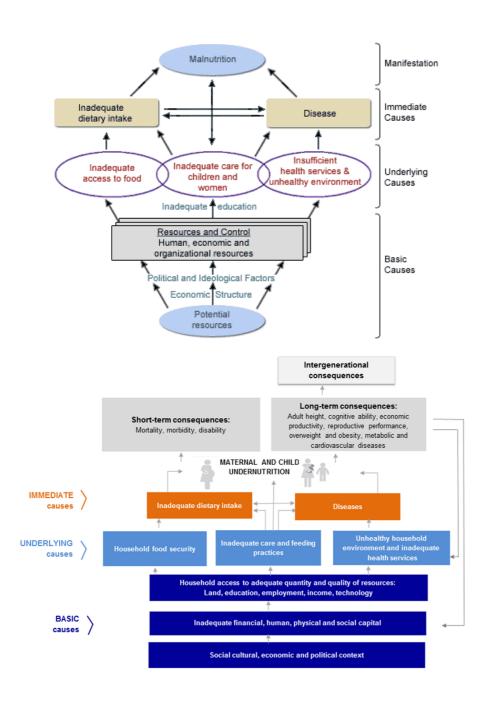
Malnutrition:

- It is impairment of health reflecting from imbalance between dietary intake and requirement
- · Can be problems due to intake of food or processing of food
- It includes
 - Overnutrition (obesity) due to excess intake
 - O Undernutrition or insufficient intake
 - Malnutrition single nutrient deficiency OR 2 or more required nutrients e.g. vitamins, minerals
- Poor Nutrition is usually manifested in many forms
 - Depending on the major deficient nutrient
 - O Depending on the period of exposure
- · Malnutrition types
 - o Macronutrient Deficiency
 - PEM Kwashiorkor, Marasmus moderate to severe forms
 - o Micronutrient Deficiency
 - Iron Deficiency Anaemia Nutritional anaemia
 - Vitamin A deficiency
 - Iodine Deficiency Disorder
- Manifestation of PEM
 - o Underweight
 - o Stunted growth
- Nutrition requirements
 - o Male 2500 kCal / day
 - o Female 2100 kCal / day

Conceptual framework of undernutrition

- Developed by UNICEF in 1990
- It explains the
 - o Immediate cases which affect the individual
 - O Underlying causes relating to families households
 - O Basic causes which relate to the community and nation
- What is malnutrition driven by:
 - o Culture
 - o Beliefs
 - O Health seeking behaviour





Maternal and Child Undernutrition

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- Short Term Consequences
 - o Mortality
 - o Morbidity
 - o Disability
- Long Term Consequences
 - o Adult height
 - Cognitive ability
 - o Economic productivity
 - o Reproductive Performance
 - o Metabolic + CVS consequences

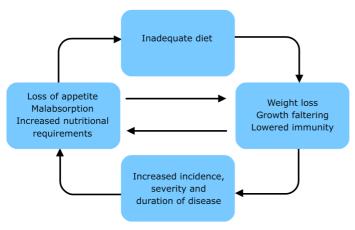
Leads to...

- Inter-generational Consequences
 - o Laneet Series 2003
 - O Need to break the cycle
 - o Changes that lead to prevention

Immediate Causes

- Interplay between inadequate dietary intake and infection at the individual level which leads to a vicious cycle
- Disease <-> Food Intake

The Infection-Malnutrition Cycle



Underlying Causes

- Concern unmet basic needs of children and women
- · They include:
 - o Inadequate household food security
 - O Inadequate care for women and children
 - o Inadequate health, health services and unhealthy environment including poor water and sanitation
- What drives the inadequate household food security?
 - o Transport
 - o Poverty SES
 - O Climate and ecology drought
 - O Agricultural techniques
 - O Poor governance and corruption
 - o Conflict tribal
 - o Pests and diseases
 - o Poor supply
 - Weak support for production
- What drives the inadequate care for women and children?
 - o Women
 - Dietary intake Fe + folate
 - Short leaves for maternity / nursing mothers
 - Poor spouse support
 - · Clinics during and after pregnancy
 - o Children
 - Poor hygiene techniques

- · Poor quality diets
- Not immunizing and supplementing children

Household Food Security

- · Access to food
- Adequate quality + quality to fulfil all nutritional requirements for all household member throughout the year.
- People are food secure if they meet their food needs through out the year and if the food is both available and accessible.

Livelihood Strategies

- To achieve food security people undertake various activities
 - o Agriculture
 - o Agro-pastoralism
 - o Trade
 - o Fishing / hunting

Caring Practices

- They help translate available food and health resources into adequate food intake and prevention of diseases
 - o Feeding practices
 - Breastfeeding
 - · Complementary feeding
 - Health and hygiene seeking practices
 - Immunization
 - Early detection and treatment of infections
 - o Emotional and cognitive stimulation for children and women
 - o Care and support for women

Public Health and Environmental Factors

- Access to basic health services should reduce severity and duration of infections as determined by distance and cost of health services
- Access to portable water and sanitation
- Presence of malaria breeding sites

Socioeconomic Causes

- · Related to
 - O Unequal distribution of resources in a society, historical background
 - O Other external factors: Political, Legal, Cultural

Community Nutrition Diagnosis

- Key Focus in Nutrition
 - o Objectives
 - o Tools
 - o Pre-texting data collection tools
 - O Data collector, Nutrition status assessment
 - o Analysis and report writers

H/W: Role of Diet and Nutrition in NCDs = 1st October 2019 3 pages