Concept of HEALTH

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Agent Factors

1. Biological Agents.
   e.g. viruses, bacteria, fungi etc.

2. Nutritional Agents.
   e.g. proteins, fats, calories, vitamins, minerals etc.

3. Physical Agents.
   e.g. heat, cold, humidity, radiation etc.

   e.g. bilirubin, ketones, uric acid, allergens, dust, gases etc.

5. Mechanical Agents.
   e.g. chronic friction, mechanical forces.

6. Absence or insufficiency or excess of factors necessary to health.
   e.g. hormones, thymus, cardiac defect, chromosomal etc.
Host Factors

1. Demographic characteristics
   e.g. age, sex, ethnicity.

2. Biological characteristics
   e.g. genetic factors, blood groups etc.

3. Social and Economic characteristics
   e.g. education, occupation, income, marital status etc.

4. Lifestyle factors
   e.g. personality pattern, alcohol, smoking etc.
Environmental Factors

1. Physical environment.
   e.g. air, water, soil, housing etc.

2. Biological environment.
   e.g. insects, rodents, animals, plants etc.

3. Psychosocial environment
   e.g. cultural values, customs, beliefs, attitudes, social and political organizations etc.
Age, sex, race, genetic profile, previous diseases, immune status, religion, customs, occupation, marital status, family background

Host

Environment
- Temperature, humidity, altitude
- Crowding, housing, neighborhood
- Water, milk, food
- Radiation, pollution, noise

Agent
- Biologic (bacteria, viruses)
- Chemical (poison, alcohol, smoke)
- Physical (trauma, radiation, fire)
- Nutritional (lack, excess)
The term “Risk Factor” is used as:

a) An attribute or exposure that is significantly associated with the development of disease.

b) A determinant that can be modified by intervention, thereby reducing the possibility of occurrence of disease or other specified outcomes.
Iceberg of Disease
Iceberg of Disease

Severity

CLINICAL

SUB-Clinical

Iceberg

Tip

SEEN

UNSEEN

NORMAL
Iceberg of Disease

• Disease in a community may be compared with an iceberg.
• The floating tip of the iceberg represents what the physician sees
  – i.e. clinical case.
• The vast submerged portion represents the hidden mass of casualties
  – i.e. unapparent, pre-symptomatic and undiagnosed cases and carrier in the community.
Take Home Message....

Age, sex, race, genetic profile, previous diseases, immune status, religion, customs, occupation, marital status, family background

Host

Environment
Temperature, humidity, altitude
Crowding, housing, neighborhood
Water, milk, food
Radiation, pollution, noise

Agent
Biologic (bacteria, viruses)
Chemical (poison, alcohol, smoke)
Physical (trauma, radiation, fire)
Nutritional (lack, excess)

Susceptible Host
Conducive Environment
Pathogen
Disease

Severity
CLINICAL
SUB-CLINICAL
Production Affected
Iceberg
Tip
NORMAL
UNSEEN
SEEN
ACTUAL LOSS

$ $ $
Changing Concepts

1. Biomedical concept
2. Ecological concept
3. Psychosocial concept
4. HOLISTIC concept
Definition of Health

• Health is a state of complete physical, mental and social well-being and not merely an absence of disease or infirmity.

  W.H.O. (1948)

Criticism:

• Too broad
• Can not be a “state”
• An ‘idealistic’ goal
Operational definition of Health

• More useful for measuring purpose:
  ➢ No obvious evidence of disease,
  ➢ A person is functioning normally
    ➢ i.e. conforming within normal limits of variations to the standards of health criteria
  ➢ Several organs of body functioning adequately
    ➢ in themselves and in relation to one another (equilibrium or homeostasis)
New philosophy of Health

• HEALTH is a fundamental human right.
• HEALTH is the essence of productive life.
• HEALTH is inter sectoral.
• HEALTH is an integral part of development.
• HEALTH is central to the concept of quality of life.
• HEALTH involves individual, state and international responsibility.
• HEALTH and its maintenance is a major social investment.
• HEALTH is a worldwide social goal.
Dimensions of Health

1. Physical dimension
2. Mental dimension
3. Social dimension
4. Spiritual dimension
5. Emotional dimension
6. Vocational dimension
7. Others
   - Philosophical, cultural, socio-economic, environmental, educational, nutritional, curative, preventive dimension.
Positive Health

• It conceptualizes health
  ➢ Biologically
  ➢ Psychologically
  ➢ Socially

MIRAGE
Health – A relative concept

- Health not as an ‘ideal’ state
- Biologically ‘normal’ state based on statistical averages.
  - e.g. Birth weight in LMIC vs. HIC.
Concept of Well-being

- Standard of living
- Level of living
- Quality of life
Physical Quality of Life Index (PQLI)

i. Infant mortality rate
ii. Life expectancy at age one
iii. Literacy

• PQLI: 0 (Worst) to 100 (Best)

• Not taken per capita GNP into consideration.

‘Money is not everything’
Human Development Index (HDI)

- Longevity
  - life expectancy at birth
- Knowledge
  - adult literacy rate and
  - mean years of schooling
- Income
  - real GDP per capita in purchasing power parity in US dollars

- HDI: 0 to 1
Spectrum of Health

Positive Health
Better Health
Freedom from Sickness

Unrecognized Sickness
Mild Sickness
Severe Sickness
Death