

CENTRE FOR COMMUNITY MEDICINE, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI, INDIA





Concepts in Public Health:
A Case Study of Protein Energy
Malnutrition (PEM)

Dr. Harshal R Salve, Dr. Rakesh Kumar, Prof. Chandrakant S Pandav



- 2 years old Munni
- Youngest of the four children of Yashoda
- Belongs to Scheduled caste
- Resident of urban slum
- Family belongs to BelowPoverty Line

Source: Accessed from Google images

THE STORY . . .

- Munni is currently suffering from loose stools, voimiting
- She had experienced recurrent episode of diarrhea and ARI in past one year
- Born at home with low birth weight
- O Ghutti was given at the time of birth
- Exclusive breast feeding for four months
- Undernourished for age at present
- Incomplete immunization as per age
- Her sisters are also suffering from loose stools, worms in stools, vomiting and are undernourished for their age

THE STORY . .

- Yashoda 24 yrs, illiterate, married 7 years back
- Has four daughters, out of which 2 are under five yrs age
- She delivered four girl children in a hope of male child
- Not adopted any family planning method due to fear of its complications
- Migrated in urban slum area from village 5 years back
- Lives in jhuggi area in rented jhopadi
- Yashoda and her husband are daily wage labourers
- Eldest daughter takes care of younger ones

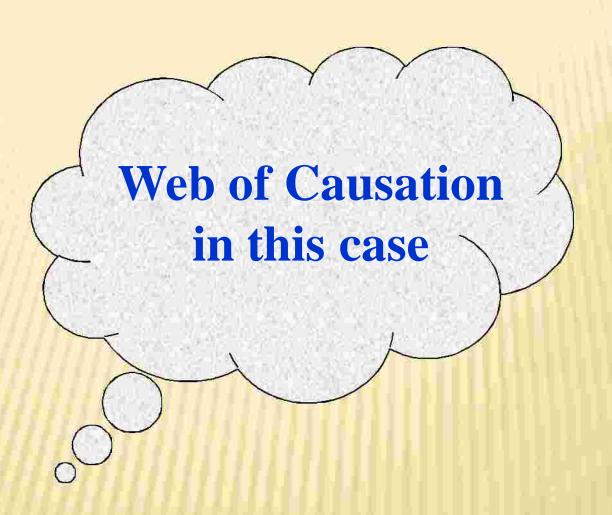
THE STORY . . .

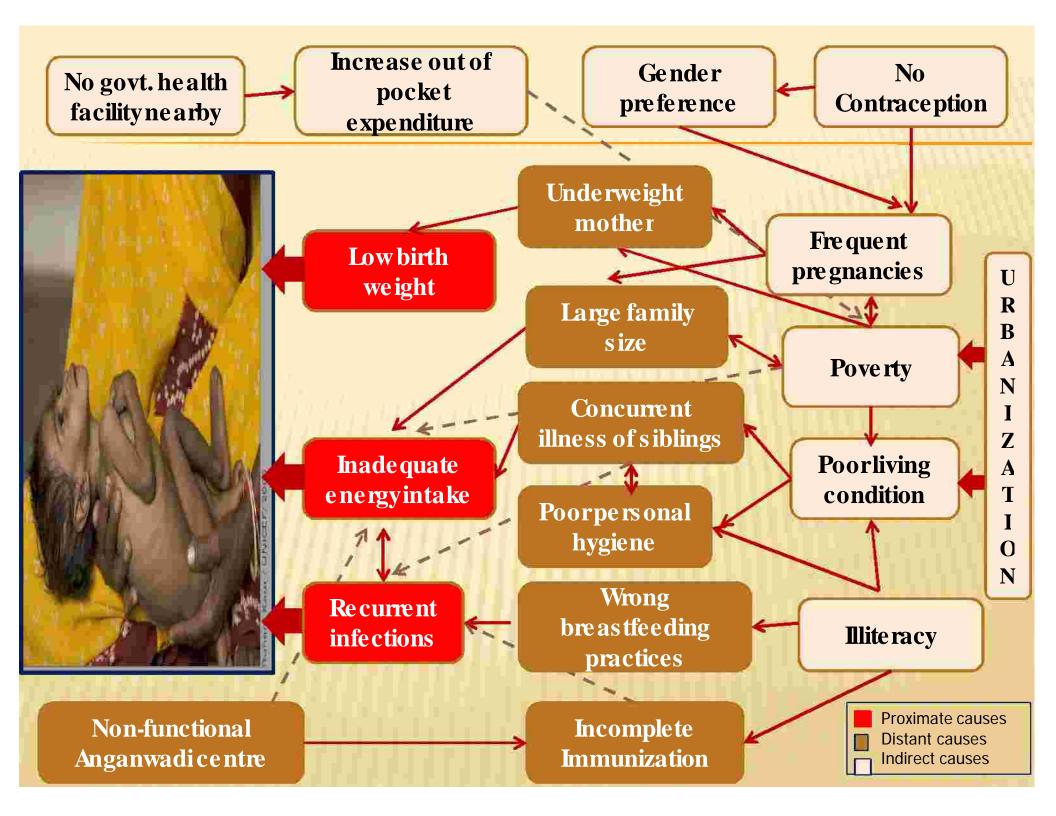
- There is no government health facility in an urban slum
- Yashoda was unable to take Munni to General Hospital which is
 10 kms away as it will lead to daily wage loss
- Yashoda had sought treatment for her children from unqualified private practitioner in an urban slums
- None of her daughter are going to Anganwadi as it remains closed all the time
- Family belongs to BPL but they does not possess BPL card
- Able to provide food to their daughters once a day only

PEM IN INDIA...

- 51.1% of children are undernourished at given point of time
- High risk factor for malnutrition in children:
 - € Age of mother: 18 23 yrs
 - É Female gender
 - É Rural area
 - E Birth order > 3
 - E Birth spacing < 47 months
 - **E** Low birth weight
 - **E** Illiterate mother
 - E Scheduled caste/ scheduled tribe
 - **É** Underweight status of mothers

Source: International Institute for Population Sciences (IIPS) and Macro International. 2007. National Family Health Survey (NFHS-3), 2005–06: India. Mumbai: IIPS. Available at http://www.nfhsindia.org/pdf/IN.pdf (accessed on 21 October 2010)





WAS MALNUTRITION PREVENTABLE?

Yes

Non-functional Anganwadicentre



Low birth we ight

Inade quate energyintake

Recurrent infections

Underweight mother

Large family size

Concurrent illness of siblings

Poorpers on al hygiene

Wrong breastfeeding practices

Incomplete Immunization

Fre quent pre gnancies

Increase out of pocket expenditure

No Contraception

No govt. health facility nearby

THROUGH HEALTH SYSTEM



Gender preference

Poverty

Poorliving condition

Illite racy

Urbanization

OUTSIDE THE HEALTH SYSTEM

CONCEPTS OF DISEASE CAUSATION

Traditional Bio-medical concept

- Disease caused due to the presence of causative agents
- Basis in Germ theory of disease

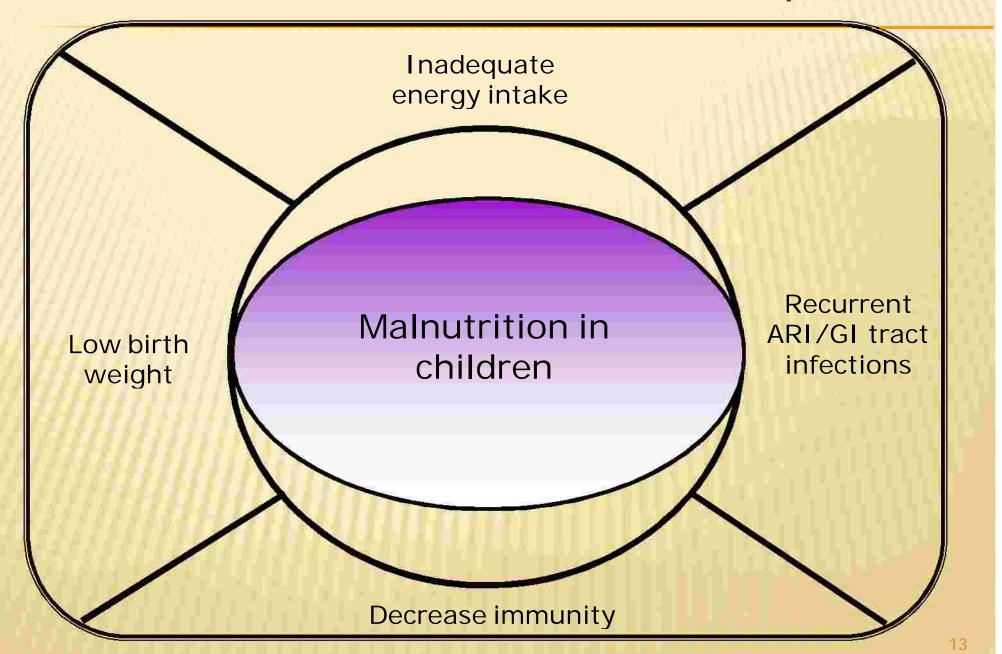
Socio- Epidemiological Concept

- É Causative agents alone may/may not be sufficient for disease occurrence
- Social factors important in the disease causation & progression

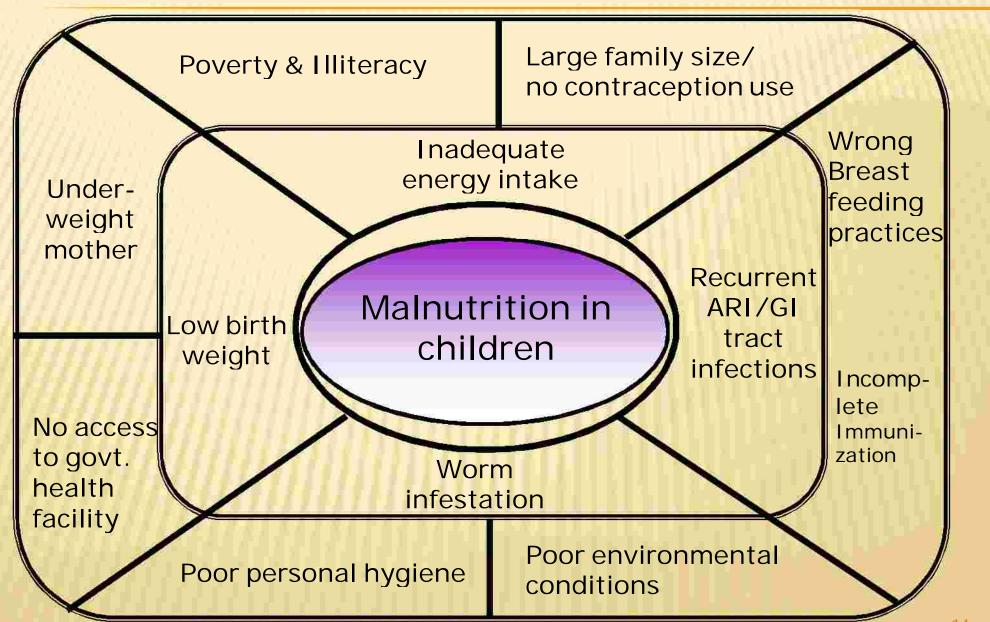
Politico- Developmental Concept

- Comprehensive approach, puts health in the context of politicodevelopmental situations
- Effects of government policies & outfalls of development on disease occurrence,
- Stems from the multi-factorial causation of disease

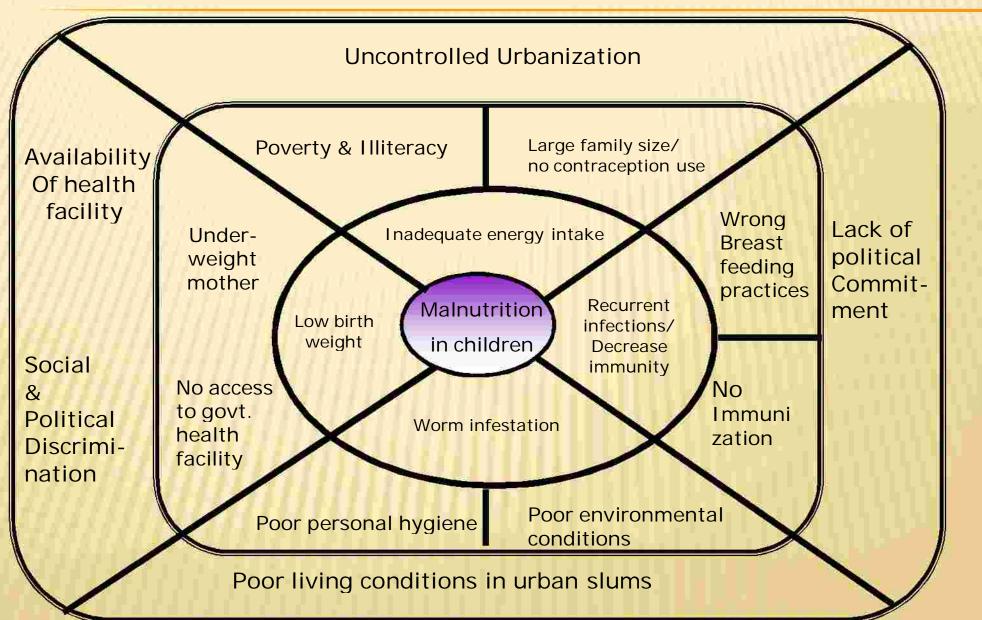
Traditional Bio-Medical Concept



Socio- Epidemiological Concept



Politico- Developmental Concept



PUBLIC HEALTH TRAINS YOU TO HAVE A "HOLISTIC APPROACH" TO HEALTH AND DISEASE

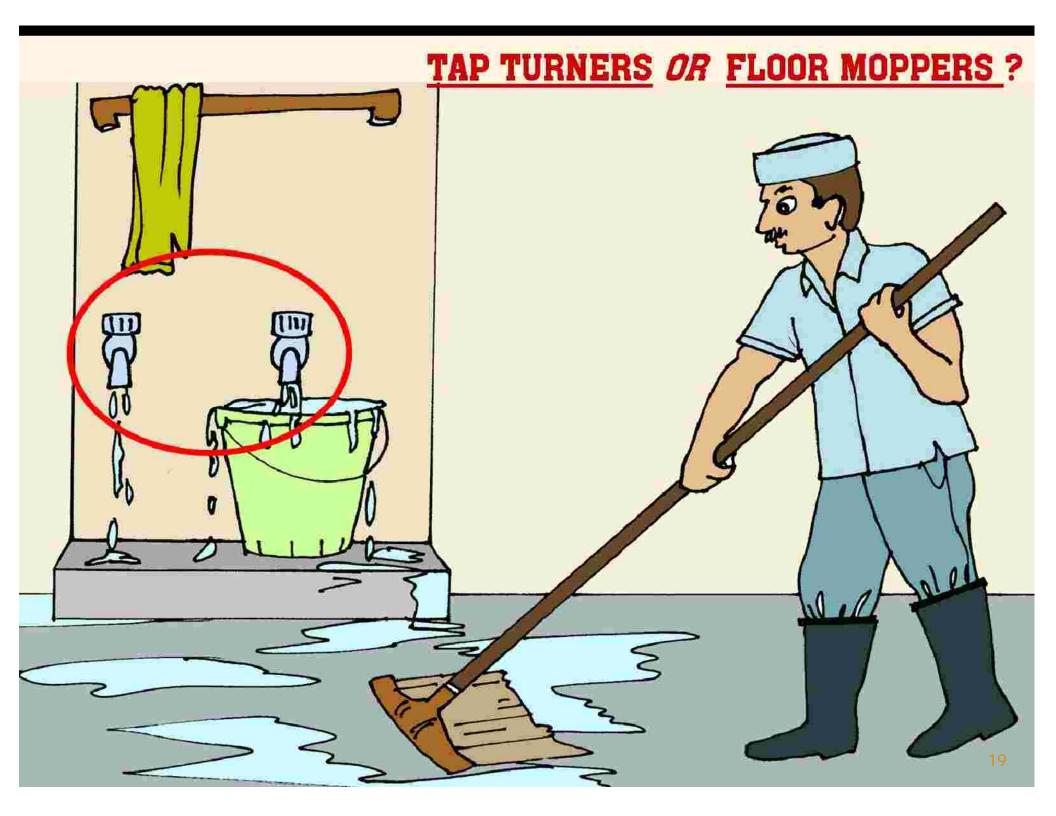
CLINICAL VS PUBLIC HEALTH

	Clinical Medicine	Public health
UNIT OF STUDY	 Individual 	Population/ Community
TARGET GROUP	 Mostly Patient – with disease 	 Diseased and healthy individuals
VIEWPOINT OF HEALTH SYSTEM	 Mostly passive process 	Active process
TYPE OF CARE	 Major focus on curative care 	Comprehensive care
SERVICE PROVIDERS	 Majority by private sector 	 Both public & private sector
BENEFITS	Short term benefitsObvious benefit	Long term benefitsNot obvious

In Public Health – Good work means no patients

AXIOMS OF PUBLIC HEALTH

- Prevention is better than cure
- Best should not be the enemy of good
- Occopyrate of the control of the
- Primary health care is NOT primitive care



BHORE COMMITTEE

- "The physician of tomorrow will be
- o naturally be concerned with the promotion of the new era of social medicine
- o scientist and social worker
- o ready to cooperate in team work
- o in close touch with the people he serves
- o a friend and leader
- odirects all his efforts towards the prevention of disease and
- o becomes a the rapist where prevention has broken down
- the social physician
- o Protecting the people, and Guiding them to a healthier and happier life".

