

MAHATMA GANDHI MISSION

MGM Institute of Physiotherapy

Chh. Sambhaji Nagar, Maharashtra (Affiliated to MUHS, Nashik)



GENERAL CONCEPTS & DETERMINANTS OF DISEASE

Dr Srilatha Girish Associate Professor

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OBJECTIVES



By the end of the session students will be able to

- Concept of disease
- Causation of disease
- Determinants of disease

Contents



- Terminologies
- Causation & Natural history of disease
- Models

REFERENCES



1. Park's Textbook of Preventive & Social Medicine - K. Park

2. Textbook of Preventive & Social Medicine - P.K. Mahajan & M.C. Gupta

TERMINOLOGIES



- WHO defines only health: Disease many shades (inapparent-severe, suddengradual)
- Terminologies
 - Disease: Physiological/Psychological dysfunction
 - Illness: Subjective state of person who feels aware of not being well
 - Sickness: State of social dysfunction



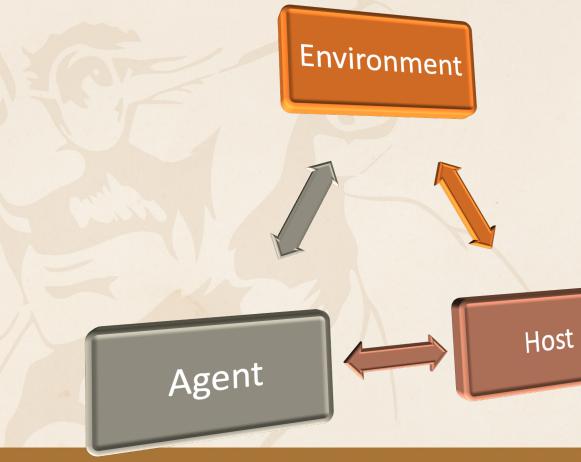
CONCEPT OF CAUSATION- Models/Theorem



CONCEPT OF CAUSATION- Models/Theory

- 19th-early 20th century
- Shift from empirical causes (bad air) to microbes as sole responsible
- One sided view of disease causation: One to one b/w casual agent & disease



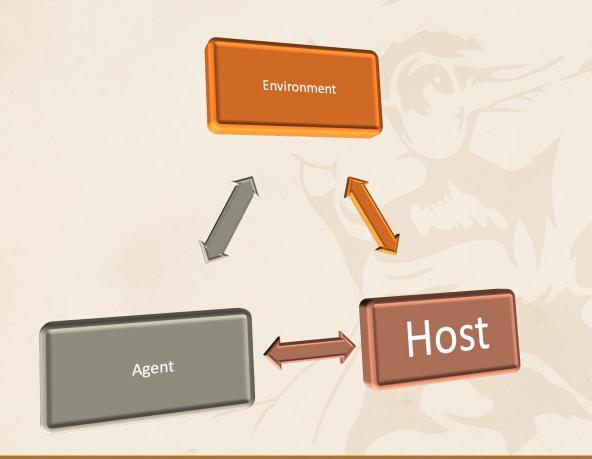


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- Cause of disease
- Varies
- Infectious: Bacteria, viruses
- Non-infectious: Trauma, lifestyle







- An organism, usually a human or an animal, that harbors disease
- Host offers subsistence & lodging for a pathogen
- May or may not develop the disease.
- Determinants
- 1. Host make up
 - Level of immunity
 - Genetic makeup
 - Level of exposure
 - State of health
 - Overall fitness
- 2. Ability of pathogen to accept new environment

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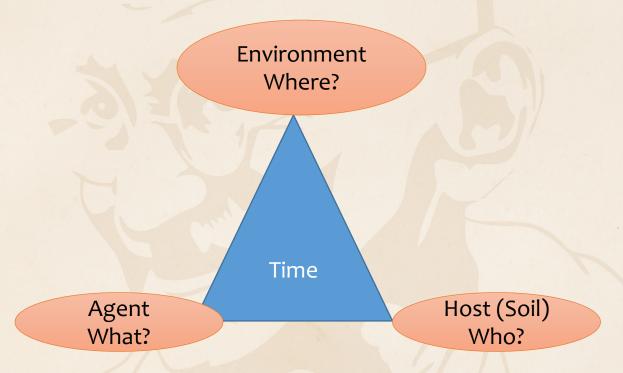
Host



- Surroundings & conditions: Internal or external to host that cause or allow disease transmission
- Biological, social, cultural & physical aspects of environment

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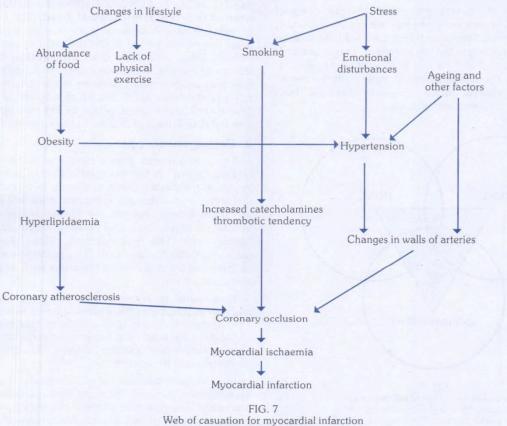
Agent



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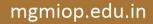
CONCEPT OF CAUSATION- Web of Causation





 Considers all predisposing factors & their complex interaction--- Chronic diseases when disease agent is not known

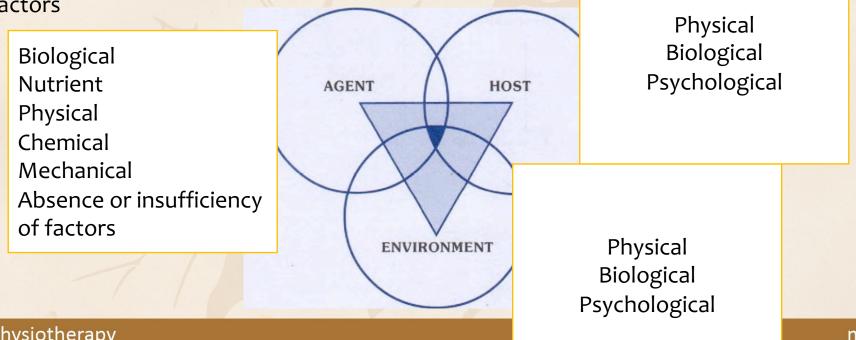
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NATURAL HISTORY OF DISEASE-Pre-pathogenesis Phase



- Period preliminary to onset of disease
- Disease agent has not yet entered man, but the factors which favor its interaction with human host are already existing in environment.
- Referred to as "man in the midst of disease" or "man exposed to the
- Causative factors



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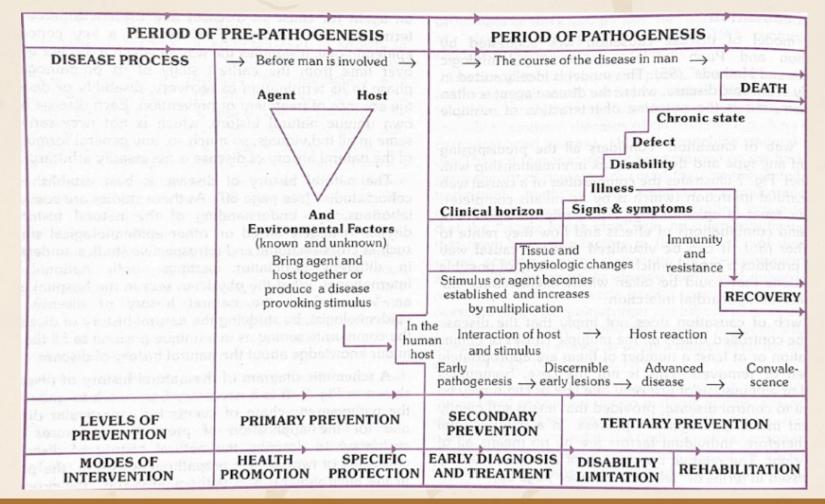
NATURAL HISTORY OF DISEASE-Pathogenesis Phase



- Begins with entry of disease "agent" in susceptible human host events
- Pathogenesis phase are clear-cut in infectious diseases: Disease agent multiplies & induces tissue & physiological changes----- Disease progresses through a period of incubation----later----early & late pathogenesis.
- Outcome: Recovery, disability or death



NATURAL HISTORY OF DISEASE

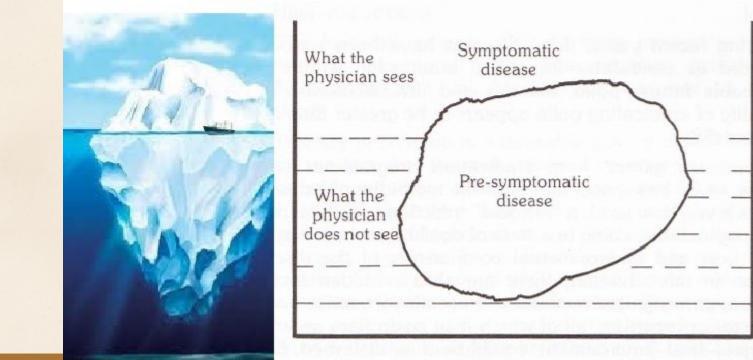


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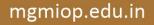
ICEBERG PHENOMENON



Iceberg Phenomenon of Diseases



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References



Park K. Park's Textbook of Preventive and Social Medicine, 22nd ed. Banarsidas Bhanot; 2013. ISBN-13: 978-938-2219-026. Chapter 3 (Page number 75-80)



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