

Public Health Topic . No.2



**Tishk**  
International University



**Faculty of Science**

**Medical Analysis Department**

**3<sup>rd</sup> Grade**

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# **Introduction to Public Health**

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## **At the end of this Lecture, the students are able to:**

- Define of public health
- Deference between community health and public health
- Core activities of public health
- The Evolving Need for Public Health 1700s1800s
- Public Health Achievements
- Public Health problems

# Definition of Public Health

Public health is defined as the science and art of preventing diseases, prolonging life, promoting health and efficiencies through organized community effort.



# Public Health Approach

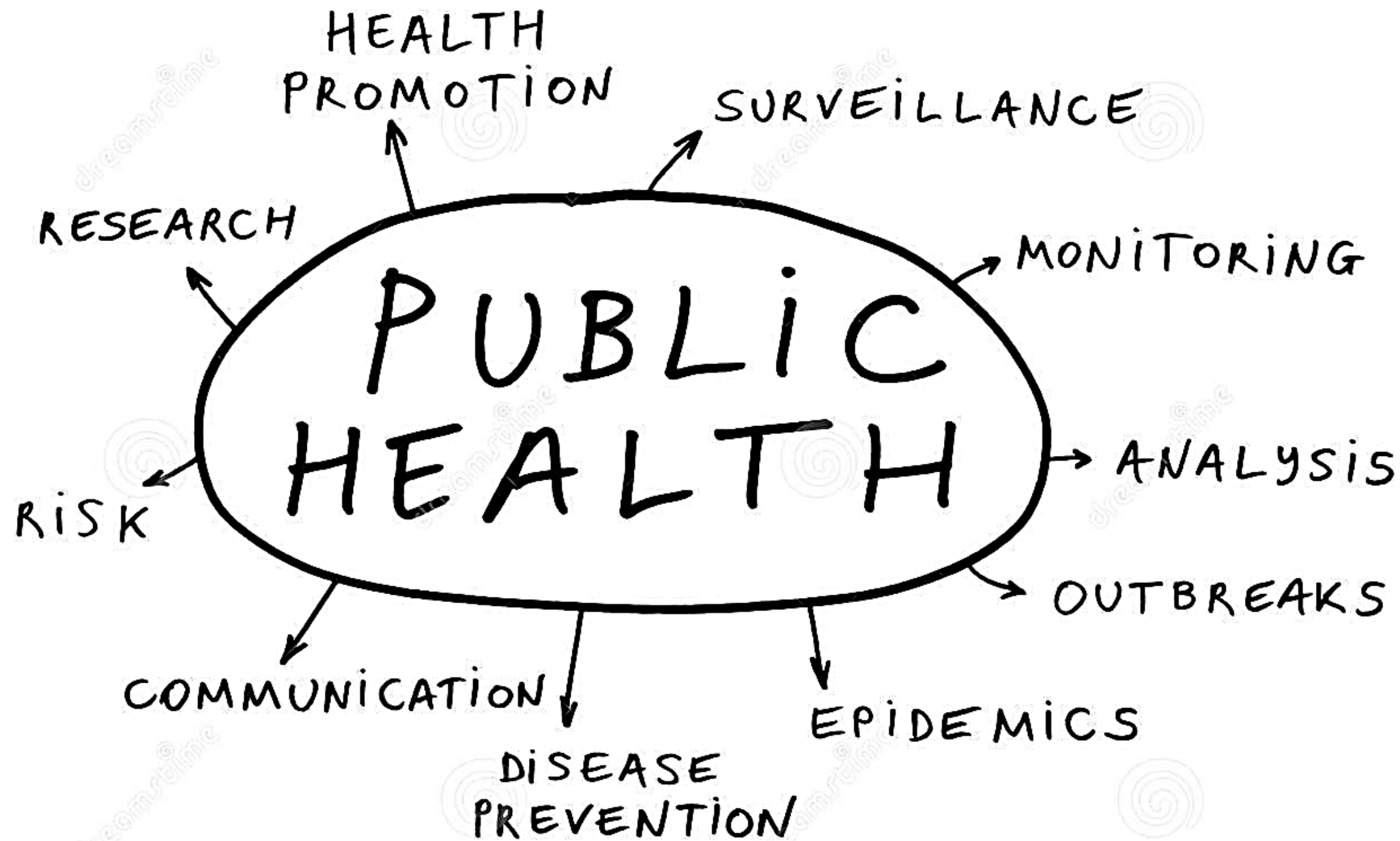
**PUBLIC HEALTH MODEL**



**VS.**

**MEDICAL MODEL**





# Community Health vs Public Health

**Community health** refers to the health status of a defined group of people and the actions and conditions both private and public (governmental) to promote, protect and preserve their health.

**Public health** refers to the health status of a defined group of people and the governmental actions and conditions to promote, protect and preserve their health.

# Core activities in public health

1. Preventing epidemics
2. Protecting the environment, work place ,food and water ;
3. Promoting healthy behavior;
4. Monitoring the health status of the population;



5. Mobilizing community action;
6. Responding to disasters;
7. Assuring the quality ,accessibility, and accountability of medical care;
8. Reaching to develop new insights and innovative solutions and
9. Leading the development of sound health policy and Planning



# The Evolving Need for Public Health 1700s-1800s

- The Age of Industrialization
- People moved from the farms to the cities
- Development of the smallpox vaccine - Edward Jenner
- Introduction of epidemiology – John Snow
- The Germ Theory of Disease - Louis Pasteur
- The four postulates of infectious disease – Robert Koch

# Public Health Achievements

- Vaccination
- Motor-vehicle safety
- Safer workplaces
- Control of infectious diseases
- Decline in deaths from coronary heart disease and stroke
- Safer and healthier foods
- Healthier mothers and babies
- Family planning
- Fluoridation of drinking water
- Recognition of tobacco use as a health hazard CDC, 1999

## **COVID-19**

The ongoing pandemic remains front and center for public health officials. The deadly virus has put the entire world in a state of emergency.

**Public**

**Health**

**Problems**

## **Mental Health Conditions**

One of the many unfortunate side effects of the pandemic has been a decline in our mental health. Quarantines, remote work, and distance learning have impacted people of all ages.

## **Food Safety**

Each year, 1 in 6 Americans get sick from eating contaminated food, and 3,000 die from this cause.

**Public**

**Health**

## **Healthcare-Associated Infections**

We know that hospitals help patients recover and heal from illnesses and injuries, but we don't always think about the healthcare-associated infections (HAIs) that can come from treatment.

**Problems**

## **Motor Vehicle Injuries**

Distracted driving, drunk driving, and vehicle safety are among the top concerns for safety on the road

**Public**

**Health**

## **Nutrition, Physical Activity, and Obesity**

Our nutrition and physical activity is another public health issue that has only been amplified by the COVID-19 pandemic.

**Problems**

**PLEASE**



**#STAYHEALTHY**

