

## PREVENT IT CURRICULA @MANIPAL ACADEMY OF HIGHER EDUCATION



**College Name :** Manipal Academy of Higher Education

**Nature :** Complusary

**Course Name :** Global Public Health in Emergencies

**N.o of Hours :** 30 Hours

**Teaching faculty :** Navya Vyas , Prakash Naryanan

**No. of students :** 20

**Course Program :** Masters in Global Health

**Semester:** Third

**Type :** Modernised

**Course Code:** GH677

### Syllabus

- Introduction to ABR:
- Introduction to ABR: Definition, history of antibiotics use, commonly used antibiotics,
- Laboratory networks:
- The network of laboratories for surveillance, I
- Bio-surveillance:
- Bio-surveillance and assessment of biosecurity
- ABR and Disease surveillance:
- ABR surveillance, Disease surveillance,



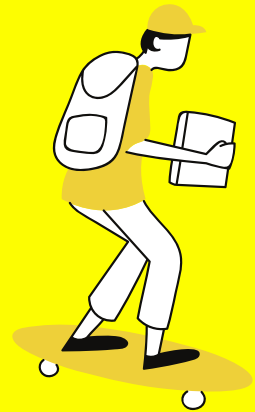
### Teaching Methodology

- Power point presentations
- Chalk-board method
- Problem solving methods

Lecture

### Scope and Objectives

- I -To understand the Antibiotic use in global and national scenario.
- I - To understand the concept of antibiotic resistance, its burden, and various factors responsible for Anti Biotic Resistance (ABR).
- I - To study the surveillance mechanisms, global and national level surveillance systems, laboratory networks, and outbreak investigations to detect ABR, and reporting of ABR.
- I - To apprehend various risks associated with ABR - in humans, animals, food, hospitals, and release of antibiotic residues and antibiotic-resistant bacteria or genes into the environment.



### Recommended Material

- CDC. [https://www.cdc.gov/mmwr/indss\\_2015.html](https://www.cdc.gov/mmwr/indss_2015.html)
- WHO. <https://www.who.int/ihr/9789241596664/en/>
- WHO. [www.who.int/csr/outbreaknetwork/en/](http://www.who.int/csr/outbreaknetwork/en/)
- CDC. Principles of Epidemiology in Public Health Practice (Lesson 3)
- Basic Epidemiology – R Bonita, R Beaglehole, T Kjellstrom

### Evaluation Pattern

- Sessional Test
- End Term Training

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## PREVENT IT CURRICULA @MANIPAL ACADEMY OF HIGHER EDUCATION



**College Name :** Manipal Academy of Higher Education

**Nature :** Complusary

**Course Name :** Health Policy Regulations

**N.o of Hours :** 12 Hours

**Teaching faculty :** Sanjay Patanshetty, Prakash Naryanan

**No. of students :** 16

**Course Program :** Masters in Health Policy

**Semester:** Third

**Type :** Modernised

**Course Code:** HPM677

### Syllabus

-AMR policies:  
Introduction to ABR: Definition, history of antibiotics use, commonly used antibiotics, classification of antibiotics.  
-. Food safety and regulations:  
Importance of food safety, national and international frameworks, and policy initiatives;  
Food policies, ABR and food safety,



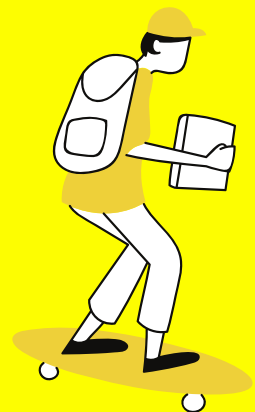
### Teaching Methodology

-Power point presentations  
-Chalk-board method  
-Problem solving methods

Lecture

### Scope and Objectives

I -To understand the Antibiotic use in global and national scenario.  
I - To understand the concept of antibiotic resistance, its burden, and various factors responsible for Anti Biotic Resistance (ABR).  
I - To study the surveillance mechanisms, global and national level surveillance systems, laboratory networks, and outbreak investigations to detect ABR, and reporting of ABR.  
I - To apprehend various risks associated with ABR - in humans, animals, food, hospitals, and release of antibiotic residues and antibiotic-resistant bacteria or genes into the environment.



### Recommended Material

- CDC. [https://www.cdc.gov/mmwr/indss\\_2015.html](https://www.cdc.gov/mmwr/indss_2015.html)  
-WHO. <https://www.who.int/ihr/9789241596664/en/>  
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- CDC. Principles of Epidemiology in Public Health Practice (Lesson 3)  
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## PREVENT IT CURRICULA @MANIPAL ACADEMY OF HIGHER EDUCATION

**College Name :** Manipal Academy of Higher Education

**Nature :** Complusary

**Course Name :** Infectious Diseases and Surveillance

**N.o of Hours :** 36 Hours

**Teaching faculty :** Navya Vyas , Prakash Naryanan

**No. of students :** 25

**Course Program :** Masters in Epidemiology

**Semester:** Second

**Type :** Modernised

**Course Code:** MPH658

### Syllabus

- AMR policies:  
Introduction to ABR: Definition, history of antibiotics use, commonly used antibiotics, classification of antibiotics.
- . Food safety and regulations:  
Importance of food safety, national and international frameworks, and policy initiatives;  
Food policies, ABR and food safety,



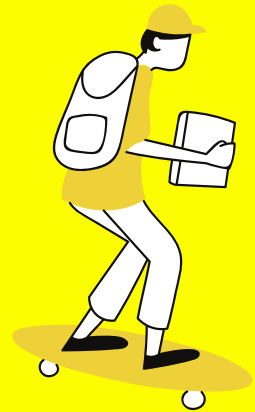
### Teaching Methodology

- Power point presentations
- Chalk-board method
- Problem solving methods

Lecture

### Scope and Objectives

- Introduction To ABR: Definition, history of antibiotics use, commonly used antibiotics, classification of antibiotics.
- Emergence and re-emergence of infectious diseases:  
The burden of communicable diseases (CD) affecting the population, Factors contributing to the persistence of infectious diseases;
  - Transmission dynamics of Communicable diseases and control measures:  
Zoonotic origin of diseases, Eco-environment,  
Control measures for emerging communicable diseases.



### Recommended Material

- CDC. [https://www.cdc.gov/mmwr/indss\\_2015.html](https://www.cdc.gov/mmwr/indss_2015.html)
- WHO. <https://www.who.int/ihr/9789241596664/en/>
- . WHO. [www.who.int/csr/outbreaknetwork/en/](http://www.who.int/csr/outbreaknetwork/en/)
- CDC. Principles of Epidemiology in Public Health Practice (Lesson 3)
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## PREVENT IT CURRICULA @MANIPAL ACADEMY OF HIGHER EDUCATION

**College Name :** Manipal Academy of Higher Education

**Nature :** Complusary

**Course Name :** Nutritional Epidemiology

**N.o of Hours :** 24 Hours

**Teaching faculty :** Navya Vyas , Prakash Naryanan, Arathi P Rao

**No. of students :** 25

**Course Program :** Masters in Epidemiology

**Semester:** Third

**Type :** Modernised

**Course Code:** MPH675

### Syllabus

- Public Health Nutrition, Concepts, and principles
- Policies for Food safety and quality
- International Food Safety Authorities Network
- Role and importance of International Food Safety

### Teaching Methodology

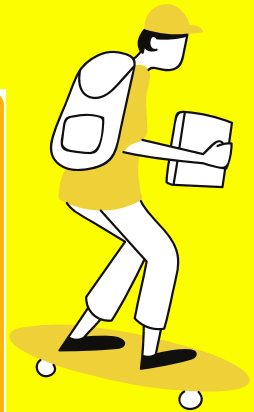
- Power point presentations
- Chalk-board method
- Problem solving methods

Lecture



### Scope and Objectives

- To understand the causes and consequences of Antibiotic use - global and national.
- To understand the concept of antibiotic resistance, its burden, and various factors responsible
- To apprehend various risks associated with ABR - in humans, animals, food, antibiotic-resistant bacteria
- To recognize the various food chain modes of ABR spread,
- To understand risk management and preventive measures on ABR in food production,



### Recommended Material

- CDC. [https://www.cdc.gov/mmwr/indss\\_2015.html](https://www.cdc.gov/mmwr/indss_2015.html)
- WHO. <https://www.who.int/ihr/9789241596664/en/>
- WHO. [www.who.int/csr/outbreaknetwork/en/](http://www.who.int/csr/outbreaknetwork/en/)
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