



MANIPAL
ACADEMY of HIGHER EDUCATION
(Deemed to be University under Section 3 of the UGC Act, 1956)

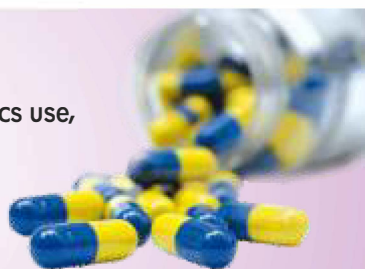
PREVENT IT CURRICULA @MANIPAL ACADEMY

College Name: Manipal Academy of Higher Education
Course Name: Global Public Health in Emergencies
Teaching Faculty: Dr Navya Vyas, Dr Prakash Narayanan
Course Program: Masters in Public Health - Global Health specialization
Type: Modernised

Nature: Compulsory
No. of Hours: 30 Hours
No. of Students: 20
Semester: Third
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
- ✓ 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

RECOMMENDED MATERIAL

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



SCOPE AND OBJECTIVES

- ✓ To understand the Antibiotic use in global and national scenario.
- ✓ To understand the concept of antibiotic resistance, its burden, and various factors responsible for Antibiotic Resistance (ABR).
- ✓ To study the surveillance mechanisms, global and national level surveillance systems, laboratory networks, and outbreak investigations to detect ABR, and reporting of ABR.
- ✓ 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.



EVALUATION PATTERN

- ✓ Sessional Tests
- ✓ End Term Examination



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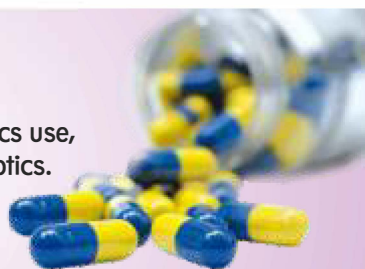
PREVENT IT CURRICULA @MANIPAL ACADEMY

College Name: Manipal Academy of Higher Education
Course Name: Health Policy Regulations
Teaching Faculty: Dr Sanjay Patanshetty, Dr Prakash Narayanan
Course Program: Masters in Public Health - Health Policy Specialization
Type: Modernised

Nature: Compulsory
No. of Hours: 12 Hours
No. of Students: 16
Semester: Third
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 inter-national frameworks, and policy initiatives;
Food policies, ABR and food safety



TEACHING METHODOLOGY

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

RECOMMENDED MATERIAL

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



SCOPE AND OBJECTIVES

- ✓ To understand the Antibiotic use in global and national scenario.
- ✓ To understand the concept of antibiotic resistance, its burden, and various factors responsible for Anti Biotic Resistance (ABR).
- ✓ To study the surveillance mechanisms, global and national level
- ✓ surveillance systems, laboratory networks, and outbreak investigations to detect ABR, and reporting of ABR.
- ✓ 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.



EVALUATION PATTERN

- ✓ Sessional Tests
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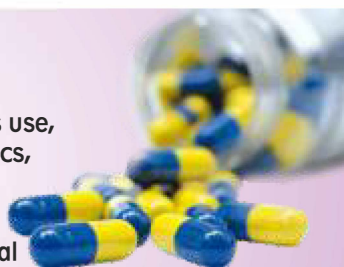
PREVENT IT CURRICULA @MANIPAL ACADEMY

College Name: Manipal Academy of Higher Education
Course Name: Infectious Diseases and Surveillance
Teaching Faculty: Dr Navya Vyas , Dr Prakash Narayanan
Course Program: Masters in Public Health- Epidemiology specialization
Type: Modernised

Nature: Compulsory
No. of Hours: 36 Hours
No. of Students: 25
Semester: Second
Course Code: MPH658

SYLLABUS

- ✓ AMR policies:
Introduction to ABR: Definition, history of antibiotics use, commonly used antibiotics, classification of antibiotics, AMR as emerging public health problem.
- ✓ Food safety and regulations:
Importance of food safety, national and inter- national frameworks, and policy initiatives.
Food policies, ABR and food safety.



TEACHING METHODOLOGY

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

RECOMMENDED MATERIAL

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



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.



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PREVENT IT CURRICULA @MANIPAL ACADEMY

College Name: Manipal Academy of Higher Education
Course Name: Nutritional Epidemiology
Teaching Faculty: Dr Navya Vyas , Dr Prakash Narayanan, Dr Arathi P Rao
Course Program: Masters in Public Health - Epidemiology specialization
Type: Modernised

Nature: Compulsory
No. of Hours: 24 Hours
No. of Students: 25
Semester: Third
Course Code: MPH675

SYLLABUS

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



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RECOMMENDED MATERIAL

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- ✓ WHO. <https://www.who.int/ihr/9789241596664/en/>
- ✓ WHO. www.who.int/csr/outbreaknetwork/en/
- ✓ CDC. Principles of Epidemiology in Public Health Practice (Lesson 3) .
- ✓ Basic Epidemiology – R Bonita, R Beaglehole, T Kjellstrom



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

EVALUATION PATTERN

- ✓ Sessional Tests
- ✓ End Term Examination

