



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

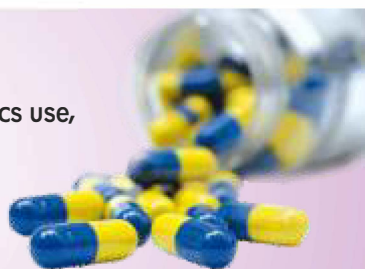
PREVENT IT CURRICULA @MANIPAL ACADEMY

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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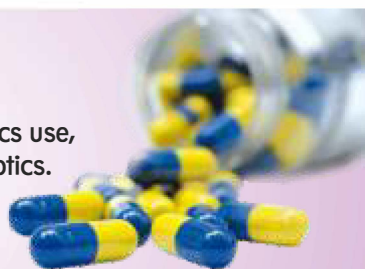
PREVENT IT CURRICULA @MANIPAL ACADEMY

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
- ✓ End Term Examination



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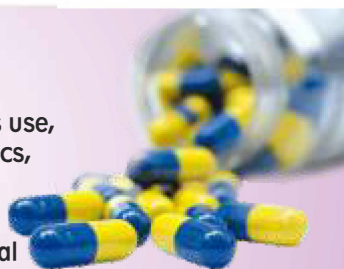
PREVENT IT CURRICULA @MANIPAL ACADEMY

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.



EVALUATION PATTERN

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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



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 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



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PREVENT IT CURRICULA @MANIPAL ACADEMY

College Name: Manipal Academy of Higher Education
Course Name: Nutritional Epidemiology
Teaching Faculty: Dr. Prakash Narayanan
Course Program: Open Elective
Type: New

Nature: Optional
No. of Hours: 44 Hours
No. of Students: 20
Semester: NA
Course Code: MPH675

SYLLABUS

- ✓ Introduction to Antibiotics/Antimicrobials and ABR/AMR
- ✓ Impact and burden of AMR, Causes and Modes of transmission
- ✓ Risk management and Prevention, Global responses to antimicrobial resistance, National response to ABR/AMR



TEACHING METHODOLOGY

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

RECOMMENDED MATERIAL

- ✓ Gandra, S., & Kotwani, A. (2019). Need to improve availability of "access" group antibiotics and reduce the use of "watch" group antibiotics in India for optimum use of antibiotics to contain antimicrobial resistance. Journal of Pharmaceutical Policy and Practice, 12(1), 20. doi:10.1186/s40545-019-0182-1
- ✓ OIE. One Health: One Health - OAH - World Organisation for Animal Health



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 fill the gap and offer the participants a better understanding on AMR and related issues to prevent and manage AMR holistically



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: Quality Management in Healthcare
Teaching Faculty: Prof. K.E Vandana
Course Program: Masters in Hospital Administration (MHA)
Type: Modernised

Nature: Compulsory
No. of Hours: 6 Hours
No. of Students: 60
Semester: First
Course Code: MHA 562

SYLLABUS

- ✓ Hospital antibiotic policy; Purpose of Antibiotic policy; Infection Bundles
- ✓ Antibiotic Stewardship Program; Functions of the Infection Control Committee
- ✓ Essentials of Antibiotic Policy; Antibigram



TEACHING METHODOLOGY

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

RECOMMENDED MATERIAL

- ✓ Quality management in hospitals. S.K. Joshi.
- ✓ Basics of Quality Assurance, HO.
- ✓ Making Quality Count, Dr J Jacob.
- ✓ Total Quality Management in Healthcare, Hugh CH Koch



SCOPE AND OBJECTIVES

- ✓ This course will introduce students to the concepts in Quality in healthcare, their applications, and their importance in a healthcare environment.
- ✓ Students will be able to define Antibiotic policy, identify the care bundles, critically analyse functioning and role of Hospital Infection control committee.

EVALUATION PATTERN

- ✓ In-block assessment
- ✓ End block examination

