Postgraduate Diploma

Clinical Management of Multidrug-Resistant Bacteria

tech global university

tech global university

Postgraduate Diploma
Clinical Management of Multidrug-Resistant Bacteria

- Modality: **online**
- Duration: **6 months**
- Certificate: **TECH Global University**
- Accreditation: **18 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-clinical-management-multidrug-resistant-bacteria

Index

01

Introduction

Clinical Management of Multidrug-Resistant Bacteria represents a growing challenge in contemporary medicine. With the global increase in untreatable infections due to resistance to multiple antibiotics, healthcare professionals are adopting innovative strategies. These include the development of new antimicrobials, rigorous infection control protocols in hospitals, and increased education on the appropriate use of antibiotics to prevent the spread of resistant strains. International collaboration is also crucial to address this public health problem and ensure effective treatment options for patients around the world. In this scenario, TECH has developed a comprehensive 100% online program, tailored to the individual needs of the students. In addition, it is based on the innovative Relearning methodology.

With this 100% online Postgraduate Diploma, you will cover everything from the diagnosis and treatment of infections in highly complex environments, such as ICUs, to the implementation of preventive and control strategies"

The Clinical Management of Multidrug-Resistant Bacteria represents a growing challenge for healthcare professionals around the world. These bacteria have developed resistance to multiple classes of antibiotics, complicate the treatment of common infections and can lead to adverse clinical outcomes and prolonged hospital stays.

That is how this Postgraduate Diploma was created, which will focus on the management of patients with multidrug-resistant infections in Intensive Care Units (ICU), providing specialized knowledge in the diagnosis and treatment of common infections in this critical environment. In addition, key skills for the prevention of these infections, which is crucial to mitigate their spread.

Likewise, the course will delve into Multidrug-Resistant Gram Negative Bacteria, addressing the selection of appropriate empirical antibiotic treatments for suspected infections by these microorganisms. The implementation and relevance of PROA (Program for Optimization of Antimicrobial Agents) teams will also be discussed, specifically in the context of multidrug-resistant Gram Negative Bacteria, highlighting their role in improving clinical outcomes and reducing antimicrobial resistance.

Finally, antibiotic resistance in Gram Positive Bacteria, such as Streptococcus, Enterococcus and Staphylococcus, will be examined. The implications of this resistance, both in Public Health and in daily clinical practice, will also be explored, and effective strategies to mitigate its impact will be analyzed. In this sense, a framework will be provided to understand how antibiotic resistance in these bacteria can affect the management of common diseases and how appropriate preventive and therapeutic measures can be implemented to address this emerging challenge in modern medicine.

Therefore, TECH has designed a complete university program, fully online and flexible, which will only require an electronic device with an Internet connection to access all the contents. Additionally, it is based on the revolutionary learning methodology known as Relearning, which consists of the repetition of key concepts for an optimal and organic assimilation of the contents.

This **Postgraduate Diploma** in **Clinical Management of Multidrug-Resistant Bacteria** contains the most complete and up-to-date program on the market. The most important features include:

- The development of practical cases presented by experts in Microbiology, Medicine and Parasitology
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

You will be trained in the proper selection of empirical antibiotic treatments and in the optimization of the use of antimicrobials, through the best didactic materials, at the forefront of technology and education"

You will analyze the implications of antibiotic resistance in public health and clinical practice, providing an in-depth understanding of how antibiotic resistance impacts the treatment of infections"

You will develop essential skills for the prevention of multidrug-resistant bacteria infections in the ICU, ensuring a comprehensive approach to the management of these complex cases. What are you waiting for to enroll?.

Bet on TECH! You will delve into PROA (Program for Optimization of Antimicrobials) teams for the management of these infections, promoting practices that optimize the use of antimicrobials.

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts in the field of educational coaching with extensive experience.

02

Objectives

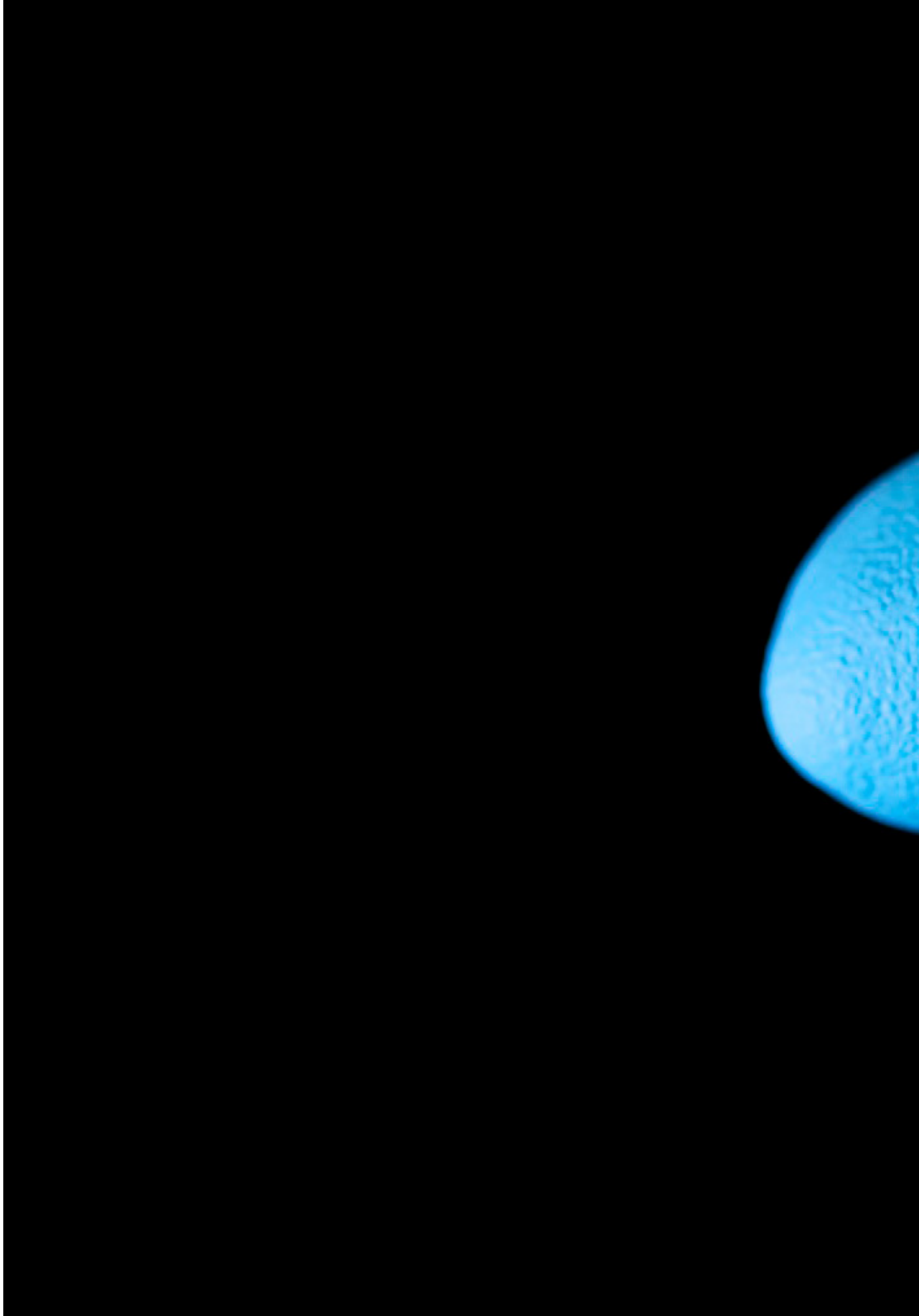
The main objective of this Postgraduate Diploma will be to specialize health professionals in the advanced and specialized knowledge needed to deal with infections caused by bacteria resistant to multiple antibiotics. Therefore, it will provide the necessary skills and competencies to diagnose and treat these infections, especially in critical environments such as Intensive Care Units. In addition, graduates will be trained in the implementation of preventive and infection control strategies, optimizing the use of antimicrobials and actively participating in programs for the optimization of these drugs (PROA).

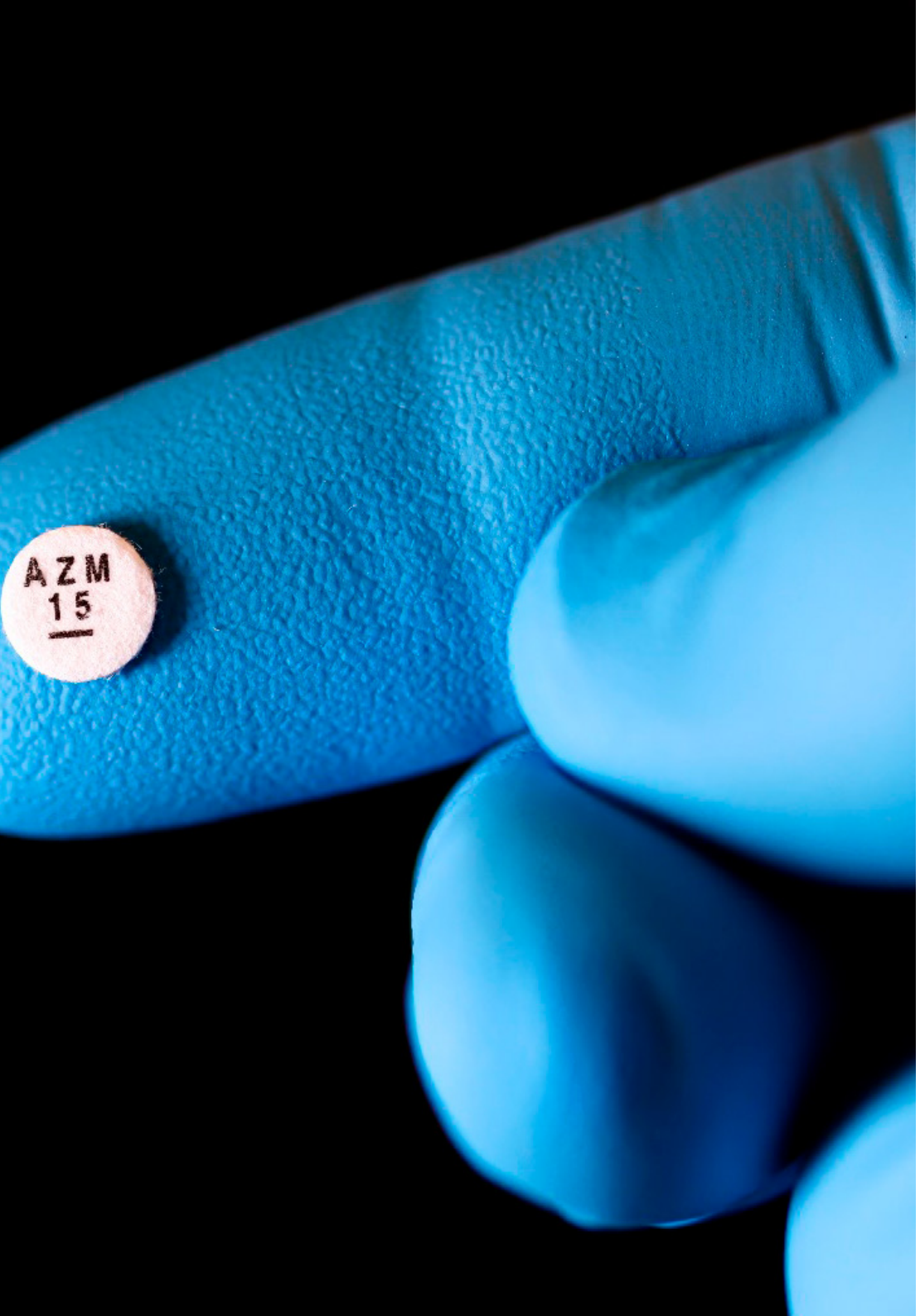
You will delve into the accurate diagnosis and appropriate treatment of these infections, especially in critical settings such as Intensive Care Units, thanks to an extensive library of multimedia resources"

General Objectives

- Understand the colonization and infection of patients in Intensive Care Units (ICUs), the different types and risk factors associated with infection
- Evaluate the impact of Nosocomial Infections in the critically ill patient, including the importance of risk factors and their impact on length of stay in the ICU
- Analyze the effectiveness of infection prevention strategies, including the use of quality indicators, evaluation tools and continuous improvement tools
- Understand the pathogenesis of Gram-negative Infections, including the factors related to these bacteria and patients themselves

You will develop skills in infection prevention and control by implementing strategies for optimizing antimicrobial use and promoting infection control practices"





Specific Objectives

Module 1. Management of Patients with Multidrug-Resistant Bacterial Infections in Intensive Care Units (ICU)

- Acquire specialized knowledge on the diagnosis and treatment of common infections in ICUs
- Develop skills for the prevention of Multiresistant Bacterial Infections in the ICU

Module 2. Multidrug-Resistant Gram Negative Bacteria

- Select the appropriate empirical antibiotic treatment for suspected infections with Multidrug-resistant Gram-negative Microorganisms
- Determine the importance of PROA (Program for Optimization of Antimicrobial Agents) teams in infections by Multidrug-resistant Gram-negative Microorganisms

Module 3. Antibiotic Resistance in Streptococcus, Enterococcusand Staphylococcus

- Explore the implications of antibiotic resistance of the major Gram Positive Bacteria on Public Health and clinical practice
- Discuss strategies to mitigate antibiotic resistance in Gram Positive Bacteria

03

Course Management

The lecturers behind the Postgraduate Diploma in Clinical Management of Multidrug-Resistant Bacteria are highly qualified and recognized professionals in the field of Clinical Microbiology and infectious diseases. In fact, these experts combine a solid academic background with extensive practical experience in the management of multidrug-resistant bacteria infections, both in hospitals and in scientific research. In addition, their pedagogical approach will be based on the transmission of up-to-date, evidence-based knowledge and the promotion of critical skills for effective clinical decision making.

Lecturers will provide a theoretical overview and share case studies and innovative strategies that have proven to be successful in daily clinical practice, providing graduates with comprehensive and applied training"

Management

Dr. Ramos Vivas, José

- Director of the Banco Santander-Universidad Europea del Atlántico Chair in Innovation
- Researcher at the Center for Innovation and Technology of Cantabria (CITICAN)
- Academic of Microbiology and Parasitology at the European University of the Atlantic
- Founder and former director of the Cellular Microbiology Laboratory of the Valdecilla Research Institute (IDIVAL)
- PhD in Biology from the University of León
- Doctor in Sciences from the University of Las Palmas de Gran Canaria
- Degree in Biology from the University of Santiago de Compostela
- Master's Degree in Molecular Biology and Biomedicine from the University of Cantabria
- Member of: CIBERINFEC (MICINN-ISCIII), Member of the Spanish Society of Microbiology and Member of the Spanish Network of Research in Infectious Pathology

Professors

Dr. Domenech Lucas, Mirian

- Researcher at the Spanish Reference Laboratory for Pneumococci, National Centre of Microbiology
- Researcher in International Groups led from College London, UK and Radboud University in the Netherlands
- Academician of the Department of Genetics, Physiology and Microbiology of UCM
- PhD in Biology from the Complutense University of Madrid
- Degree in Biology, specializing in Biotechnology from UCM
- Diploma of Advanced Studies, UCM

Dr. Suberviola Cañas, Borja

- Assistant Physician of the Intensive Care Medicine Service at the Marqués de Valdecilla University Hospital
- Principal Investigator and Collaborating Researcher in 6 projects with competitive funding
- Doctor in Medicine by the University of Cantabria
- Specialty in Intensive Care Medicine and Resuscitation at the Marqués de Valdecilla University Hospital in Santander
- Degree in Medicine from the University of the Basque Country
- Master's Degree in Infectious Diseases in the Critically Ill Patient from the University of Valencia
- Member and Vice-coordinator of the Working Group on Infectious Diseases and Sepsis (GTEIS) of the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units (SEMICYUC)
- Member of the Group of Infectious Diseases in the Critical Patient of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC)

Dr. Armiñanzas Castillo, Carlos

- FEA at the University Hospital Marqués de Valdecilla, Cantabria
- Researcher at the Valdecilla Research Institute (IDIVAL), Cantabria
- Doctor in Medicine by the University of Cantabria
- Master's Degree in Human Immunodeficiency Virus Infection, Rey Juan Carlos University
- Master's Degree in Graphic Medicine from the International University of Andalusia
- Degree in Medicine from the University of Cantabria
- Member of: Centre for Biomedical Research in the Infectious Diseases Network CIBERINFEC (MICINN-ISCIII) and Society of Infectious Diseases and Clinical Microbiology (SEIMC)

A unique, crucial and decisive learning experience to boost your professional development"

04

Structure and Content

This program is structured in specialized modules that will cover from the management of infections in Intensive Care Units (ICU), with a focus on advanced diagnosis and treatment, to the appropriate selection of empirical treatments for multidrug-resistant Gram Negative Bacteria. In addition, resistance in Gram Positive Bacteria such as Streptococcus, Enterococcus and Staphylococcus will be discussed in depth, exploring its implications in Public and Clinical Health. The importance of Antimicrobial Optimization Programs (PROA) and resistance mitigation strategies will also be emphasized.

The contents of this Postgraduate Diploma have been carefully designed to address the most critical and current aspects of treatment and prevention of multidrug-resistant bacteria infections"

Module 1. Management of Patients with Multidrug-Resistant Bacterial Infections in Intensive Care Units (ICU)

1.1. Colonization and Infection of Patients in ICUs
- 1.1.1. Types of ICUs
- 1.1.2. Epidemiology
- 1.1.3. Risk Factors Associated with Infection in ICUs

1.2. Impact of Nosocomial Infections in the Critically Ill Patient
- 1.2.1. Importance of Nosocomial Infections in ICUs
- 1.2.2. Risk Factors for Nosocomial Infections
  - 1.2.2.1. Patient Factors
  - 1.2.2.2. Factors of the ICU Environment
  - 1.2.2.3. Factors Related to the Healthcare Personnel
- 1.2.2. Impact of Nosocomial Infections in Immunocompromised Patients
- 1.2.3. Impact on Length of Stay in the ICU

1.3. Pneumonia Associated with Mechanical Ventilation
- 1.3.1. Etiology
- 1.3.2. Diagnosis
- 1.3.3. Treatment

1.4. Urinary Tract Infections Associated with Catheters
- 1.4.1. Etiology
- 1.4.2. Diagnosis
- 1.4.3. Treatment

1.5. Primary Bacteremias and Catheter-Related Bacteremias
- 1.5.1. Etiology
- 1.5.2. Diagnosis
- 1.5.3. Treatment

1.6. Pseudomembranous Colitis
- 1.6.1. Etiology
- 1.6.2. Diagnosis
- 1.6.3. Treatment

1.7. Infections by Opportunistic Pathogens
- 1.7.1. Etiology
- 1.7.2. Diagnosis
- 1.7.3. Treatment

1.8. Appropriate Use of Antibiotics
- 1.8.1. Programs for the Optimization of Antibiotic use (PROA) in the ICU
- 1.8.2. Antibiotic Therapy Strategies for the Treatment of Gram-Negative Patients
- 1.8.3. Antibiotic Therapy Strategies for the Treatment of Gram-Positive Patients
- 1.8.4. Antibiotic Therapy Strategies for the Treatment of Co-Infections

1.9. Strategies for the Prevention of BMR Infections in the ICU
- 1.9.1. Hygiene Measures
- 1.9.2. Infection Control Measures
- 1.9.3. Protocols and Clinical Practice Guidelines
- 1.9.4. Education and Training of ICU Personnel
- 1.9.5. Participation of Patients and their Families

1.10. Infection Prevention Strategies in the ICU
- 1.10.1. Infection Prevention Strategies in the ICU According to the Focus
  - 1.10.1.1. Pneumonia
  - 1.10.1.2. Bacteremia
  - 1.10.1.3. Urinary Infection
- 1.10.2. Evaluation and Quality Indicators in the Prevention of Infections
- 1.10.3. Evaluation and Continuous Improvement Tools
- 1.10.4. Successful Examples of Infection Prevention in ICUs

Module 2. Multidrug-Resistant Gram Negative Bacteria

2.1. Infections Due to Gram-Negative Microorganisms
- 2.1.1. Epidemiology of Gram-Negative Microorganisms
- 2.1.2. Community and Nosocomial Infections by Gram-Negative Microorganisms
- 2.1.3. Relevance of Infections by Multidrug-Resistant Gram-Negative Microorganisms

2.2. Pathogenesis of Infections by Gram-Negative Microorganisms
- 2.2.1. Factors Related to Gram-Negative Microorganisms
- 2.2.2. Patient Factors in Gram-Negative Infections
- 2.2.3. Other Factors in Gram-Negative Infections

2.3. Clinical Evaluation of Patients with Multidrug-Resistant Gram-Negative Infections
- 2.3.1. Medical History
- 2.3.2. Clinical Evaluation of Patients
- 2.3.3. Other Data of Interest

2.4. Complementary Tests in Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.4.1. Blood Tests
- 2.4.2. Imaging Tests
- 2.4.3. Microbiological Techniques

2.5. Estimation of Severity in Patients with Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.5.1. Gram-Negative Multidrug-Resistant Microorganisms
- 2.5.2. Traditional Approach to Severity Estimation
- 2.5.3. Practical Conclusions

2.6. Risk of Acquiring Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.6.1. Clinical Factors in the Acquisition of Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.6.2. Other Factors in the Acquisition of Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.6.3. Tools to Calculate the Risk of Presence of Multidrug-Resistant Gram-Negative Microorganisms

2.7. Empirical Treatment in the Suspicion of Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.7.1. Microorganisms Involved According to Localization
- 2.7.2. Comprehensive Assessment of Patients with Suspected Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.7.3. Selection of Empirical Antibiotic Treatment

2.8. Targeted Therapy in Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.8.1. Adjustment of Antibiotic Therapy According to Microbiological Results
- 2.8.2. Follow-up of Multidrug-Resistant Gram-Negative Microorganism Infection
- 2.8.3. Most Relevant Side Effects of Antibiotherapy

2.9. Duration of Antibiotherapy in Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.9.1. Estimation of the Duration of Antibiotic Treatment in Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.9.2. Relevance of Focus Control in Infections by Multidrug-Resistant Gram-Negative Microorganisms
- 2.9.3. Special Considerations Related to Antibiotic Therapy in These Infections

2.10. PROA Teams in Infections Caused by Multidrug-Resistant Gram-Negative Microorganisms
- 2.10.1. PROA Teams: History
- 2.10.2. Impact of PROA Teams on the Correct Use of Antibiotic Treatments
- 2.10.3. Challenge of PROA Teams in the Treatment of Infections Caused by Multiresistant Gram-Negative Microorganisms

Module 3. Antibiotic Resistance in Streptococcus, Enterococcus and Staphylococcus

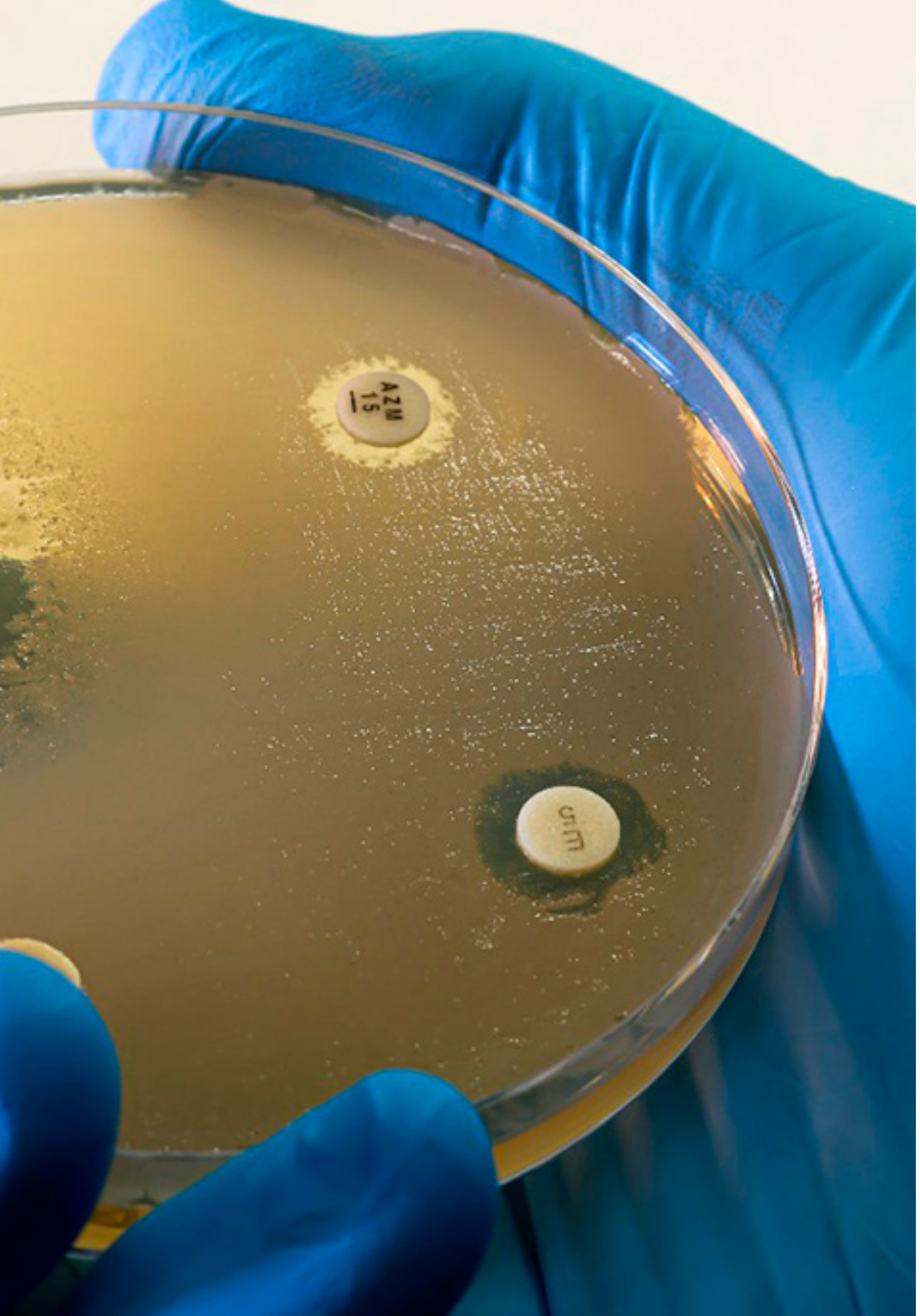
3.1. Infections Due to Gram-Positive Bacteria
- 3.1.1. Natural Habitat of Gram-Positive Pathogens
- 3.1.2. Nosocomial Infections due to Gram-Positive Bacteria
- 3.1.3. Community-Acquired Infections by Gram-Positive Bacteria

3.2. In Vitro and in Vivo Systems for the Study of Resistance in Gram-Positive Bacteria
- 3.2.1. *Biofilms*
- 3.2.2. Cellular Models
- 3.2.3. Animal Models

3.3. *Streptococcus Pneumoniae*
- 3.3.1. Clinical Significance
- 3.3.2. Resistance Mechanisms
- 3.3.3. *Biofilms*
- 3.3.4. Treatment Options

3.4. *Streptococcus Pyogenes*
- 3.4.1. Clinical Significance
- 3.4.2. Resistance Mechanisms
- 3.4.3. *Biofilms*
- 3.4.4. Treatment Options

3.5. *Streptococcus Agalactiae*
- 3.5.1. Clinical Significance
- 3.5.2. Resistance Mechanisms
- 3.5.3. *Biofilms*
- 3.5.4. Treatment Options



3.6. *Enterococcus Faecalis*
- 3.6.1. Clinical Significance
- 3.6.2. Resistance Mechanisms
- 3.6.3. *Biofilms*
- 3.6.4. Treatment Options

3.7. *Enterococcus Faecium*
- 3.7.1. Clinical Significance
- 3.7.2. Resistance Mechanisms
- 3.7.3. *Biofilms*
- 3.7.4. Treatment Options

3.8. *Staphylococcus Aureus*
- 3.8.1. Clinical Significance
- 3.8.2. Resistance Mechanisms
- 3.8.3. *Biofilms*
- 3.8.4. Treatment Options

3.9. *Mycobacterium Tuberculosis*
- 3.9.1. Clinical Significance
- 3.9.2. Resistance Mechanisms
- 3.9.3. Treatment Options

3.10. Resistance in Other Gram-Positive Bacteria
- 3.10.1. *Coagulase-Negative Staphylococcus*
- 3.10.2. *Clostridioides Difficile*
- 3.10.3. Emerging Gram Positive Pathogens

Through this content, you will acquire in-depth knowledge and practical skills to address the challenges associated with Multidrug-Resistant Bacteria infections in diverse clinical settings"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

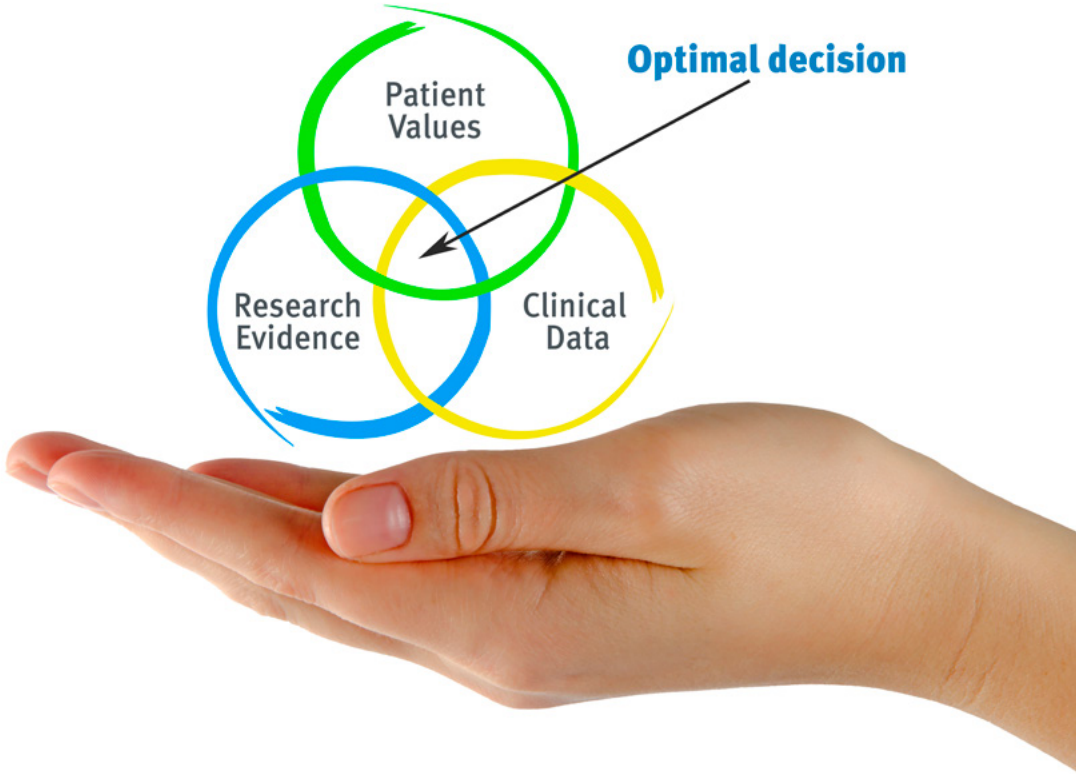
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"

The effectiveness of the method is justified by four fundamental achievements:

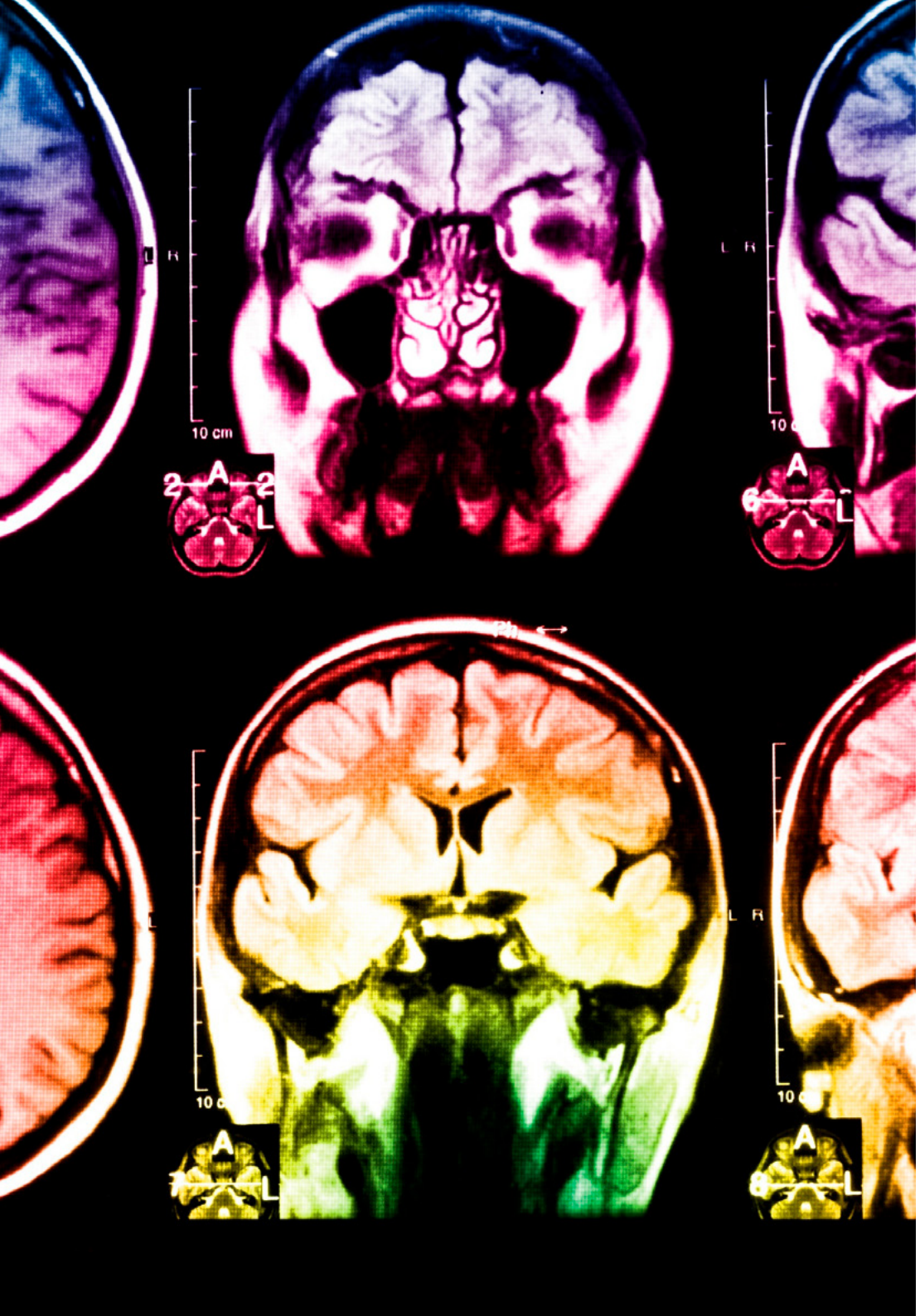
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.

This program offers the best educational material, prepared with professionals in mind:

Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.

Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.

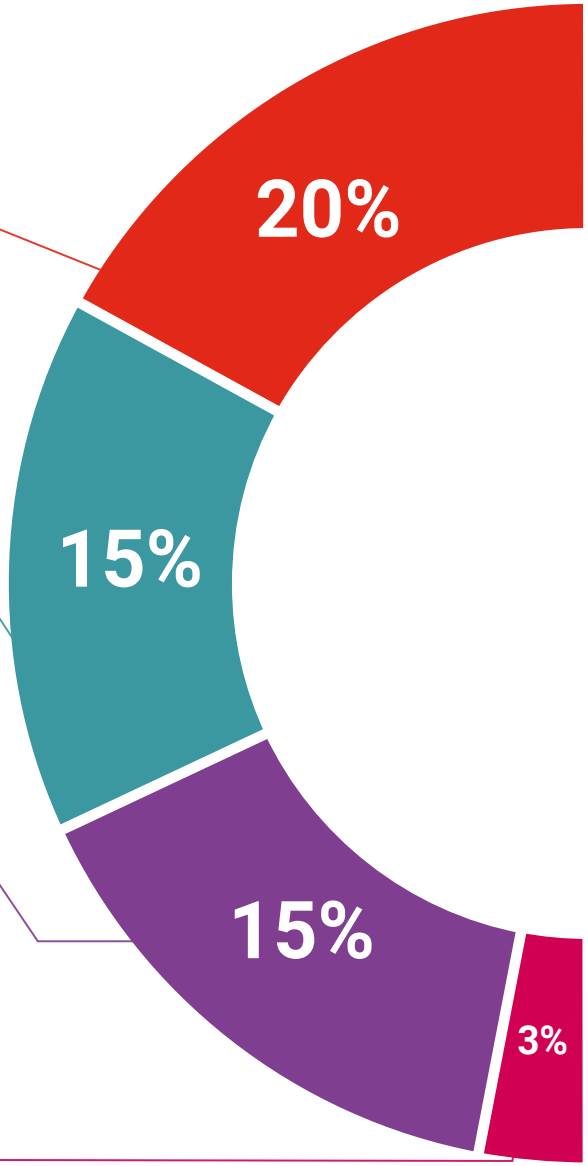
Interactive Summaries

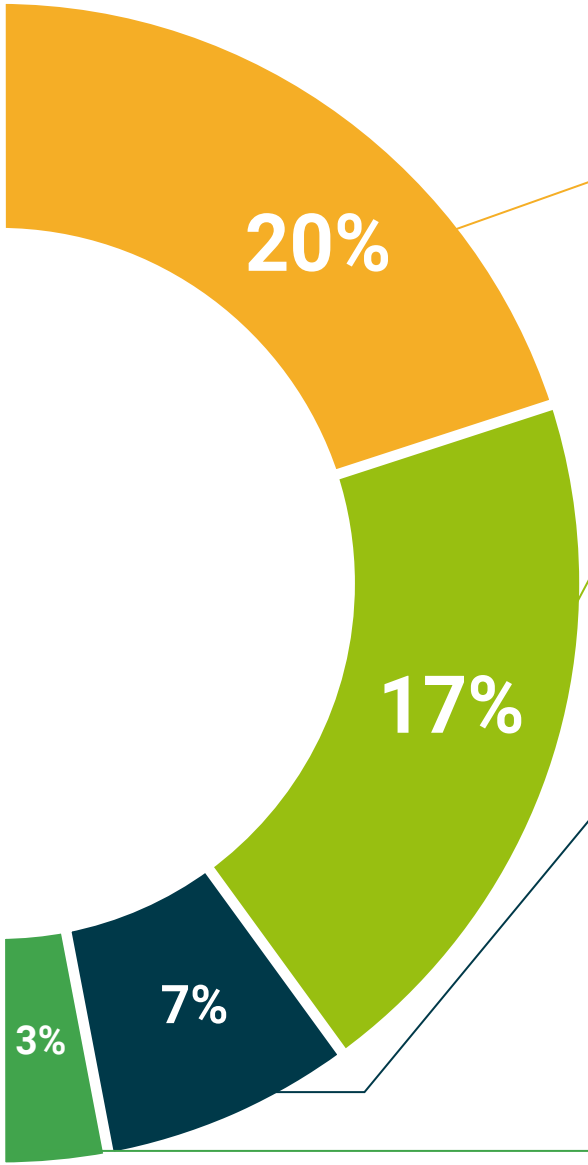
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.

Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.

Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.

06

Certificate

The Postgraduate Diploma in Clinical Management of Multidrug-Resistant Bacteria guarantees, in addition to the most accurate and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This private qualification will allow you to obtain a **Postgraduate Diploma in Clinical Management of Multidrug-Resistant Bacteria** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ***(official bulletin)***. Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Clinical Management of Multidrug-Resistant Bacteria**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**


tech global university

Mr./Ms. _____ , with identification document _____
has successfully passed and obtained the title of :

Postgraduate Diploma in Clinical Management of Multidrug-Resistant Bacteria

This is a private qualification of 540 hour s of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy .

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 202 4

Dr. Pedro Navarro Illan a
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

tech global university

Postgraduate Diploma

Clinical Management of Multidrug-Resistant Bacteria

- Modality: **online**
- Duration: **6 months**
- Certificate: **TECH Global University**
- Accreditation: **18 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Postgraduate Diploma

Clinical Management of Multidrug-Resistant Bacteria

tech global university