

## Introduction

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# Introduction to XII Updating Course of Antimicrobials and Infectious Diseases

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Last February, the XII Updating Course of Antimicrobials and Infectious Diseases edition was held at Hospital Clínico San Carlos in Madrid. It was a scientific activity accredited by the Community of Madrid Commission for Continuing Education of Health Professions at the Community of Madrid (file number 07-AFOC-00085.0/2022, 1,3 Credits) and endorsed by Spanish Society of Clinical Microbiology and Infectious Diseases (SEIMC), Spanish Society of Chemotherapy (SEQ) and Madrid Society of Clinical Microbiology (SMMC). This year, the course was online edited and reached peaks over 700 connections with continuous mean over 500. The audience consisted of multidisciplinary professionals of all specialties related to infection, the teachers made an update of the most relevant aspects on bacteriology, mycology, and virology.

Current journal issue includes summaries of the lectures given in the presentational course. It also includes the questionnaire with the evaluations made by the students and a sheet of correct answers to being able to contrast the results. The supplement is divided into five headings. First one, entitled "Approach to management of SARS-CoV-2 infection", included topics such as the analysis of most vulnerable groups to infection, as well as the antiviral therapeutic management, the current use of monoclonal antibodies and the integrated management of hyperinflammatory syndrome. Second round table, entitled "Approach to Infection models" dealt with topics such as Integral approach to infection in the diabetic foot, current antimicrobial treatment of nosocomial pneumonia or pharmacodynamic optimization of antimicrobial treatment in sepsis. Also under this heading, topics such as the global strategy for the treatment of HIV infection in 2022 and the transmission of bacterial resistance from the animal and plant world (the

one health concept) were also reviewed. Third section entitled "Update on antimicrobial pharmacotherapy against multidrug-resistant Gram-negative bacilli", included controversies in the treatment of infections caused by ESBL-producing enterobacteria in clinical practice and a current approach in the treatment of infections caused by carbapenemase-producing enterobacteria or multidrug-resistant non-fermenting gram-negative bacilli (*Pseudomonas aeruginosa*, *Acinetobacter baumannii* and *Stenotrophomonas maltophilia*). Fourth heading entitled "Approach to infection in immunosuppressed patients" analyzed SARS-CoV-2 infection in donation and transplant, persistent and recurrent infections in primary immunodeficiencies (congenital), the differential diagnosis of pulmonary infiltrates in oncology patients undergoing immunotherapy and current management of cytomegalovirus infection in oncology patients. Last round table, entitled "Current strategies for infectious diseases management", included topics like rapid microbiological techniques for therapeutic optimization (Diagnosis stewardship), clinical applicability of new EUCAST 2019 breakpoint susceptibility classification, new bacteremia prediction models and implications, practical approach to latent tuberculosis infection, real applicability of therapeutic strategies against *Clostridioides difficile* or the duration of antimicrobial treatment were analyzed.

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