**M3 Literature Review**

**Period: 08/02/2024 – 08/03/2024**

[Scientific Highlights: 1](#_Toc143520007)

[Clostridioides difficile/ Clostridium difficile 3](#_Toc143520008)

[Fidaxomicin & Clostridium difficile 4](#_Toc143520009)

[Clostridioides difficile vaccine 4](#_Toc143520010)

[Vancomycin & CDI 4](#_Toc143520011)

[CDI 4](#_Toc143520012)

[FMT/ Fecal Microbiota Transplant 5](#_Toc143520013)

[Competitors 5](#_Toc143520014)

[CDAD 6](#_Toc143520015)

[CMC 6](#_Toc143520016)

[Guidelines 6](#_Toc143520017)

[Non-toxigenic C. difficile 6](#_Toc143520018)

[MGB 6](#_Toc143520019)

[Other news of possible interest 7](#_Toc143520020)

Scientific Highlights:

1. A rationally designed antimicrobial peptide from structural and functional insights of Clostridioides difficile translation initiation factor 1.
2. Primary clostridium difficile infection in patients with ulcerative colitis: Case report and literature review.
3. Current perspectives on fecal microbiota transplantation in inflammatory bowel disease.
4. The burden of Clostridioides difficile infections in South-East Asia and the Western Pacific: A narrative review.
5. The management of Clostridioides difficile infection: from empirism to evidence.
6. A Systematic Literature Review on Risk Factors for and Timing of Clostridioides difficile Infection in the United States.
7. Molecular docking, dynamics and in vitro analysis of multi-target inhibitors for Clostridioides difficile.
8. Clostridioides difficile -mucus interactions encompass shifts in gene expression, metabolism, and biofilm formation.
9. Rapid Isothermal Detection of Pathogenic Clostridioides difficile Using Recombinase Polymerase Amplification.
10. Pharmacomicrobiomics: Immunosuppressive Drugs and Microbiome Interactions in Transplantation.
11. Estimating excess mortality and economic burden of Clostridioides difficile infections and recurrences during 2015-2019: The RECUR England study.
12. Metagenomic, metabolomic, and lipidomic shifts associated with fecal microbiota transplantation for recurrent Clostridioides difficile infection.
13. Identification of Clostridioides difficile mutants with increased daptomycin resistance.
14. Microbiota-Based Live Biotherapeutic Products for Clostridioides Difficile Infection- The Devil is in the Details.
15. Assessment of Knowledge and Practice of Healthcare Providers in Saudi Arabia Regarding Clostridioides difficile Infection Diagnosis and Management: A Cross-Sectional Questionnaire-Based Study.
16. Reduced Vancomycin Susceptibility in Clostridioides difficile is Associated with Lower Rates of Initial Cure and Sustained Clinical Response.
17. Clostridioides difficile Infection: Diagnosis and Treatment Challenges.
18. Faecal microbiota transplantation in children: A systematic review.
19. AGA Clinical Practice Guideline on Fecal Microbiota-Based Therapies for Select Gastrointestinal Diseases.
20. Urinary Tract Infection Prevention and Treatment.
21. Clostridioides difficile recurrence in individuals with and without cancer: a Swedish population-based cohort study.
22. RelQ-mediated alarmone signaling regulates growth, sporulation, and stress-induced biofilm formation in Clostridioides difficile.
23. Long-term beneficial effect of faecal microbiota transplantation on colonisation of multidrug-resistant bacteria and resistome abundance in patients with recurrent Clostridioides difficile infection.
24. SER-109 (VOWST(™)): A Review in the Prevention of Recurrent Clostridioides difficile Infection.
25. Recurrence of Clostridioides difficile infection and mortality in older inpatients.
26. Protective effects of fecal microbiota transplantation against ischemic stroke and other neurological disorders: an update.

Clostridioides difficile/ Clostridium difficile

1. The multiplicity of thioredoxin systems meets the specific lifestyles of Clostridia.
2. Mean Length of Utterance: A study of early language development in four Southern Bantu languages.
3. The thermoelectric properties of CdBr, CdI, and Janus Cd(2)BrI monolayers with low lattice thermal conductivity.
4. Culture-independent detection of low-abundant Clostridioides difficile in environmental DNA via PCR.
5. Isofagomine Inhibits Multiple TcdB Variants and Protects Mice from Clostridioides difficile-Induced Mortality.
6. L'accès à des services d'interprétation appropriés, essentiel pour la santé des enfants.
7. Ileal Conduit versus Cutaneous Ureterostomy after Open Radical Cystectomy: Comparison of 90-Day Morbidity and Tube Dependence at Intermediate Term Follow-Up.
8. Knee landmarks detection via deep learning for automatic imaging evaluation of trochlear dysplasia and patellar height.
9. Microscopy methods for Clostridioides difficile.
10. No correlation exists Between Tibial And Femoral Based Measurements Of Patella Alta In A Population with chronic patellofemoral pain or instability undergoing patella distalisation.
11. C'est difficile: an encounter with infection while taking antibiotics.
12. Publisher Correction: The transcriptional cofactor Tle3 reciprocally controls effector and central memory CD8(+)T cell fates.
13. The pH-responsive SmrR-SmrT system modulates C. difficile antimicrobial resistance, spore formation, and toxin production.
14. Correlation between choroidal vascularity and retrobulbar ocular blood flow changes and thyroid-associated ophthalmopathy activity: a cross-sectional study.
15. Usefulness of a new immunochromatographic assay using fluorescent silica nanoparticles for serodiagnosis of Thai patients with amebiasis.
16. Pre-fusion motion state determines the heterogeneity of membrane fusion dynamics for large dense-core vesicles.
17. Microbiota encoded fatty-acid metabolism expands tuft cells to protect tissues homeostasis during Clostridioides difficile infection in the large intestine.
18. Comparative evaluation of the detection rate, workflow and associated costs of a multiplex PCR panel versus conventional methods in diagnosis of infectious gastroenteritis.
19. Effective chromium mitigation using phosphorous doped bio carbon electrode via capacitive deionisation.
20. Analysis of risk factors for depression and anxiety related to the degree of asthma control in children according to gender.
21. Lower serum ferritin levels are associated with worse cognitive performance in aging.
22. Impact of penicillin allergy labels on surgical site infections in a large UK cohort of gastrointestinal surgery patients.
23. Decreased Effective Patellar Tendon Length following Distalization Tibial Tubercle Osteotomy without Patellar Tendon Tenodesis.
24. Polynucleotides HPT for Asian Skin Regeneration and Rejuvenation.
25. Emerging Frontiers in Multichannel Membrane Capacitive Deionization: Recent Advances and Future Prospects.
26. Diminished hedonic capacity in social activities as a mediator of the link between dysfunctional behavioral activation system and depressive symptoms.
27. Tibial Tubercle Trochlear Groove Distance Does Not Correlate With Patellar Tendon Length in Patients Who Underwent Anterior Cruciate Ligament Reconstruction.
28. The Influence of Tibial Tubercle-Sparing Slope-Reducing Osteotomy on Patellar Height in Patients Undergoing Revision ACL Reconstruction.
29. Anionic liposome formulation for oral delivery of thuricin CD, a potential antimicrobial peptide therapeutic.
30. Kcs1 and Vip1: The Key Enzymes behind Inositol Pyrophosphate Signaling in Saccharomyces cerevisiae.
31. Enhancing Vitamin D3 Efficacy: Insights from Complexation with Cyclodextrin Nanosponges and Its Impact on Gut-Brain Axes in Physiology and IBS Syndrome.
32. Persistence of Chronic Lymphocytic Leukemia Stem-like Populations under Simultaneous In Vitro Treatment with Curcumin, Fludarabine, and Ibrutinib: Implications for Therapy Resistance.
33. Determination of Risk Factors for Infectious Diarrhea in Patients with Hematological Malignancy.
34. Superb Microvascular Imaging in Pediatric Focal Nodular Hyperplasia.
35. Optimizing antibiotic management for patients with acute appendicitis: A quality improvement study.
36. [Difficult-to-treat depression: an integrative approach to therapeutic resistance.].
37. Effect of a Virtual Reality Simulation Modality on Registered Nurse Knowledge and Behavior Related to Clostridioides difficile Prevention.
38. Treating Emotional Disorders in Spanish Children: A Controlled Randomized Trial in a Clinical Setting.
39. Real-World Retrospective Analysis of Alemtuzumab Outcomes in Relapsing-Remitting Multiple Sclerosis: The LEMCAM Study.
40. Therapeutic developments for tuberculosis and nontuberculous mycobacterial lung disease.
41. Clinical decision support for gastrointestinal panel testing.
42. Changing the culture: impact of a diagnostic stewardship intervention for urine culture testing and CAUTI prevention in an urban safety-net community hospital.
43. Long-term clinical outcomes in patients with multiple sclerosis who are initiating disease-modifying therapy with natalizumab compared with BRACETD first-line therapies.
44. Cation-exchange fibers and silver nanoparticles-modified carbon electrodes for selective removal of hardness ions and simultaneous deactivation of microorganisms in capacitive deionization.
45. Integrated hierarchical porous lignin-based carbon electrode for boosting membrane-free capacitive deionization areal adsorption capacity.
46. Association Between Smoking Status and the Efficacy and Safety of Tofacitinib in Patients with Ulcerative Colitis.
47. On the genetic basis of tail-loss evolution in humans and apes.
48. Neonicotinoid insecticides in waters of the northern Jiangsu segment of the Beijing-Hangzhou Grand Canal: Environmental and health implications.
49. Gallium Hydride-Catalyzed Selective Hydroboration of Unsaturated Organic Substrates.
50. Kinetic-Thermodynamic Promotion Engineering toward High-Density Hierarchical and Zn-Doping Activity-Enhancing ZnNiO@CF for High-Capacity Desalination.
51. Development of a composite drought indicator for operational drought monitoring in the MENA region.
52. COVID-19 Australia: Epidemiology Report 80: Reporting period ending 22 October 2023.
53. Differences in Possible Risk Factors, Treatment Strategies, and Outcomes of Neonatal Pneumothorax in Preterm and Term Infants.
54. Comparing ocrelizumab to interferon/glatiramer acetate in people with multiple sclerosis over age 60.
55. The Effectiveness of High-dose Intravenous Immunoglobulin for Clostridioides difficile Infection Complicated by Kawasaki Disease: A Pediatric Case Report.
56. A Severe Infection Caused by a White Colony-Producing Strain of Clostridioides difficile RTC41/ST588.

Fidaxomicin & Clostridium difficile

Clostridioides difficile vaccine

1. Immunogenicity and safety in rabbits of a Clostridioides difficile vaccine combining novel toxoids and a novel adjuvant.
2. Clostridioides difficile Flagella.
3. Clostridioides difficile infection: history, epidemiology, risk factors, prevention, clinical manifestations, treatment, and future options.

Vancomycin & CDI

1. Re: 'The Effect of Antibiotic Therapy for Clostridioides difficile Infection on Mortality and Other Patient-Relevant Outcomes' by Stabholz et al.
2. Prevalence and antimicrobial resistance of bacterial enteropathogens in Crete, Greece, during 2011-2022.
3. Antibacterial activity of ibezapolstat against antimicrobial-resistant clinical strains of Clostridioides difficile.
4. Activity of Gut-Derived Nisin-like Lantibiotics against Human Gut Pathogens and Commensals.
5. Healthcare-associated infections and antimicrobial resistance in Canadian acute care hospitals, 2017-2021.
6. Increase of healthcare-onset Clostridioides difficile infection in adult population since SARS-CoV-2 pandemic: A retrospective cohort study in a tertiary care hospital from 2019 to 2022.
7. Prevalence and Antibiotic Resistance of Clostridioides (Clostridium difficile) In Meat and Meat Products: A Systematic Review and Meta-Analysis.
8. Atypical Clostridium difficile Infection in a Pregnant Patient: A Case Study on Non-Diarrheal Presentation and Syndrome of Inappropriate Antidiuretic Hormone (SIADH) Complication.

CDI

1. Metronidazole promotes oxidative stress and DNA fragmentation-mediated myocardial injury in albino mice.
2. Intraperitoneal vancomycin plus levofloxacin for the treatment of peritoneal dialysis-related peritonitis in patients with no response to cefazolin plus ceftazidime.
3. Comparison of vancomycin area under the curve calculated based on Bayesian approach versus equation-based approach.
4. Dilarmycins A-C, Calcium-Dependent Lipopeptide Antibiotics with a Non-canonical Ca(2+)-Binding Motif.
5. Prevalence and antimicrobial resistance of Enterococcus spp. isolated from animal feed in Japan.
6. A disulfide molecule-vancomycin nanodrug delivery system efficiently eradicates intracellular bacteria.
7. A case report of refractory amebic colitis and literature review.
8. Triple Gram-negative bacterial endophthalmitis following intravitreal injection.
9. Nutritional Value and in vitro Antigiardial Activity of Anise (Pimpinella anisum L.) Seeds.
10. Vancomycin relieves tacrolimus-induced hyperglycemia by eliminating gut bacterial beta-glucuronidase enzyme activity.
11. Optimizing Antibiotic Therapy for Intravenous Drug Users: A Narrative Review Unraveling Pharmacokinetics/Pharmacodynamics Challenges.
12. Heterogeneity in practices to reduce the risk of transmission of Clostridioides difficile in healthcare settings: a survey of ESCMID Study Group for Clostridioides difficile (ESGCD) members.
13. Empiric treatment of healthcare-associated central nervous system infections in Denmark: do we need carbapenems?
14. Characterization of Virulence Factors and Antimicrobial Susceptibility of Streptococcus agalactiae Associated with Bovine Mastitis Cases in Thailand.
15. Helicobacter pylori Eradication Therapy in Patients with Decreased Renal Function: A Systematic Review.
16. Features of Changes in the Structure and Properties of a Porous Polymer Material with Antibacterial Activity during Biodegradation in an In Vitro Model.
17. Hemodialysis treatment of vancomycin-induced drug reaction with eosinophilia and systemic symptoms/drug-induced hypersensitivity syndrome in a patient undergoing peritoneal dialysis.
18. Fluorescence detecting glycopeptide antibiotics via a dynamic molecular switch.
19. Which trial do we need? Empiric Glycopeptides plus clindamycin versus Oxazolidinones for suspected toxic shock and necrotizing soft tissue infections (Toxic EGO).
20. Global distribution of heterogeneous vancomycin-intermediate Staphylococcus aureus strains (1997-2021): a systematic review and meta-analysis.
21. Biochemical evaluation and ligand binding studies on glycerophosphodiester phosphodiesterase from Staphylococcus aureus using STD-NMR spectroscopy and molecular docking analysis.
22. Sub-MIC vancomycin enhances the antibiotic tolerance of vancomycin-intermediate Staphylococcus aureus through downregulation of protein succinylation.
23. Adaptation and validation of a quantitative vanA/vanB DNA screening assay on a high-throughput PCR system.
24. Adsorption Mass Transfer Zone of Vancomycin in Cartridges With Styrene-Divinylbenzene Sorbent.
25. New Antibiotic Binding Resin Bottles Collected from Children Enhances Rapid Microbial Identification.
26. Systemic azithromycin vs. amoxicillin/metronidazole as an adjunct in the treatment of periodontitis: a systematic review and meta-analysis.
27. Clinical Disease and Outcomes of Invasive Staphylococcus lugdunensis Infection in a University Hospital in Saudi Arabia.
28. Development of an Advanced Material for Obturation in Primary Teeth Based on the Microbiological Analysis of the Antimicrobial Efficacy of Various Concentrations: An In Vitro Study.
29. Electrospun Nanofiber Composite Utilized as an Electrocatalyst for the Detection of Acetaminophen in Multifarious Water Samples.
30. The efficacy of combining adjuvants with non-surgical periodontal therapy in individuals with type 2 diabetes: A Bayesian network meta-analysis.
31. A preliminary report on critical antimicrobial resistance in Escherichia coli, Enterococcus faecalis, and Enterococcus faecium strains isolated from healthy dogs in Chile during 2021-2022.
32. Garlic-Derived Exosome-like Nanovesicles-Based Wound Dressing for Staphylococcus aureus Infection Visualization and Treatment.
33. Design and synthesis of vancomycin-functionalized ZnFe(2) O(4) nanoparticles as an effective antibacterial agent against methicillin-resistant Staphylococcus aureus.
34. Removal of common antimicrobial agents by sustained low-efficiency dialysis.
35. Rhodococcus infection: a 10-year retrospective analysis of clinical experience and antimicrobial susceptibility profile.
36. Critical Evaluation of Green Synthesized Silver Nanoparticles-Kaempferol for Antibacterial Activity Against Methicillin-Resistant Staphylococcus aureus.
37. Automated sepsis detection with vancomycin- and allantoin-polydopamine magnetic nanoparticles.
38. Introduction and spread of vancomycin-resistant Enterococcus faecium (VREfm) at a German tertiary care medical center from 2004 until 2010: a retrospective whole-genome sequencing (WGS) study of the molecular epidemiology of VREfm.
39. The antimicrobial property of JY-1, a complex mixture of Traditional Chinese Medicine, is linked to it abilities to suppress biofilm formation and disrupt membrane permeability.
40. Prevalence and genomic characterization of the Bacillus cereus group strains contamination in food products in Southern China.
41. Effect of Different Local Antibiotic Regimens on Prevention of Postoperative Infection in Clean Surgical Wounds: A Systematic Review and Network Meta-analysis.
42. Bacteriophage and antibiotic combination therapy for recurrent Enterococcus faecium bacteremia.
43. A Multimodal Intervention to Reduce C. difficile Infections and Stool Testing.
44. Predictors of antibiogram performance and antibiotic resistance patterns in the northern Syrian region: A cross-sectional investigation.
45. 'The Year of Living Dangerously': Successful Rhodococcus Equi Therapy in an Immunosuppressed Patient with Minimal Toxicity by One Year of Continuous Intravenous Vancomycin Therapy Combined with Oral Levofloxacin And Rifampicin.
46. Endophytic fungi of Tradescantia pallida mediated targeting of Multi-Drug resistant human pathogens.
47. Polyether ionophore resistance in a one health perspective.
48. Implementation of contact precautions for multidrug-resistant organisms in the post-COVID-19 pandemic era: An updated national Emerging Infections Network (EIN) survey.
49. Vancomycin-resistant Enterococcus faecium - impact of ending screening and isolation in a Danish University hospital.
50. Evaluation of Continuous Infusion Vancomycin in a Pediatric Hematology/Oncology Population.
51. MATRESHCA: Microtesla Apparatus for Transfer of Resonance Enhancement of Spin Hyperpolarization via Chemical Exchange and Addition.
52. Development of an on-site therapeutic drug monitoring method using a portable spectrometer.
53. Faecal microbiota transplantation for multidrug-resistant organism decolonization in spinal cord injury patients: a case series.
54. Cobalt-modulated dual emission carbon dots for ratiometric fluorescent vancomycin detection.
55. Microbiological evaluation of the indigenous fermented condiment okpeye available at various retail markets in the south-eastern region of Nigeria.
56. Impact of infectious diseases consultation for hospitalized patients with Clostridioides difficile infection.
57. Lemierre-like syndrome after soft tissue infection due to methicillin-resistant Staphylococcus aureus: A case report and literature review.
58. Unmasking the invisible enemy: A case report of metagenomics-guided diagnosis and treatment of neonatal septic meningitis caused by Corynebacterium aurimucosum in a preterm infant with neonatal lupus erythematosus.
59. In vitro conversion of ellagic acid to urolithin A by different gut microbiota of urolithin metabotype A.
60. Serotype, antibiotic susceptibility and whole-genome characterization of Streptococcus pneumoniae in all age groups living in Southwest China during 2018-2022.
61. Discontinuation of contact precautions in patients with hospital-acquired MRSA and VRE infections during the COVID-19 pandemic: A multi-center experience.
62. Endophthalmitis caused by Enterococcus casseliflavus: a systematic review of literature.
63. Highly Efficient Solar-Light-Driven Photodegradation of Metronidazole by Nickel Hexacyanoferrate Nanocubes Showing Enhanced Catalytic Performances.
64. Identification of a capsular polysaccharide from Enterococcus faecium U0317 using a targeted approach to discover immunogenic carbohydrates for vaccine development.
65. Impact of model-informed precision dosing in adults receiving vancomycin via continuous infusion: a randomized, controlled clinical trial.
66. Developing an intervention package to optimise the management of vancomycin therapy using theory informed co-design.
67. Real-world utilization of ceftazidime/avibactam among inpatients in the national Veterans Affairs Healthcare System.
68. Deep eutectic solvent-based ferrofluid for highly efficient preconcentration and determination of metronidazole by vortex-assisted liquid-phase microextraction under experimental design optimization.
69. Risk factors and outcome associated with the acquisition of MDR linezolid-resistant Enterococcus faecium: a report from tertiary care centre.
70. Corrigendum: Tranexamic acid in combination with vancomycin or gentamicin has a synergistic effect against staphylococci.
71. Near-infrared light responsive gold nanoparticles coating endows polyetheretherketone with enhanced osseointegration and antibacterial properties.
72. A hope for ineffective antibiotics to return to treatment: investigating the anti-biofilm potential of melittin alone and in combination with penicillin and oxacillin against multidrug resistant-MRSA and -VRSA.
73. Drug reaction with eosinophilia and systemic symptoms (DRESS) syndrome secondary to antimicrobial therapy in pediatric bone and joint infections.
74. Mismatch rate of empirical antimicrobial treatment in fracture-related infections.
75. Investigating the impact of antibiotic-induced dysbiosis on protection from Clostridium difficile colitis by mouse colonic innate lymphoid cells.
76. Beware of the Acute Respiratory Distress Syndrome in a Pulmonary Blastomycosis!
77. The first case report: diagnosis and management of necrotizing fusobacterium lung abscess via BALF next-generation sequencing.
78. Emergence of multidrug-resistant Bacillus spp. derived from animal feed, food and human diarrhea in South-Eastern Bangladesh.
79. Studying Microbial Ecology of Diabetic Foot Infections: Significance of PCR Analysis for Prudent Antimicrobial Stewardship.
80. Timing and clinical risk factors for early acquisition of gut pathogen colonization with multidrug resistant organisms in the intensive care unit.
81. Design, synthesis and biological evaluation of thiazolyl-halogenated pyrroles or pyrazoles as novel antibacterial and antibiofilm agents.
82. Comparative effectiveness of daptomycin versus vancomycin among patients with methicillin-resistant Staphylococcus aureus (MRSA) bloodstream infections: A systematic literature review and meta-analysis.
83. Assessment of Zn and Cu in piglets' liver and kidney: impact in fecal Enterococcus spp.?
84. Polymerized cyclodextrin microparticles for sustained antibiotic delivery in lung infections.
85. Daptomycin plus ceftaroline salvage therapy for persistent Staphylococcus epidermidis bacteremia.
86. The pathogenicity of vancomycin-resistant Enterococcus faecalis to colon cancer cells.
87. Electro-antibacterial therapy (EAT) to enhance intracellular bacteria clearance in pancreatic cancer cells.
88. Antimicrobial resistance in selected bacteria from food animals in New Zealand 2018-2022.
89. Effects of cadmium exposure on gut microbiota and antibiotic resistance genes in Haliotis diversicolor abalone.
90. Oral Delivery of the Vancomycin Derivative FU002 by a Surface-Modified Liposomal Nanocarrier.
91. Effect of Antibiotic Spacer Dosing on Treatment Success in Two-Stage Exchange for Periprosthetic Joint Infection.
92. Compassionate use of contezolid in a toddler with severe community-acquired pneumonia induced by staphylococcus aureus: a case report and follow-up.
93. Conservative Versus Surgical Management of Acute Appendicitis: A Systematic Review.
94. Gut resistome profiling reveals high diversity and fluctuations in pancreatic cancer cohorts.
95. Clinical characteristics and outcomes of acute bacterial meningitis in adults at a tertiary university hospital in Thailand.
96. Antimicrobial susceptibility profile of clinically relevant Bacteroides, Phocaeicola, Parabacteroides and Prevotella species, isolated by eight laboratories in the Netherlands.
97. Comparative analysis of genes expression involved in type II toxin-antitoxin system in Staphylococcus aureus following persister cell formation.
98. Study of an Enterococcus faecium strain isolated from an artisanal Mexican cheese, whole-genome sequencing, comparative genomics, and bacteriocin expression.
99. Brominated Depsidones with Antibacterial Effects from a Deep-Sea-Derived Fungus Spiromastix sp.
100. Comparative Evaluation of the Antibacterial and Antitumor Activities of 9-Phenylfascaplysin and Its Analogs.
101. Two Cases of Vancomycin-Induced Neutropenia.
102. Synthesis of 3-((4-Hydroxyphenyl)amino)propanoic Acid Derivatives as Promising Scaffolds for the Development of Antimicrobial Candidates Targeting Multidrug-Resistant Bacterial and Fungal Pathogens.
103. Antimicrobial Resistance and Antibiotic Consumption in a Secondary Care Hospital in Mexico.
104. In Vitro Antibacterial Activity of Ceftobiprole and Comparator Compounds against Nation-Wide Bloodstream Isolates and Different Sequence Types of MRSA.
105. A Five-Year Analysis of Antibiotic Resistance Trends among Bacteria Identified in Positive Urine Samples in a Tertiary Care Hospital from Bucharest, Romania.
106. Is the Use of Monensin Another Trojan Horse for the Spread of Antimicrobial Resistance?
107. Bacteriuria in Paediatric Oncology Patients: Clinical Features, Distribution and Antimicrobial Susceptibility of Bacterial Pathogens at University Hospital Centre Zagreb, Croatia over a 4-Year Period.
108. Antimicrobial Resistance in Enterococcus spp. Isolates from Red Foxes (Vulpes vulpes) in Latvia.
109. Hospital prescribing patterns of antibiotics in Zambia using the WHO prescribing indicators post-COVID-19 pandemic: findings and implications.
110. The prevalence and clinical context of antimicrobial resistance amongst medical inpatients at a referral hospital in Rwanda: a cohort study.
111. Aetiology and use of antibiotics in pregnancy-related infections: results of the WHO Global Maternal Sepsis Study (GLOSS), 1-week inception cohort.
112. Efficacy of prophylactic use of intraoperative vancomycin powder in preventing surgical site infection in neurological surgeries in Irrua, Nigeria: A randomized controlled study.
113. Subgroup identification-based model selection to improve the predictive performance of individualized dosing.
114. Effects of Preoperative Quadruple Therapy for Helicobacter pylori on Bariatric Surgery Metabolic Outcomes.
115. Absorbable antibiotic beads for treatment of LVAD driveline infections.
116. Lignocellulosic Membranes Grafted with N-Vinylcaprolactam Using Radiation Chemistry: Load and Release Capacity of Vancomycin.
117. Hybrid Molecules of Azithromycin with Chloramphenicol and Metronidazole: Synthesis and Study of Antibacterial Properties.
118. The Impact of Mechanical Bowel Preparation and Oral Antibiotics in Colorectal Cancer Surgery (MECCA Study): A Prospective Randomized Clinical Trial.
119. Linear IgA Bullous Dermatosis in Korea Using the Nationwide Health Insurance Database.
120. Lactobacillus crispatus CCFM1339 Inhibits Vaginal Epithelial Barrier Injury Induced by Gardnerella vaginalis in Mice.
121. Impact of zinc supplementation on phenotypic antimicrobial resistance of fecal commensal bacteria from pre-weaned dairy calves.
122. Vancomycin and nisin-modified magnetic Fe(3)O(4)@SiO(2) nanostructures coated with chitosan to enhance antibacterial efficiency against methicillin resistant Staphylococcus aureus (MRSA) infection in a murine superficial wound model.
123. Clinical and microbiological efficacy of intra-pocket application of diode laser in grade C periodontitis: a randomized controlled clinical trial.
124. The Impact of Clostridioides Difficile Infection on Outcomes Among Kidney Transplant Recipients.
125. Doxycycline post exposure prophylaxis could theoretically select for resistance to various antimicrobials in 19 pathobionts: an in silico analysis.
126. Antimicrobial Resistance of Streptococcus pneumoniae Clinical Serotypes between 2017 and 2022 in Crete, Greece.
127. Single-stage transcutaneous osseointegrated prosthesis for above-knee amputations including an antibiotic-loaded hydrogel. Preliminary results of a new surgical protocol.
128. Treatment of Helicobacter Pylori İnfection and the Colonization of the Gastrointestinal System by Resistant Bacteria.
129. Vagococcus fluvialis isolation from the urine of a bladder cancer patient: a case report.
130. Applied pharmacokinetics to improve pharmacotherapy in and paediatric intensive care units: focus on correct dose selection.
131. Novel membrane-targeting isoxanthohumol-amine conjugates for combating methicillin-resistant Staphylococcus aureus (MRSA) infections.
132. Epidemiology and infection control of vancomycin-resistant enterococci at a German university hospital: A three-year retrospective cohort study.
133. 16S rDNA-Based Amplicon Analysis Unveiled a Correlation Between the Bacterial Diversity and Antibiotic Resistance Genes of Bacteriome of Commercial Smokeless Tobacco Products.
134. Factors affecting vancomycin-resistant Enterococcus faecium colonization of in-hospital patients in different wards.
135. Variability of bile bacterial profiles and drug resistance in patients with choledocholithiasis combined with biliary tract infection: a retrospective study.
136. Prescribing patterns of antimicrobials according to the WHO AWaRe classification at a tertiary referral hospital in the southern highlands of Tanzania.
137. Evaluation Of Anti-Inflammatory Efficacy Of Ascorbic Acid After Third Molar Surgery.
138. Primary Antibiotic Resistance And Effectiveness Of Clarithromycin Vs Metronidazole Based Therapy For Helicobacter Pylori Infection In Children.
139. Protective effect of microbisporicin (NAI-107) against vancomycin resistant Enterococcus faecium infection in a Galleria mellonella model.
140. Thwarting resistance: MgrA inhibition with methylophiopogonanone a unveils a new battlefront against S. aureus.
141. A threshold of 100 or more colony-forming units on the anesthesia machine predicts bacterial pathogen detection: a retrospective laboratory-based analysis.
142. A man with neurologic symptoms during liver abscess treatment.
143. Unravelling the complex interplay between antibiotic consumption and adaptive changes in methicillin-resistant Staphylococcus aureus.
144. Central Nervous System Antimicrobial Exposure and Proposed Dosing for Anthrax Meningitis.
145. Management of Primary Sclerosing Cholangitis and Extraintestinal Disorders in Patients with Ileal Pouches: A Systemic Review.
146. Ethambutol and meropenem/clavulanate synergy promotes enhanced extracellular and intracellular killing of Mycobacterium tuberculosis.
147. Synergistic bactericidal effects of phage-enhanced antibiotic therapy against MRSA biofilms.
148. A prototrophic suppressor of a Vibrio fischeri D-glutamate auxotroph reveals a member of the periplasmic broad-spectrum racemase family (BsrF).
149. Intracellular activity and in vivo efficacy in a mouse model of septic arthritis of the novel pseudopeptide Pep16 against Staphylococcus aureus clinical isolates.
150. Dosing and Exposure of Vancomycin With Continuous Infusion: A Retrospective Study.
151. The Effect of Different Antibiotic Combinations in Calcium Sulfate Cement on the Growth of Cutibacterium acnes and Staphylococcus Periprosthetic Shoulder Infection Isolates.
152. Impact of humanized vancomycin infusion on kidney function and kidney injury in a translational rat model.
153. Microencapsulated Benzoyl Peroxide for Rosacea in Context: A Review of the Current Treatment Landscape.
154. Bayesian Vancomycin Model Selection for Therapeutic Drug Monitoring in Neonates.
155. Primary antibiotic resistance of Helicobacter pylori in India over the past two decades: A systematic review.
156. Nephrotoxic Risk Associated With Combination Therapy of Vancomycin and Piperacillin-Tazobactam in Critically Ill Patients With Chronic Kidney Disease.
157. Metronidazole overexposure in children and its association with new-onset Crohn's disease (IBD).
158. When is vancomycin prophylaxis necessary? Risk factors for MRSA surgical site infection.
159. Microbiology and Antimicrobial Susceptibility in Adult Dacryocystitis.
160. Development of a model to predict vancomycin serum concentration during continuous infusion of vancomycin in critically ill pediatric patients.
161. Costs-effectiveness and cost components of pharmaceutical and non-pharmaceutical interventions affecting antibiotic resistance outcomes in hospital patients: a systematic literature review.
162. Antibiotic exposure and risk of new-onset inflammatory bowel disease: a systematic review and dose-response meta-analysis.
163. Cerebrospinal fluid drain infection caused by pandrug-resistant Staphylococcus epidermidis successfully treated with ceftaroline in combination with fosfomycin and vancomycin.
164. AMXT-1501 targets membrane phospholipids against Gram-positive and -negative multidrug-resistant bacteria.
165. Severe Intraocular Inflammation Following Intravitreal Faricimab.
166. Intra-articular Vancomycin Reduces Prosthetic Infection in Primary Hip and Knee Arthroplasty.
167. Unraveling the antimicrobial potential of Lactiplantibacillus plantarum strains TE0907 and TE1809 sourced from Bufo gargarizans: advancing the frontier of probiotic-based therapeutics.
168. Novel Ti surface coated with PVA hydrogel and chitosan nanoparticles with antibacterial drug release: An experimental in vitro study.
169. Intestinal Spirochetosis: To Treat or Not to Treat.
170. Analysis of Helicobacter pylori resistance in patients with different gastric diseases.
171. Antibiotic Prescribing Patterns for Urinary Tract Infections and Pneumonia by Prescriber Type and Specialty in Nursing Home Care, 2016-2018.
172. Treatment failure of Helicobacter Pylori in primary care.
173. Rahnella Aquatilis Endophthalmitis after Intravitreal Injection in an Immunocompetent Patient.
174. Staphopain mediated virulence and antibiotic resistance alteration in co-infection of Staphylococcus aureus and Pseudomonas aeruginosa: an animal model.
175. Perinatal risk factors associated with acute kidney injury severity and duration among infants born extremely preterm.
176. Conserved signatures of the canine faecal microbiome are associated with metronidazole treatment and recovery.
177. Antimicrobial Resistance and the Prevalence of the Panton-Valentine Leukocidin Gene among Clinical Isolates of Staphylococcus aureus in Lithuania.
178. A Chemically Inducible Muscle Ablation System for the Zebrafish.
179. [A multi-center epidemiological study on pneumococcal meningitis in children from 2019 to 2020].
180. Xenomyrothecium tongaense PTS8: a rare endophyte of Polianthes tuberosa with salient antagonism against multidrug-resistant pathogens.
181. Defining the shelf-life of calcium sulfate beads embedded with tobramycin and vancomycin.
182. Shock wave assisted intracellular delivery of antibiotics against bone infection with Staphylococcus aureus via P2X7 receptors.
183. Biochemical and computational inhibition of α-glucosidase by novel metronidazole-linked 1H-1,2,3-triazole and carboxylate moieties: kinetics and dynamic investigations.
184. Evaluation of the modified 3Mix-Simvastatin combination in non-instrumental endodontic therapy of necrotic primary molars: A two-arm randomized controlled trial.
185. Advancing Outbreak Simulation Training: A Collaborative Pilot Study for Dual-Specialty Medical Trainees and Infection Prevention and Control Professionals.
186. Antimicrobial therapy and outcome of methicillin-resistant Staphylococcus aureus endocarditis: A retrospective multicenter study in Japan.
187. Halicin remains active against Staphylococcus aureus in biofilms grown on orthopaedically relevant substrates.
188. Relation of Streptococcus Pyogenes tonsillitis isolate to antimicrobial agents and its infection treatment.
189. [Virulence genes and antimicrobial resistance of Bacillus cereus in prepackaged pastries sold in Taizhou from 2020 to 2022].
190. Metronidazole-induced Encephalopathy.
191. Comparative analysis of IR-Biotyper, MLST, cgMLST, and WGS for clustering of vancomycin-resistant Enterococcus faecium in a neonatal intensive care unit.
192. Multidrug-resistant Enterococcus faecium strains enter the Norwegian marine environment through treated sewage.
193. A Prospective Clinical Study of Bacteriological Profile and their Antibiotic Susceptibilty Profile in Patients with Chronic Rhinosinusitis: The Recent Scenario in Northern India.
194. Prevalence and antimicrobial susceptibility pattern of methicillin-resistant Staphylococcus aureus (MRSA) at a maternity and children hospital in Saudi Arabia: A cross-sectional study.
195. Exploring the feasibility of bacteriocins EntK1 and EntEJ97s in treatment of systemic VRE infections in mice.
196. Design, synthesis and antibacterial evaluation of low toxicity amphiphilic-cephalosporin derivatives.
197. Polycystic intrahepatic infection caused by Enterococcus casseliflavus: a case report and literature review.
198. 3Mixtatin versus MTA in pulp therapy of primary teeth: a systematic review and meta-analysis of current randomized controlled trials.
199. Spondylodiscitis of lumbar complicated with spinal epidural abscess caused by Parvimonas micra: A case report and literature review.
200. Staphylococcus aureus Pneumonia in Can Tho, Vietnam: Clinical Characteristics, Antimicrobial Resistance Profile and Risk Factors of Mortality.
201. Incidence of Septic Arthritis After Vancomycin Soaking of the Graft During Arthroscopic Anatomic Anterior Talofibular Ligament and Calcaneofibular Ligament Reconstruction.
202. Comparative analysis of characteristics of antibiotic resistomes between Arctic soils and representative contaminated samples using metagenomic approaches.
203. Management of Acne in Pregnancy.
204. Vancomycin nephrotoxicity: A comprehensive clinico-pathological study.
205. Ceftaroline for Central Nervous System Infections: Case Report of a Young Infant, and Scoping Review.
206. PEDIATRIC COMMUNITY-ACQUIRED BRAIN ABSCESSES: A Single-center Retrospective Study.
207. Population pharmacokinetics of vancomycin in term neonates with perinatal asphyxia treated with therapeutic hypothermia.
208. Intrawound Vancomycin Powder Reduces Delayed Deep Surgical Site Infections Following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis.
209. Drug interactions of carbonic anhydrase inhibitors and activators.
210. Characteristics and susceptibility pattern of catheter-associated urinary tract infections (CAUTI) bacteria in Indonesia: A study in a national reference hospital of Sumatra region 2020-2021.
211. Distribution and antibacterial susceptibility pattern of isolated bacteria from endotracheal aspirates among ventilator-assisted pneumonia patients in Indonesia.
212. Study on Biofilm Formation Among Enterococcus Isolates and Association With Their Antibiotic Resistance Patterns.
213. Case of Lemierre's Syndrome Presenting With Neuro-Ophthalmologic Complications That Worsened After Stopping Corticosteroids.
214. CRISPR-like sequences association with antibiotic resistance and biofilm formation in Helicobacter pylori clinical isolates.
215. Anti-Trichomonas vaginalis Activity of Marine Ascidians (Tunicates; Ascidiacea) from the Bushehr Province, Iran.

FMT/ Fecal Microbiota Transplant

Competitors

1. Maternal histone methyltransferases antagonistically regulate monoallelic expression in C. elegans.
2. Do dietary interventions exert clinically important effects on the bioavailability of β-lactam antibiotics? A systematic review with meta-analyses.
3. Effect of tebipenem pivoxil hydrobromide on the normal gut microbiota of a healthy adult population in Sweden: a randomised controlled trial.
4. Development and Validation of Case-Finding Algorithms to Identify Pancreatic Cancer in the Veterans Health Administration.
5. Bioequivalence Study of Tebipenem Pivoxil in Healthy Chinese Adults.

CDAD

1. Multicenter evaluation of BioCode GPP for syndromic molecular detection of gastrointestinal pathogens from stool specimens.
2. Rethinking Clostridioides difficile infection (CDI) surveillance definitions based on changing healthcare utilisation and a more realistic incubation period: reviewing data from a tertiary-referral hospital, Ireland, 2012 to 2021.
3. Watery Diarrhea Is Not Always Clostridioides difficile: A Case Report of Aeromonas hydrophila Gastroenteritis.
4. Many Hands, Light Work: A Partnership Approach to Reducing Clostridioides difficile Burden on an Oncology Unit.
5. Epidemiology and outcomes of infections during extracorporeal membrane oxygenation in adult patients with COVID-19 ARDS- A single center study.
6. Diagnostic performance of a multiplexed gastrointestinal PCR panel for identifying diarrheal pathogens in children undergoing hematopoietic stem cell transplant.
7. Development of a Prediction Model to Identify the Risk of Clostridioides difficile Infection in Hospitalized Patients Receiving at Least One Dose of Antibiotics.
8. A Real-World Study on the Clinical Characteristics, Outcomes, and Relationship between Antibiotic Exposure and Clostridioides difficile Infection.
9. Reviewing the Clostridioides difficile Mouse Model: Insights into Infection Mechanisms.
10. The multiscale nexus among land use-land cover changes and water quality in the Suquía River Basin, a semi-arid region of Argentina.
11. Toxic Megacolon: A Sequelae of Clostridioides difficile Infection in a Case of Necrotizing Fasciitis.
12. Evaluation of MALDI-TOF mass spectrometry coupled with ClinProTools as a rapid tool for toxin-producing Clostridioides difficile.
13. The impact of bariatric surgery on admissions for gastrointestinal complications and conditions associated with obesity: A nationwide study.
14. Evaluation of infection prevention and control programmes according to ECDC/WHO in Spain 2012-2022: indicators of core component 1.

CMC

Guidelines

1. Helicobacter pylori Eradication Treatment in Older Patients.
2. Selective Capacitive Removal of Pb(2+) from Wastewater over Biochar Electrodes by Zinc Regulation.
3. Anaerobic antibiotic coverage in aspiration pneumonia and the associated benefits and harms: A retrospective cohort study.
4. Clostridioides difficile Infection in Kidney Transplant Recipients.
5. Comparison of Empiric Antibiotic Treatment Regimens for Hospitalized, Non-severe Community-acquired Pneumonia: A Retrospective, Multicenter Cohort Study.
6. Imaging of chronic thromboembolic pulmonary hypertension before, during and after balloon pulmonary angioplasty.

Non-toxigenic C. difficile

1. Genomic surveillance of Clostridioides difficile transmission and virulence in a healthcare setting.

MGB

1. Unraveling the gut-brain connection: The association of microbiota-linked structural brain biomarkers with behavior and mental health.

Other news of possible interest