**M3 Literature Review**

**Period: 13/10/2023 – 08/11/2023**

[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. p-Cresol Sulfate Is a Sensitive Urinary Marker of Fecal Microbiota Transplantation and Antibiotics Treatments in Human Patients and Mouse Models.
2. Derivation of clinical predictive factors (CHIEF) for first recurrent Clostridioides difficile infection.
3. Factors Associated With Fecal Microbiota Transplant Failure in the Treatment of Recurrent Clostridioides difficile Infection: A Single-Center Retrospective Study.
4. Fecal microbiota transplantation for treatment of refractory or recurrent Clostridioides difficile infection in Taiwan: a cost-effectiveness analysis.
5. Interaction of Clostridioides difficile infection with frailty and cognition in the elderly: a narrative review.
6. Colonic distribution of FMT by different enema procedures compared to colonoscopy - proof of concept study using contrast fluid.
7. Prevalence of Clostridium Difficile Infection (CDI) among Inflammatory Bowel Disease (IBD) Patients in Comparison to Non-IBD Patients in King Abdulaziz Medical City in Jeddah.
8. A Percutaneous Endoscopic Colostomy Tube to the Rescue.
9. Dysregulated Immunity to Clostridioides difficile in IBD Patients Without a History of Recognized Infection.
10. Oral teicoplanin administration suppresses recurrence of Clostridioides difficile infection: Proof of concept.
11. Risk factors for Recurrent Clostridioides Difficile Infection in Children.
12. Analysis of Clostridioides difficile Infection in Children with Diarrhea in Two Hospitals in Southern Brazil.
13. Short-Chain Fatty Acid Levels after Fecal Microbiota Transplantation in a Pediatric Cohort with Recurrent Clostridioides difficile Infection.
14. Look What the Cat Dragged in! Recurrent Clostridioides difficile from a Household Cat.
15. Review of the Impact of Biofilm Formation on Recurrent Clostridioides difficile Infection.
16. Effects of Hyperbaric Oxygen Therapy for Clostridioides difficile-associated Colitis: A Retrospective Study.
17. Clostridium paraputrificum Bacteremia in a Patient with Rectal Cancer after Receiving Antibiotic Therapy for Acute Pharyngolaryngitis.
18. Genetic variation in the human leukocyte antigen region confers susceptibility to Clostridioides difficile infection.
19. Shengjiang Xiexin decoction mitigates murine Clostridium difficile infection through modulation of the gut microbiota and bile acid metabolism.
20. Efficacy of bezlotoxumab to prevent recurrent Clostridioides difficile infection (CDI) in patients with multiple prior recurrent CDI.

Clostridioides difficile/ Clostridium difficile

1. Acquisition site-based remodelling of Clostridium perfringens- and Clostridioides difficile-related gut microbiota.
2. Orthodontic Internal Resorption Assessment in Periodontal Breakdown-A Finite Elements Analysis (Part II).
3. Editorial: Global excellence in inflammatory diseases: Latin America 2021.
4. The Association between Mediated Deprivation and Ovarian Cancer Survival among African American Women.
5. The mental functioning of school-age children in Poland since the outbreak of war in Ukraine and during the subsequent refugee crisis.
6. Clostridioides difficile infection drives neuronal inflammation.
7. Prevalence and genetic diversity of Blastocystis sp. among autochthonous and immigrant patients in Italy.
8. Fabrication of a reusable electrochemical platform based on acid-responsive host-guest interaction with β- cyclodextrin.
9. The RgaS-RgaR two-component system promotes Clostridioides difficile sporulation through a small RNA and the Agr1 system.
10. COVID-19 Australia: Epidemiology Report 78.
11. COVID-19 Australia: Epidemiology Report 77.
12. COVID-19 Australia: Epidemiology Report 76.
13. Evaluation of an in vitro experimental platform of human polarized intestinal epithelial monolayers for the hazard assessment of insecticidal proteins.
14. Nursing students perspectives of psychosocial care: cross-sectional study.
15. Vascular Grafts: Technology Success/Technology Failure.
16. New Phenylthiazoles: Design, Synthesis, and Biological Evaluation as Antibacterial, Antifungal, and Anti-COVID-19 Candidates.
17. Using notifications data to increase hepatitis C testing and treatment rates in Queensland.
18. Enhanced surveillance of notifications of hepatitis C to Queensland Health up to 19 years previously.
19. Erratum to Commun Dis Intell (2018) 2023;47. (https://doi.org/10.33321/cdi.2023.47.46).
20. Considerations about antibiotic management for community-acquired pneumonia: unmet needs and future perspectives.
21. Polyamines and hypusination are important for Clostridioides difficile toxin B (TcdB)-mediated activation of group 3 innate lymphocytes (ILC3s).
22. Preparation and Evaluation of β-Cyclodextrin-based Nanosponges loaded with Budesonide for Pulmonary Delivery.
23. Cessation of Antibiotics for Complicated Appendicitis at Discharge Does Not Increase Risk of Post-operative Infection.
24. Extreme Monovalent Ion Selectivity Via Capacitive Ion Exchange.
25. Mesoporous dopamine-modified leaf-like zeolitic imidazolate frameworks derived carbon for efficient capacitive deionization.
26. Constructing ion-transport blockchain by polypyrrole to link CoTi-ZIF-9 derived carbon materials for high-performance seawater desalination.
27. Global and cell type-specific immunological hallmarks of severe dengue progression identified via a systems immunology approach.
28. Association between resistivity index of central retinal artery and severity of diabetic retinopathy.
29. Dataset of exceptional women directors and carbon information disclosures of global energy companies.
30. Vascular imaging findings in retinopathy of prematurity.
31. Exploring the emotional and behavioural profile in paediatric narcolepsy type 1: A case-control study.
32. Infection epidemiology in relation to different therapy phases in patients with haematological malignancies receiving CAR T-cell therapy.
33. Protective Effects of Alginate and Chitosan Oligosaccharides against Clostridioides difficile Bacteria and Toxin.
34. Does depression affect the association between prosocial behavior and anxiety? A cross-sectional study of students in China.
35. Understanding clinical implementation coordinators' experiences in deploying evidence-based interventions.
36. Phenylacetyl-/Trolox- Amides: Synthesis, Sigma-1, HDAC-6, and Antioxidant Activities.
37. Phenotypic and Genotypic Characterization of Recently Isolated Multidrug-Resistant Acinetobacter baumannii Clinical and Aquatic Strains and Demonstration of Silver Nanoparticle Potency.
38. Update on potential interventions to reduce the risk for transmission of health care-associated pathogens from floors and sinks.
39. Empowering patients to prevent healthcare-associated infections.
40. Effect of activated carbon electrode material characteristics on hardness control performance of membrane capacitive deionization.
41. A Case of Central Diabetes Insipidus in a Patient With a Pineal Mass Suspected to Be a Germinoma: A Case Report.
42. A resilience perspective on healthcare personnels' experiences of managing the COVID-19 pandemic: a qualitative study in Norwegian nursing homes and come care services.
43. A diagnostic stewardship approach to prevent unnecessary testing of an enteric bacterial molecular panel.
44. Change Score and Subscore Precision and Reliability of the Children's Depression Inventory.
45. Biochemical Characterizations of the Putative Amidase Endolysin Ecd18980 Catalytic Domain from Clostridioides difficile.
46. A decade of diversity: using statistical indices to compare neurosurgery to other surgical specialties.
47. How I approach diarrhea in hematological transplant patients: A practical tool.
48. Septicemia due to Bacillus clausii after the use of probiotics. A complication to keep in mind.
49. Solar reduced graphene oxide decorated with manganese dioxide nanostructures for brackish water desalination using asymmetric capacitive deionization.
50. A Case of Lymphocytic Infundibulo-neurohypophysitis Exhibiting Spontaneous Regression.
51. Diagnosis and Treatment of Hereditary Central Diabetes Insipidus in a Swiss Family With a Mutation in the AVP Gene.
52. Advanced capacitive deionization for ion selective separation: Insights into mechanism over a functional classification.
53. Adverse Events in Pediatric Inpatients: The Japan Adverse Event Study.
54. Strategies to combat Gram-negative bacterial resistance to conventional antibacterial drugs: a review.
55. Al(8) Cluster-Based Metal Halide Frameworks: Balancing Singlet-Triplet Excited States to Achieve White Light and Multicolor Luminescence.
56. 'The Effect of Antibiotic Therapy for Clostridioides difficile Infection on Mortality and Other Patient-Relevant Outcomes' - Author's reply.
57. Rapid detection of gastrointestinal pathogens using a multiplex polymerase chain reaction gastrointestinal panel and its role in antimicrobial stewardship.
58. Risk factors associated with development of colitis in horses post-exploratory laparotomy.
59. Impact of Reducing Time-to-Antibiotics on Sepsis Mortality, Antibiotic Use, and Adverse Events.
60. Clostridium difficile Bacteremia as a Rare Presentation of Polymicrobial Pyogenic Liver Abscesses and Its Management Challenges.

Fidaxomicin & Clostridium difficile

1. Microbiota Transplant and Gynecological Disorders: The Bridge between Present and Future Treatments.
2. [Microbiome: from pathophysiology to clinical application?].

Clostridioides difficile vaccine

1. Clinical and Endoscopic Outcomes Through 78 Weeks of Tofacitinib Therapy for Ulcerative Colitis in a US Cohort.
2. Public health response to an outbreak of meningococcal B disease in a secondary school in Far North Queensland.
3. Nanobodies against C. difficile TcdA and TcdB reveal unexpected neutralizing epitopes and provide a toolkit for toxin quantitation in vivo.

Vancomycin & CDI

1. An epidemiological surveillance study (2021-2022): detection of a high diversity of Clostridioides difficile isolates in one tertiary hospital in Chongqing, Southwest China.
2. Vancomycin in the treatment of inflammatory bowel disease: there is a role beyond Clostridioides difficile infection.
3. Safety assessment of Enterococcus lactis strains complemented with comparative genomics analysis reveals probiotic and safety characteristics of the entire species.

CDI

1. Pharmacomagnetography assessment of the prokinetic effect on metronidazole absorption.
2. Quinoline-2-one derivatives as promising antibacterial agents against multidrug-resistant Gram-positive bacterial strains.
3. Cessation of Rectal Screening for Vancomycin-Resistant Enterococci: Experience from a Tertiary Care Hospital from Türkiye.
4. Antimicrobial Prophylaxis for Percutaneous Nephrolithotomy: Contemporary Practice Patterns.
5. Genomic Characterization of 2 Cutibacterium acnes Isolates from a Surgical Site Infection Reveals Large Genomic Inversion.
6. Ventilator-Associated Methicillin-Resistant Staphylococcus aureus (MRSA) Pneumonia in a Patient with a Negative MRSA Nasal Swab.
7. Fosfomycin-induced agranulocytosis: a case report and review of the literature.
8. Nephrotoxicity caused by colistin use in ICU: a single centre experience.
9. Design of experiment-oriented development of solvent-free mixed micellar chromatographic method for concomitant determination of metronidazole and ciprofloxacin hydrochloride.
10. Pleural penetration of amoxicillin and metronidazole during pleural infections: an ambispective cohort study.
11. Serum Concentration of Continuously administered Vancomycin influences Efficacy and Safety in Critically Ill Adults: A Systematic Review.
12. Cefepime vs Piperacillin-Tazobactam in Adults Hospitalized With Acute Infection: The ACORN Randomized Clinical Trial.
13. Comparison of ointment-based agents after excisional procedures for hemorrhoidal disease: a network meta-analysis of randomized controlled trials.
14. Successful multidisciplinary treatment of the rare pathology of vulvar Crohn's disease.
15. Eosinophilic enteritis presenting as intestinal obstruction: case report and review of the literature.
16. A case of Vagococcus fluvialis isolated from the bile of a patient with calculous cholecystitis.
17. Bifidobacteria metabolize lactulose to optimize gut metabolites and prevent systemic infection in patients with liver disease.
18. Therapeutic Drug Monitoring-Guided Vancomycin Therapy of a Pediatric Patient after Liver Transplantation: a Case Report.
19. The Antibacterial Resistance Leadership Group: Scientific Advancements and Future Directions.
20. Priorities and Progress in Gram-positive Bacterial Infection Research by the Antibacterial Resistance Leadership Group: A Narrative Review.
21. Sociodemographic distributions and molecular characterization of colonized Enterococcus faecium isolates from locality hospitals in Khartoum, Sudan.
22. Microbiome-transcriptome analysis reveals that dietary supplementation with macleaya cordata extract alters multiple immune pathways with minimal impact on microbial structure.
23. Antimicrobial and antibiofilm effects of essential fatty acids against clinically isolated vancomycin-resistant Enterococcus faecium.
24. Impact of implementing a vancomycin protocol to reduce kidney toxicity: A comparative study.
25. Drain blockage by topical vancomycin powder-a case report of a potentially catastrophic complication in spine surgery.
26. Case report: isolation of Hydrogenophaga from septic blood culture following near-death drowning in lakewater.
27. Indole-based aryl sulfides target the cell wall of Staphylococcus aureus without detectable resistance.
28. Sterile soil mitigates the intergenerational loss of gut microbial diversity and anxiety-like behavior induced by antibiotics in mice.
29. Clinical study of drug-loaded calcium sulfate in the treatment of hematogenous osteomyelitis in children.
30. Aortic endograft infection by Mycobacterium abscessus subsp. massiliense with acquired clarithromycin resistance: a case report.
31. Evidence of bisphosphonate-conjugated sitafloxacin eradication of established methicillin-resistant S. aureus infection with osseointegration in murine models of implant-associated osteomyelitis.
32. The distribution and the antimicrobial susceptibility features of microorganisms isolated from the burn wounds; a ten-year retrospective analysis.
33. [Analysis of Pathogenic Bacterial Spectrum, Drug Resistance and Risk Factors for Mortality of Bloodstream Infection in Patients with Hematologic Diseases].
34. Concerning emergence of a new vancomycin-resistant Enterococcus faecium strain ST1299/CT1903/vanA at a tertiary university centre in South-Germany.
35. [Translated article] Oral vancomycin in a pediatric patient with primary sclerosing cholangitis and inflammatory bowel disease.
36. Successful Eradication of a Highly Resistant Elizabethkingia anophelis Species in a Premature Neonate With Bacteremia and Meningitis.
37. Trial of Vancomycin and Cefazolin as Surgical Prophylaxis in Arthroplasty.
38. Endophthalmitis Management Study-A Prospective Randomized Clinical Trial on Postoperative Endophthalmitis Management in India: An Interim Analysis. Endophthalmitis Management Study Report #3.
39. A Staphylococcus capitis strain with unusual bacteriocin production.
40. Volume of distribution as an early predictor of vancomycin-induced AKI in critically ill patients.
41. Infections associated with clozapine: a pharmacovigilance study using VigiBase(®).
42. Vancomycin and Gentamicin Removal with the HA380 Cartridge during Experimental Hemoadsorption.
43. Development of teixobactin analogues containing hydrophobic, non-proteogenic amino acids that are highly potent against multidrug-resistant bacteria and biofilms.
44. Antimicrobial-loaded biodegradable nanoemulsions for efficient clearance of intracellular pathogens in bacterial peritonitis.
45. Arginase2 mediates contrast-induced acute kidney injury via facilitating nitrosative stress in tubular cells.
46. Production of all-male non-transgenic zebrafish by conditional primordial germ cell ablation.
47. Methicillin-Resistant Staphylococcus aureus and Coagulase-Negative Staphylococcus from School Dining Rooms in Argentina.
48. Clinical significance of Nosocomiicoccus ampullae isolated from blood cultures.
49. [Surveillance of bacterial resistance in children aged 0-14 years from 2018 to 2022].
50. Comparative outcomes of the pathogen in cultured Jones tubes used in lacrimal bypass surgery according to follow up periods.
51. A Systemic Lupus Erythematosus Patient with Cutaneous Mycobacterium haemophilum Infection under Belimumab Treatment: A Case Report.
52. The Effect of Topical Antibiotic Powder Application in the Emergency Department on Deep Fracture Related Infection in Type III Open Lower Extremity Fractures.
53. Subplenones A-J: Dimeric Xanthones with Antibacterial Activity from the Endophytic Fungus Subplenodomus sp. CPCC 401465.
54. External validation of obese and critically ill vancomycin population pharmacokinetic models in critically ill obese patients.
55. Potential Effects of Alpha-Glycosyl Isoquercitrin on Memory by Altering the Gut Microbiota-Blood-Brain Axis in Mice.
56. RavA-ViaA antibiotic response is linked to Cpx and Zra2 envelope stress systems in Vibrio cholerae.
57. Prevalence of antibiotic resistance in lactic acid bacteria isolated from traditional fermented Indian food products.
58. Effectiveness, safety, and cost of vancomycin and linezolid in Kuwait: A retrospective cohort study.
59. Pyelo-hepatic abscess caused by staghorn stone infection: a case report.
60. New synergistic antibacterial mechanism of bulky mixed Ti/w hetero-polyoxometalates composed of multi lacunary Keggin structure with oxacillin against vancomycin intermediate-resistant Staphylococcus aureus.
61. Gelatinase-responsive biodegradable targeted microneedle patch for abscess wound treatment of S. aureus infection.
62. Adjuvant intra-articular vancomycin for recalcitrant Staphylococcal prosthetic joint infections of the knee.
63. Global impact of antibacterial resistance in patients with hematologic malignancies and hematopoietic cell transplant recipients.
64. In situ patch and repeated open application test for fixed drug eruption: a multicenter study.
65. Antimicrobial resistance pattern of anaerobic bacteria causing lower respiratory tract infections.
66. Case report: isolated prevotella intermedia causing intracranial infection detected using metagenomic next generation sequencing.
67. Potent Rifampicin derivatives can clear MRSA infections at single low doses when concomitantly dosed with Vancomycin.
68. Potential of arterial spin labeling in elucidating the pathogenesis of the splenium of the corpus callosum and cerebellar dentate nucleus in encephalopathy.
69. Antibiotics attenuate diet-induced non-alcoholic fatty liver disease without altering intestinal barrier dysfunction.
70. Maternal Group B Streptococcus Prophylaxis Improvement Using an Electronic Medical Record Dynamic Order Set.
71. Core genome multilocus sequence typing of Clostridioides difficile to investigate transmission in the hospital setting.
72. Shorter versus longer duration of antibiotic treatment in children with bacterial meningitis: a systematic review and meta-analysis.
73. Efficacy of systemic use of antibiotics as an adjunct to non-surgical treatment of peri-implantitis: a meta-analysis of randomized controlled trials.
74. Knowledge and attitude of dental students regarding etiology, diagnosis, and treatment of peri-implantitis.
75. Epidemiological and microbiological profiles of microbial keratitis in a tertiary eye center in Eastern India (Bihar).
76. Performance evaluation of PdO/ CuO TiO2 photocatalytic membrane on ceramic support for removing pharmaceutical compounds from water.
77. Interactions of metronidazole and chloramphenicol with myoglobin: Crystal structure of a Mb-acetamide product.
78. Hemophagocytic Lymphohistiocytosis and Pancreatic Cancer: A Rare Association.
79. Efficacy of Sequential Therapy as the First-Line Treatment in the Eradication of Helicobacter pylori.
80. Occult Bacteremia Caused by Enterococcus-Associated Pyuria in an Elderly Man.
81. Occurrence of Virulence Genes among Methicillin-Resistant Staphylococcus aureus Isolated from Subclinical Bovine Mastitis.
82. Systemic azithromycin versus amoxicillin/metronidazole as an adjunct in the treatment of periodontitis: a systematic review and meta-analysis.
83. Physical compatibility of lipid emulsions and intravenous medications used in neonatal intensive care settings.
84. Evaluation of antimicrobial usage in companion animals at a Veterinary Teaching Hospital in Nigeria.
85. Fumagillin inhibits growth of the enteric protozoan parasite Entamoeba histolytica by covalently binding to and selectively inhibiting methionine aminopeptidase 2.
86. Antibiotic adjuvant activities of quorum sensing signal molecules DSF and BDSF against mature biofilms of Staphylococci.
87. Prevalence and antibiogram of bacteria causing urinary tract infection among patients with chronic kidney disease.
88. Restriction of Arginine Induces Antibiotic Tolerance in Staphylococcus aureus.
89. Age-associated augmented renal clearance and low BMI trigger suboptimal vancomycin trough concentrations in children with haematologic diseases: data of 1453 paediatric patients from 2017 to 2022.
90. Intracameral antibiotics during cataract surgery: efficacy, safety, and cost-benefit considerations.
91. Model-informed precision dosing in vancomycin treatment.
92. Peripheral vascular access as exclusive access mode in pediatric intensive care unit.
93. Contemporary pharmacologic treatments of MRSA for hospitalized adults: rationale for vancomycin versus non-vancomycin therapies as first line agents.
94. Innovative cold atmospheric plasma (iCAP) decreases corneal ulcer formation and bacterial loads and improves anterior chamber health in methicillin resistant Staphylococcus aureus keratitis.
95. The Use of Metronidazole in Acute Diarrhea in Dogs: A Narrative Review.
96. Recombinant Klotho alleviates vancomycin-induced acute kidney injury by upregulating anti-oxidative capacity via JAK2/STAT3/GPx3 axis.
97. Understanding vancomycin nephrotoxicity augmented by β-lactams: a synthesis of endosymbiosis, proximal renal tubule mitochondrial metabolism, and β-lactam chemistry.
98. Bilobetin attenuates Staphylococcus aureus virulence by targeting Von Willebrand factor-binding protein and staphylocoagulase.
99. Conformationally Restricted Glycopeptide Backbone Inhibits Gas-Phase H/D Scrambling between Glycan and Peptide Moieties.
100. Confronting the Threat: Designing Highly Effective bis-Benzimidazolium Agents to Overcome Biofilm Persistence and Antimicrobial Resistance.
101. Benign intestinal pneumatosis associated with congenital Morgagni-Larrey diaphragmatic hernia.
102. Vancomycin modestly attenuates symptom severity during onset of and recovery from exertional heat stroke in mice.
103. Management of Infective Endocarditis and Tibioperoneal Mycotic Aneurysm Following COVID-19 Infection.
104. First Isolation of Methicillin-Resistant Livestock-Associated Staphylococcus aureus CC398 and CC1 in Intensive Pig Production Farms in Argentina.
105. Risk factors for acute kidney injury associated with intravenous vancomycin in neurosurgical inpatients: a retrospective study.
106. Comparison of the incidence of vancomycin-associated nephrotoxicity following the change from trough-guided dosing to AUC-guided doing using trough-only data.
107. Identification and Characterization of Peptaibols as the Causing Agents of Pseudodiploöspora longispora Infecting the Edible Mushroom Morchella.
108. A Point Prevalence Survey of Antimicrobial Use at Geita Regional Referral Hospital in North-Western Tanzania.
109. The Effect of Subinhibitory Concentration of Metronidazole on the Growth and Biofilm Formation on Toxigenic Clostridioides difficile Strains Belonging to Different Ribotypes.
110. The Role of Indoor Microbiome and Metabolites in Shaping Children's Nasal and Oral Microbiota: A Pilot Multi-Omic Analysis.
111. Antimicrobial Susceptibility to 27 Drugs and the Molecular Mechanisms of Macrolide, Tetracycline, and Quinolone Resistance in Gemella sp.
112. Drug-Induced Acute Pancreatitis in Adults: Focus on Antimicrobial and Antiviral Drugs, a Narrative Review.
113. Monoclonal Antibody Disrupts Biofilm Structure and Restores Antibiotic Susceptibility in an Orthopedic Implant Infection Model.
114. Antimicrobial Resistance Pattern and Empirical Antibiotic Treatments in Neonatal Sepsis: A Retrospective, Single-Center, 12-Year Study.
115. Multidrug Resistance in Enterococci Isolated from Cheese and Capable of Producing Benzalkonium Chloride-Resistant Biofilms.
116. Parenteral Vancomycin in the Treatment of MRSA-Associated Diabetic Foot Infections: An Unnecessary Risk.
117. [Fungal Keratitis Associated with Curvularia lunata: First Case Report from Türkiye].
118. [Comparison of Conventional Methods with Molecular Methods in the Diagnosis of Trichomonas vaginalis and Investigation of Metronidazole Resistance].
119. Selection of Excipients for the Preparation of Vancomycin-Loaded Poly(D,L-lactide-co-glycolide) Microparticles with Extended Release by Emulsion Spray Drying.
120. Greener and Whiter Analytical Chemistry Using Cyrene as a More Sustainable and Eco-Friendlier Mobile Phase Constituent in Chromatography.
121. Antimycobacterial Activities of Hydroxamic Acids and Their Iron(II/III), Nickel(II), Copper(II) and Zinc(II) Complexes.
122. Antimicrobial Resistance in Bacteria from Meat and Meat Products: A One Health Perspective.
123. Telacebec Interferes with Virulence Lipid Biosynthesis Protein Expression and Sensitizes to Other Antibiotics.
124. Validating Interactions of Pathogenic Proteins of Staphylococcus aureus and E. coli with Phytochemicals of Ziziphus jujube and Acacia nilotica.
125. Probiotics and Their Bioproducts: A Promising Approach for Targeting Methicillin-Resistant Staphylococcus aureus and Vancomycin-Resistant Enterococcus.
126. Effects of Synbiotic Lacticaseibacillus paracasei, Bifidobacterium breve, and Prebiotics on the Growth Stimulation of Beneficial Gut Microbiota.
127. Antibiotic use and consumption among medical patients of two hospitals in Sierra Leone: a descriptive report.
128. Efficacy of oritavancin and nisin alone and their combination against vancomycin resistant enterococci strains in hospitalized patients in Turkiye.
129. Use of vancomycin and gentamicin-impregnated calcium sulfate beads for the prevention of surgical site infection in adult spinal deformity.
130. Teicoplanin associated gene tcaA inactivation increases persister cell formation in Staphylococcus aureus.
131. Design and Synthesis of d-Ala-d-Ala Silica Gel for a Binding Mode-Based Physicochemical Screening Method.
132. Vancomycin-induced gut microbial dysbiosis alters enteric neuron-macrophage interactions during a critical period of postnatal development.
133. Ultrasound-Induced Abiotic and Biotic Interfacial Electron Transfer for Efficient Treatment of Bacterial Infection.
134. Effectiveness of chlorhexidine gels and chips in Periodontitis Patients after Scaling and Root Planing: a systematic review and Meta-analysis.
135. [Clinical and etiological characteristics of infectious vulvovaginitis in children in Zhejiang province from 2009 to 2019].
136. A metagenomic library cloning strategy that promotes high-level expression of captured genes to enable efficient functional screening.
137. Retrospective review of intermittent and continuous infusion vancomycin for methicillin-resistant Staphylococcus aureus bacteremia.
138. Profiling daptomycin resistance among diverse methicillin-resistant Staphylococcus aureus lineages in China.
139. Compass for antibiotic stewardship: using a digital tool to improve guideline adherence and drive clinician behaviour for appendicitis treatment in the emergency department.
140. Underwater bubbling plasma assisted with persulfate activation for the synergistic degradation of tetracycline hydrochloride.
141. Intraosseous regional prophylaxis in total knee arthroplasty.
142. Cost-effectiveness of selective decontamination of the digestive tract to decrease infectious complications in colorectal cancer surgery: An analysis of the SELECT trial.
143. Emergence of novel ST1299 vanA lineages as possible cause for the striking rise of vancomycin resistance among invasive strains of Enterococcus faecium at a German university hospital.
144. Comparative efficacy of vancomycin in treating ST5 and ST764 methicillin-resistant Staphylococcus aureus infections in adult patients.
145. Synergistic effects of polymyxin and vancomycin combinations on carbapenem- and polymyxin-resistant Klebsiella pneumoniae and their molecular characteristics.
146. The novel bacteriocin romsacin from Staphylococcus haemolyticus inhibits Gram-positive WHO priority pathogens.
147. Single-Cell Meta-Analysis of Neutrophil Activation in Kawasaki Disease and Multisystem Inflammatory Syndrome in Children Reveals Potential Shared Immunological Drivers.
148. Comparison of Antimicrobial Activity of Injectable Platelet-Rich Fibrin (i-PRF) and Leukocyte and Platelet-Rich Fibrin (l-PRF) Against Oral Microbes: An In Vitro Study.
149. Facilitating the structural characterisation of non-canonical amino acids in biomolecular NMR.
150. Elution profiles of metronidazole from calcium sulfate beads.
151. Meningitis and sepsis caused by Streptococcus suis in an elderly woman: A CARE-compliant case report.
152. Corydalis Saxicola Bunting Total Alkaloid Eliminates Porphyromonas gingivalis strain 33277 Internalized into Macrophages by Inhibition of TLR2.
153. Perioperative daptomycin for prophylaxis of vancomycin-resistant Enterococcus infection in colonized liver transplant recipients.
154. Experience of the use of lock therapy in pediatric patients with central venous catheter.
155. Sulfonium-Cross-Linked Hyaluronic Acid-Based Self-Healing Hydrogel: Stimuli-responsive Drug Carrier with Inherent Antibacterial Activity to Counteract Antibiotic-Resistant Bacteria.
156. Retrospective analysis of 10 cases with esophageal fistula after anterior surgery for cervical spine fracture.
157. Pharmacotechnical aspects of a stable probiotic formulation toward multidrug-resistance antibacterial activity: design and quality control.
158. Oral vancomycin treatment suppresses gut trypsin activity and preserves intestinal barrier function during EAE.
159. Preparation of fish collagen and vancomycin microspheres based on microfluidic technology and its application in osteomyelitis.
160. Bismuth-Based Therapy: The New Therapy for Obese Patients Undergoing Gastric Bypass Surgery?
161. Effect of Age on the Etiology and Antibiotic Susceptibility Pattern of Infectious Endophthalmitis.
162. Endophthalmitis caused by Burkholderia cepacia complex (BCC): clinical characteristics, antibiotic susceptibilities, and treatment outcomes.
163. Systemic non-steroidal immunomodulators for oral lichen planus treatment-a scoping review.
164. The association between HIV and BV and metronidazole treatment failure for Trichomonas vaginalis.
165. Impact of doxycycline on Clostridioides difficile infection in patients hospitalized with community-acquired pneumonia.
166. Flowchart for predicting achieving the target area under the concentration-time curve of vancomycin in critically ill Japanese patients: A multicenter retrospective study.
167. Association of patient clinical and gut microbiota features with vancomycin-resistant enterococci environmental contamination in nursing homes: a retrospective observational study.
168. Environmental contamination contributing to the spread of vancomycin-resistant enterococci in nursing homes.
169. Activated mesenchymal stem cells increase drug susceptibility of methicillin-resistant Staphylococcus aureus and Pseudomonas aeruginosa.
170. Retraction Note: Systematic review and meta-analysis of the epidemiology of Vancomycin-resistance Staphylococcus aureus isolates.
171. Characterization of Brazilian green propolis as a photosensitizer for LED light-induced antimicrobial photodynamic therapy (aPDT) against methicillin-resistant Staphylococcus aureus (MRSA) and Vancomycin-intermediate Staphylococcus aureus (VISA).
172. Bacillus cereus Sepsis in a Patient with Severe Alcoholic Hepatitis: A Case Report.
173. Two into one does go: Formulation development of a multipurpose combination vaginal ring releasing dapivirine and metronidazole for prevention of HIV infection and treatment of bacterial vaginosis.
174. Detection of multidrug-resistant Campylobacter species from food-producing animals and humans in Nigeria: Public health implications and one health control measures.
175. Metronidazole prescribing practices in Australian hospitals: Measuring guideline compliance and appropriateness to support antimicrobial stewardship.
176. Pyrazole: an emerging privileged scaffold in drug discovery.
177. Molecular characterization and biofilm formation ability of Enterococcus faecium and Enterococcus faecalis bloodstream isolates from a Chinese tertiary hospital in Beijing.
178. Topical Vancomycin for Prevention of Surgical Site Infection in Cranial Surgeries: Results of an Updated Systematic Review, Meta-Analysis and Meta-Regression.
179. Combinatorial efficacy of Manuka honey and antibiotics in the in vitro control of staphylococci and their small colony variants.
180. Recurrent amebic liver abscesses despite metronidazole treatment: A rare case report.
181. Method for determination of elemental impurities in metronidazole benzoate using inductively coupled plasma mass spectrometry.
182. Fosfomycin as salvage therapy for persistent methicillin-resistant Staphylococcus aureus bacteremia: A case series and review of the literature.

FMT/ Fecal Microbiota Transplant

1. Microbiota Transplant and Gynecological Disorders: The Bridge between Present and Future Treatments.
2. [Microbiome: from pathophysiology to clinical application?].

Competitors

1. Industrialized human gut microbiota increases CD8+ T cells and mucus thickness in humanized mouse gut.
2. The prospect of universal coronavirus immunity: characterization of reciprocal and non-reciprocal T cell responses against SARS-CoV2 and common human coronaviruses.
3. Photoaged Polystyrene Nanoplastics Result in Transgenerational Reproductive Toxicity Associated with the Methylation of Histone H3K4 and H3K9 in Caenorhabditis elegans.

CDAD

1. Detection of multiple human enteropathogens in Norway rats (Rattus norvegicus) from an under-resourced neighborhood of Vancouver, British Columbia.
2. Research progress on the regulation of oxidative stress by phenolics: The role of gut microbiota and Nrf2 signaling pathway.
3. Enteric Infection at Flare of Inflammatory Bowel Disease Impacts Outcomes at 2 Years.
4. Recent trends and risk factors associated with Clostridioides difficile infections in hospitalized patients with inflammatory bowel disease.
5. Gut Microbiota Associated with Clostridioides difficile Carriage in Three Clinical Groups (Inflammatory Bowel Disease, C. difficile Infection and Healthcare Workers) in Hospital Field.
6. Non-viral pathogens of infectious diarrhoea post-allogeneic stem cell transplantation are associated with graft-versus-host disease.

CMC

1. Utilizing targeted integration CHO pools to potentially accelerate the GMP manufacturing of monoclonal and bispecific antibodies.

Guidelines

1. Infections After Adoption of Antibiogram-directed Prophylaxis and Intracorporeal Urinary Diversion for Robot-assisted Radical Cystectomy.
2. Systematic review of ceftaroline fosamil in the management of patients with methicillin-resistant Staphylococcus aureus pneumonia.
3. Australian recommendations for the management of drug-resistant tuberculosis, 2023.
4. Australian vaccine preventable disease epidemiological review series: tetanus 2003-2019.
5. Re: 'the effect of antibiotic therapy for Clostridioides difficile infection on mortality and other patient-relevant outcomes' by Stabholz et al.
6. Intracranial germinoma combined with parathyroid adenoma in a male pediatric patient: A case report.
7. Comparing Oral Versus Intravenous Antibiotics Administration for Cellulitis Infection: Protocol for a Systematic Review and Meta-Analysis.
8. Impact of a Pharmacist-Conducted Preoperative Beta-Lactam Allergy Assessment on Perioperative Cefazolin Prescribing.

Non-toxigenic C. difficile

1. Clostridioides difficile from Fecally Contaminated Environmental Sources: Resistance and Genetic Relatedness from a Molecular Epidemiological Perspective.
2. Complete genome sequence of a Clostridioides difficile cryptic C-III strain isolated from horse feces.
3. Prevalence of diagnostically-discrepant Clostridioides difficile clinical specimens: insights from longitudinal surveillance.

MGB

Other news of possible interest