**M3 Literature Review**

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Scientific Highlights:

1. Prevalence and Risk Factors of Clostridium difficile Infection Among Patients Hospitalized for a Flare of Inflammatory Bowel Disease in King Abdulaziz University Hospital.
2. Predictive value of fecal calprotectin and lactoferrin levels for negative outcomes in Clostridioides difficile infection.
3. Pulsed dosing and extended daily dosing of oral vancomycin do not facilitate clearance of Clostridioides difficile colonization in mice.
4. A Comparison of the Efficacy of Treatment With Fidaxomicin Versus Vancomycin in Clostridioides difficile Infection.
5. Vowst's FDA approval is a boon for the prevention of recurrent Clostridioides difficile infection.
6. Update on Microbiota-derived therapies for recurrent Clostridioides difficile infections, 2023.
7. Microbiome-preserving antibiotics for the treatment of Clostridioides difficile infection: a systematic review and meta-analysis.
8. Host Immune Responses to Clostridioides difficile Infection and Potential Novel Therapeutic Approaches.
9. Circadian Rhythms and Depression in Adolescents: A Comparative Analysis of First Episode and Recurrent-Episode Groups.
10. Development of a Protocol for Anaerobic Preparation and Banking of Fecal Microbiota Transplantation Material: Evaluation of Bacterial Richness in the Cultivated Fraction.
11. Efficacy and Practical Implementation of Fecal Microbiota Spores, Live-BRPK: A Novel Approach for Preventing Recurrent Clostridioides difficile Infection.
12. Prescription Microbiome Therapeutic for Recurrent Clostridioides difficile Infection: Fecal Microbiota Live-jslm.
13. Peritoneal Dialysis-Associated Peritonitis Caused by Achromobacter xylosoxidans: A Case Report and Literature Review.
14. Bacterial microbiome changes after fecal transplantation for recurrent Clostridioides difficile infection in the Brazilian center.
15. Clostridioides difficile Biofilm.
16. Comparative Genomics of Clostridioides difficile.
17. Immunization Strategies Against Clostridioides difficile.
18. Fecal Microbiota Transplantation as Emerging Treatment in European Countries 2.0.
19. European Practice for CDI Treatment.
20. Economic Burden of Clostridioides difficile Infection in European Countries.
21. Erratum: Efficacy and Practical Implementation of Fecal Microbiota Spores, Live-BRPK: A Novel Approach for Preventing Recurrent Clostridioides difficile Infection.

Clostridioides difficile/ Clostridium difficile

1. Students' Perceptions on the Effectiveness of a Computer-Delivered Alcohol Intervention.
2. Examining the relationship of acetaminophen use during pregnancy with early language development in children.
3. Comparison of Clostridioides difficile nucleic acid amplification test (NAAT) results using fresh and frozen stool specimens and rectal swabs.
4. Impact of extended-infusion piperacillin-tazobactam in a Canadian community hospital.
5. Antistaphylococcal Efficacy of Cefepime, Meropenem, and Piperacillin-Tazobactam in Patients with Polymicrobial Infection with MSSA Bacteremia or Pneumonia.
6. Fecal Dysbiosis and Inflammation in Intestinal-Specific Cftr Knockout Mice on Regimens Preventing Intestinal Obstruction.
7. Cognitive improvement following endovascular embolization in patients with intracranial dural arteriovenous fistula: The Neuropsychology in dural ArterIal Fistula (NAIF) Study.
8. How Safe are Outpatient Electronic Health Records? An Evaluation of Medication-Related Decision Support using the Ambulatory Electronic Health Record Evaluation Tool.
9. High performance of membrane capacitive deionization with ZnS/g-C(3)N(4) composite electrodes.
10. Psychopathological Analysis of Adolescent Girls With Autoimmune Thyroiditis.
11. Hydrogen-Bonded Organic Framework Derived 2D N, O Co-Doped Carbon Nanobelt with Tunable Pseudocapacitive Contribution for Efficient Capacitive Deionization.
12. Super-enhancers include classical enhancers and facilitators to fully activate gene expression.
13. Potential contamination and health risk assessment of heavy metals in Hurghada coastal sediments, Northwestern Red Sea.
14. Hydrolyzed Hydrated Titanium Oxide on Laser-Induced Graphene as CDI Electrodes for U(VI) Adsorption.
15. Non-carcinogenic and carcinogenic health risk assessment of heavy metals in cooked beans and vegetables in Punjab, North India.
16. Evaluation of murine renal phagocyte-fungal interactions using intravital confocal microscopy and flow cytometry.
17. Design, Synthesis, and Evaluation of Cephamycin-Based Antisporulation Agents targeting Clostridioides difficile.
18. A comprehensive assessment of the prolonged febrile neutropenia evaluation in pediatric oncology patients.
19. Physics constrained unsupervised deep learning for rapid, high resolution scanning coherent diffraction reconstruction.
20. The impact of gut microbiome enterotypes on ulcerative colitis: identifying key bacterial species and revealing species co-occurrence networks using machine learning.
21. Assessing Trace Metal-Based Human Health Risks for Commonly Used Body Soaps in Bangladesh.
22. A reliable external calibration method for reaction monitoring with benchtop NMR.
23. Skin involvement in CREST syndrome: not only telangiectasias?
24. 3D grape string-like heterostructures enable high-efficiency sodium ion capture in Ti(3)C(2)T(x) MXene/fungi-derived carbon nanoribbon hybrids.
25. Vonoprazan (Voquezna) for erosive esophagitis.
26. Common and divergent gene regulatory networks control injury-induced and developmental neurogenesis in zebrafish retina.
27. Calcium and Calmodulin-dependent Inhibition of NMDA Receptor Currents.
28. Implementation of a Scalable Online Weight Management Programme in Clinical Settings: Protocol for the PROPS 2.0 Programme (Partnerships for Reducing Overweight and Obesity with Patient-Centered Strategies 2.0).
29. Development of a Pipeline for Removing Allergy Labels in Patients Undergoing Hematopoietic Stem Cell Transplantation.
30. Impact of strict isolation measures, surgical activity and antimicrobial use on Clostridioides difficile infection during COVID-19.
31. A community-based child health and parenting intervention to improve child HIV testing, health, and development in rural Lesotho (Early Morning Star): a cluster-randomised, controlled trial.
32. Synthesis, antiproliferative and antiplasmodial evaluation of new chloroquine and mefloquine-based harmiquins.
33. The diagnostic role of arginine-stimulated copeptin in the differential diagnosis of polyuria-polydipsia syndrome (PPS) in pediatric age.
34. Future Microbiome Therapeutics for Clostridioides difficile Infection.
35. The Association between Caring Behavior and Death Anxiety among Iranian Nurses Working in Covid-19 Wards.
36. A novel approach to correcting attribution of Clostridioides difficile in a healthcare setting.
37. The iceberg of discrimination based on gender in Hospital Medicine.
38. Antimicrobial and anti-diabetic efficiency of Polyalthia longifolia leaf extracts and major compounds characterization.
39. Transition to Chronic Fibrosis in an Animal Model of Retinal Detachment With Features of Proliferative Vitreoretinopathy.
40. Non-human Clostridioides difficile Reservoirs and Sources: Animals, Food, Environment.
41. Membrane Vesicles of Clostridioides difficile and Other Clostridial Species.
42. Clostridioides difficile Sporulation.
43. Asymmetric contribution of a selectivity filter gate in triggering inactivation of CaV1.3 channels.
44. Retraction for Amrane et al., "Clostridium scindens Is Present in the Gut Microbiota during Clostridium difficile Infection: a Metagenomic and Culturomic Analysis".
45. Novel phenylthiazoles with a tert-butyl moiety: promising antimicrobial activity against multidrug-resistant pathogens with enhanced ADME properties.
46. The dual role for probiotics use in dental practices.
47. Multi-kingdom microbial signatures in excess body weight colorectal cancer based on global metagenomic analysis.
48. Preparation of heterogeneous cation exchange membrane and its contributions in enhancing the removal of Ni(2+) by capacitive deionization system.
49. Enhancing competency in infection prevention and control: Identifying priorities for clinical nurse educational needs.

Fidaxomicin & Clostridium difficile

1. Fecal microbiota transplantation: the need for effective treatment of Clostridioides difficile infection in Pakistan.

Clostridioides difficile vaccine

1. Crisis averted: a world united against the menace of multiple drug-resistant superbugs -pioneering anti-AMR vaccines, RNA interference, nanomedicine, CRISPR-based antimicrobials, bacteriophage therapies, and clinical artificial intelligence strategies to safeguard global antimicrobial arsenal.
2. Estimating the Burden of Clinically Significant Staphylococcus aureus Infections and Predictors for Hospitalization for Skin and Soft Tissue Infections, Fulton County, Georgia, 2017.

Vancomycin & CDI

1. Ribotypes and antimicrobial susceptibility profiles of clinical Clostridioides difficile isolates: A multicenter, laboratory-based surveillance in Taiwan, 2019-2021.
2. A Review of the Evidence on the Role of Floors and Shoes in the Dissemination of Pathogens in a Healthcare Setting.

CDI

1. In Vitro and In Vivo Antimicrobial Activities of Vancomycin and Rifampin against Elizabethkingia anophelis.
2. The Impact of the Rapid Blood Culture Identification Panel on Antibiotic Treatment and Clinical Outcomes in Bloodstream Infections, Particularly Those Associated with Multidrug-Resistant Micro-Organisms.
3. Description of a nationwide structure for monitoring nosocomial outbreaks of (highly resistant) microorganisms in the Netherlands: characteristics of outbreaks in 2012-2021.
4. Effect of early antibiotic treatment strategy on prognosis of acute pancreatitis.
5. Adaptive cell wall thickening in Enterococcus faecalis is associated with decreased vancomycin susceptibility.
6. Design and evaluation of antibacterials crosslinked chitosan nanoparticle as a novel carrier for the delivery of metronidazole to treat bacterial vaginosis.
7. Rising threats of hospital-borne multidrug resistant Stenotrophomonas maltophilia in the adolescent at Najran, Saudi Arabia.
8. Effect of Pharmacoprophylaxis on Postoperative Outcomes in Adult Elective Colorectal Surgery: A Multi-Center Retrospective Cohort Study within an Enhanced Recovery after Surgery Framework.
9. Metaproteomic assessment of gut microbial and host functional perturbations in Helicobacter pylori-infected patients subjected to an antimicrobial protocol.
10. Antigiardial and antiamebic activities of fexinidazole and its metabolites: new drug leads for giardiasis and amebiasis.
11. Exploring the antimicrobial potential of 4,5,7-trihydroxyflavanone (THF) against vancomycin-resistant Enterococcus gallinarum infections: in vitro and in silico investigations.
12. Antibiotic Prophylaxis for Grade 3 Open Fractures: A Retrospective Comparison of Ceftriaxone Plus Vancomycin Versus Cefazolin Plus Gentamicin.
13. Antibiotic resistance in patients with liver cirrhosis: Prevalence and current approach to tackle.
14. Bismuth Subcitrate, Metronidazole and Tetracycline - A Rare Cause of Drug-Induced Liver Injury.
15. Tetanus Following Canine Bite in Japan: A Case Report and Literature Review.
16. The evolution of diverse antimicrobial responses in vancomycin-intermediate Staphylococcus aureus and its therapeutic implications.
17. Case report: Fatal Legionella infection diagnosed via by metagenomic next-generation sequencing in a patient with chronic myeloid leukemia.
18. Microbacterium spp. peritonitis in patients undergoing peritoneal dialysis: a single-center experience and literature review.
19. Draft genome sequencing data of Enterococcus faecium BT22, a vancomycin-resistant opportunistic pathogen isolated from hospital effluents.
20. Blood Stream Infections in COVID-19 Patients From a Tertiary Care Center in Lebanon: Causative Pathogens and Rates of Multi-Drug Resistant Organisms.
21. The role of long-acting antibiotics in the clinical practice: a narrative review.
22. Case report: Two case reports of cryptogenic brain abscess caused by Fusobacterium nucleatum and literature review.
23. Rapid diagnostic work-up of Streptococcus dysgalactiae endophthalmitis by a novel culture processing system.
24. Effectiveness of Bio-K+ for the prevention of Clostridioides difficile infection: Stepped-wedge cluster-randomized controlled trial.
25. P450-Modified Multicyclic Cyclophane-Containing Ribosomally Synthesized and Post-Translationally Modified Peptides.
26. A dual mechanism with H(2)S inhibition and membrane damage of morusin from Morus alba Linn. against MDR-MRSA.
27. Does topical vancomycin prevent fracture-related infections in closed fractures undergoing open reduction and internal fixation? A randomised controlled trial.
28. Electrochemical and optical (bio)sensors for analysis of antibiotic residuals.
29. Incidence of Antimicrobial-Associated Acute Kidney Injury in Children: A Structured Review.
30. Frequency and Risk Factor Analysis for Metronidazole-Associated Neurologic Adverse Events.
31. Association Between Common Empiric Antibiotic Regimens and Clostridioides Difficile Infection in Pediatric Appendicitis.
32. Shift in risk factors for mortality by period of the bloodstream infection timeline.
33. Preoperative Transcatheter Arterial Embolization for Spontaneous Rupture of Huge Amebic Liver Abscess with Massive Intraperitoneal Hemorrhage.
34. Emergence of Rapid-Onset Ototoxicity Following Three Doses of Vancomycin: A Unique Case Report in the Context of Normal Renal Function and Therapeutic Dosing.
35. Molecular and Clinical Features of Heterogeneous Vancomycin-Intermediate Staphylococcus aureus in Tertiary Care Hospitals in South India.
36. The Challenging Path to Diagnosing Extraintestinal Amoebiasis: A Case Report of an HIV-Infected Patient.
37. Antibiotic resistance of Helicobacter pylori in Nanjing, China: a cross-section study from 2018 to 2023.
38. Epidemiology of vancomycin-resistant enterococci in the United Arab Emirates: a retrospective analysis of 12 years of national AMR surveillance data.
39. Construction of antibiotic-induced depression mice model and the function of intestinal microbiota.
40. The role of the hospital bed in hospital-onset Clostridioides difficile: A retrospective study with mediation analysis.
41. Multidrug-resistant organisms may be associated with bed allocation and utilization efficiency in healthcare institutions, based on national monitoring data from China (2014-2020).
42. Genomic insights into Enterococcus faecium isolates from marine bivalves highlight One Health concerns and healthcare linkages.
43. A Boron-Dependent Antibiotic Derived from a Calcium-Dependent Antibiotic.
44. Incidence, Patterns, and Characteristics of Patients With Acute Kidney Injury Requiring Renal Replacement Therapy in Cancer Settings.
45. Updates on the Causes, Diagnosis, and Management of Peritoneal Abscesses: A Systematic Review.
46. Orientational Nanoconjugation with Gold Endows Marked Antimicrobial Potential and Drugability of Ultrashort Dipeptides.
47. Development of membrane-targeting TPP(+)-chloramphenicol conjugates to combat methicillin-resistant staphylococcus aureus (MRSA) infections.
48. Comparative Evaluation of the Antimicrobial Efficacy of Chemical and Phytomedicinal Agents When Used As Intracanal Irrigants: An In Vitro Study.
49. Molecular Serotyping and Antibiotic Resistance Profile of Group B Streptococcus Strains Isolated from Iranian Pregnant Women with Urinary Tract Infection.
50. Antibacterial activity of Hypericum perforatum L. (St. John's wort) extracts against Gram-positive bacteria and characterisation of its secondary metabolites.
51. The VANCO Trial Findings Are Generalizable to a North American Trauma Registry.
52. Elizabethkingia meningoseptica Outbreak in NICU: An Observational Study on a Debilitating Neuroinfection in Neonates.
53. Vancomycin-resistant Enterococcus faecium in Japan, 2007-2015: a molecular epidemiology analysis focused on examining strain characteristics over time.
54. IgA coating of vaginal bacteria is reduced in the setting of bacterial vaginosis (BV) and preferentially targets BV-associated species.
55. Treatment patterns and economic burden of bacterial vaginosis among commercially insured women in the USA.
56. Genetic characterization of tetracycline-resistant Staphylococcus aureus with reduced vancomycin susceptibility using whole-genome sequencing.
57. The Changes in Broad-spectrum Antimicrobial Consumption during the COVID-19 Pandemic in a Japanese Acute Tertiary-care Hospital: An Interrupted Time-series Analysis.
58. Non-Cefazolin Antibiotic Prophylaxis is Associated with Higher Rates of Elbow Periprosthetic Joint Infection.
59. Fecal metabolite profiling identifies liver transplant recipients at risk for postoperative infection.
60. Analytical Validation of Aptamer-Based Serum Vancomycin Monitoring Relative to Automated Immunoassays.
61. Experience With a Vancomycin-sparing Empiric Antibiotic Guideline for Late-onset Sepsis in a Level-4 Neonatal Intensive Care Unit.
62. A 10-year retrospective study of methicillin-resistant Staphylococcus aureus from burn wound infection in southeast China from 2013 to 2022.
63. Successful management of severe generalized tetanus in a 23-year man with phenobarbital adjuvant: A case report.
64. The Association Between Serum Vancomycin Level and Clinical Outcome in Patients With Peritoneal Dialysis Associated Peritonitis.
65. Prediction of Acute Kidney Injury in Intracerebral Hemorrhage Patients Using Machine Learning.
66. Systemic ciprofloxacin treatment of multidrug-resistant Aggregatibacter actinomycetemcomitans in severe periodontitis.
67. Selective purification and rapid quantitative detection of spores using a "stepped" magnetic flow device.
68. Pharmacokinetics of Locally Applied Antibiotic Prophylaxis for Implant-Based Breast Reconstruction.
69. Clinical characteristics and antimicrobial susceptibility of Fusobacterium species isolated over 10 years at a Japanese university hospital.
70. The population structure of vancomycin-resistant and -susceptible Enterococcus faecium in a low-prevalence antimicrobial resistance setting is highly influenced by circulating global hospital-associated clones.
71. Effects of clinically achievable pulmonary antibiotic concentrations on the recovery of bacteria: in vitro comparison of the BioFire FILMARRAY Pneumonia Panel versus conventional culture methods in bronchoalveolar lavage fluid.
72. Investigating the antidiabetic efficacy of dairy-derived Lacticaseibacillus paracasei probiotic strains: modulating α-amylase and α-glucosidase enzyme functions.
73. Phenotypic shifts induced by environmental pre-stressors modify antibiotic resistance in Staphylococcus aureus.
74. Empyema Necessitatis: A Rare Complication of Empyema.
75. Discovery of a structural class of antibiotics with explainable deep learning.
76. The first tigecycline resistant Enterococcus faecium in Norway was related to tigecycline exposure.
77. Assessment of antibiotic resistance patterns in Central Taiwan during the COVID-19 pandemic: A retrospective study.
78. Vancomycin Graft Presoaking in Anterior Cruciate Ligament Reconstruction Surgery Is Associated with a Lower Risk of Graft Rerupture as Compared With No Vancomycin Presoaking: Systematic Review and Meta-analysis.
79. Inter-Hospital Transfer Is an Independent Risk Factor for Hospital-Associated Infection.
80. Catheter-Associated Vancomycin-Resistant Enterococcus faecium Ventriculitis and Multidrug-Resistant Acinetobacter baumannii Pneumonia With Subsequent Acinetobacter Ventriculitis: A Case Report.
81. A retrospective study of endogenous endophthalmitis-related pyogenic liver abscess: An increasing complication in North Vietnam.
82. Antilisterial activity of raw sheep milk from two native Epirus breeds: Culture-dependent identification, bacteriocin gene detection and primary safety evaluation of the antagonistic LAB biota.
83. Effects of amoxicillin and metronidazole as an adjunct to scaling and root planing on glycemic control in patients with periodontitis and type 2 diabetes: A short-term randomized controlled trial.
84. Microbiological profile of patients treated for postoperative peritonitis: temporal trends 1999-2019.
85. Excess resource use and cost of drug-resistant infections for six key pathogens in Europe: a systematic review and Bayesian meta-analysis.
86. Emergence of vancomycin-resistant enterococci from vancomycin susceptible enterococci in hospitalized patients under antimicrobial therapy.
87. Intestinal dysbiosis as an intraoperative predictor of septic complications: evidence from human surgical cohorts and preclinical models of peritoneal sepsis.
88. [Clinical efficacy of antibiotic bone cement combined with vacuum sealing drainage in treating diabetes mellitus complicated with necrotizing fasciitis].
89. Practices and drivers of self-medication with antibiotics among undergraduate medical students in Eastern Uganda: A cross-sectional study.
90. Metronidazole-loaded polydopamine nanomedicine with antioxidant and antibacterial bioactivity for periodontitis.
91. Toward Model-Based Informed Precision Dosing of Vancomycin in Hematologic Cancer Patients: A First Step.
92. Unraveling the Synergistic Mechanism of Boosted Photocatalytic H(2) O(2) Production over Cyano-g-C(3) N(4) /In(2) S(3) /Ppy Heterostructure and Enhanced Photocatalysis-Self-Fenton Degradation Performance.
93. Antimicrobial use related problems and determinants in surgical ward of Ethiopian tertiary hospital.
94. Etiology and antimicrobial resistance patterns in chronic osteomyelitis of the tibia: an 11-year clinical experience.
95. Impact of Formulation and Microneedle Length on Transdermal Metronidazole Permeation through Microneedle-Treated Skin.
96. Metal Organic Framework-Incorporated Three-Dimensional (3D) Bio-Printable Hydrogels to Facilitate Bone Repair: Preparation and In Vitro Bioactivity Analysis.
97. Structural Element of Vitamin U-Mimicking Antibacterial Polypeptide with Ultrahigh Selectivity for Effectively Treating MRSA Infections.
98. Population pharmacokinetics of antibacterial agents in the older population: a literature review.
99. Evaluating the utility of inflammation score in post-cataract surgery endophthalmitis. Results from a prospective study in India. EMS Report #4.
100. Munchausen Syndrome by Proxy Presenting as Pharyngeal Dysphagia and Recurrent Mouth Ulcers: A Case Report.
101. Drug-Induced Linear IgA Bullous Dermatosis in an Oncologic Patient.
102. Comparison of Vancomycin Trough-Based and 24-Hour Area Under the Curve Over Minimum Inhibitory Concentration (AUC/MIC)-Based Therapeutic Drug Monitoring in Pediatric Patients.
103. Case report: A severe case of generalized tetanus in a young cat.
104. Efficacy comparison of 7- and 14-day P-CAB based bismuth-containing quadruple regimen with PPI based bismuth-containing quadruple regimen for Helicobacter pylori infection: rationale and design of an open-label, multicenter, randomized controlled trial.
105. Antimicrobial Activity of Ceragenins against Vancomycin-Susceptible and -Resistant Enterococcus spp.
106. Staged Treatment of Posttraumatic Tibial Osteomyelitis with Rib Graft and Serratus Anterior Muscle Autografts-Case Report.
107. Solid-State Dewetting of Thin Au Films for Surface Functionalization of Biomedical Implants.
108. An Outbreak of Vancomycin-Resistant Enterococci in a City Hospital Intensive Care Unit: Molecular Characterization of Resistance.
109. Role of Probiotics in Preventing Carbapenem-Resistant Enterobacteriaceae Colonization in the Intensive Care Unit: Risk Factors and Microbiome Analysis Study.
110. Isolation and Identification of Microorganisms and Antibiotic Resistance Microorganisms from Beehives Located in Palm, Corn and Longan Plantations, Thailand.
111. Effect of Vancomycin, Gentamicin and Clindamycin on Cartilage Cells In Vitro.
112. Activity of Cinnamic Acid Derivatives with 4-Chloro-2-mercaptobenzenesulfonamide Moiety against Clinical HLAR and VRE Enterococcus spp.
113. Evaluation of the Diagnosis and Antibiotic Prescription Pattern in Patients Hospitalized with Urinary Tract Infections: Single-Center Study from a University-Affiliated Hospital.
114. Molecular Epidemiology of Methicillin-Resistant Staphylococcus aureus among Patients Diagnosed with Surgical Site Infection at Four Hospitals in Ethiopia.
115. Antibiotic Resistance in Helicobacter pylori Isolates from Northwestern and Central Romania Detected by Culture-Based and PCR-Based Methods.
116. High Incidence of Multiple-Drug-Resistant Pheromone-Responsive Plasmids and Transmissions of VanA-Type Vancomycin-Resistant Enterococcus faecalis between Livestock and Humans in Taiwan.
117. The Outcome of Antibiotic Overuse before and during the COVID-19 Pandemic in a Tertiary Care Hospital in Oman.
118. The effects of antibiotic therapy on neonatal sepsis-associated acute kidney injury.
119. Evaluation of silver nanoparticle-impregnated PMMA loaded with vancomycin or gentamicin against bacterial biofilm formation.
120. Vancomycin powder in the prevention of infection in primary knee and hip arthroplasty: Case-control study with 1151 arthroplasties.
121. Staphylococcus aureus Surface Attachment Selectively Influences Tolerance Against Charged Antibiotics.
122. Distribution of vancomycin-resistant Enterococcus on hospital surfaces at southern Brazil.
123. Linezolid and vancomycin for nosocomial infections in pediatric patients: a systematic review.
124. Microbiological analysis and antibiotic selection strategy in neck abscesses among patients with diabetes mellitus.
125. Concomitant Use of Multiple Nephrotoxins including Renal Hypoperfusion Medications Causes Vancomycin-Associated Nephrotoxicity: Combined Retrospective Analyses of Two Real-World Databases.
126. Methicillin resistant Staphylococcus aureus in the United Arab Emirates: a 12-year retrospective analysis of evolving trends.
127. VIBES: A consensus subtyping of the vaginal microbiota reveals novel classification criteria.
128. Is Corynebacterium striatum an emerging prosthetic joint infection pathogen and how should it be treated?
129. Fatal hemorrhagic bronchopneumonia caused by Bordetella bronchiseptica in an immunocompetent patient.
130. Fosfomycin Enhances the Inhibition Ability of Linezolid Against Biofilms of Vancomycin-Resistant Enterococcus faecium in vitro.
131. A Multifactorial Case of Stevens-Johnson Syndrome With Atypical Features.
132. The emergence of multidrug-resistant Gram-positive bloodstream infections in India - a single center prospective cohort study.
133. Radiology Department: A Potential Source of Multidrug-Resistant Microorganisms: A Cross-Sectional Study at Tertiary Hospital, Palestine.
134. Do All Prosthetic Joint Infection Clinical Isolates Form Aggregates in Synovial Fluid That Are Resistant to Antibiotic Agents?
135. The Effect of Hydroalcoholic Extract of Quercus brantii and Artemisia aucheri Boiss Against Trichomonas vaginalis In vitro.
136. Association of Chlamydia trachomatis burden with the vaginal microbiota, bacterial vaginosis, and metronidazole treatment.
137. The first vanE-type vancomycin resistant Enterococcus faecalis isolates in Norway - phenotypic and molecular characteristics.
138. Dual stimuli-responsive delivery system for self-regulated colon-targeted delivery of poorly water-soluble drugs.
139. Perioperative Means to Prevent Surgical Site Infections following Elective Craniotomies: A Single-Center Experience.
140. Bacteriophage endolysin Ply113 as a potent antibacterial agent against polymicrobial biofilms formed by enterococci and Staphylococcus aureus.
141. A Deep Learning-Based Approach for Prediction of Vancomycin Treatment Drug Monitoring: Retrospective Data of Critically Ill Patients.
142. A meta-analysis examining the impact of intrawound treatment on reducing deep surgical site infections during instrumented spine surgery.
143. Sorbent functionalization with vancomycin enhances bacteria killing in extracorporeal hemoadsorption.
144. Mixed methods evaluation of handshake antimicrobial stewardship on adult inpatient medicine floors.
145. Association of vancomycin-induced acute kidney injury with trough versus AUC monitoring in patients receiving extended durations of therapy.
146. Infective Endocarditis Caused by Corynebacterium striatum: Navigating Challenges and Treatment Strategies in an Emerging Threat.
147. A Comparison of the Minimum Inhibitory Concentration of Antibiotics in Staphylococcus Species Isolated From Orthopedic and Respiratory Medicine Infections.
148. Isolation, identification and antimicrobial susceptibility of the bacteria isolated from Hyalomma dromedarii infesting camels in Al-Jouf province, Saudi Arabia.
149. Antibiotic cement nails manufactured with threaded rods or cannulated intramedullary nails are better than those made with guidewires and do not debond.
150. Epidemiological characterization of clinical isolates of meticillin resistant Staphylococcus aureus through multilocus sequence typing and staphylococcal cassette chromosome mec typing in Northwest Iran.
151. Antibiotic resistance monitoring in wastewater in the Nordic countries: A systematic review.
152. Detection of non-ribosomal and polyketide biosynthetic genes in bacteria from green mud crab Scylla serrata gut microbiome and their antagonistic activities.
153. Impact of CRAMP-34 on Pseudomonas aeruginosa biofilms and extracellular metabolites.
154. The use of routinely collected electronic prescribing data to benchmark intravenous antibiotic use between two tertiary paediatric haematology-oncology inpatient units: a retrospective study.
155. Long-term carriage and evolution of VREfmLong-term carriage and evolution of vancomycin-resistant Enterococcus faecium: a genomic study on consecutive isolates.
156. The Cytotoxic Assessment of Antibacterial-Enhanced Mineral Trioxide Aggregate Compared to Commercially Available Bioceramic Cements by Using Methyl-Thiazoldiphenyl-Tetrazolium (MTT) Assay on Human Dental Pulp Stem Cells: An In Vitro Study.
157. Drug-Induced Hidradenitis Suppurativa: A Case Report.
158. Urinary tract infection associated with bacteremia caused by vancomycin-resistant enterococcus following continent urinary diversion.
159. Biofilms: A developmental niche for vancomycin-intermediate Staphylococcus aureus.
160. Occurrence and environmental risks of contaminants of emerging concern across the River Athi Basin, Kenya, in dry and wet seasons.
161. Antibiotic use among hospitalised patients in Sierra Leone: a national point prevalence survey using the WHO survey methodology.
162. Fabrication of poly(β-amino ester) and hyaluronic acid based pH responsive nanocomplex as an antibiotic release system.
163. Comparison of the incidence of nausea and vomiting between linezolid and vancomycin using claims database: a retrospective cohort study.
164. Evaluation of In-Vitro Activity of Ceftaroline Against Methicillin-Resistant Staphylococcus aureus Clinical Isolates.
165. Characterization of community-acquired Clostridioides difficile strains in Israel, 2020-2022.
166. In vitro and in vivo studies on biodegradable Zn porous scaffolds with a drug-loaded coating for the treatment of infected bone defect.
167. Increased risk of hearing loss associated with macrolide use: a systematic review and meta-analysis.
168. Successful Conservative Therapy for Infected Penile Implants: A Case Series.
169. Clinical application of vancomycin TDM in ventilated patients with gastrointestinal cancer: a propensity-matched analysis.
170. The co-infection of pulmonary hydatid cyst, lophomoniasis and tuberculosis in a patient with resistant respiratory symptoms; a case report study.
171. Vancomycin-loaded hydrogels with thermal-responsive, self-peeling, and sustainable antibacterial properties for wound dressing.
172. A prospective observational study of estimating drug related problems and clinical outcomes in subtypes of stroke patients.
173. The Effect of Vancomycin and Tobramycin Local Antibiotic Powder on Surgical Site Infections after Open Treatment of Fracture: A Retrospective Propensity-Matched Analysis.
174. Gut microbiome alpha diversity decreases in relation to body weight, antibiotic exposure, and infection with multidrug-resistant organisms.
175. Cost and availability of selected medicines after implementation of increased import verification fees.
176. Glycolysis: An early marker for vancomycin-specific T-cell activation.
177. High prevalence of heteroresistance in Staphylococcus aureus is caused by a multitude of mutations in core genes.
178. Antibiotic Resistances of Clostridioides difficile.
179. Ribotypes and New Virulent Strains Across Europe.
180. Probiotics for Prevention and Treatment of Clostridium difficile Infection.
181. In vitro study on the transmission of multidrug-resistant bacteria from textiles to pig skin.
182. Ground level utility of Access, Watch, Reserve classification: Insights from a tertiary care center in North India.
183. Knowledge and approach towards Helicobacter pylori diagnosis and management among primary care physicians in Cameroon: a cross-sectional study.
184. A new tetronomycin analog, broad-spectrum and potent antibiotic against drug-resistant Gram-positive bacteria.
185. A Sixty-Nine-Year-Old Female With Serratia marcescens Infection.
186. Relapsing Peritoneal Dialysis-Associated Peritonitis due to Kocuria rhizophila: A Case Report.
187. Time-resolved fluorescence immunoassay based on glucose oxidase-encapsulated metal-organic framework for amplified detection of foodborne pathogen.
188. Multifunctional polymeric guanidine and hydantoin halamines with broad biocidal activity.
189. Freeze-thaw Microfluidic System Produces "Themis" Nanocomplex for Cleaning Persisters-infected Macrophages and Enhancing Uninfected Macrophages.
190. Versatile capillary electrophoresis method for the direct chiral separation of aliphatic and aromatic α-hydroxy acids, β-hydroxy acids and polyhydroxy acids using vancomycin as chiral selector.

FMT/ Fecal Microbiota Transplant

1. Fecal microbiota transplantation: the need for effective treatment of Clostridioides difficile infection in Pakistan.

Competitors

1. Molecular Mechanisms of the Regulation of Liver Cytochrome P450 by Brain NMDA Receptors and via the Neuroendocrine Pathway-A Significance for New Psychotropic Therapies.
2. FIB-4 and APRI for cirrhosis detection in a privately insured national cohort.
3. In vitro activity of tebipenem and comparator agents against bacterial pathogens isolated from patients with cancer.
4. Implementation strategies for hospital-based probiotic administration in a stepped-wedge cluster randomized trial design for preventing hospital-acquired Clostridioides difficile infection.
5. Patient-reported symptoms and diagnostic journey in Multiple Myeloma.
6. Efficacy and safety of 48 weeks of guselkumab for patients with Crohn's disease: maintenance results from the phase 2, randomised, double-blind GALAXI-1 trial.
7. Atypical cutaneous presentation of AOSD with persistent itchy urticaria: A case report.
8. The efficacy and safety of intra-articular dual-acting antibacterial agent (TNP-2092) for implant infection-associated MRSA.
9. Oral β-lactam pairs for the treatment of Mycobacterium avium complex pulmonary disease.
10. High efficacy of the F-ATP synthase inhibitor TBAJ-5307 against non-tuberculous mycobacteria in vitro and in vivo.
11. Structural role of K224 in taniborbactam inhibition of NDM-1.
12. Optimal density-functional theory method for zinc-amino acid complexes determined by analyzing structural and Fourier-transform infrared spectroscopy data.

CDAD

1. Liberation of host heme by Clostridioides difficile-mediated damage enhances Enterococcus faecalis fitness during infection.
2. Phagocytic cell death leads to enhanced release of pro-inflammatory S100A12 in familial Mediterranean fever.
3. The role of gut fungi in Clostridioides difficile infection.
4. Stream food webs in tropical mountains rely on allochthonous carbon regardless of land use.
5. Antimicrobial Prophylaxis with Ampicillin-sulbactam Compared with Cefazolin for Esophagectomy: Nationwide Inpatient Database Study in Japan.
6. Lack of Routine Postoperative Labs Not Associated With Complications in Pediatric Perforated Appendicitis.
7. Structural dynamics of the CROPs domain control stability and toxicity of Paeniclostridium sordellii lethal toxin.
8. Analysis of risk factors for community-acquired Clostridioides difficile diarrhea in children: a case-control study in Chenzhou, China.
9. Evaluating Healthcare-Associated Infections in Public Hospitals: A Cross-Sectional Study.
10. Outcomes of Clostridioides difficile infection In Acute Heart Failure Hospitalizations: Insights from the National Inpatient Database.
11. Hyperbaric oxygen augments susceptibility to C. difficile infection by impairing gut microbiota ability to stimulate the HIF-1α-IL-22 axis in ILC3.
12. [Modern concept of differential diagnosis of colitis: from G.F. Lang to the present day. A review].
13. Clostridium difficile infection in pediatric patients (Review).
14. An Updated View on the Cellular Uptake and Mode-of-Action of Clostridioides difficile Toxins.
15. A comparison of clinical outcomes associated with dosing metronidazole every 8 hours versus every 12 hours: a systematic review and metaanalysis.
16. Equine Fecal Microbiota Response to Short Term Antibiotic Administration.
17. A randomized study of ceftriaxone for the prevention of infections in hospitalized patients with advanced cirrhosis.

CMC

Guidelines

1. The Infectious Diseases Society of America Guidelines on the Diagnosis of Coronavirus Disease 2019 (COVID-19): Molecular Diagnostic Testing.
2. Assessing the potential of GPT-4 to perpetuate racial and gender biases in health care: a model evaluation study.
3. Increased Prevalence of Clostridioides difficile Infection Among Pediatric Oncology Patients: Risk Factors for Infection and Complications.
4. What Is the Ideal Duration for Surgical Antibiotic Prophylaxis?
5. The ESCMID Study Group for Clostridioides difficile: History, Role, and Perspectives.
6. Diagnostic Guidance for C. difficile Infections.
7. The Need for European Surveillance of CDI.
8. Mass drug administration campaigns: comparing two approaches for schistosomiasis and soil-transmitted helminths prevention and control in selected Southern Malawi districts.

Non-toxigenic C. difficile

1. Genomic surveillance of Clostridioides difficile transmission and virulence in a healthcare setting.
2. Prevalence of toxigenic Clostridium difficile in hospitalized patients in the southwestern province of Saudi Arabia: Confirmation using the GeneXpert analysis.

MGB

Other news of possible interest