**M3 Literature Review**

**Period: 08/12/2024 – 08/01/2025**

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Scientific Highlights:

1. Should the Faecal Microbiota Composition Be Determined to Certify a Faecal Donor?
2. Impact of the Number of Patellar Dislocations on Outcomes of Isolated Medial Patellofemoral Ligament Reconstruction.
3. Long-term stability and efficacy of frozen fecal microbiota transplant (FMT) product at 24 months.
4. Screening novel antiviral compounds to treat Clostridioides difficile infections.
5. Retraction: Fecal microbiota transplantation for treatment of recurrent C. difficile infection: An updated randomized controlled trial meta-analysis.
6. Clinical significance of toxin EIA positivity in patients with suspected Clostridioides difficile infection: systematic review and meta-analysis.
7. Impact of type 2 diabetes mellitus on mortality and recurrence of clostridioides difficile infection.
8. The presence of Clostridioides difficile in faeces before and after faecal microbiota transplantation and its relation with recurrent C. difficile infection and the gut microbiota in a Dutch cohort.
9. Partial biochemical response of adrenal artery embolization for pheochromocytoma: A case report and review of the literature.
10. Loop Ileostomy With Colonic Lavage: Case Report of an Alternative to Total Colectomy in the Setting of Fulminant Clostridium difficile Colitis.
11. FMT Restores Colonic Protein Biosynthesis and Cell Proliferation in Patients with Recurrent Clostridioides difficile Disease.
12. Case report: Fecal microbiota transplant for Clostridium difficile infection in a pregnant patient with acute severe ulcerative colitis.
13. Assessing live microbial therapeutic transmission.
14. Clostridioides difficile Infections and Factors Associated with Recurrence.
15. Predicting recurrent Clostridioides difficile infection by assessing antimicrobial treatment based on days of antibiotic spectrum coverage and ATLAS scores.
16. Allogenic faecal microbiota transplantation for antibiotic-associated diarrhoea in critically ill patients (FEBATRICE)-Study protocol for a multi-centre randomised controlled trial (phase II).
17. Fecal microbiota transplantation for glaucoma; a potential emerging treatment strategy.
18. Preventing Clostridioides difficile Infection Recurrence.
19. Clostridioides difficile Infection and Testing Rates in South Africa: A multicentre study, 2017-2020.
20. Multi-omic profiling a defined bacterial consortium for treatment of recurrent Clostridioides difficile infection.
21. Assessment of chemical methods in the removal of the spore coat and exosporium layers of Clostridioides difficile Spores.
22. The Presence of a Trochlear Bump and Patella Alta May Predict the Risk of Recurrent Instability After Isolated Medial Patellofemoral Ligament Reconstruction: A Systematic Review and Meta-analysis.

Clostridioides difficile/ Clostridium difficile

1. A Simple Prediction Model for Clostridioides difficile Infection: A Hospital-Based Administrative Database Study.
2. Differential gene expression analysis shows that cephalosporin resistance is intrinsic to Clostridioides difficile strain 630.
3. Commensal-pathogen dynamics structure disease outcomes during Clostridioides difficile colonization.
4. A Three-Year Analysis of Mortality in Clostridioides difficile Patients in a Tertiary Center.
5. Fulminant Clostridioides (Costridium) difficile infection caused by a rare strain of PCR-ribotype 153 in Japan: A case report.
6. Incidence and Risk Factors of Clostridium difficile Infection Among Adult Patients Admitted to the Inpatient Department of a Tertiary Care Hospital: A Hospital-Based Observational Study.
7. Incidence, healthcare and out-of-pocket costs, and mortality of Clostridioides difficile infection among US adults aged 18 to 64 years.

Fidaxomicin & Clostridium difficile

1. Sex differences in gut microbiota, hypertension, and cardiovascular risk.
2. The Efficacy of Fecal Microbiota Transplantation in Mouse Models Infected with Clostridioides difficile from the Perspective of Metabolic Profiling: A Systematic Review.
3. Modulating the microbiome in chronic liver diseases- current evidence on the role of fecal microbiota transplantation.

Clostridioides difficile vaccine

1. Gastrointestinal bacteria growth inhibition by a toilet sanitary good for disaster shelter.
2. Enhanced immunogenicity of a Clostridioides difficile TcdB vaccine adjuvanted with a synthetic dual-TLR ligand adjuvant.
3. Reading the repertoire: Progress in adaptive immune receptor analysis using machine learning.

Vancomycin & CDI

1. Australian Group on Antimicrobial Resistance (AGAR) Australian Staphylococcus aureus Surveillance Outcome Program (ASSOP) Bloodstream Infection Annual Report 2023.
2. Australian Group on Antimicrobial Resistance (AGAR) Australian Enterococcal Surveillance Outcome Program (AESOP) Bloodstream Infection Annual Report 2023.
3. Detection, characterization and antimicrobial susceptibility of Clostridioides difficile from seafood of Marmara Sea, Turkey.
4. Facing Clostridioides difficile infection in a resource - Limiting setting.
5. [Prediction of the course of antibiotic-associated diarrhea caused by Clostridioides difficile based on clinical and laboratory characteristics of the disease].
6. Clostridioides difficile binary toxin CDT induces biofilm-like persisting microcolonies.
7. Impact of prescribing vancomycin capsules vs liquid at discharge on readmissions for C. difficile infection.

CDI

FMT/ Fecal Microbiota Transplant

1. Sex differences in gut microbiota, hypertension, and cardiovascular risk.
2. The Efficacy of Fecal Microbiota Transplantation in Mouse Models Infected with Clostridioides difficile from the Perspective of Metabolic Profiling: A Systematic Review.
3. Modulating the microbiome in chronic liver diseases- current evidence on the role of fecal microbiota transplantation.

Competitors

1. Discordance between MR enterography and endoscopic detection of Crohn's disease ileal strictures: evidence to inform recommendations.
2. Efficacy and safety of prucalopride in patients with chronic idiopathic constipation stratified by age, body mass index, and renal function: a post hoc analysis of phase III and IV, randomized, placebo-controlled clinical studies.
3. Arrhythmic storm in a liver transplant recipient: Could bezlotoxumab be the trigger?
4. Betaine alleviates methomyl-triggered oxidative stress-mediated cardiopulmonary inflammation in rats through iNOS/Cox2 and Nrf2/HO1/Keap1 signaling pathway.
5. Pharmacokinetics of tebipenem pivoxil used in children suffering from shigellosis: a pilot study in Bangladesh.
6. Leveraging human microbiomes for disease prediction and treatment.
7. Durlobactam in combination with β-lactams to combat Mycobacterium abscessus.
8. FL058, a novel β-lactamase inhibitor, increases the anti-Mycobacterium abscessus activity of imipenem.
9. Hepatitis B Care and Treatment in Zanzibar, Tanzania: A Demonstration Project Following 2015 WHO Treatment Guidelines, 2017-2021.
10. Guselkumab in patients with moderately to severely active ulcerative colitis (QUASAR): phase 3 double-blind, randomised, placebo-controlled induction and maintenance studies.
11. Clinical Manifestations.
12. [Aggressive mucinous tubular and spindle cell carcinoma of the kidney: a clinicopathological and genetic analysis of four cases].

CDAD

1. Factors influencing outcome satisfaction after cataract surgery: patient-reported insights from the RayPro database.
2. Molecular characteristics, clonal transmission, and risk factors of Clostridioides difficile among hospitalized patients in a tertiary hospital in Ningbo, China.
3. Anti-Interleukin-23 Treatment Linked to Improved Clostridioides difficile Infection Survival.
4. GASTRIC METASTASIS OF MERKEL CELL CARCINOMA.
5. Prevalence and sequelae of asymptomatic Clostridioides difficile colonization in children with inflammatory bowel disease.
6. Effects of probiotics in elderly hospitalized tube-fed patients with antibiotics use.
7. SLC26A3 (DRA, the Congenital Chloride Diarrhea Gene): A Novel Therapeutic Target for Diarrheal Diseases.
8. The Use of Gel Electrophoresis to Separate Multiplex Polymerase Chain Reaction Amplicons Allows for the Easy Identification and Assessment of the Spread of Toxigenic Clostridioides difficile Strains.
9. Bifidobacteria antagonize the life cycle of Clostridioides difficile.
10. Tackling Clostridioides difficile (CD): current evidences and future directions in the treatment of CD infections.

CMC

Guidelines

1. Highly Dispersed Ag Nanocrystals Anchored on N-Doped Holey Carbon Aerogel as High-Mass-Loading Electrode for Cl(-) Capture in Hybrid Capacitive Deionization.
2. Electronic Sepsis Screening Among Patients Admitted to Hospital Wards: A Stepped-Wedge Cluster Randomized Trial.
3. Human health risk assessment of heavy metals in beer brands from Tanzania market.
4. Evaluating academic detailing as an antibiotic stewardship intervention in primary healthcare settings in Croatia.
5. Life-Threatening Esophageal Variceal Hemorrhage in a 7-Year-Old Boy with Massive Portal Vein Enlargement Due to Congenital Arterioportal Fistula.
6. Advances in diagnostic assays for Clostridioides difficile infection in adults.
7. [Clostridioides difficile infection diagnosis].
8. Characteristics, risk factors and clinical impact of penicillin and other antibiotic allergies in adults in the UK General Practice: a population-based cohort study.

Non-toxigenic C. difficile

1. Gene Expression Dysregulation in Whole Blood of Patients with Clostridioides difficile Infection.
2. A quantitative PCR to detect non-toxigenic Clostridioides difficile.
3. Presence of Clostridioides difficile on spinach, carrots, cheese and milk in Turkey.
4. PPAR-γ agonist mitigates intestinal barrier dysfunction and inflammation induced by Clostridioides difficile SlpA in vitro.

MGB

Other news of possible interest