**XF-73 Nasal Literature Review**

**Period: 24/10/2024 – 24/11/2024**

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Scientific Highlights

1. Interventions targeting the nasal microbiome to eradicate MRSA.
2. Effect of Staphylococcal Decolonization Regime on Post-Craniotomy Meningitis.

SA Decolonisation

1. Differential Nasal Recolonization and Microbial Profiles in Chronic Rhinosinusitis With Nasal Polyps Patients After Endoscopic Sinus Surgery or Dupilumab Treatment: A Prospective Observational Study.
2. Methicillin-Resistant Staphylococcus aureus among Students: Nasal Carriage Rate, Contributing Factors, and Antimicrobial Susceptibility.
3. Co-adjuvanting Nod2-stimulating bacteria with a TLR7 agonist elicits potent protective immunity against respiratory virus infection.
4. Most Common Pathogens Causing Rhinosinusitis in Patients Who Underwent Endoscopic Sinus Surgery Before, During, and After the COVID-19 Pandemic.
5. Molecular detection of Staphylococcus aureus in urine in patients with S. aureus bacteremia: an exploratory study.
6. Analysis of olfactory function in patients with chronic rhinosinusitis and Staphylococcus aureus enterotoxin positivity.
7. High-density lipoprotein cholesterol and nasal colonization of Staphylococcus aureus: results from the 2001-2004 National Health and Nutrition Examination Survey (NHANES).
8. Clindamycin and bacterial load reduction as prophylaxis for surgical site infection after below-knee flap and graft procedures: A trial protocol.
9. Response to the letter to the editor regarding "The efficacy of an alcohol-based nasal antiseptic versus mupirocin or an iodophor for preventing SSIs using a meta-analysis".
10. Impact of Methicillin-Resistant Staphylococcus aureus Nasal Polymerase Chain Reaction Screening Tests on Duration of Vancomycin Therapy for Skin and Soft Tissue Infections.
11. Association of Neonatal and Maternal Nasal Microbiome Among Neonates in the Intensive Care Unit.
12. Effects of seasonal, geographical and demographic factors on otitis externa microbiota in Queensland, Australia.
13. Emergence of rifampicin-resistant staphylococci on the skin and nose of rifampicin-treated patients with an orthopaedic-device-related infection.
14. Increased incidence of methicillin resistant Staphylococcus aureus and methicillin resistant Staphylococcus epidermidis in the skin and nasal carriage among healthcare workers and inanimate hospital surfaces after the COVID-19 pandemic.
15. Hops bitter β-acids have antibacterial effects against sinonasal Staphylococcus aureus but also induce sinonasal cilia and mitochondrial dysfunction.
16. Postoperative rhinosinusitis and microbiological outcomes following endoscopic endonasal approaches: A retrospective analysis of 300 patients.
17. Molecular characterization of Staphylococcus aureus from nasal samples of healthy pet cats.
18. Evaluation of mucosal barrier disruption due to Staphylococcus lugdunensis and Staphylococcus epidermidis exoproteins in patients with chronic rhinosinusitis.
19. Effects of intranasal administration with a symbiotic strain of Bacillus velezensis NSV2 on nasal cavity mucosal barrier in lambs.
20. Diversity analysis of livestock-associated Staphylococcus aureus nasal strains between animal and humans.

SA / MRSA Colonisation / Infection

1. Antimicrobial Activity of Corynebacterium amycolatum ICIS 53 and Corynebacterium amycolatum ICIS 82 Against Urogenital Isolates of Multidrug-Resistant Staphylococcus aureus.
2. Epidemiological and pathological characterization of acute respiratory infections.
3. Body Weight's Role in Infective Endocarditis Surgery.
4. The Opportunistic Pathogen Staphylococcus warneri: Virulence and Antibiotic Resistance, Clinical Features, Association with Orthopedic Implants and Other Medical Devices, and a Glance at Industrial Applications.
5. Enhancement of Fluoride's Antibacterial and Antibiofilm Effects against Oral Staphylococcus aureus by the Urea Derivative BPU.
6. Prevalence and Molecular Epidemiology of Intestinal Colonization by Multidrug-Resistant Bacteria among Hematopoietic Stem-Cell Transplantation Recipients: A Bulgarian Single-Center Study.
7. Far-UVC light (222 nm) efficiently inactivates clinically significant antibiotic-resistant bacteria on diverse material surfaces.
8. Single-cell Sequencing of Circulating Human Plasmablasts during Staphylococcus aureus Bacteremia.
9. Central Skull Base Osteomyelitis in Queensland, Australia, 2010-2020.
10. Assessment of the Antibiofilm Performance of Silver-Containing Wound Dressings: A Dual-Species Biofilm Model.
11. Arthroscopic Debridement Enhanced by Intra-Articular Antibiotic-Loaded Calcium Sulphate Beads for Septic Arthritis of a Native Knee Following Iatrogenic Joint Injection: A Case Report.
12. The Effect of Aloe vera on Skin and Its Commensals: Contribution of Acemannan in Curing Acne Caused by Propionibacterium acnes.
13. Assessing the Effects of Surgical Irrigation Solutions on Human Neutrophil Interactions with Nascent Staphylococcus aureus Biofilms.
14. Living without pain: A 10-year study of congenital insensitivity to pain with anhidrosis.
15. The impact of femoral/internal jugular vein selection on postoperative infection in central vein cannulation of newborns undergoing cardiac surgery.
16. Bacteriological profile and antibiotic sensitivity pattern of bloodstream infections from a teaching institution in Eastern Uttar Pradesh, North India.
17. Prevalence of Methicillin-Resistant Staphylococcus aureus in Saudi Arabia: A Systematic Review and Meta-Analysis.
18. Impact of Biofilms on Surface Properties of Polymethyl Methacrylate (PMMA) Resins.
19. Biofilm-mediated antibiotic tolerance in Staphylococcus aureus from spinal cord stimulation device-related infections.
20. Decade-long analysis of postoperative endophthalmitis in Sweden: Insights from insurance and national quality registers.
21. Antimicrobial surface coating in the emergency department as protective technology for infection control (ASEPTIC): a pilot randomized controlled trial.
22. Chronic co-infection with Pseudomonas aeruginosa and normal colony Staphylococcus aureus causes lung structural damage in the cystic fibrosis rat.
23. Development and validation of a preclinical canine model for early onset fracture-related infections.
24. Antimicrobial and antifouling hyaluronic acid-cobalt nanogel coatings built sonochemically on contact lenses.
25. A natural killer cell mimic against intracellular pathogen infections.
26. Polydopamine-Mediated Antimicrobial Lipopeptide Surface Coating for Medical Devices.
27. Milk Fat Globules: 2024 Updates.
28. Surgical site infection and antimicrobial use following caesarean section at QECH in Blantyre, Malawi: a prospective cohort study.
29. Efficacy of a saline wash plus vancomycin/tobramycin-doped PVA composite (PVA-VAN/TOB-P) in a mouse pouch infection model implanted with 3D-printed porous titanium cylinders.
30. Microbial burden on environmental surfaces in long-term care facilities: a quantitative analysis.
31. Awareness of infection care terms among outpatients and carers in a public health facility: a cross-sectional survey.
32. Genetic characteristics and antimicrobial resistance of Staphylococcus aureus isolates from pig farms in Korea: emergence of cfr-positive CC398 lineage.
33. Biofilm formation and antibiogram profile of bacteria from infected wounds in a general hospital in southern Ethiopia.
34. Wireless matrix metalloproteinase-9 sensing by smart wound dressing with controlled antibacterial nanoparticles release toward chronic wound management.
35. Risk of Infective Endocarditis in Patients with Spinal Surgical Site Infection and Staphylococcus aureus Bacteremia.
36. Antibiotic Use in Medical-Surgical Intensive Care Units and General Wards in Latin American Hospitals.
37. Knowledge, attitudes, and practices of Jamaican healthcare workers on nosocomial infection control.
38. Organisms Causing Postoperative Implant Infection in Orthopedic Patients Presenting at a Tertiary Care Hospital.
39. Exploring Drug Resistance: Microbial Profiles, Antibiotic Sensitivity, and Biofilm Development in Orthopedic Implant Infections.
40. Incidence and Risk Factors of Infection After Fracture Fixation: A Multicenter Cohort Study.
41. Nanoparticle ultrasonication: a promising approach for reducing bacterial biofilm in total joint infection-an in vivo rat model investigation.
42. A functional dual responsive CMC/OHA/SA/TOB hydrogel as wound dressing to enhance wound healing.
43. Neonatal Colonization With Antibiotic-Resistant Pathogens in Low- and Middle-Income Countries: A Systematic Review and Meta-Analysis.
44. Non-tuberculous mycobacteria enhance the tryptophan-kynurenine pathway to induce immunosuppression and facilitate pulmonary colonization.
45. Microorganisms isolated from thermoplastic masks and storage racks in head and neck cancer patients with radiation dermatitis.
46. Exploring divalent metal ion coordination. Unraveling binding modes in Staphylococcus aureus MntH fragments.
47. Epidemiology of surgical site infection after abdominal surgery in Ukraine: results a multicenter study (2021-2023).
48. [Etiologic features of nosocomial sinusitis].
49. The significance of monitoring respiratory sample cultures and polymerase chain reaction tests for detecting bacterial pathogens in severely and critically ill patients with COVID-19.
50. Extent of abscess development in cervical abscesses and pathogenic bacteria related to swallowing function.
51. The antibiotic therapy containing contezolid successfully treated methicillin-sensitive Staphylococcus aureus infective endocarditis accompanied with cerebrovascular complications.
52. Staphylococcal superantigens evoke temporary and reversible T cell anergy, but fail to block the development of a bacterium specific cellular immune response.
53. Formulation of Asiatic acid-loaded polymeric chitosan-based hydrogel for effective MRSA infection control and enhanced wound healing in zebrafish models.
54. Dhvar5- and MSI78-coated titanium are bactericidal against methicillin-resistant Staphylococcus aureus, immunomodulatory and osteogenic.
55. A biocompatible cellulose gum based CMC/PVA/SBA-15 film as a colloidal antibacterial agent against MRSA.
56. A Study of Clinico-Microbiological Profile and Treatment Outcomes of Infectious Keratitis.
57. The antimicrobial potential of traditional remedies of Indigenous peoples from Canada against MRSA planktonic and biofilm bacteria in wound infection mimetic conditions.
58. Peripherally inserted central venous catheter in outpatient antibiotic spinal infection treatment is safe, effective and leads to significant reduction in healthcare expenses.
59. Atomic Interaction S. aureus/Machined and Additive Manufacturing Ti-6Al-4V and Ti-35Nb-7Zr-5Ta Disks for Dental Implants.
60. Skin microbiome dynamics in patients with polymorphic light eruption in response to UV radiations.
61. Two-Month Duration of Esophageal Button Battery Impaction in a 23-Month-Old Boy: A Case Report.
62. An mRNA Display Approach for Covalent Targeting of a Staphylococcus aureus Virulence Factor.
63. Development of triple-helical recombinant collagen-silver hybrid nanofibers for anti-methicillin-resistant Staphylococcus aureus (MRSA) applications.
64. Erosive bilateral glenohumeral osteoarthritis caused by urosepsis-induced septic arthritis.
65. Efflux pumps: gatekeepers of antibiotic resistance in Staphylococcus aureus biofilms.
66. Temporal control of Staphylococcus aureus intracellular pH by sodium and potassium.
67. Antibacterial potency of mid-polar extracts obtained from Malaysian plant Parkia speciosa against human pathogenic bacteria.
68. Antibiotic Treatment for 7 versus 14 Days in Patients with Bloodstream Infections.
69. Mid-term Results of 1-stage Revision Total Knee Arthroplasty for Periprosthetic Joint Infection With a Sinus Tract.
70. A Case of Left-Sided Infective Endocarditis Secondary to Intravenous Drug Use Resulting in Septic Renal Emboli.
71. Adolescent Hip Pain Due to Iliopsoas Abscess.
72. Transcatheter aortic valve implantation (TAVI) prostheses in vitro - biofilm formation and antibiotic effects.
73. Spread of livestock-associated methicillin-resistant Staphylococcus aureus in poultry and its risks to public health: A comprehensive review.
74. A 10-year Retrospective Review of Patient-to-Patient Transmitted Pathogens in Culture-Positive Burn Wounds at a Tertiary Burn Center.

Guidelines / Prevention Practice

1. Beyond CDC-Defined Surgical Site Infection: Factors Associated with Antibiotic Prescription After Breast Operation.
2. Appropriateness of urinary catheterization in the hospital setting: A multicenter observational study.
3. Individual and System Level Factors Contributing to Guideline Non-Adherent Surgical Antibiotic Prophylaxis at a Tertiary Health Care System: A Qualitative Analysis.

Breast Surgery

1. Management of Plastic Surgery Complications at a Tertiary Medical Center after Aesthetic Procedures.
2. A Polyurethane Electrospun Membrane Loaded with Bismuth Lipophilic Nanoparticles (BisBAL NPs): Proliferation, Bactericidal, and Antitumor Properties, and Effects on MRSA and Human Breast Cancer Cells.
3. Management of the Infected Tissue Expander.
4. Clinical and Cost-Effectiveness of Intraoperative Flap Perfusion Assessment With Indocyanine Green Fluorescence Angiography in Breast and Head and Neck Reconstructions: A Systematic Review and Meta-Analysis.
5. Comparative Efficacy of Classic Versus Horizontal Incision Techniques in Skin-Reducing Mastectomy: A Single Center Retrospective Analysis.
6. Successful placement of a chest wall venous infusion port via persistent left superior vena cava: A case report.
7. Microbiology of periprosthetic infections following implant-based breast reconstruction surgery: a multicentric retrospective study.
8. Clinical Outcomes Following Profunda Artery Perforator Flap Breast Reconstruction: A Systematic Review and Meta-Analysis.
9. Lipid Pneumonia Mimicking Lung Cancer in a Middle-Age Woman.
10. The impact of cosmetic tourism across one year on an NHS breast surgery unit.
11. An outreach strategy to increase uptake of vaginal self-sampling for cervical cancer screening in older French women: The RIDECA interventional research protocol.
12. The Preferential Use of Subcutaneous Arteries (SCIA-SB and SIEA) in Abdominal-based Autologous Breast Reconstruction with a Modified Flap Design.
13. Incidence and risk factors of pain following breast cancer surgery: a retrospective national inpatient sample database study.
14. The negative impact of the COVID-19 pandemic on breast cancer tackle in Brazil's public and private healthcare system: time series study between 2014 and 2022.
15. Rapidly Progressive Glomerulonephritis Associated With IgA Nephropathy and C3 Deposits in a Patient With Chronic Hepatitis B.
16. Unplanned 180-day Readmissions and Healthcare Utilization After Immediate Breast Reconstruction for Breast Cancer.
17. Breast tumor with giant borderline phyllodes: Case report and literature review.
18. The optimal timing of breast cancer surgery after COVID-19 infection: an observational study.
19. Real-world data of perioperative complications in prepectoral implant-based breast reconstruction: a prospective cohort study.
20. The efficacy of immediate lymphatic reconstruction after axillary lymph node dissection - A meta-analysis.
21. Breast tuberculosis with bone destruction mimicking breast cancer with bone metastasis: a case report and literature review.
22. Refinements in Gender-Affirming Feminizing Chest Surgery.
23. Repair of Radiation Ulcers After Breast Cancer Surgery With Simple Local Random Flaps.
24. The histologic diagnosis and the management of cystic neutrophilic granulomatous mastitis: a case report.
25. Experience of Hyperbaric Chamber Usage in Aesthetic Plastic Surgery Practice for Recovery and Complication Prevention.
26. Breastfeeding and secretory factors in idiopathic granulomatous mastitis: Unveiling etiological insights.
27. Postoperative Complications of Direct-to-Implant and Two-Staged Breast Reconstruction: A Stratified Analysis.
28. Donor Site Outcomes Following Autologous Breast Reconstruction with DIEP Flap: A Retrospective and Prospective Study in a Single Institution.

Mupirocin resistance

1. Characterization of Staphylococcus aureus isolated from milk samples for their virulence, biofilm, and antimicrobial resistance.

Competitors

1. Immune Responses to Methicillin-Resistant Staphylococcus aureus Infections and Advances in the Development of Vaccines and Immunotherapies.
2. Cutaneous Manifestations of Langerhans Cell Histiocytosis in Pediatric Age: A Case Report.
3. Antimicrobial resistance in Staphylococcus aureus and Enterococci spp. isolates from bloodstream infections in Australian children, 2013 - 2021.
4. Rational computational design and development of an immunogenic multiepitope vaccine incorporating transmembrane proteins of Staphylococcus lugdunensis.
5. Analysis of invasive group A streptococcal puerperal sepsis in Calgary, Alberta: clinical consequences and policy implications.
6. A quasi-experimental analysis comparing antimicrobial usage on COVID-19 and non-COVID-19 wards.
7. Antibacterial and wound healing stimulant nanofibrous dressing consisting of soluplus and soy protein isolate loaded with mupirocin.
8. Use of intranasal povidone-iodine packing in the management of infectious rhinosinusitis in three cats.
9. Identifying WHO global priority endemic pathogens for vaccine research and development (R&D) using multi-criteria decision analysis (MCDA): an objective of the Immunization Agenda 2030.
10. Antiseptics: An expeditious third force in the prevention and management of coronavirus diseases.
11. Optimising detection of thrombosis in paediatric Staphylococcus aureus bacteraemia: A prospective interventional sub-study protocol.
12. Protective effects of immunization with a novel 4 recombinant pore-forming toxoid combination vaccine in a rabbit model of systemic methicillin-resistant Staphylococcus aureus infection.
13. An antimicrobial blue light prototype device controls infected wounds in a preclinical porcine model.
14. Pemphigus Vulgaris Mimicking Seborrheic Dermatitis: A Case Report.
15. Unlocking marine microbial treasures: new PBP2a-targeted antibiotics elicited by metals and enhanced by RSM-driven transcriptomics and chemoinformatics.
16. Antimicrobial resistance among refugees and asylum seekers: a global systematic review and meta-analysis.
17. Expert consensus on antimicrobial resistance research priorities to focus development and implementation of antibacterial vaccines and monoclonal antibodies.
18. Efficacy Analysis of Endoscopic Type 1 Tympanoplasty for Chronic Suppurative Otitis Media with Otomycosis.
19. Long Term Ventilation in Pediatric Central Apnea: Etiologies and Therapeutic Approach over a Decade.
20. PCV13 vaccine prevents pneumococcal biofilms without affecting Staphylococcus aureus population within the polymicrobial biofilm.
21. Oro-faecal transmission of SARS-CoV-2: A systematic review of studies employing viral culture from gastrointestinal and other potential oro-faecal sources and evidence for transmission to humans.