**XF-73 Nasal Literature Review**

**Period: 24/05/2024 – 24/06/2024**

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Scientific Highlights

1. Risk assessment of the mechanical spread of bacterial pathogens due to Lasius neglectus ants infesting a tertiary hospital.
2. Correlation between carriers of Methicillin-resistant Staphylococcus aureus and the incidence of MRSA surgical site infections in orthopedic surgery patients.

SA Decolonisation

1. Phenotypic and Genotypic Characterization of Staphylococcus aureus Isolated from Nasal Samples of Healthy Dairy Goats in Algeria.
2. [Prevalence of nasal colonization by methicillin-resistant Staphylococcus aureus in medical students in Chile: comparison between pre-clinical and clinical environment].
3. Bear Bile Powder Ameliorates LPS-Induced Acute Lung Injury by Inhibiting CD14 Pathway and Improving Intestinal Flora: Exploration of "Fei (Lung)-Dachang (Large Intestine) Interaction".
4. Pre-asthma: a useful concept? A EUFOREA paper. Part 2-late onset eosinophilic asthma.
5. The two-component regulatory systems GraRS and SrrAB mediate Staphylococcus aureus susceptibility to Pep5 produced by clinical isolate of Staphylococcus epidermidis.
6. Nasal carriage rate, associated factors, and antimicrobial susceptibility patterns of methicillin resistance Staphylococcus aureus among pre-clinical undergraduate students at the College of Health and Medical Sciences, Haramaya University, Ethiopia.
7. Nasal carriage of Staphylococcus aureus in healthy dairy cows in Algeria: antibiotic resistance, enterotoxin genes and biofilm formation.
8. Characterization of resistance and virulence factors in livestock-associated methicillin-resistant Staphylococcus aureus.
9. Effectiveness of Pre-Transplant Screening for High-Priority Multidrug-Resistant Pathogens on Pre-Engraftment Infections After Hematopoietic Stem Cell Transplantation.
10. Superantigen Encoding Genes in Staphylococcus aureus Isolated from Lesional Skin, Non-Lesional Skin, and Nares of Patients with Atopic Dermatitis.
11. Assessing the Diagnostic Performance and Clinical Utility of Nasal Methicillin Resistant Staphylococcus aureus PCR Testing in Pediatric Orbital Cellulitis.
12. Exploring mechanisms of mupirocin resistance and hyper-resistance.
13. Odontogenic Maxillary Sinusitis Microbiology Compared With Chronic Rhinosinusitis: A Meta-Analysis.
14. Hospitalizations for Acute Otitis and Sinusitis in Patients Living with HIV: A Retrospective Analysis of a Tertiary Center in Romania.
15. Multidimensional calibration spaces in Staphylococcus Aureus detection using chitosan-based genosensors and electronic tongue.

SA / MRSA Colonisation / Infection

1. Phage Therapy for Cardiac Implantable Electronic Devices and Vascular Grafts: A Targeted Literature Review.
2. Multidrug-Resistant Bacteria in Surgical Intensive Care Units: Antibiotic Susceptibility and β-Lactamase Characterization.
3. Development of an Antigen Capture Lateral Flow Immunoassay for the Detection of Burkholderia pseudomallei.
4. Development and implementation of a nationwide multidrug-resistant organism tracking and alert system for Veterans Affairs medical centers.
5. Bacterial metabolism-triggered-chemiluminescence-based point-of-care testing platform for sensitive detection and photothermal inactivation of Staphylococcus aureus.
6. Surfactants' Interplay with Biofilm Development in Staphylococcus and Candida.
7. Prevalence and Risk Factors for Colonization by Multidrug-Resistant Microorganisms among Long-Term Travelers and Recently Arrived Migrants.
8. Analysis of Aetiological Agents in Infectious Endocarditis in the Central Military Emergency University Hospital "Dr. Carol Davila" Bucharest.
9. RNA-Seq of an LPS-Induced Inflammation Model Reveals Transcriptional Profile Patterns of Inflammatory Processes.
10. Molecular characterization of Staphylococcus aureus isolated from hospital-acquired infections in Ilam, Iran.
11. Implementation of Outpatient Parenteral Antimicrobial Therapy (OPAT) in Patients with Complicated Periprosthetic Joint Infections.
12. Free Vascularized Fibula Graft as Primary Salvage Procedure for Acute Cervical Osteomyelitis Caused by Epidural Abscess.
13. Methicillin-resistant Staphylococcus aureus and coagulase-negative Staphylococcus produce antimicrobial substances against members of the skin microbiota in children with atopic dermatitis.
14. Not just in man's best friend: A review of Staphylococcus pseudintermedius host range and human zoonosis.
15. Infection of Transcatheter Valvular Devices.
16. Unveiling the landscape of post-keratoplasty keratitis: a comprehensive epidemiological analysis in a tertiary center.
17. Validation of the antibacterial effect of topically applied tranexamic acid using in vitro and in vivo models.
18. Analysis of risk factors, pathogenic bacteria characteristics, and drug resistance of postoperative surgical site infection in adults with limb fractures.
19. Uro-pathogens: Multidrug resistance and associated factors of community-acquired UTI among HIV patients attending antiretroviral therapy in Dessie Comprehensive Specialized Hospital, Northeast Ethiopia.
20. Horizontal versus vertical strategies for infection prevention: current practices and controversies.
21. Clinical outcomes in OPAT patients treated with ceftriaxone 4 g and ceftazidime 6 g extended interval dosing regimens.
22. Clinical Profiles and Outcomes of Prosthesis-Specific Infective Endocarditis Subsequent to Transcatheter Versus Surgical Aortic Valve Replacement: A Systematic Review and Meta-Analysis.
23. Borate bonds-containing pH-responsive chitosan hydrogel for postoperative tumor recurrence and wound infection prevention.
24. Nanofiber-reinforced self-healing polysaccharide-based hydrogel dressings for pH discoloration monitoring and treatment of infected wounds.
25. Increased Involvement of Staphylococcus epidermidis in the Rise of Polymicrobial Periprosthetic Joint Infections.
26. Antibiotic calcium sulphate beads lower the bacterial burden and prevent infection in a mouse model of periprosthetic joint infection.
27. Biological and genomic characterization of 4 novel bacteriophages isolated from sewage or the environment using non-aureus Staphylococci strains.
28. Antibacterial and Osteogenic Doxycycline Imprinted Bioglass Microspheres to Combat Bone Infection.
29. Meta-meta-analysis of the mortality risk associated with MRSA compared to MSSA bacteraemia.
30. High Efficacy of Oral Tetracyclines in Prosthetic Joint Infection Treated With Debridement, Antibiotics, and Implant Retention (DAIR) or Resection Arthroplasty With Destination Spacer Placement.
31. Fabrication of a Biocompatible Nanoantimicrobial Suture for Rapid Wound Healing after Surgery.
32. Advances in the targeted theragnostics of osteomyelitis caused by Staphylococcus aureus.
33. A Shape-Restorable hierarchical polymer membrane composite system for enhanced antibacterial and antiadhesive efficiency.
34. Staphylococcus aureus carriage and prevalence of skin and soft tissue infections among people who inject drugs: a longitudinal study.
35. Impact of discontinuation of contact precautions on surveillance- and whole genome sequencing-defined methicillin-resistant Staphylococcus aureus healthcare-associated infections.
36. Deficiency in non-classical major histocompatibility class II-like molecule, H2-O confers protection against Staphylococcus aureus in mice.
37. Effect of oral multispecies probiotic on wound healing, periodontitis and quality of life on patients with diabetes.
38. Staphylococcus aureus bacteraemia cases at Helen Joseph Hospital.
39. Methicillin-Resistant Staphylococcus aureus Infection and its Health Perspective: A Review.
40. Determination of prevalence of subclinical mastitis, characterization of intra-mammary infection-causing bacteria, and antibiotic susceptibility in dairy camels in Jigjiga City, Somali region, Ethiopia.
41. [Contribution of qPCR to the diagnosis of cervico-vaginal infections at the Hôpital Principal de Dakar, Senegal].
42. Staphylococcus aureus: No ticket for the Paris 2024 Olympic Games!
43. Exploring real-world vancomycin target attainment in neonatal intensive care in the context of Staphylococcal infections: a retrospective observational cohort study.
44. Incidence and predictive factors of mortality of infective endocarditis in adults with congenital heart disease: A systematic review and meta-analysis.
45. Novel antibody-antibiotic conjugate using KRM-1657 as payload eliminates intracellular MRSA in vitro and in vivo.
46. Ceramic conversion treated titanium implant abutments with gold for enhanced antimicrobial activity.
47. Bioinspired ferromagnetic NiFe(2)O(4) nanoparticles: Eradication of fungal and drug-resistant bacterial pathogens and their established biofilm.
48. Clinical characteristics and outcomes of aortic prosthetic valve endocarditis: comparison between transcatheter and surgical bioprostheses.
49. Community-acquired pneumonia: The importance of the early detection of drug-resistant organisms.
50. Development of non-β-Lactam covalent allosteric inhibitors targeting PBP2a in Methicillin-Resistant Staphylococcus aureus.
51. [Intraosseous vancomycin in total knee arthroplasty].
52. Coblation Versus Surgical Debridement Against MRSA Infection in Wounds With Shrapnel: A Preliminary Study.
53. Bacterial Colonization of Mobile Phones: Myth or Reality.
54. Innate lymphoid cell-based immunomodulatory hydrogel microspheres containing Cutibacterium acnes extracellular vesicles for the treatment of psoriasis.
55. Current Trends in Antimicrobial Resistance of ESKAPEEc Pathogens from Bloodstream Infections - Experience of a Tertiary Care Centre in North India.
56. Clinical characteristics, treatment and efficacy of calcaneal osteomyelitis: A systematic review with synthesis analysis 1118 reported cases.
57. Stability of influenza A virus in droplets and aerosols is heightened by the presence of commensal respiratory bacteria.
58. An antibacterial, multifunctional nanogel for efficient treatment of neutrophilic asthma.
59. The strongest protein binder is surprisingly labile.
60. Curcumin and resveratrol delivery from multi-functionalized calcium phosphate scaffold enhances biological properties.
61. Pharmacotherapies for multidrug-resistant gram-positive infections: current options and beyond.
62. Improving Risk Prediction of Methicillin-Resistant Staphylococcus aureus Using Machine Learning Methods With Network Features: Retrospective Development Study.
63. Antimicrobial Resistance Patterns of Outpatient Staphylococcus aureus Isolates.
64. Multifunctional pH-responsive hydrogel dressings based on carboxymethyl chitosan: Synthesis, characterization fostering the wound healing.
65. Clinical characteristics and analysis of prognostic factors in methicillin-resistant Staphylococcus aureus endocarditis: A retrospective multicenter study in Japan.
66. Multi-dynamic-bond cross-linked antibacterial and adhesive hydrogel based on boronated chitosan derivative and loaded with peptides from Periplaneta americana with on-demand removability.
67. Different Bacteria and their Antibiotic Sensitivity Patterns in Patients of Chronic Otitis Media-Active Mucosal Disease at a Secondary Care Centre in Delhi.
68. A Clinical Study on Microbiological Profile in Tracheostomy Wounds.
69. Community MRSA outbreaks in areas of low prevalence.
70. Skin colonization by Staphylococcus aureus in hemodialysis patients with pruritus and the effect of Staphylococcus aureus-secreted α-toxin on filaggrin expression.
71. Quorum-Sensing Signal DSF Inhibits the Proliferation of Intestinal Pathogenic Bacteria and Alleviates Inflammatory Response to Suppress DSS-Induced Colitis in Zebrafish.
72. Zirconia Dental Implants Surface Electric Stimulation Impact on Staphylococcus aureus.
73. Completed genome and emergence scenario of the multidrug-resistant nosocomial pathogen Staphylococcus epidermidis ST215.
74. Clinical and surgical outcome in patients with cervical spondylodiscitis-a single-center retrospective case series of 24 patients.
75. Severe necrotizing tracheobronchitis caused by influenza B and methicillin-resistant Staphylococcus aureus co-infection in an immunocompetent patient.
76. A semi-automated cell tracking protocol for quantitative analyses of neutrophil swarming to sterile and S. aureus contaminated bone implants in a mouse femur model.
77. Subsequent Complications of Pediatric Patients With Osteomyelitis and Accompanying Subperiosteal Abscess.
78. Negative Pressure Level and Effects on Bacterial Growth Kinetics in an in vitro Wound Model.
79. MicroRNA-939 amplifies Staphylococcus aureus-induced matrix metalloproteinase expression in atopic dermatitis.
80. Real-life experience with IV dalbavancin in Canada; results from the CLEAR (Canadian LEadership on Antimicrobial Real-life usage) registry.

Guidelines / Prevention Practice

1. Balancing the Scales: Caution in Reduction Mammaplasty Recommendations for Obesity Class III Patients.

Breast Surgery

1. A proactive healing strategy for tackling biofilm-based surgical site complications: Wound Hygiene Surgical.
2. MUC1-C regulates NEAT1 lncRNA expression and paraspeckle formation in cancer progression.
3. Associations between prior COVID-19 infection and venous thromboembolism following common plastic surgery operations.
4. Outcomes of Mastectomy and Immediate Reconstruction Managed with Closed-incision Negative Pressure Therapy Applied Over the Whole Breast.
5. Enhancing skin preparation to mitigate Cutibacterium acnes infections in breast augmentation and reconstruction.
6. Augmentation mastopexy using the "double inner bra technique" (DIB) in post-bariatric surgery.
7. Non-lactational mastitis with multiple sinus wounds treated by integrated traditional Chinese and Western medicine.
8. Breast Cancer Management During the COVID Pandemic.
9. A Multi-institutional Analysis of a Textbook Outcome Among Patients Undergoing Microvascular Breast Reconstruction.
10. Periareolar Skin-Sparing Mastectomy and Immediate Implant-Based Reconstruction: A Reappraisal.
11. One-Stage Deep Inferior Epigastric Perforator Flap Salvage of Infected Tissue Expanders.
12. Persistent lactation in bilateral breast implant augmentation: A case report and review of the literature.
13. Increased Patient Age as a Risk Factor Following Free Flap Reconstruction after Breast Cancer: A Single Institutional Review of 2,598 Cases.
14. Multidisciplinary management of necrotizing fasciitis as a postoperative complication after mastectomy in an adult male in a low- and middle-income country.
15. Overnight to Outpatient: A Single Institution's Experience With Mastectomy and Reconstruction Before and After the Start of the COVID-19 Pandemic.
16. Prepectoral Breast Reconstruction with Prosthesis and Acellular Dermal Matrix: A New Technique of ADM Implantation and Fixation.
17. Translating Evidence into Practice: A Review of Clinical Practice and Outcomes following the Adoption of an Early Post-Mastectomy Discharge Protocol in a Nigerian Hospital.
18. Characterizing the Relationship between Expression Quantitative Trait Loci (eQTLs), DNA Methylation Quantitative Trait Loci (mQTLs), and Breast Cancer Risk Variants.
19. Breast Reconstruction Using the Extended Latissimus Dorsi Myocutaneous Flap-A Long-term Follow-up Utilizing BREAST-Q.
20. Impact of Implant Exchange Timing after Post-Mastectomy Radiation in Immediate Tissue Expander Breast Reconstruction: A Systematic Review.
21. Impact of the 2008 economic crisis on the burden of hepatitis B and C diseases in Southern European countries.
22. Innovative technique for managing extreme relapsing bilateral pseudoangiomatous stromal hyperplasia (PASH) in a young woman: A case report highlighting a novel intervention in reconstruction.
23. Thirty-three-year follow-up of pseudoaneurysm of the mitral-aortic intervalvular fibrosa without surgical treatment: a case report and literature review.

Mupirocin resistance

1. Phenotypic and genotypic characterization of Staphylococcus aureus strains isolated from otitis externa: Emergence of CC30-spa t019-SCCmec IV carrying PVL as major genotype.
2. Chromosomal and plasmid localization of ileS2 in high-level mupirocin-resistant Staphylococcus pseudintermedius and Staphylococcus aureus isolated from canine and feline origins.
3. In vitro activity of ozenoxacin against Staphylococcus aureus and Streptococcus pyogenes clinical isolates recovered in a worldwide multicentre study (2020-2022).
4. Antimicrobial, Anti-inflammatory, and Wound Healing Properties of Myrtus communis Leaf Methanolic Extract Ointment on Burn Wound Infection Induced by Methicillin-Resistant Staphylococcus aureus in Rats.

Competitors

1. Linking S. aureus Immune Evasion Mechanisms to Staphylococcal Vaccine Failures.
2. Does adjunctive clindamycin have a role in Staphylococcus aureus bacteremia? A protocol for the adjunctive treatment domain of the S. aureus Network Adaptive Platform (SNAP) randomized controlled trial.
3. The effects of empiric antibiotic regimens in adults with non-ventilator-associated hospital-acquired pneumonia: A systematic review and network meta-analysis of randomized controlled trials.
4. In vivo expression of an mRNA encoded multi-mechanistic mAb combination against Staphylococcus aureus and protection in disease model.
5. Cell-wall-anchored proteins affect invasive host colonization and biofilm formation in Staphylococcus aureus.
6. A case report of neonatal incontinentia pigmenti complicated by severe cerebrovascular lesions in one of the male monozygotic twins.
7. Synthesis of Bisindole Alkaloids and Their Mode of Action against Methicillin-Resistant Staphylococcus Aureus.
8. Integrated transcriptomic analysis reveals immune signatures distinguishing persistent versus resolving outcomes in MRSA bacteremia.
9. Leadless Pacemaker Infective Endocarditis: Case Report and Review of the Literature.
10. A highly neutralizing human monoclonal antibody targeting a novel linear epitope on staphylococcal enterotoxin B.
11. Phase 1 study of the iodine absorption, safety, and tolerability of a 0.5% povidone-iodine nasal spray (Nasodine).
12. Polyclonal but not monoclonal circulating memory CD4(+) T cells attenuate the severity of Staphylococcus aureus bacteremia.
13. Case 16-2024: A 20-Year-Old Man with a Pustular Rash.
14. Orbital complications of pediatric acute rhinosinusitis in the pneumococcal conjugate vaccine era.
15. Infant age inversely correlates with gut carriage of resistance genes, reflecting modifications in microbial carbohydrate metabolism during early life.
16. Effect of Topical Silver Nanoparticle Formulation on Wound Bacteria Clearance and Healing in Patients With Infected Wounds Compared to Standard Topical Antibiotic Application: A Randomized Open-Label Parallel Clinical Trial.
17. Effect of Domain Manipulation in the Staphylococcal Phage Endolysin, Endo88, on Lytic Efficiency and Host Range.
18. Molecular surveillance of influenza A virus in Saudi Arabia: whole-genome sequencing and metagenomic approaches.