**XF-73 Nasal Literature Review**

**Period: 24/11/2024 – 24/12/2024**

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Scientific Highlights

1. Success rates of decolonisation treatment and risk factors for chronic carriage in methicillin-resistant Staphylococcus aureus throat carriers: a retrospective population-based cohort study.
2. [Translated article] Successful prophylactic measures for the eradication of Staphylococcus aureus infections in elective hip primary and revision arthroplasty.

SA Decolonisation

1. Nasal carriage of MRSA among clinically affiliated undergraduate students at the College of Health and Medical Sciences, Haramaya University, Ethiopia.
2. Assessing the behavior of food handlers wearing face masks and the passage of bacteria through disposable masks.
3. Interventions to prevent surgical site infection in adults undergoing cardiac surgery.
4. Orbital Cellulitis Complicated by Cerebral Vein Thrombosis and Meningitis in a Young, Healthy Adult.
5. Prevalence and molecular epidemiology of methicillin-resistant Staphylococcus aureus in livestock farmers, livestock, and livestock products in southern Sri Lanka: A one health approach.
6. Nasal, dermal, oral and indoor dust microbe and their interrelationship in children with allergic rhinitis.
7. Characterization of Antibiotic Resistance Profiles in the Oral Microbiota of the Pakistani Population.
8. Host DNA depletion on frozen human respiratory samples enables successful metagenomic sequencing for microbiome studies.
9. Orange Peel Lactiplantibacillus plantarum: Development of A Mucoadhesive Nasal Spray with Antimicrobial and Anti-inflammatory Activity.
10. Nasal Carriage of Antimicrobial-Resistant Staphylococci by Fallow Deer (Dama dama) Taken in a Natural Park of Tuscany, Central Italy.
11. Methicillin-Resistant S. aureus Carrying the PVL and Toxic Shock Syndrome Toxin in Healthy Dogs in Algeria.
12. Development of Livestock-Associated Methicillin-Resistant Staphylococcus aureus (LA-MRSA) Loads in Pigs and Pig Stables During the Fattening Period.
13. The efficacy of a nitric oxide-releasing formulation on nares isolated Methicillin-Resistant Staphylococcus aureus in porcine wound infection model.
14. In Vitro Susceptibility of Clinical and Carrier Strains of Staphylococcus aureus to STAFAL(®) Phage Preparation.
15. Characterizing Methicillin-Resistant Staphylococcus spp. and Extended-Spectrum Cephalosporin-Resistant Escherichia coli in Cattle.
16. Staphylococcus aureus regulates Th17 cells and autophagy via STING in chronic eosinophilic rhinosinusitis with nasal polyps.
17. Epidemiology and Outcomes of Antibiotic De-escalation in Patients with Suspected Sepsis in US Hospitals.
18. When Can a MRSA Nares Swab Guide Antibiotic Stewardship?: What the Nose Knows.
19. Zoonotic transmission of asymptomatic carriage Staphylococcus aureus on dairy farms in Canterbury, New Zealand.
20. Methicillin-Resistant Staphylococcus aureus Nasal Screening With Polymerase Chain Reaction for Early De-escalation of Empiric Vancomycin in the Treatment of Suspected/Confirmed Respiratory Infection in Critically Ill Patients.
21. Comparison of the bacterial microbiome in the pharynx and nasal cavity of persistent, intermittent carriers and non-carriers of Staphylococcus aureus.
22. PCR-based characterization of nasal and ocular surface flora and functional analysis of bacterial metabolic pathways in congenital nasolacrimal duct obstruction.
23. A prospective cohort study to investigate the transmission and burden of Staphylococcus aureus in Sri Lanka.

SA / MRSA Colonisation / Infection

1. Bactogram: Spatial Analysis of Bacterial Colonisation in Epidermal Wounds.
2. Establishment of a programmatic detection method for Trichomonas vaginalis based on double antibody sandwich ELISA targeting TvCP39 antigen.
3. Contamination of Dental Surgical Masks by Aerosols Generated During Different Dental Treatments.
4. Is there an association between colonisation of vancomycin resistant Enterococci, methicillin resistant Staphylococcus Aureus, or Clostridiodes Difficile and mortality in sepsis?
5. Bloodstream infections caused by Staphylococcus aureus in patients admitted to King Abdulaziz University Hospital, Jeddah, Saudi Arabia.
6. GARRE'S OSTEOMYELITIS OF LONG BONE IN ADULT.
7. PREVALENCE OF POST-OPERATIVE WOUND INFECTIONS AMONG ORTHOPAEDICS PATIENTS WITH SURGICAL IMPLANT TERTIARY CARE HOSPITAL.
8. A first case of subdural empyema due to Staphylococcus saccharolyticus.
9. Comprehensive pathogen identification and antimicrobial resistance prediction from positive blood cultures using nanopore sequencing technology.
10. Prevalence and antibiotic resistance of Staphylococcus aureus in wound infections: a hospital study in Hawassa, Ethiopia.
11. Prevalence of nosocomial infections and their influencing factors in a tertiary general hospital in Qingdao.
12. In vivo reduction of biofilm seeded on orthopaedic implants.
13. The impact of the COVID-19 pandemic on hospital-acquired infections and multi-drug resistant organisms, in comparison to seasonal influenza.
14. Prevalence and Socio-Demographic and Hygiene Factors Influencing Impetigo in Saudi Arabian Children: A Cross-Sectional Investigation.
15. Evaluation of DNA extraction kits for long-read shotgun metagenomics using Oxford Nanopore sequencing for rapid taxonomic and antimicrobial resistance detection.
16. Efficacy of pH-Responsive Surface Functionalized Titanium Screws in Treating Implant-associated S. aureus Osteomyelitis with Biofilms Formation.
17. Pathogenic spectrum of infective endocarditis and analysis of prognostic risk factors following surgical treatment in a tertiary hospital in China.
18. In Vitro Assessment of the Extended 21-Day Microbial Barrier Provided by the Exofin Fusion Surgical Incision Closure System.
19. The bacterial burden of worn face masks-observational research and literature review.
20. Identifying multidrug-resistant organisms in diabetic foot ulcers: a study of risk factors and antimicrobial resistance genes.
21. Therapeutic potential of isoallolithocholic acid in methicillin-resistant Staphylococcus Aureus peritoneal infection.
22. Efficacy of forefoot scrubbing with bristled brush during foot and ankle surgery.
23. Australian Group on Antimicrobial Resistance (AGAR) Australian Staphylococcus aureus Surveillance Outcome Program (ASSOP) Bloodstream Infection Annual Report 2023.
24. State-of-the-Art Review: Diagnosis and Management of Spinal Implant Infections.
25. A 4-year outbreak of MRSA ST72-MRSA-IV spa type t1597 in a surgical high dependency unit in Ireland linked to repeated healthcare worker recolonisation.
26. Antimicrobial coating of biologically synthesized silver nanoparticles on surgical fabric and surgical blade to prevent nosocomial infections.
27. In Vitro and In Vivo Translational Insights into the Intraoperative Use of Antiseptics and Lavage Solutions Against Microorganisms Causing Orthopedic Infections.
28. Does the duration of antibiotic treatment following one-stage treatment of infected total knee arthroplasty influence the eradication rate? A systematic review.
29. Bacteriophage Therapy for Acute Fracture-Related Infections: An Effective Treatment When Compared to Antibiotics In A Canine Model.
30. Periannular extension of infective endocarditis with atrioventricular block successfully treated with antibiotic therapy after transcatheter aortic valve implantation: a case report.
31. Staphylococcus aureus δ-Toxin Induces Ca(2+) Influx-Independent Degranulation of Murine Cultured Mast Cells.
32. The epidemiology and management of spontaneous spinal epidural abscesses in children: a single-center experience.
33. Bacterial meningitis in a quaternary NICU: A multiyear retrospective study.
34. Airway Corynebacterium interfere with Streptococcus pneumoniae and Staphylococcus aureus infection and express secreted factors selectively targeting each pathogen.
35. Long-term Risk of Infection Among Patients Colonized With Antimicrobial-Resistant Pathogens: A Population-wide Cohort Study.
36. Differences in microorganism profile in periprosthetic joint infections of the hip in patients affected by chronic kidney disease.

Guidelines / Prevention Practice

Breast Surgery

1. Breast Hydatid Cyst: Diagnosis and Treatment of a Rare Case with Spontaneous Rupture.
2. Dose the Omission of Cefazolin in Irrigation Solution Affect Outcomes in Prepectoral Direct-to-Implant Breast Reconstruction?
3. Protein as a preoperative predictor - Impact of hypoalbuminemia on 30-day outcomes of breast reduction surgery.
4. From mammary mystery to parasitic surprise: a rare case of primary breast hydatid cyst.
5. Breast epidermoid cyst: a case report.
6. Enhancing Breast Cancer Surgery Outcomes: A Comprehensive Review of Oncoplastic Techniques, Surgical Planning, and Aesthetic Considerations.
7. Redefining infection management in implant-based breast reconstruction: Insights and innovations from an 11-year retrospective analysis.
8. Can Ileostomy Reversal Be Safely Performed by Surgical Residents?
9. Neonatal Mastitis: Clinical Presentation and Approach to Evaluation and Management.
10. A Modified Periareolar Auto-augmentation Mastopexy: Using an Inferolaterally Pedicled Tongue-Shaped Parenchymal Flap.
11. Management of Breast Cancer by Skin-Reducing Mastectomy and Immediate Breast Reconstruction by Prepectoral Implant Approach with Polypropylene Mesh for Patients with Large Breasts.
12. Pre-Pectoral Tissue Expander and Acellular Dermal Matrix for a Two-Stage Muscle Sparing Breast Reconstruction: Indications, Surgical Technique and Clinical Outcomes with Histological and Ultrasound Follow-Up-A Population-Based Cohort Study.
13. Skin and Soft Tissue Nontuberculous Mycobacteria Infection: A Retrospective Case Series of 49 Patients.
14. Mondor disease.
15. Value of using ultrasonic shears in reducing seroma formation after axillary lymph node dissection in breast cancer patients.
16. Size Does Matter: Mastectomy Flap Thickness as an Independent Decisional Factor for the Peri-Prosthetic Device Choice in Prepectoral Breast Reconstruction.
17. Postoperative complications after breast cancer surgery and effect on recurrence and survival: population-based cohort study.
18. Five-year experience with titanium mesh for rigid chest wall reconstruction.
19. Medial Breast Reconstruction after Breast Conserving Surgery with Local Flap: A Single Center Experience.
20. π-HuB: the proteomic navigator of the human body.
21. Risk factors for postoperative pulmonary infections in non-small cell lung cancer: a regression-based nomogram prediction model.
22. Comparative Effectiveness of Surgical Drainage Techniques and Postoperative Interventions for Reducing Complications: A Systematic Review of Randomized Controlled Trials.
23. Acute pseudoaneurysm following cutaneous carcinoma excision: management and clinical insights.
24. The intraoperative application of indocyanine green, in breast reconstructive surgery using a latissimus dorsi flap, as a preventive factor for tissue ischemia and postoperative complications.
25. Modified Surgical Approach for Treating Zuska's Disease: Complete Resection of the Sinus Tract and Duct.
26. Impact of Timing of Minor Amputations After Revascularization on Patient Outcomes.
27. New Concepts in Circumareolar Mastopexy: The "Star Interlocking Suture"-A Case Series.
28. Correction to: Hemophilus influenzae Infection's Association With Decreased Risk of Breast Cancer.
29. Utility of colposcopy for the screening and management of cervical cancer in Africa: a cross-sectional analysis of providers' training and practices.

Mupirocin resistance

1. Phenotypic and genotypic detection of multi drug resistant coagulase-positive Staphylococcus spp. isolates from canine pyoderma.
2. Mupirocin-Doped α-Cellulose Nanopaper for Wound Dressing: Development, In Vitro Characterization and Antimicrobial Studies.
3. Antibiotic susceptibility and phenotypic profile of Staphylococcus species isolated from different clinical samples from health facilities: A cross-sectional study.

Competitors

1. Development and application of a quadruplex TaqMan fluorescence quantitative PCR typing method for Streptococcus suis generalis, type 2, type 7 and type 9.
2. Secondary Myiasis in an Immunocompetent Patient With Severe Chromoblastomycosis.
3. The two-component system ArlRS is essential for wall teichoic acid glycoswitching in Staphylococcus aureus.
4. Prevalence of bacterial ear infections and multidrug resistance patterns among ear infection suspected patients in Ethiopia: a systematic review and meta-analysis.
5. Investigating Osteomyelitis as a Rare Adverse Effect of Vaccination in the Pediatric Population.
6. An Investigation of Virulence Genes of Staphylococcus aureus in Autologous Vaccines Against Sheep Mastitis.
7. Oceanic Breakthroughs: Marine-Derived Innovations in Vaccination, Therapy, and Immune Health.
8. Electron-Beam-Killed Staphylococcus Vaccine Reduced Lameness in Broiler Chickens.
9. Oxacillin promotes membrane vesicle secretion in Staphylococcus aureus via a SarA-Sle1 regulatory cascade.
10. Nanotechnological prospective for enhancing the antibacterial activity of mupirocin and cinnamon essential oil: a combination therapy.
11. Novel natural and economic approach for controlling methicillin-resistant Staphylococcus aureus using apple cider vinegar.
12. Genital Herpes Zoster: A Report of a Rare Case.
13. Pathobiont-induced suppressive immune imprints thwart T cell vaccine responses.
14. Interleukin 10 drives Staphylococcus aureus imprinting and vaccine failure in murine models via antibody glycosylation.
15. Pathobiont-driven antibody sialylation through IL-10 undermines vaccination.
16. Antimicrobial Resistance Profiles and mupA Gene Characterization of Staphylococcus epidermidis Recovered from Facial Skin of Healthy Females in Shanghai, China.
17. Oral-Delivery Lactococcus lactis expressing cherry fusion lactoferrin peptides against infection of avian pathogenic Escherichia coli in chickens.
18. A Cetylpyridinium Chloride Oral Rinse Reduces Salivary Viral Load in Randomized Controlled Trials.
19. Central sleep apnea as an initial presentation of small cell lung carcinoma with anti-Hu antibody-related paraneoplastic neurologic syndrome.
20. Topical mupirocin treatment reduces interferon and myeloid signatures in cutaneous lupus erythematous lesions through targeting of Staphylococcus species.
21. mRNA-based platform for preventing and treating Staphylococcus aureus by targeted staphylococcal enterotoxin B.
22. Current innovations in mRNA vaccines for targeting multidrug-resistant ESKAPE pathogens.
23. Insights into biofilm architecture and maturation enable improved clinical strategies for exopolysaccharide-targeting therapeutics.