**XF-73 Nasal Literature Review**

**Period: 09/10/2023 – 13/10/2023**

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Scientific Highlights

1. Impact of control measures including decolonization and hand hygiene for orthopaedic surgical site infection caused by MRSA at a Japanese tertiary-care hospital.
2. Implementation of a Prevention Bundle to Decrease Rates of Staphylococcus aureus Surgical Site Infection at 11 Veterans Affairs Hospitals.
3. Recent updates in the development of molecular assays for the rapid identification and susceptibility testing of MRSA.
4. Hiding in Plain Sight: Benefit of Abrasion and Laceration Swabs in Identification of Panton-Valentine Leucocidin (PVL)-Meticillin Resistant Staphylococcus aureus (MRSA) Colonisation in Military Personnel.
5. Chronicity of high and low level mupirocin resistance in Staphylococcus aureus from 30 Indian hospitals.
6. Limited Adaptation of Staphylococcus aureus during Transition from Colonization to Invasive Infection.
7. Effective screening methods to prevent surgical site infections in orthopedic surgery: an observational study.
8. Efficacy and safety of Melaleuca alternifolia (tea tree) oil for human health-A systematic review of randomized controlled trials.
9. Nasal microbiota profiles in shelter dogs with dermatological conditions carrying methicillin-resistant and methicillin-sensitive Staphylococcus species.
10. Methicillin resistance Staphylococcus aureus nasal carriage and its associated factors among HIV patients attending art clinic at Dessie comprehensive specialized hospital, Dessie, North East Ethiopia.
11. Quality improvement study on the effectiveness of intranasal povidone-iodine decolonization on surgery patients.
12. Positive Preoperative Colonization With Methicillin Resistant Staphylococcus Aureus Is Associated With Inferior Postoperative Outcomes in Patients Undergoing Total Joint Arthroplasty.
13. [Translated article] Results of a preoperative screening and decolonization programme for Staphylococcus aureus in primary hip and knee arthroplasty.
14. Methicillin-resistant Staphylococcus aureus nasal carriage among patients on haemodialysis with newly inserted central venous catheters.
15. Association between nasal colonization of Staphylococcus aureus and surgical site infections in spinal surgery patients: a systematic review and meta-analysis.
16. Effects of preoperative Staphylococcus aureus screening and targeted decolonization bundle protocols in cardiac surgery: a nine-year review of a regional cardiovascular center in China.
17. Probiotic for pathogen-specific Staphylococcus aureus decolonisation in Thailand: a phase 2, double-blind, randomised, placebo-controlled trial.
18. Effect of nasal mupirocin treatment on extranasal carriage of methicillin-resistant Staphylococcus aureus among pediatric patients admitted to the neonatal intensive care unit.
19. Dissemination of Methicillin-Resistant Staphylococcus aureus Sequence Type 764 Isolates with Mupirocin Resistance in China.
20. The efficacy of multifaceted versus single anesthesia work area infection control measures and the importance of surgical site infection follow-up duration.
21. Nasal Iodophor Antiseptic vs Nasal Mupirocin Antibiotic in the Setting of Chlorhexidine Bathing to Prevent Infections in Adult ICUs: A Randomized Clinical Trial.

SA Decolonisation

1. Association between methicillin-resistant Staphylococcus aureus nasal carriage and infection after pancreatic surgery.
2. The examination of some virulence factors in S. aureus isolates obtained from the healthy human population, sheep mastitis, and cheese.
3. Factors Associated with Otitis Media Among Pediatrics in Two Government Hospitals in Arba Minch, Southern Ethiopia.
4. Chlorhexidine-Silver Nanoparticle Conjugation Leading to Antimicrobial Synergism but Enhanced Cytotoxicity.
5. First Report of Food Poisoning Due to Staphylococcal Enterotoxin Type B in Döner Kebab (Italy).
6. Prospective Evaluation of the BD MAX StaphSR Assay for the Screening of Methicillin-Susceptible and -Resistant Staphylococcus aureus from Nasal Swabs Taken in Intensive Care Unit Patients.
7. Surveillance of Multidrug-Resistant Pathogens in Neonatal Intensive Care Units of Palermo, Italy, during SARS-CoV-2 Pandemic.
8. Financial Analysis of Preoperative Nasal Decolonization with Povidone-Iodine in Closed Pilon Fracture Definitive Fixation.
9. Phages for treatment of Staphylococcus aureus infection.
10. Which are the best murine models to study Eosinophilic Chronic Rhinosinusitis? A contemporary review.
11. Toxin exposure and HLA alleles determine serum antibody binding to toxic shock syndrome toxin 1 (TSST-1) of Staphylococcus aureus.
12. High Frequency of Methicillin-Resistant and Multidrug-Resistant Strains of Staphylococcus aureus Colonizing Students in Okada, Edo State, Nigeria.
13. Chemerin and IL-17 are potential predictors and Chemerin silencing alleviates inflammatory response and bone remodeling in chronic rhinosinusitis.
14. Discrepancies between phenotypic and genotypic identification methods of antibiotic resistant genes harboring Staphylococcusaureus.
15. Impact of the sequential implementation of a pharmacy-driven methicillin-resistant Staphylococcus aureus (MRSA) nasal-swab ordering policy and vancomycin 72-hour restriction protocol on standardized antibiotic administration ratio (SAAR) data for antibiotics used for resistant gram-positive infections.
16. Role of nuc gene in Staphylococcus aureus to phagocytic activity in different cattle infections.
17. The Impact of Nasal Staphylococcus aureus Carriage on Surgical-Site Infections after Immediate Breast Reconstruction: Risk Factors and Biofilm Formation Potential.
18. Presence and Resistance Profile of Staphylococcus spp. Isolated from Slaughtered Pigs.
19. Using Methicillin-Resistant Staphylococcus aureus Nasal Screens to Rule Out Methicillin-Resistant S aureus Pneumonia in Surgical Intensive Care Units.
20. [Analysis of nasal microbial characteristics in patients with allergic rhinitis and non-allergic rhinitis].
21. Unraveling the mechanisms of Cefoxitin resistance in methicillin-resistant Staphylococcus aureus (MRSA): structural and molecular simulation-based insights.
22. Decolonization in Nursing Homes to Prevent Infection and Hospitalization.
23. Pediatric Utilization of Methicillin-resistant Staphylococcus aureus Nasal Swabs for Antimicrobial Stewardship.
24. Stability of magistral phage preparations before therapeutic application in patients with chronic rhinosinusitis, sepsis, pulmonary, and musculoskeletal infections.
25. Association Between Nasal Colonization of Staphylococcus aureus and Eczema of Multiple Body Sites.

SA/MRSA Colonisation / Infection

1. The Clinical and Economic Burden of Antibiotic Use in Pediatric Patients with Varicella Infection: a Retrospective Cohort Analysis of Real-World Data in England.
2. Bilateral gluteal reconstruction with deep inferior epigastric perforator flaps and saphenofemoral arteriovenous loops.
3. Outcome of hip resurfacing revision through the Hueter-anterior approach.
4. Nondental Invasive Procedures and Risk of Infective Endocarditis: Time for a Revisit: A Science Advisory From the American Heart Association.
5. Effect of operative time in outcomes following surgical fixation of hip fractures: a multivariable regression analysis of 35,710 patients.
6. TLR7 promotes chronic airway disease in RSV-infected mice.
7. Self-Care Behaviour of Patients With Breast Cancer in the Management of Side Effects of Chemotherapy.
8. Colonization of extended-spectrum β-lactamase-producing Enterobacteriaceae does not affect subsequent infection and liver transplant outcomes: a retrospective observational cohort study.
9. A Pilot Study of Mitochondrial Response to an In Vivo Prosthetic Joint Staphylococcus aureus Infection Model.
10. What we learned from steroid therapy in the COVID-19 pandemic.
11. Open prostatectomy for benign prostatic hyperplasia: A critical analysis of patient presentation and surgical outcomes in a contemporary series.
12. Quantification and comparison of salivary neutrophils in periodontal health and disease.
13. Outcomes of early fiberoptic bronchoscopic sputum aspiration and lavage after thoracoscopic and laparoscopic esophageal cancer surgery: a randomized clinical trial.
14. Comparison of central venous catheter thoracic drainage and traditional closed thoracic drainage following minimally invasive surgery for esophageal carcinoma: a retrospective analysis.
15. Comparison of two surgical interventions for lumbar brucella spondylitis in adults: a retrospective analysis.
16. Radical debridement guided by advanced imaging and frequent monitoring is an effective approach for the treatment of odontogenic abscesses and jaw osteomyelitis in rabbits: a review of 200 cases (2018-2023).
17. Medieval (arrow) weapon injuries in contemporary surgical practice: Impaled posterior thoracic wall arrowhead leading to haemo-thorax: Management protocols. Case report.
18. Minimally invasive tubular microdiscectomy for recurrent lumbar disc herniation: step-by-step technical description with safe scar dissection.
19. The Impact of Helicobacter pylori on Laparoscopic Sleeve Gastrectomy Postoperative Complications: a Systematic Review and Meta-analysis.
20. Minimally Invasive SI Joint Fusion Procedures for Chronic SI Joint Pain: Systematic Review and Meta-Analysis of Safety and Efficacy.
21. The Association of Intraoperative and Early Postoperative Events with Risk of Pneumonia Following Cardiac Surgery.
22. Differentiating Spinal Pathologies by Deep Learning Approach.
23. Mollicutes-related infections in thoracic surgery including lung and heart transplantation: a systematic review.
24. Risk factors for postoperative infection after bilateral sagittal split ramus osteotomy: A retrospective analysis.
25. Meta-analysis of Efficacy of Perioperative Oral Antibiotics in Intestinal Surgery with Surgical Site Infection.
26. Retrocaval ureter in a child presenting at a regional referral hospital in South-Western Uganda: A case report.
27. Pull-Through for Hirschsprung's Disease: Insights for Limited-Resource Settings From Mbarara.
28. Validation of measures for perioperative urinary catheter use, urinary retention, and urinary catheter-related trauma in surgical patients.
29. Outcomes of Surgically Treated Pilon Fractures: A Comparison of Patients with and without Diabetes.
30. Use of Ozonized Water in the Prevention of Surgical Site Infection in Children Undergoing Cardiovascular Surgery.
31. Deep Infection After Anterior Cruciate Ligament Reconstruction Diagnosed by Intratunnel Suspensory Fixation Device Migration: A Case Report.
32. Nomenclature of allergic diseases and hypersensitivity reactions: Adapted to modern needs: An EAACI position paper.
33. A Rare Case of Aggressive Infective Endocarditis Due to Corynebacterium striatum.
34. Analysis of recurrence and risk factors in laparoscopic sandwich technique for parastomal hernia repair.
35. Image-based robotic-arm assisted unicompartmental knee arthroplasty provides high survival and good-to-excellent clinical outcomes at minimum 10 years follow-up.
36. Multiple Retroperitoneal Abscesses Caused by Citrobacter koseri are Associated with a Poor Prognosis: A Case Report.
37. Increased local bone turnover in patients with chronic periprosthetic joint infection.
38. Safety of curative-intent lung cancer surgery in older patients (octogenarians): A contemporary multicentre cohort study.
39. Necrotizing fasciitis following gastrostomy tube placement, detected by point-of-care ultrasound, case report.
40. 0.05% Chlorhexidine Gluconate Irrigation in Trauma/Emergency General Surgical Laparotomy Wounds Closure: A Pilot Study.
41. Postoperative infections associated with microvascular free flaps in head and neck reconstruction: Analysis of risk factors and results with a standardized prophylaxis protocol.
42. New chemiluminescent enzyme immunoassay for quantitative measurement of Mac-2 binding protein glycosylation isomer in chronic liver disease.
43. Longitudinal Intravital Imaging of the Bone Marrow (LIMB) for Analysis of the Race for the Surface in a Murine Osteomyelitis Model.
44. Infection of Primary Nasal Epithelial Cells Grown at an Air-Liquid Interface to Characterize Human Coronavirus-Host Interactions.
45. Three decades of collaboration through the Pediatric Heart Transplant Society Registry: A journey through registry data with a highlight on children with single ventricle anatomy.
46. Outcomes of HUD Versus CIC in Patients With Urethral Strictures.
47. Triclosan-coated sutures to reduce surgical site infection in abdominal gastrointestinal surgery: A meta-analysis and systematic review.
48. The antibiotic bead pouch - a useful technique for temporary soft tissue coverage, infection prevention and therapy in trauma surgery.
49. Robotic bilateral nephrectomy for large polycystic kidney disease.
50. ANTIMICROBIAL SUSCEPTIBILITY OF STAPHYLOCOCCUS SPP. ISOLATED FROM FELIDS AND CANIDS IN BELO HORIZONTE ZOO, BRAZIL.
51. Minimally Invasive Procedure Versus Conventional Redo Sternotomy for Mitral Valve Surgery in Patients with Previous Cardiac Surgery: A Systematic Review and Meta-Analysis.
52. Prophylactic antibiotics in septoplasty with intranasal septal splints: A comparative analysis.
53. Septic Arthritis of Cervical Spine Facet Joints: A Case Report and Review of Imaging.
54. Analysis of clinical efficacy and safety of hand-sewn anastomosis for the digestive tract with Da Vinci robot in rectal cancer surgery.
55. Role of multi-strain probiotics in preventing severity and frequency of recurrent respiratory tract infections in children.
56. Invasive Eumycotic mycetoma of the nasal septum in a post-dialysis patient: A case report.
57. Factors affecting progressive facial swelling immediately after orthognathic surgery: A retrospective cohort study.
58. Living-donor lobar lung transplantation from a hepatitis B surface antigen-positive donor to a negative recipient.
59. Heterostructured piezocatalytic nanoparticles with enhanced ultrasound response for efficient repair of infectious bone defects.
60. Aortic arch endovascular branch and fenestrated repair: Initial Canadian experience with novel technology.
61. Definitive coverage of distal vein graft in a case of early skin necrosis following popliteal to dorsalis pedis bypass.
62. Lateral access minimally invasive spine surgery in adult spinal deformity.
63. Apulian infectious diseases network: survey on the prevalence of delta infection among chronic HBV carriers in Apulia.
64. Dominantly inherited micro-satellite instable cancer - the four Lynch syndromes - an EHTG, PLSD position statement.
65. A Prospective, Observational Cost Comparison of Laparoscopic and Open Appendicectomy in Three Tertiary Hospitals in Nigeria.
66. Robotic-assisted repair of incisional hernia-early experiences of a university robotic hernia program and comparison with open and minimally invasive sublay technique (eMILOS).
67. Expression of viral CD45 ligand E3/49K on porcine cells reduces human anti-pig immune responses.
68. Comparison of the management of Helicobacter pylori infection between the older and younger European populations.
69. Voriconazole-induced psychosis in rhino-orbital invasive aspergillosis.
70. Comparison of postoperative complications between laparoscopic myomectomy and total laparoscopic hysterectomy.
71. Management of Implant Extrusion following Thyroplasty for Vocal Fold Paralysis: A Case Report.
72. Twenty-Five Year Multicentre Experience of Explantation of Infected Abdominal Aortic Endografts.
73. Early Video Assisted Thoracoscopic Surgery (VATS) or Intrapleural Enzyme Therapy (IET) in Pleural Infection - A Feasibility Randomized Controlled Trial (The Third Multicenter Intrapleural Sepsis Trial - MIST-3).
74. Assessment of the Clinical Course of Human Rhinovirus/Enterovirus Infections in Pediatric Intensive Care.
75. The Effects of Blood Glucose Control in the Operative Spine Patient: A Systematic Review.
76. Development and validation of a postoperative bleeding complications prediction model in infective endocarditis.
77. Enhanced antimicrobial properties and bioactivity of 3D-printed titanium scaffolds by multilayer bioceramic coating for large bone defects.
78. Correlation between use of different type protective facemasks and the oral ecosystem.
79. Safety and efficacy of waterjet debridement vs. conventional debridement in the treatment of extremely severe burns: A retrospective analysis.
80. New Noninvasive Method for the Assessment of Central Venous Oxygen Saturations in Critically Ill Patients.
81. Recipient With Influenza A Infection: Contraindication to Transplant? A Case Report.
82. Characterizing the Crosstalk Between Programmed Cell Death Pathways in Cytokine Storm With an Agent-Based Model.
83. Evaluation of risk factors for the development of bacteremia and complications in patients with brucellosis: Is it possible to predict the clinical course?
84. Accuracy of the ACS NSQIP Surgical Risk Calculator for Predicting Postoperative Complications in Gastric Cancer Following Open Gastrectomy.

Guidelines / Prevention Practice

1. Impact of 30-day prescribed opioid dose trajectory on fatal overdose risk: A population-based, statewide cohort study.
2. Optimal selection of daily satellite precipitation product based on structural similarity index at 1 km resolution for the Pra catchment, Ghana.
3. The pharmacokinetics and pharmacodynamics of continuous infusion vancomycin in adult people with cystic fibrosis.
4. Monkeypox scenario in India: a review study.
5. Tetanus, Diphtheria, and Acellular Pertussis Vaccination Coverage Among Publicly Insured Pregnant Women, U.S., 2016-2019.
6. Urinary tract infection in the context of mini-invasive procedures after kidney transplantation.
7. Opioid prescription rates associated with surgery among adolescents in the United States from 2015 to 2020.
8. The elimination of hepatitis D as a public health problem: Needs and challenges.
9. Congenital Retrosigmoid Cholesteatoma: Case Series and Literature Review.
10. Effectiveness of piperonyl butoxide and pyrethroid-treated long-lasting insecticidal nets (LLINs) versus pyrethroid-only LLINs with and without indoor residual spray against malaria infection: third year results of a cluster, randomised controlled, two-by-two factorial design trial in Tanzania.
11. Outcomes of Early versus Standard Closure of Diverting Ileostomy after Proctectomy: Meta-analysis and Meta-regression Analysis of Randomized Controlled Trials.
12. Invasive pneumococcal disease and potential impact of pneumococcal conjugate vaccines among adults, including persons experiencing homelessness - Alaska, 2011-2020.
13. Serologic Immunity to Tetanus in the United States, National Health and Nutrition Examination Survey, 2015-2016.
14. Management of soft tissues in patients with periprosthetic joint infection.
15. Comparison of bacterial culture with BioFire® FilmArray® multiplex PCR screening of archived cerebrospinal fluid specimens from children with suspected bacterial meningitis in Nigeria.
16. Cloxacillin plus fosfomycin versus cloxacillin alone for methicillin-susceptible Staphylococcus aureus bacteremia: a randomized trial.
17. Endoscopic treatment of primary obstructive megaureter with high pressure balloon dilation in infants.
18. Improving fragility hip fracture care through data: a multicentre experience from a country with an emerging economy during the COVID-19 pandemic.
19. Peripheral and Placental Prevalence of Sulfadoxine-Pyrimethamine Resistance Markers in Plasmodium falciparum among Pregnant Women in Southern Province, Rwanda.
20. Low body mass index patients have worse outcomes after mechanical thrombectomy.
21. National variation in prophylactic antibiotic use for elective primary total joint replacement.
22. Disease Severity of Respiratory Syncytial Virus Compared with COVID-19 and Influenza Among Hospitalized Adults Aged ≥60 Years - IVY Network, 20 U.S. States, February 2022-May 2023.
23. Characteristics and Outcomes Among Adults Aged ≥60 Years Hospitalized with Laboratory-Confirmed Respiratory Syncytial Virus - RSV-NET, 12 States, July 2022-June 2023.
24. β-Lactams plus doxycycline versus azithromycin for treatment of severe community-acquired pneumonia in critically ill patients.
25. Interventions in the management of diabetes-related foot infections: A systematic review.
26. Evaluating the efficacy of single-shot versus prolonged antibiotic prophylaxis in alveolar cleft osteoplasty - A retrospective cohort study.
27. [Diagnostic and therapeutic work-up of infected tibial nonunion].
28. Multidisciplinary strategies for managing acute watery diarrhea in children with congenital anorectal malformation and colostomy: A case study.
29. Pathogens and their resistance behavior in necrotizing fasciitis.
30. FIGO good practice recommendations: Bundle of care to reduce neonatal mortality and improve outcomes after preterm and term delivery.
31. Knowledge, sex, and region associated with primary care providers prescribing adolescents HIV pre-exposure prophylaxis.
32. [Analysis of the risk factors of persistent inflammation-immunosuppression-catabolism syndrome in patients with extensive burns].
33. Assessing sex differences in viral load suppression and reported deaths using routinely collected program data from PEPFAR-supported countries in sub-Saharan Africa.
34. The management and outcomes of hepatocellular carcinoma in sub-Saharan Africa: a systematic review.
35. Quality of breast surgery care at a comprehensive cancer center and its rural affiliate hospital.
36. Maggot therapy, alginate dressing, and surgical sharp debridement: Unique path to save unresponsive diabetic foot ulcer.
37. Effect of preoperative prophylactic antibiotic use on postoperative infection after percutaneous nephrolithotomy in patients with negative urine culture: a single-center randomized controlled trial.
38. [Interpretation of new concepts and approaches in the ESICM guidelines on acute respiratory distress syndrome: definition, phenotyping and respiratory support strategies].
39. Olfactory disorders in childhood: A comparative study of olfaction in children with adenoid hyperplasia versus a control group and the postoperative effects of adenoidectomy with respect to olfactory ability.
40. Recurrent Infections After Percutaneous Pinning of a Proximal Radius and Ulna Fracture.
41. Airborne bacteria in veterinary surgical theatres in South Africa.
42. Postoperative Aspergillus Endophthalmitis With Iris Granuloma: A Case Report.
43. Causes and Recommendations for Fever in Sickle Cell Pediatric Patients in the Emergency Department: A Single-Center Study.
44. PRESS survey: PREvention of surgical site infection-a global pan-specialty survey of practice protocol.
45. Preventing Occupational Hearing Loss: 50 Years of Research and Recommendations from the National Institute for Occupational Safety and Health.
46. Antibiotic prophylaxis in flexible ureterorenoscopy with negative urine culture.
47. Influence of Closed-incision Negative Pressure Wound Therapy on Abdominal Site Complications in Autologous Breast Reconstruction.
48. Modeling the combined resistance to microwave treatments and salt conditions of Escherichia coli and Staphylococcus aureus.
49. Perceived Effectiveness of COVID-19 Preventive Practices and Behavioral Intention: Survey of a Representative Adult Sample in the United States.
50. [Surgical treatment of high-grade spondylolisthesis].
51. Informed consent practices for acute stroke therapy: principles, challenges and emerging opportunities.
52. A Surgical Management Algorithm for Type 4 Parry-Romberg Syndrome.
53. [Effects of delayed ureteral stents removal during the COVID-19 pandemic on the quality of life and psychological status of postoperative patients with urinary calculi].
54. Optimal evaluation of crop residues for gasification in Ghana using integrated multi-criterial decision making techniques.
55. Open and closed reduction methods for intramedullary nailing of femoral shaft fractures: A systematic review and meta-analysis of comparative studies.
56. Use of a multi-phased approach to identify and address facilitators and barriers to the implementation of a population-wide genomic screening program.
57. Evaluation of the effectiveness of the human-baited double net traps and BG traps compared with the human landing catches for collecting outdoor Aedes albopictus in China.
58. Emerging findings for the assessment and treatment of pediatric deep neck abscesses.
59. The management of gingival fenestration: A series of three cases.
60. Acute pharyngitis in children and adults: descriptive comparison of current recommendations from national and international guidelines and future perspectives.
61. [Surgical site infection after lower limb arterial reconstruction: can we improve prevention?].
62. Impact of digestive-surgical cross-disciplinary management in patients with esophageal atresia.
63. Maximizing outcomes in penile prosthetic surgery: exploring strategies to prevent and manage infectious and non-infectious complications.
64. Current concepts review: Management of civilian transpelvic gunshot fractures.
65. High Influenza Incidence and Disease Severity Among Children and Adolescents Aged <18 Years - United States, 2022-23 Season.
66. Use of the Pfizer Respiratory Syncytial Virus Vaccine During Pregnancy for the Prevention of Respiratory Syncytial Virus-Associated Lower Respiratory Tract Disease in Infants: Recommendations of the Advisory Committee on Immunization Practices - United States, 2023.
67. Prevalence and Correlates of Physical Inactivity Among Individuals with HIV During the First COVID-19 Wave: A Cross-sectional Survey.
68. [Surgical site infection and perioperative antibiotics in dermatosurgery].
69. Real-world experience of therapeutic drug monitoring and PK/PD achievement of ceftaroline administered by different infusion regimens in patients with confirmed infections caused by Gram-positive bacteria.

Breast Surgery

1. A Rare Complication Following Breast Conserving Surgery: Pyoderma Gangrenosum.
2. Outcomes of Vacuum-Assisted Beast Biopsy for Management of Benign Breast Masses.
3. A prospective randomized clinical trial to assess antibiotic pocket irrigation on tissue expander breast reconstruction.
4. Expander prosthesis and DIEP flaps in delayed breast reconstruction: Sensibility, patient-reported outcome, and complications in a five-year randomised follow-up study.
5. Antiseptic Techniques in Breast Implant Surgery: Insights From Plastic Surgeons in Saudi Arabia.
6. Case report: Preliminary study on the diagnosis and treatment of respiratory distress in patients with giant nodular goiter complicated with severe COVID-19.
7. Inpatient versus Outpatient Immediate Alloplastic Breast Reconstruction: Recent Trends, Outcomes, and Safety.
8. Extended arc of rotation of Latissimus Dorsi Musculocutaneous Flap providing well-vascularized tissue for reconstruction of complete defects of the sternum: An anatomical study of flap pedicle modification.
9. Treatment of Complications After Minimally Invasive Breast Augmentation with Aquafilling Gel.
10. Lasting Impacts of the COVID-19 Pandemic on Breast Cancer Diagnosis and Treatment in the United States.
11. Implications of the COVID-19 Pandemic on Immediate Breast Reconstruction Access.
12. Comorbid Conditions and Complications in Body Contouring Surgery: A Retrospective Review.
13. Breast Reconstruction with Simultaneous Bilateral Lumbar Artery Perforator Flaps Improves Waistline Definition and Buttock Projection.
14. Smooth vs Textured Expanders: Patient Factors and Anatomic Plane are Greater Factors in Determining First-Stage Breast Reconstruction Outcomes.
15. Analysis of Complications in Patients With a History of Cannabis Use and Tobacco Use Undergoing Implant-Based Breast Reconstruction.
16. Region-specific protection effect of preoperative oral antibiotics combined with mechanical bowel preparation before laparoscopic colorectal resection: a prospective randomized controlled trial.
17. Nipple-Sparing Mastectomies in Patients over the Age of 60 Years: Factors Associated with Surgical Outcomes.
18. Infective Endocarditis: Controversies and Convictions in the Surgical Treatment.
19. Early experience of direct-to-implant breast reconstruction using acellular dermal matrix after robot-assisted nipple-sparing mastectomy.
20. Indwelling Needle Puncture and Irrigation in the Conservative Treatment of Breast Abscess During Non-Lactation Period.
21. Functionalization of breast implants by cyclodextrin in-situ polymerization: a local drug delivery system for augmentation mammaplasty.
22. Infective Costochondritis after Augmentation Mammoplasty: A Rare Case Report and Review of the Literature.
23. Early Seroma Treatment Protocol Based on US-Guided Aspiration in DTI Prepectoral Reconstruction: A Prospective Study.
24. Comparative clinical outcomes of using three-dimensional and TIGR mesh in immediate breast reconstruction surgery for breast cancer patients.
25. Head-to-Head Analysis of Vertical vs Horizontal Incision Patterns in Breast Reconstruction: Surgical Outcomes and Aesthetic Implications.
26. Outcomes of Long Bones Treated With Carbon-Fiber Nails for Oncologic Indications: International Multi-institutional Study.
27. Technical and Clinical Differences Between Transgender and Cisgender Females Undergoing Breast Augmentation.

Mupirocin resistance

1. Antiseptics and mupirocin resistance in clinical, environmental, and colonizing coagulase negative Staphylococcus isolates.
2. Prevalence and Characterization of Staphylococcus aureus Isolated from Retail Raw Milk Samples in Chennai, India.
3. Genetic diversity of Staphylococcus aureus isolated from ear infections in Iran: Emergence of CC8/ST239-SCCmec III as major genotype.
4. Antibiotic hyper-resistance in a class I aminoacyl-tRNA synthetase with altered active site signature motif.
5. Identification of Vancomycin Resistance in Methicillin-resistant Staphylococcus aureus in two macaque species and decolonization and long-term prevention of recolonization in Cynomolgus Macaques (Macaca fascicularis).
6. Comparison of Disk Diffusion and Agar Dilution Method for the Detection of Mupirocin Resistance in Staphylococcal Isolates from Skin and Soft Tissue Infections.
7. Impact of Bundled Intervention on Outcomes of Patients Undergoing Clean Orthopedic Surgeries With Hardware Implants: Small Prospective Randomized Controlled Trial.
8. Efficacy of a Novel Antibacterial Agent Exeporfinium Chloride, (XF-73), Against Antibiotic-Resistant Bacteria in Mouse Superficial Skin Infection Models.
9. Antibiotic susceptibility and clonal distribution of Staphylococcus aureus from pediatric skin and soft tissue infections: 10-year trends in multicenter investigation in China.
10. Antimicrobial resistome of coagulase-negative staphylococci from nasotracheal cavities of nestlings of Ciconia ciconia in Southern Spain: Detection of mecC-SCCmec type-XI-carrying S. lentus.
11. Associated Outcomes of Different Intravenous Antibiotics Combined with 2% Mupirocin Ointment in the Treatment of Pediatric Patients with Staphylococcal Scalded Skin Syndrome.
12. Persistence of the Staphylococcus aureus epidemic European fusidic acid-resistant impetigo clone (EEFIC) in Belgium.
13. Baseline prevalence of antimicrobial resistance in patients who develop a surgical site infection in hip and knee replacements: A brief report.
14. Electrospun polyvinyl alcohol-chitosan dressing stimulates infected diabetic wound healing with combined reactive oxygen species scavenging and antibacterial abilities.
15. Harnessing the Dual Antimicrobial Mechanism of Action with Fe(8-Hydroxyquinoline)(3) to Develop a Topical Ointment for Mupirocin-Resistant MRSA Infections.
16. Antimicrobial profile of coagulase-negative staphylococcus isolates from categories of individuals at a neonatal intensive care unit of a tertiary hospital, Ghana.
17. Markers of epidemiological success of methicillin-resistant Staphylococcus aureus isolates in European populations.
18. A novel sacral neuromodulation protocol is associated with reduction in removal for device infection.
19. Exploiting Broad-Spectrum Chimeric Lysin to Cooperate with Mupirocin against Staphylococcus aureus-Induced Skin Infections and Delay the Development of Mupirocin Resistance.

Competitors

1. A protein-free vaccine stimulates innate immunity and protects against nosocomial pathogens.
2. Lupus Erythematosus Profundus with Multiple Overlying Cutaneous Ulcerations: A Rare Case.
3. Monoclonal antibodies neutralizing alpha-hemolysin, bicomponent leukocidins, and clumping factor A protected against Staphylococcus aureus-induced acute circulatory failure in a mechanically ventilated rabbit model of hyperdynamic septic shock.
4. Impact of vaccines on Staphylococcus aureus colonization: A systematic review and meta-analysis.
5. Invasive bacterial disease in young infants in rural Gambia: Population-based surveillance.
6. Structure and Function of the α-Hydroxylation Bimodule of the Mupirocin Polyketide Synthase.
7. Invasive Bacterial Infections in Children With Sickle Cell Disease: 2014-2019.
8. "You Sleep, You Die": A Rare Clinical Case of Ondine's Curse after Posterior Fossa Surgery.
9. The burden of antimicrobial resistance in the Americas in 2019: a cross-country systematic analysis.
10. Immunoproteomic analysis of the serum IgG response to cell wall-associated proteins of Staphylococcus aureus strains belonging to CC97 and CC151.
11. Guideline for allergological diagnosis of drug hypersensitivity reactions: S2k Guideline of the German Society for Allergology and Clinical Immunology (DGAKI) in cooperation with the German Dermatological Society (DDG), the Association of German Allergologists (ÄDA), the German Society for Pediatric Allergology (GPA), the German Contact Dermatitis Research Group (DKG), the German Society for Pneumology (DGP), the German Society of Otorhinolaryngology, Head and Neck Surgery, the Austrian Society of Allergology and Immunology (ÖGAI), the Austrian Society of Dermatology and Venereology (ÖGDV), the German Academy of Allergology and Environmental Medicine (DAAU), and the German Documentation Center for Severe Skin Reactions (dZh).
12. Topical antibiotics prophylaxis for infections of indwelling pleural/peritoneal catheters (TAP-IPC): A pilot study.
13. Designing a novel chimeric multi-epitope vaccine subunit against Staphylococcus argenteus through artificial intelligence approach integrating pan-genome analysis, in vitro identification, and immunogenicity profiling.
14. Formulation and Characterization of Mupirocin Nanomicelles in Insulin-Based Gel for Dermatological Application.
15. Incidence, associated burden of disease, and healthcare utilisation of prosthetic joint infections due to Staphylococcus aureus in European hospitals. The COMBACTE-NET ARTHR-IS multicentre study.
16. A systematic review on the excess health risk of antibiotic-resistant bloodstream infections for six key pathogens in Europe.
17. Reverse vaccinology & immunoinformatics approach to design a multiepitope vaccine (CV3Ag-antiMRSA) against methicillin resistant Staphylococcus aureus (MRSA) - a pathogen affecting both human and animal health.
18. Eluding the immune system's frontline defense: Secreted complement evasion factors of pathogenic Gram-positive cocci.

Economic News

Covid-19

1. Whole genome sequence-based characterization of virulence and antimicrobial resistance gene profiles of Staphylococcus aureus isolated from food poisoning incidents in eastern China.
2. Enhancing the Ag-loading capacity on Ti(3)C(2)T(x) sheets as hybrid fillers to form composite coatings with excellent antibacterial properties.
3. Past-expiration-date liquid disinfectants to deactivate biological and chemical toxins on building material surfaces.
4. Genome-wide CRISPR screens and their applications in infectious disease.
5. Effect of antibiotic prophylaxis in the prognosis of Post-neurosurgical meningitis patients.
6. Insight into the 4-nitrophenol reduction, supercapacitive behavior, and antimicrobial activity of ZnCo(2)O(4)-rGO nanocomposite fabricated by the simple reflux method.
7. Mercuric-sulphide based metallopharmaceutical formulation as an alternative therapeutic to combat viral and multidrug-resistant (MDR) bacterial infections.
8. Optimization and bio-fabrication of phyto-mediated silver nanoparticles (Ag-NPs) for antibacterial potential.
9. Anti-lung Cancer, Anti-microbial, Anti-α-glucosidase, Anti-sorbitol Dehydrogenase, and in silico Studies of Wogonoside and Isoliquiritigenin as Natural Compounds.
10. A comparative analysis of quantitative detection methods for viable food-borne pathogens using RT-qPCR and PMA-qPCR.
11. Antisense yycF and BMP-2 co-delivery gelatin methacryloyl and carboxymethyl chitosan hydrogel composite for infective bone defects regeneration.
12. TiO(2) loaded on glycidol functionalized poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) nanobiocomposite film for photocatalytic and antibacterial activities.
13. Staphylococcus aureus adapts to the immunometabolite itaconic acid by inducing acid and oxidative stress responses including S-bacillithiolations and S-itaconations.
14. Assessment and prediction of hexavalent chromium vulnerability in groundwater by Geochemical modelling, NOBLES Index and Random Forest Model.
15. Dual Surgical Setup Associated with Reduced Infection Recurrence for Hip and Knee Arthroplasty After Two-Stage Exchange.
16. The effect and mechanism of iodophors on the adhesion and virulence of Staphylococcus aureus biofilms attached to artificial joint materials.
17. Bacterial contamination of healthcare workers' mobile phones in Africa: a systematic review and meta-analysis.
18. Agarose fibers with glycerol and graphene oxide and functional properties for potential application in biomaterials.
19. Porphyrin-based covalent organic polymers with customizable photoresponses for photodynamic inactivation of bacteria.
20. An experimental setup and segmentation method for CFU counting on agar plate for the assessment of drinking water.
21. Targeting Dalbavancin Inoculum Effect: Adjunctive Single Dose of Daptomycin.
22. Analysis of Antibacterial Efficacy and Cellular Alignment Regulation on Plasma Nanotextured Chitosan Surfaces.
23. Preparation and Application of High-Efficiency, Antibacterial, and Antiviral PET-PTHP Fibers.
24. Gold Nanoparticles Capped with a Novel Titanium(IV)-Containing Polyoxomolybdate Cluster: Selective and Enhanced Bactericidal Effect Against Escherichia coli.
25. Echinacoside, a promising sortase A inhibitor, combined with vancomycin against murine models of MRSA-induced pneumonia.
26. Clinical Staphylococcus aureus inhibits human T-cell activity through interaction with the PD-1 receptor.
27. Executive Summary: Periprosthetic Joint Infection-Current Clinical Challenges.
28. Staphylococcus aureus delta toxin modulates both extracellular membrane vesicle biogenesis and amyloid formation.
29. Synthesis of quercetin-iron (Fe) complex and its in silico and in vitro confirmation towards antibacterial activity.
30. Antimicrobial and anti-inflammatory activity of Terminalia arjuna.
31. Synovial fluid and plasma concentrations of tedizolid in patients with osteoarthritis infected with Staphylococcus aureus effectively determined with fluorescence detection.
32. Diversity of endophytic fungi isolated from the bark of Ceiba pentandra (L.) Gaertn., (Bombacaceae) and antibacterial potential of secalonic acid A produced by Diaporthe searlei EC 321.
33. Common pathogenic bacteria-induced reprogramming of the host proteinogenic amino acids metabolism.
34. Biomaterial composed of chitosan, riboflavin, and hydroxyapatite for bone tissue regeneration.
35. Whole genomic sequencing of Staphylococcus aureus strain RMI-014804 isolated from pulmonary patient sputum via next-generation sequencing technology.
36. Synthesis and Staphylococcus aureus biofilm inhibitory activity of indolenine-substituted pyrazole and pyrimido[1,2-b]indazole derivatives.
37. Enhanced Antimicrobial Screening Sensitivity Enabled the Identification of an Ultrashort Peptide KR-8 for Engineering of LL-37mini to Combat Drug-Resistant Pathogens.
38. Regulatory T cells control Staphylococcus aureus and disease severity of cutaneous leishmaniasis.
39. [Bacterial infections of the skin in the context of climate change and migration].
40. Mechanical and antibacterial properties of hybrid polymers composite reinforcement for Biomedical Applications.
41. Spectroscopic characterization, molecular docking and machine learning studies of sulphur containing hydrazide derivatives.
42. Amelioration of Subglottic Stenosis by Antimicrobial Peptide Eluting Endotracheal Tubes.
43. Unveiling a novel terpolymer-metal complex: A detailed exploration of synthesis, characterization, and its potential as an antimicrobial and antioxidant agent.
44. Anti-methicillin-resistant Staphylococcus aureus and antibiofilm activity of new peptides produced by a Brevibacillus strain.
45. Exploring Antibacterial Properties of Bioactive Compounds Isolated from Streptomyces sp. in Bamboo Rhizosphere Soil.
46. Tissierella praeacuta Bacteremia Associated With Acute on Chronic Osteomyelitis: A Case Report.
47. Synthesis, in silico and in vitro antimicrobial efficacy of substituted arylidene-based quinazolin-4(3H)-one motifs.
48. β-Glucosidase activity and antimicrobial properties of potentially probiotic autochthonous lactic cultures.
49. Facile synthesis of CuONPs using Citrus limon juice for enhancing antibacterial activity against methicillin-resistant Staphylococcus aureus, beta-lactamase and tetracycline-resistant Escherichia coli.
50. Biofabrication of Silver Nanoparticles Using Nostoc muscorum Lukesova 2/91: Optimization, Characterization, and Biological Applications.
51. The burden of hospital acquired infections and antimicrobial resistance.
52. A Novel Brevinin2 HYba5 Peptide against Polymicrobial Biofilm of Staphylococcus aureus and Enterococcus faecalis.
53. Conductive and antibacterial dual-network hydrogel for soft bioelectronics.
54. Chromone-isoxazole hybrids molecules: synthesis, spectroscopic, MEDT, ELF, antibacterial, ADME-Tox, molecular docking and MD simulation investigations.
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59. Bloodstream infections in neutropenic and non-neutropenic patients with haematological malignancies: epidemiological trends and clinical outcomes in Queensland, Australia over the last 20 years.
60. Probing Bacterial Cell Division and Cell Envelope Biogenesis with Live-Cell Fluorescence Microscopy.
61. Tracking Cell Wall-Anchored Proteins in Gram-Positive Bacteria.
62. Risk factors for pre-transplantation bacteremia in adults with end-stage liver disease: Effects on outcomes of liver transplantation.
63. Investigation of the antimicrobial, antioxidant, hemolytic, and thrombolytic activities of Camellia sinensis, Thymus vulgaris, and Zanthoxylum armatum ethanolic and methanolic extracts.
64. STITCH enabled molecular interaction of glycrhizzin with peri-implant microbiota.
65. STITCH enabled protein-protein interactions between Phyllanthus emblica and peri-implant microbiome.
66. Activation of multiple stress responses in Staphylococcus aureus substantially lowers the minimal inhibitory concentration when combining two novel antibiotic drug candidates.
67. An increase in erythromycin resistance in methicillin-susceptible Staphylococcus aureus from blood correlates with the use of macrolide/lincosamide/streptogramin antibiotics. EARS-Net Spain (2004-2020).
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69. Reduction of the microbial load in meat maturation rooms with and without alkaline electrolyzed water fumigation.
70. ETIOLOGIES OF INFECTIONS IN DIABETIC PATIENTS HOSPITALIZED AT BOUAKE UNIVERTY TEACHING HOSPITAL, CÔTE D'IVOIRE.
71. Ethnic endotypes in pediatric atopic dermatitis depend on immunotype, lipid composition, and microbiota of the skin.
72. Chemical extraction, characterization, and inspection of the antimicrobial and antibiofilm activities of shrimp chitosan against foodborne fungi and bacteria.
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75. Avoiding misclassification of acute kidney injury: Timing is everything.
76. Chemical composition and antimicrobial activity of essential oil from Popowia pisocarpa (Bl.) Endl., Walp. Repert. (Annonaceae).
77. The secreted tyrosine phosphatase PtpA promotes Staphylococcus aureus survival in RAW 264.7 macrophages through decrease of the SUMOylation host response.
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81. Real-time in vivo monitoring of the antimicrobial action of combination therapies in the management of infected topical wounds.
82. Advantages of agarose on alginate for the preparation of polysaccharide/hydroxyapatite porous bone scaffolds compatible with a proline-rich antimicrobial peptide.
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85. A smartphone-based fluorescent sensor for rapid detection of multiple pathogenic bacteria.
86. Correction to: A longitudinal census of the bacterial community in raw milk correlated with Staphylococcus aureus clinical mastitis infections in dairy cattle.
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88. Efficacy of boric acid used to treat experimental vascular graft infection by methicillin-resistant Staphylococcus aureus.
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90. Biochemical and Cellular Characterization of the Function of Fluorophosphonate-Binding Hydrolase H (FphH) in Staphylococcus aureus Support a Role in Bacterial Stress Response.
91. Nucleic acid strand displacement for indirect determination of foodborne bacteria by capillary electrophoresis and its application in antagonism and bacteriostasis studies.
92. The cytocompatibility of graphene oxide as a platform to enhance the effectiveness and safety of silver nanoparticles through in vitro studies.
93. The Mg doping ZIF-8 loaded with Icariin and its antibacterial and osteogenic performances.

Other news of possible interest