**XF-73 Nasal Literature Review**

**Period: 24/01/2025 – 24/02/2025**

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Scientific Highlights

1. Heterogeneity in preoperative Staphylococcus aureus screening and decolonization strategies among healthcare institutions.
2. Computational and in vitro evaluation of probiotic treatments for nasal Staphylococcus aureus decolonization.
3. Use of standardized nasal and skin decolonization to reduce rates of bacteremia in patients undergoing extracorporeal membrane oxygenation.
4. Staphylococcus aureus colonization and surgical site infections among patients undergoing surgical fixation for acute fractures.
5. Efficacy of Staphylococcus aureus nasal decolonization at hospital admission on reduction of any infections within 90 days - a systematic review and meta-analysis.
6. Implementing intranasal povidone-iodine in the orthopedic trauma surgery setting to prevent surgical site infections: a qualitative study of healthcare provider perspectives.

SA Decolonisation

1. Deep Neck Infections: The Effectiveness of Therapeutic Management and Bacteriological Profile.
2. Characterization and Probiotic Potential of Levilactobacillus brevis DPL5: A Novel Strain Isolated from Human Breast Milk with Antimicrobial Properties Against Biofilm-Forming Staphylococcus aureus.
3. Chronic Cough, Dyspnea, and a Novel CCDC39 Variant: A Case Report of Heterotaxy Syndrome Without Cardiac Anomalies and Associated Primary Ciliary Dyskinesia.
4. Association between biosecurity and zoonotic transmission of LA-MRSA CC398 from industrial pig farms to farm workers and their household members.
5. Streptococcal Toxic Shock Syndrome (STSS) Secondary to Monoarticular Septic Arthritis Leading to Multiorgan Failure in a Patient without Underlying Comorbidities: Emphasizing Early Diagnosis and Management Strategies.
6. Occurrence of Staphylococcus aureus, Staphylococcus epidermidis, and Staphylococcus pseudintermedius colonization among veterinarians in the province of Malaga, Spain.
7. Synergistic effects of zP-1 phage and ampicillin against methicillin-resistant Staphylococcus aureus isolated from hospital staff.
8. Colonization of methicillin-resistant Staphylococcus aureus and vancomycin-resistant Enterococci and its associated factors in cancer patients at the University of Gondar Comprehensive Specialized Hospital, Northwest Ethiopia.
9. Publisher Correction: Nasal carriage of MRSA among clinically affiliated undergraduate students at the College of Health and Medical Sciences, Haramaya University, Ethiopia.
10. An Infected Dog Bite With Neisseria animaloris and Neisseria canis Causing Compartment Syndrome, Necrotizing Fasciitis and Gas Gangrene: A Case Report and Review of the Literature.
11. Prevalence of Nasal Staphylococcus aureus Carriage in Patients Undergoing Hemodialysis and Assessment of Risk Factors: A Cross-Sectional Study of Outpatients at a University Hospital.
12. Distribution of sasX, mupA, and qacA/B genes and determination of genetic relatedness of epidemic methicillin-resistant Staphylococcus aureus strains associated with bloodstream infections in southern China.
13. Molecular Characterization of Methicillin-Resistant Staphylococcus aureus: Dissemination of Multidrug-Resistant Community-Associated MRSA and Emergence of LA-MRSA, in a healthcare setting.
14. Cerebral Venous Thrombosis as an Initial Presentation of Streptococcal Parameningeal Infection: A Diagnostic Conundrum (P5-5.003).

SA / MRSA Colonisation / Infection

1. Risk factors for Staphylococcus aureus colonization in a general emergency department patient cohort - results of an observational cohort study.
2. Cold-Spray Deposition of Antibacterial Molybdenum Coatings on Poly(dimethylsiloxane).
3. Photodynamic and photothermal bacteria targeting nanosystems for synergistically combating bacteria and biofilms.
4. Highly effective treatment of bacterial infection-accompanied wounds by fat extract-embedded phototherapeutic hydrogel.
5. Cranioplasty infection in porous hydroxyapatite: Potential antibacterial properties.
6. A multimodal approach to reduce the incidence of peripheral venous cannula bacteraemias and improve patient safety.
7. Acylase-Based Coatings on Sandblasted Polydimethylsiloxane-Based Materials for Antimicrobial Applications.
8. Antistaphylococcal Triazole-Based Molecular Hybrids: Design, Synthesis and Activity.
9. Therapeutic Drug Monitoring-Guided Linezolid Therapy for the Treatment of Multiple Staphylococcal Brain Abscesses in a 3-Month-Old Infant.
10. Interdigital and Plantar Foot Infections: A Retrospective Analysis of Molecularly Diagnosed Specimens in the United States and a Literature Review.
11. Skin Microbiota: Mediator of Interactions Between Metabolic Disorders and Cutaneous Health and Disease.
12. Implementation of 2% Chlorhexidine Bathing to Reduce Healthcare-Associated Infections Among Patients in the Intensive Care Unit.
13. From Cure to Crisis: Understanding the Evolution of Antibiotic-Resistant Bacteria in Human Microbiota.
14. Determination of Pathogens in Surgical Site Infections in Ankle Fractures and Implications for Empirical Antibiotic Treatment.
15. Distinct relative abundances in pathogens detected in mechanically ventilated patients with suspected pneumonia in the intensive care unit at King Abdulaziz University Hospital.
16. Catheter-Based Aspiration of A Large Superior Vena Cava Mass In A Patient With Endocarditis.
17. Carboxylated cellulose nanocrystals mediated flower-like zinc oxide for antimicrobial without activation of light.
18. Enhanced electrical conductivity and antibacterial properties of bacterial cellulose composite membrane decorated with hydroxypropyl-β-cyclodextrin/magnetic particle/alpha-lipoic acid/nano silver.
19. Infected pseudoaneurysm caused by suture-mediated vascular closure after ablation of atrial fibrillation: A case report.
20. The Use of Antibiotics Impregnated Bone Cement in Reducing Surgical Site Infections in Spine Surgery: A Systematic Review.
21. Staphylococcus aureus blocks host autophagy through circSyk/miR-5106/Sik3 axis to promote progression of bone infection.
22. Shooter's Abscess: Foot Infections in People Who Inject Drugs.
23. Engineered bacillus subtilis enhances bone regeneration via immunoregulation and anti-Infection.
24. The Antimicrobial Activity of Zinc Oxide Nanoparticles incorporated into Alginate Impression Material: An In vitro Study.
25. Functionally enriched human polymorphisms associate to species in the chronic wound microbiome.
26. Changes in incidence and epidemiology of antimicrobial resistant pathogens before and during the COVID-19 pandemic in Germany, 2015-2022.
27. Ultrasound-triggered release of vancomycin from a novel spinal device: Antibiotic release and efficacy in vivo.
28. A novel polysaccharide in the envelope of S. aureus influences the septal secretion of preproteins with a YSIRK/GXXS motif.
29. Bacterial surgical site infections: prevalence, antimicrobial susceptibility patterns, and associated risk factors among patients at Bule Hora University Teaching Hospital, Southern Ethiopia.
30. Ultrasound-Guided Diagnosis and Percutaneous Drainage in Subacute Necrotizing Fasciitis of the Lower Extremities: A Report of Two Cases.
31. Antibiotic susceptibility and molecular characterization based on whole-genome sequencing of Staphylococcus aureus causing invasive infection in children and women living in Southwest China during 2018-2023.
32. Infective endocarditis following transcatheter mitral valve-in-valve replacement: a clinical case report.
33. Changing dynamics of bloodstream infections due to methicillin-resistant Staphylococcus aureus and vancomycin-resistant Enterococcus faecium in Germany, 2017-2023: a continued burden of disease approach.
34. Surgical Site Infection Arising from the Operating Room.
35. Recurrence of skin and soft tissue infections: identifying risk factors and treatment strategies.
36. Concurrent presence of Staphylococcal Cassette Chromosome mec types of Meticillin-Resistant Staphylococcus aureus in hospital environments and post-operative patients at a hospital in Kathmandu, Nepal.
37. Management of Ankle Fracture Wounds Using Urinary Bladder Matrix: A Case Report.
38. Modeling and simulation of distribution and drug resistance of major pathogens in patients with respiratory system infections.
39. Maxillary MRSA osteomyelitis in a paediatric patient: non-surgical management.
40. Zn-doped CaP coating equips Ti implants with corrosion resistance, biomineralization, antibacterial and immunotolerant activities.
41. Evidence that staphylococcal superantigens promote within-patient bacterial persistence following post-operative surgical site infection.
42. [Effects of Chlorhexidine Gluconate Bathing Applied to Cancer Patients on MRSA and VRE Colonization: A Cross-Over Design Study].
43. Staphylococcus lugdunensis does not exert competitive exclusion on human corneocytes.
44. Oral antibiotic prophylaxis induces changes in the microbiology of surgical site infection after colorectal surgery. A matched comparative study.
45. Epidemiology of Methicillin-resistant Staphylococcus aureus Colonization in Neonates within Neonatal Intensive Care Units: A Systematic Review and Meta-analysis.
46. Analysis of antimicrobial resistance and clinical features of Staphylococcus aureus-infected bone and joint infections in children.
47. Transcatheter aortic valve implantation: Association between skin flora and infective endocarditis?
48. Curcumin-laden hydrogel coating medical device for periprosthetic joint infection prevention and control.
49. Enhanced penetration and biofilm eradication by sophorolipid micelles encapsulating Honokiol: a comprehensive solution for biofilm-associated lung infections.
50. A Case of Pulmonary Artery Endarteritis With Patent Ductus Arteriosus.
51. Localized propranolol delivery from a copper-loaded hydrogel for enhancing infected burn wound healing via adrenergic β-receptor blockade.
52. Microbiological Profile and Outcome of Surgical Site Infections Following Orthopedic Surgeries in a Tertiary Care Hospital.
53. Diagnosis of Genital Tuberculosis Unveiled by Utero-Cutaneous Fistula and Superimposed MRSA Infection: A Case Report.
54. Real-time multimodal imaging of daptomycin action on the cell wall of adherent Staphylococcus aureus.
55. Antibiotic susceptibility of pathogens isolated in respiratory tract samples of recently hospitalized patients.
56. Molecular investigation of Staphylococcus aureus isolated from inanimate surfaces in Jordanian hospitals.
57. Antibacterial and antibiofilm efficacy of quercetin against Pseudomonas aeruginosa and methicillin resistant Staphylococcus aureus associated with ICU infections.
58. Staphylococcus aureus induces mitophagy via the HDAC11/IL10 pathway to sustain intracellular survival.
59. Copper strontium phosphate glasses with high antimicrobial efficacy.
60. Mucoid Staphylococcus aureus - Prevalence and Association with Lung Function in People with Cystic Fibrosis.
61. Structural characteristics, functions, and counteracting strategies of biofilms in Staphylococcus aureus.
62. Clinical and epidemiological differences in staphylococcal osteoarticular infections: insights for developing hospital-based infection control interventions.
63. Methicillin-resistant Staphylococcus epidermidis knee prosthetic infection treatment with two-stage revision and fosfomycin-rifampin combination therapy: a case report.
64. Infective Native Aortic and Iliac Artery Aneurysms: Clinical Profiles and Short-Term Outcomes from a Single-Center Cohort.
65. Bacterial species with different nanocolony morphologies have distinct flow-dependent colonization behaviors.
66. Prevalence and molecular detection of mecA and lukD genes from livestock-associated methicillin-resistant Staphylococcus aureus isolated in raw chicken meats sold in Abakaliki, Nigeria.
67. Development of a tri-species wound model for studying fungal-bacterial interactions and antimicrobial therapies.
68. Mussel-Inspired In Situ Photodynamic Antibacterial Coating for Postoperative Management of Artificial Corneas.
69. Seasonal Trends and Antibiotic Resistance Profiles of Bacterial Pathogens in Indian Clinical Isolates.
70. Analysis of the dynamics of transition from non-colonization to colonization and Staphylococcus aureus bacteremia in hemodialysis patients using Markov models.
71. Microbial Colonization and Associated Factors in Indwelling Urinary Catheters: A Cross-Sectional Study.
72. Isolated Pulmonary Valve Infective Endocarditis With Persistent Staphylococcus aureus Bacteremia and Rapid Clearance With Ertapenem Plus Cefazolin.
73. Linezolid versus Vancomycin in vitro Activity Against Methicillin-resistant Staphylococcus aureus Biofilms.
74. Engineered Nanovesicles for the Precise and Noninvasive Treatment of Deep Osteomyelitis Caused by MRSA Infection with Enhanced Immune Response.
75. Successful Bailout of Intraoperative External Iliac Artery Rupture by Aorto-Uni-Iliac Stent Grafting and Femoral-Femoral Crossover Bypass in a Patient With a Giant Common Iliac Artery Aneurysm.
76. The Influence of Basil and Cinnamon Essential Oils on Bioactive Sponge Composites of Collagen Reinforced with Hydroxyapatite.
77. Airway Colonization in Children with Medical Complexity: Challenges and Management Strategies.
78. Risk of Postoperative Infection in Total Knee Arthroplasty Patients with Preoperative Methicillin-Resistant Staphylococcus aureus (MRSA) Colonization.
79. Anti-Methicillin-Resistant Staphylococcus aureus Efficacy of Layer-by-Layer Silver Nanoparticle/Polyacrylic Acid-Coated Titanium Using an In-House Dip Coater.
80. Genomic characterization of healthcare-associated ST5 MRSA causing severe pseudomembranous enteritis in intensive care unit.
81. The Possible Role of Biofilm Formation in Recidivism of Cholesteatomatous and Noncholesteatomatous Chronic Suppurative Otitis Media.
82. Development of Curcumin Encapsulated Liposomes in Chlorhexidine-Loaded Organogel Using Ternary Phase Systems for Treatment of Omphalitis in Infants.
83. The impact of infectious diseases department on the incidence of hospital-onset bacteremia and fungemia at a tertiary care center: a retrospective cohort study.
84. Increased rates of periprosthetic joint infection following hip hemiarthroplasty with clindamycin prophylaxis compared to cefazolin.
85. Low temperature storage leads to advanced upregulation of typical virulence regulators, pyk and purR of enterotoxigenic Staphylococcus aureus cultured on chicken meat.
86. Oral colonization of antimicrobial-resistant bacteria in home health care participants and their association with oral and systemic status.
87. Dalbavancin Use in Bone and Joint Infections.
88. Advanced One-Pot RPA-CRISPR/Cas12a Reaction with Glycerol and Betaine for High-Sensitivity Diagnosis of mecA-Carrying Strains in Clinical Samples.
89. Antimicrobial Resistance Surveillance of Skin and Soft Tissue Infections: Hospital-Wide Bacterial Species and Antibiograms to Inform Management at a Zonal Tertiary Hospital in Mwanza, Tanzania.
90. A novel strategy for eradication of staphylococcal biofilms using blood clots.
91. Ablation of the deubiquitinating enzyme cylindromatosis (CYLD) augments STAT1-mediated M1 macrophage polarization and fosters Staphylococcus aureus control.
92. Trends in Antimicrobial Resistance of Staphylococcus aureus Uropathogens: A Retrospective Study From Duhok Province, Kurdistan Region, Iraq.
93. Primary Pyogenic Abscess in an Immunocompetent Child: An Indian Perspective.
94. World Health Organization priority antimicrobial resistance in Enterobacterales, Acinetobacter baumannii, Pseudomonas aeruginosa, Staphylococcus aureus and Enterococcus faecium healthcare-associated bloodstream infections in Brazil (ASCENSION): a prospective, multicentre, observational study.
95. Innovative dual-contrast nanocoating for central venous catheters: prolonged infection resistance and enhanced imaging.
96. Association of opportunistic bacterial pathogens with female infertility: A case-control study.
97. Quaternary Ammonization Treatment Enhances the Antifouling Activities of Capsaicin-Based Polybenzoxazine Coatings.
98. Inferring Staphylococcus aureus host species and cross-species transmission from a genome-based model.
99. ADME/Tox study and the effect of β-Caryophyllene on the resistant strain of Staphylococcus aureus carrying the QacA/B efflux pump gene.
100. Design of acidic activation-responsive charge-switchable carbon dots and validation of their antimicrobial activity.
101. Evaluation of hydrogel loading with curcumin and silver nanoparticles: biocompatibilities and anti-biofilm activities.
102. Septic pulmonary embolism associated with Staphylococcus aureus: case series and review of the literature.
103. Contaminated faucets and sinks as a reservoir for antibiotic-resistant bacterial transmission in healthcare settings.
104. Methicillin-resistant Staphylococcus aureus with Panton-Valentine leukocidin gene from a pediatric hospital in Morocco.
105. Prevalence, genotyping, and molecular relatedness of methicillin-resistant Staphylococcus aureus isolated from tertiary care hospitals in Jeddah, Saudi Arabia.
106. Nosocomial Pneumonia in Georgia: A Focus on Gram-Positive Bacteria and Antimicrobial Resistance.
107. Effectiveness and Tolerability of an Emollient "Plus" Compared to Urea 10% in Patients With Mild-to-Moderate Atopic Dermatitis.
108. Prevalence of Methicillin-Resistant Staphylococcus aureus in Livestock in Japan: A Systematic Review and Meta-Analysis.
109. Interferon-gamma receptor signaling regulates innate immunity during Staphylococcus aureus craniotomy infection.
110. Antimicrobial resistance patterns of WHO priority pathogens at general hospital in Southern Ethiopia during the COVID-19 pandemic, with particular reference to ESKAPE-group isolates of surgical site infections.
111. A nine-year retrospective study of bacterial epidemiology and culture optimization in four orthopaedic surgery departments.
112. Staphylococcal SplA and SplB serine proteases target ubiquitin(-like) specific proteases.

Guidelines / Prevention Practice

1. How Often Is Rifampin Therapy Initiated and Completed in Patients With Periprosthetic Joint Infections?
2. Nurses' knowledge and its determinants in surgical site infection prevention: A comprehensive systematic review and meta-analysis.
3. Global guideline for the diagnosis and management of candidiasis: an initiative of the ECMM in cooperation with ISHAM and ASM.

Breast Surgery

1. Necrotizing fasciitis of the breast in a breastfeeding mother: A case report.
2. The Use of Acellular Dermal Matrix May Not Increase 30-Day Complications in Direct-to-Implant Breast Reconstruction: A Multi-institutional Analysis of 10,177 Cases.
3. Comparative Postoperative Complications of Acellular Dermal Matrix and Mesh Use in Prepectoral and Subpectoral One-Stage Direct to Implant Reconstruction: A Retrospective Cohort Study.
4. Reducing Postbreast Reconstruction Infection Rates: Our Journey to Achieving Low Postoperative Infection Outcomes.
5. Relationship between mucin gene polymorphisms and different types of gallbladder stones.
6. Management of Idiopathic Granulomatous Mastitis: Effectiveness of a Steroid-Free Regimen Using Tinospora cordifolia-A Single-Institution Experience.
7. Synthesis, antibacterial and anticancer activity of azo-based and aminomethylene derivatives of cyclic β-keto sulfones.
8. Taenia saginata infection: A rare case of jejunal perforations from Ethiopia: A case report.
9. The Modified Frailty Index Predicts Outcomes in Immediate Implant-Based Breast Reconstruction.
10. Clinical benefits of the 5th intercostal incision in uniportal VATS for female patients.
11. Monitoring and Management of Infection following Prepectoral Implant-based Breast Reconstruction: Retrospective Analysis of Conservative Treatment Versus Implant Removal.
12. Medial sural artery perforator free flap for small- to medium-sized defects in head and neck reconstruction: a suitable replacement for radial forearm free flap.
13. Tranexamic Acid in Breast Surgery - A Systematic Review and Meta-Analysis.
14. Neisseria weaveri: Atypical Infection in Breast Implant-Based Reconstruction.
15. The effect of prophylactic antibiotics on second-stage breast reconstruction: A retrospective analysis.
16. Shifting the paradigm on tissue removal and postoperative complications in breast reduction: A systematic review and meta-analysis.
17. Efficacy of Mesh Use in Breast Surgery: A Comprehensive Review of Complications and Aesthetic Outcomes.
18. Impact of subcutaneous tunnel length on infection risk in tunneled PICCs: a study in cancer patient.
19. MRI-Conditional Tissue Expanders in Breast Reconstruction: Clinical Outcomes and Radiation Therapy Implications.
20. When a sore throat turns into deadly multiple serous cavity effusions: the role of Prevotella oris in rapidly progressing infection-a case report.
21. Robot-Assisted Versus Conventional Harvesting of DIEP and Latissimus Dorsi Flaps for Breast Reconstruction in Post-Mastectomy Women: A Systematic Review and Meta-Analysis.
22. Switching to Tumescent Dissection in Mastectomy.
23. Stabilization of Microsurgical Anastomosis Using Fat-piece Graft With Autologous Fibrin Glue in Autologous Breast Reconstruction.
24. Castleman disease complicated by rheumatoid arthritis and postoperative chylous leakage: A case report.
25. Impact of COVID-19 on Thrombotic Complications in Microsurgery: Deep Inferior Epigastric Perforator Flap Outcomes Amid Pandemic.
26. Symptomatic malignant ascites drainage with a patient-controlled vascular catheter: interim analysis of safety and patient-reported outcomes.
27. New surgical approach for buried penis with partial release of the penile suspensory system associated with fat transfer and suprapubic retraction.
28. Granulomatous mastitis a little known pathology in plastic surgery: Case report and literature review.
29. Galactocele Following Aesthetic Breast Augmentation: Diagnosis, Management, and Prevention.
30. Application of chest wall perforator flaps in oncoplastic breast-conserving surgery.

Mupirocin resistance

1. Epsilon-polylysine microneedle potentiating MXene-mediated photothermal ablation for combating antibiotic-resistant bacterial infections.

Competitors

1. NIAID Workshop Report: Systematic Approaches for ESKAPE Bacteria Antigen Discovery.
2. Antibiotic Resistance of Staphylococcus aureus Strains-Searching for New Antimicrobial Agents-Review.
3. Ribosome pausing in amylase producing Bacillus subtilis during long fermentation.
4. How likely is it that a virus or bacteria is causing a patient's symptoms? A new approach to interpret the outcome from multi-pathogen PCR.
5. Commentary on Abernathy-Close et al: Study on Mupirocin Treatment in Cutaneous Lupus Erythematosus.
6. Evaluation of the safety and immune protection of OMPAC, PAPF, and EBPSs recombinant subunit vaccines Developed for Escherichia coli, Staphylococcus aureus, and Streptococcus agalactiae in mice.
7. Oral care methods to reduce salivary bacteria in infants undergoing cardiac surgery: A randomized controlled trial.
8. Discovery of viruses and bacteria associated with swine respiratory disease on farms at a nationwide scale in China using metatranscriptomic and metagenomic sequencing.
9. Innovative epitopes in Staphylococcal Protein-A an immuno-informatics approach to combat MDR-MRSA infections.
10. Quorum Sensing Coordinates Carbon and Nitrogen Metabolism to Optimize Public Goods Production in Pseudomonas fluorescens 2P24.
11. Nasopharyngeal Carriage and Antibiotic Resistance in Children With Sickle Cell Disease: The DREPANOBACT French Multicenter Prospective Study.
12. Complete genome sequence of the Staphylococcus aureus NCCP 11854 isolated from a food-poisoning patient in the Republic of Korea.
13. Global insights into MRSA bacteremia: a bibliometric analysis and future outlook.
14. Killed whole-cell Staphylococcus aureus formulation in Montanide ISA266 and Alum adjuvants: different vaccine formulations varied in the vaccine's potency and efficacy.
15. Proline isomerization modulates the bacterial IsdB/hemoglobin interaction: an atomic force spectroscopy study.
16. Protection of Mice Vaccinated with a New B Cell and T Cell Epitopes Cocktail from Staphylococcus aureus Challenge in Skin Infection Model.
17. Statistical documentation for multi-disease, multi-domain platform trials: our experience with the Staphylococcus aureus Network Adaptive Platform trial.
18. Antimicrobial Blue Light Reduces Human-Wound Pathogens' Resistance to Tetracycline-Class Antibiotics in Biofilms.
19. Assessment of Anticancer and Antimicrobial Potential of Bioactive Metabolites and Optimization of Culture Conditions of Pseudomonas aurantiaca PB-St2 for High Yields.
20. Early cytokine signatures and clinical phenotypes discriminate persistent from resolving MRSA bacteremia.
21. Mastitis-related Staphylococcus aureus-derived extracellular vesicles induce a pro-inflammatory response in bovine monocyte-derived macrophages.
22. Virtual Screening and Identification of Novel Oxindole Derivatives as Potential Antimicrobial Agents.
23. Assessment of the prevalence of respiratory pathogens and the level of immunity to respiratory viruses in soldiers and civilian military employees in Poland.
24. Staphylococcus aureus-specific TIGIT(+) Treg are present in the blood of healthy subjects - a hurdle for vaccination?