

# HIV/AIDS, STDs and STIs

October 03-05, 2016 Orlando, Florida, USA

## Colonization by *Staphylococcus aureus* among nursing professionals who care for people with HIV/AIDS

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People with HIV/AIDS (PLWH) with a compromised immunity and high number of admissions with prolonged use of antimicrobials they are favorable to colonization by numerous microorganisms in the hospital environment, including *Staphylococcus aureus*. Health professionals, especially nursing professionals during direct contact with these patients, objects and surfaces, constitute a class susceptible to colonization by resistant pathogens. The aim to study was to evaluate the colonization by *Staphylococcus aureus* in saliva and nasal secretion of nursing professionals who care for PLWH. Cross-sectional study conducted in five inpatient units in state of São Paulo in Brazil. Saliva samples and nasal secretions were obtained from nursing professionals in three stages in the period from April 2014 to February 2015. The nasal secretion samples collected were processed in the institution's microbiology laboratory. All ethical aspects were included. 100 nursing professionals are participated in the study (19 registered nursing, 22 nursing technicians and 59 nursing assistants). The clinical experience was mean 12.9 (SD±7.6) years. We identified 43 (43.0%) nursing professionals with positive cultures to *Staphylococcus aureus* in the saliva and/or nasal secretions; of these 36 (36.0%) were oxacillin-sensitive *Staphylococcus aureus* and seven (7.0%) to oxacillin-resistant *Staphylococcus aureus*. Regarding to training about standard precautions 91 (91.0%) of the professionals nurses received training. The prevalence of the *Staphylococcus aureus* in the nasal secretion was 32.0% and saliva 1.0% and both were 10.0%. The training about standard precautions is a measure, essential in preventing the risk of the colonization of these microorganism and infection control.

### Biography

Lilian Andreia Fleck Reinato has completed his Master's degree in 2012 from University of São Paulo at Ribeirão Preto College of Nursing. She is currently a Doctoral student, and a Member from research group STI, HIV and AIDS since 2010.

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