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## MICROBIAL CONTAMINATION OF ENVIRONMENTAL SAMPLES FROM THE REGIONAL HOSPITAL OF KORCA, ALBANIA

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**Statement of the problem:** Nosocomial infections are a major world public health problem. Infectious agents transmitted during healthcare derive primarily from human sources but inanimate environmental sources also are implicated in transmission. The purpose of this study is to estimate the microbiological pollution levels of samples taken from the environments of the Regional Hospital of Korca, Albania.

**Methodology & Theoretical Orientation:** This is a study of the potential bacterial reservoirs in the Hospital of Korca. A total of 1701 samples were taken from different wards of the hospital. 316 samples were taken from the sterilized materials, 184 samples from the laundries, 238 samples from the healthcare workers, 640 samples from the surfaces, 135 samples from air and 188 samples from the systems of intubation-aspiration-oxygen. The samples were cultured in Blood and Sabouraud agar. The microbial identification was done with microscopy after Gram coloration, colonies morphology and biochemistry.

**Findings:** Resulted positive for microbial contamination 30 (9.5%) of samples taken from the sterilized materials, 56 (30.4%) of samples from the laundries, 79 (33.2%) of samples from healthcare workers, 174 (27.2%) of samples from the surfaces, 8(5.9%) of samples from air and 46 (24.5%) of samples from the systems of intubation-aspiration-oxygen.

**Conclusion & Significance:** Samples with higher percentage of microbial contamination resulted from the samples of health care workers.

**Recommendations:** Health care workers must be sensitized on public health risk of nosocomial infections associated with their contaminated hands, clothing and nose-throat.

### Biography

Zhinzela Qyli has completed the Faculty of Medicine and specialization in Microbiology in the University of Tirana, Albania. She is lecture in the Nursing Department of Fan S Noli University, Korca and is following the doctoral school in the Faculty of Technical Medical Sciences, University of Medicine, Tirana, Albania.

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