



# *Stenotrophomonas maltophilia* Infections and Controls In Intensive Care Unit

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## Introduction

- ❖ *S. maltophilia* known as opportunistic pathogen but now a days it is an emerging nosocomial pathogen
- ❖ In this study, we report the identification of the *S. maltophilia* infections in the intensive care unit (ICU) and how we take precaution for this infections

## Materials-Method

- ❖ There are total 24 beds in two separate ICU's in the Near East University Hospital which reside in the Turkish Republic of North Cyprus
- ❖ In last three days, six *S. maltophilia* strains were isolated from ICU's patients, therefore we started a surveillance study for a possible hospital infection outbreak
- ❖ We took the control culture in the medical device which the ICU's patients used for the respiratory apparatus
- ❖ We used the %5 sheep blood agar and EMB agar for the culture
- ❖ Incubation in 37 °C in 24-48 hours
- ❖ We used the Phoenix 100 system for the identification

## Conclusion

- ❖ Immediately, we caution the nurse and hospital workers to disinfected respiratory water sources in the period of range by the hospital infection committee
- ❖ After this caution, we could not isolate any *S. maltophilia* strains in ICU's

## Results

- ❖ In one month period, we analysed 30 *S. maltophilia* infections in ICU's.
- ❖ All of strains were isolated by the patients aspirate samples
- ❖ The susceptibility to trimethoprim-sulfamethoxazole, Ceftazidime, Levofloxacin were 5 (16.6%), 23 (%76.6) and 2 (6.6%) respectively
- ❖ We thought that this infection source may be caused by the medical device or the hospital water source
- ❖ We found that *S. maltophilia* grew in the water sources of the **NEBULIZER SYSTEM**

