

UNIVERSITI TEKNOLOGI MARA



**Prevalence of Urinary Tract Infection among Patient at
Hospital Sultan Abdul Halim (HSAH) Based on Gender
and Age**

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Dissertation submitted in partial fulfilment of the requirements for Diploma in Medical
Laboratory Technology

Faculty of Health Sciences

October 2015

DECLARATION

I declare that the work in this thesis/ dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations of Universiti Teknologi MARA, regulating the conduct of my study and research.

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Faculty: HEALTH SCIENCE

Dissertation Title: PREVALENCE OF URINARY TRACT INFECTION AMONG
PATIENT AT HOSPITAL SULTAN ABDUL HALIM (HSAH) BASED
ON GENDER AND AGE

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Date: 12.10.2016

APPROVAL

This Final Year Project Report entitled “**Prevalence of Urinary Tract Infection among Patient at Hospital Sultan Abdul Halim (HSAH) Based on Gender and Age**” was submitted by **Nurfatini Husna Binti Mohd Afdiiza** in partial fulfilment of the requirement for the Diploma in Medical Laboratory in the Faculty of Health Sciences and was approved by

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ABSTRACT

Prevalence of Urinary Tract Infection among Patient at Hospital Sultan Abdul Halim (HSAH) Based on Gender and Age

The aim of the present study was to determine the prevalence of urinary tract infection based on gender and age. Urinary tract infections (UTIs) are among the most common bacterial infections in humans both in community and hospital settings. The data collections were obtained from Microbiology department of Hospital Sultan Abdul Halim and the result were analysed using the Graphpad instat. The data were collected from January 2015 until June 2015. From the result, the risk of female getting urinary tract infection is highest than male. The result also shows that the most affected age with urinary tract infection is between 51-70 years old and the least age is between 15-30 years old. Bacterial isolates were identified based on colonial morphology, microscopic characteristics, and biochemical tests. *Escherichia coli* are the most predominant organism 118(38%). This was followed by 42(13%) of *Klebsiella pneumonia*, *Candida albican* 34(11%), *Candida sp.* 34(11%), *Streptococcus* 17(5%), *Enterococcus* 13(4%) and Others 56(18%). In conclusion, UTI can cause morbidity and mortality to the affected person if is not treated properly. Antibiotic usage has proven to be beneficial treatment for the urinary tract infection.

Key words: Urinary tract infection, prevalence, clinical manifestation

ACKNOWLEDGEMENT

Appreciation goes to the following names for their continuous support and invaluable contribution towards the completion of the dissertation entitled “Prevalence of Urinary Tract Infection among Patient at Hospital Sultan Abdul Halim (HSAH) Based on Gender and Age”:

1. Madam Nor Raihan Binti Mohammad Shabani
2. Mr Lim Seng Hock
3. Dr Kartina Bt Mohd Noor
4. Dr Othman Bin Abdullah
5. Pn Sharipah Bt Lebai Ahmad
6. En Mohd Raheimi Bin Md Saad