

**PREVALENCE OF URINARY TRACT INFECTION IN DIABETIC
PATIENT AND ASSESSMENT OF RISK FACTORS OF URINARY
TRACT INFECTION**

A

**Dissertation Submitted to the
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**In Partial Fulfillment of the Requirements for the Award of the Degree of
Master of Science in Microbiology
(Environment and Public Health)**

**By
Sushila Pathak
Central Department of Microbiology
Tribhuvan University
Kathmandu
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RECOMMENDATION

This is to certify that **Ms. Sushila Pathak** has completed this dissertation work entitled “**Prevalence of Urinary Tract Infection in Diabetic Patient and Assessment of Risk Factors of Urinary Tract Infection**” as a partial fulfillment of the requirements M.Sc. degree in Microbiology (Environment and Public Health) under our supervision. To our knowledge this work has not been submitted for any other degree.

.....

.....

Dr. Megha Raj Banjara, PhD

MD

Lecturer

Central Department of Microbiology

Tribhuvan University Kathmandu

Dr. Anil Dev Pant,

Pathologist

National Kidney Centre

Banasthali Kathmandu

Date:-.....

CERTIFICATE OF APPROVAL

On the recommendation of **Dr. Megha Raj Banjara and Dr. Anil Dev Pant**, this dissertation work of **Ms. Sushila Pathak** is approved for the examination and is submitted to the Tribhuvan University in Partial fulfillment of the requirements for M.Sc. degree in Microbiology (Environment and Public Health).

.....

Microbiology

Prof. Dr. Anjana Singh
Head of Department
Central Department of

Tribhuvan University
Kathmandu Nepal

Date:-.....

SIGNATURE OF BOARD OF EXAMINERS

Recommended by

.....

Dr. Megha Raj Banjara

(Supervisor)

.....

Dr. Anil Dev Pant

(Supervisor)

Approved by

.....

Prof. Dr. Anjana Singh

(Head of Department)

Examined by

.....

Dr. Badri Thapa

MBBS PhD (Medical Microbiology)

Lecturer Kathmandu Medical College

(External examiner)

.....

Mr. Komal Raj Rijal

Lecturer Central Department of

Microbiology Kirtipur

(Internal Examiner)

Date.....

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LIST OF ABBREVIATIONS

| | |
|-------------------|--|
| ASB- | Asymptomatic bacteriuria |
| AST- | Antibiotic Susceptibility Test |
| BA- | Blood Agar |
| CC-MSU- | Clean Catch-Midstream Urine |
| CFU- | Colony Forming Units |
| CLSI- | Clinical Laboratory Standard Institute |
| CoNS- | Coagulase Negative <i>Staphylococcus</i> |
| DM- | Diabetes Mellitus |
| HBA _{1c} | Glycosylated haemoglobin |
| HPF- | High Power Field |
| IBCs- | Intracellular bacterial communities |
| MA- | MacConkey Agar |
| MHA- | Mueller Hinton Agar |
| NA- | Nutrient Agar |
| NKC- | National Kidney Centre |
| SDA- | Sabouraud Dextrose Agar |
| SIM- | Sulphide Indole Motility |
| TMP-SMX- | Trimethoprim-Sulphomethoxazole |
| TSI- | Triple Sugar Iron |
| UPEC- | Uropathogenic <i>E. coli</i> |
| UTI- | Urinary Tract Infection |