PREVALENCE OF TUBERCULOUS INFECTION
By USING TUBERCULIN TEST IN A RURAL
AREA IN DAKAHLIA GOVERNORATE
(TRANEES VILLAGE).

Thesis
Submitted for partial fulfillment of Master Degree in Chest Diseases

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ABBREVIATIONS

AFB : Acid-Fast Bacilli.
APCs : Antigen-Presenting Cells.
ARTI : Annual Risk of Tuberculosis Infection.
ATS : American Thorathic Society.
BCG : Bacillus Calmette Guerin.
CDC : Centers for Disease Control.
CMI : Cell Mediated Immunity.
COPD : Chronic Obstructive Pulmonary Disease.
DM : Diabetes Mellitus.
DNA : Deoxyribonucleic acid.
DOTS : Directly Observed Therapy with Standardized Regimens.
DTH : Delayed Type Hypersensitivity.
ELISA : Enzyme linked immunosorbent assay.
GIT : Gastro intestinal tract.
GLC : Gas liquid chromatography.
HF : Heart Failure.
HIV : Human Immunodeficiency Virus.
**Abbreviations**

- **HLA**: Human Leukocytic Antigen.
- **HTN**: Hypertension.
- **Ig**: Immunoglobulin.
- **INH**: Isonicotinic Acid Hydrazide.
- **IU**: International Unit.
- **IUATLD**: International Union Against TB and Lung Disease.
- **MDR**: Multi-Drug Resistance.
- **MGIT**: Mycobacterium Growth Indicator Tube.
- **MOHP**: Ministry Of Health and Population.
- **MPTs**: Multiple Puncture Tuberculin Test.
- **M.TB**: Mycobacterium Tuberculosis.
- **NK**: Natural Killer.
- **NTP**: National TB Program.
- **PCR**: polymerase Chain Reaction.
- **PPD**: Purified Protein Derivative.
- **rRNA**: Ribosomal Ribonucleic Acid.
- **SLE**: Systemic Lupus Erythematosis.
- **TB**: Tuberculosis.
- **Th cells**: T-helper cells.
- **TU**: Tuberculin Unit.
- **WHO**: World Health Organization.
- **ZN**: Ziehl-Neelson.
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INTRODUCTION

Tuberculosis is a disease caused by bacteria belonging to 
*Mycobacterium tuberculosis* complex. The disease usually 
affect the lungs, although in up to one third of cases, other 
organs are involved.

Tuberculosis is the main cause of infection related 
mortality in the world. It has increased in majority of countries 
not only due to its association with HIV, but also due to other 
conditions such as poverty, migration, addiction, homeless or 
inadequacy of health care resources. (Alcaide et al., ٦٩٩١).

Tuberculosis is considered as the most important 
medical problem in Egypt after Bilharziasis. In spite of 
Ministry of health and population (MOHP) efforts to face TB 
in past years, it is still a big problem which necessitates more 
efforts. (MOHP report, ٦٩٩١).

Tuberculin skin testing is a simple skin test helps to 
determine whether a person has been infected by 
*Mycobacterium tuberculosis* or not. During a tuberculin test,