



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



# شبكة المعلومات الجامعية

## التوثيق الالكتروني والميكرو فيلم

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
على هذه الأفلام قد أعدت دون أية تغيرات



## يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of  
15 – 25c and relative humidity 20-40 %



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# بعض الوثائق الأصلية تالفة



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بالرسالة صفحات  
لم ترد بالأصل

**PATHOLOGICAL, BACTERIOLOGICAL, AND NON-INVASIVE  
CARDIOPULMONARY EVALUATION OF  
PROTECTED BRONCHOALVEOLAR LAVAGE (PRO-BAL)  
IN RESPIRATORY CRITICALLY ILL PATIENTS**

Thesis

**Submitted to the Faculty of Medicine,  
Alexandria University**

**For Partial Fulfillment of the Requirements of the Degree of  
Doctor of Chest Diseases and Phthisiology**

By

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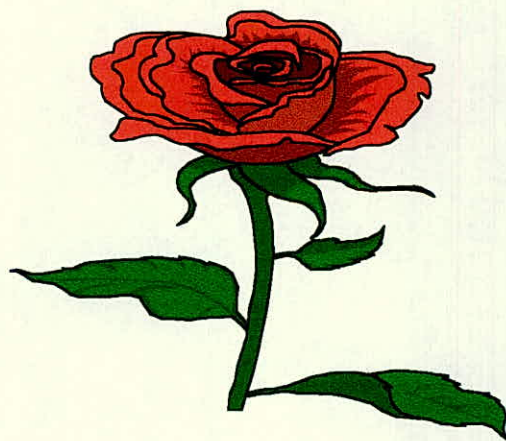
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**To My Professors,  
My Parents,  
And To My Wife**



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## ABBREVIATIONS

- ACCP:** American College of Chest Physicians
- ACIP:** Advisory Committee on Immunization Practices
- ARDS:** acute respiratory distress syndrome
- BAL:** bronchoalveolar lavage
- BBS:** blind bronchial suctioning
- BNA:** transbronchial needle aspiration
- BP:** blood pressure
- BUN:** blood urea nitrogen
- BCYE:** buffered charcoal yeast extract
- CAP:** community acquired pneumonia
- CW:** continuous wave
- CF:** cystic fibrosis
- CO:** cardiac output
- CFU:** colony-forming unit
- CDC:** Centers for Disease Control and Prevention
- DFA:** direct fluorescent antibody
- ETT:** endo-tracheal tube
- FDA:** food and drug administration
- HAP:** hospital acquired pneumonia
- HPS:** Hantavirus pulmonary syndrome
- ICU:** intensive care unit
- IDSA:** Infectious Diseases Society of America

**LV:** left ventricle

**LVID<sub>D</sub>:** left ventricular internal dimension in diastole

**LVID<sub>S</sub>:** left ventricular internal dimension in systole

**MICU:** medical intensive care unit

**MIC:** minimal inhibitory concentration

**NP:** nosocomial pneumonia

**PIP:** peak inspiratory pressure

**Pro-BAL:** protected bronchoalveolar lavage

**P-BAL:** protected bronchoalveolar lavage

**PSB:** protected specimen brush

**PBT:** protected transbronchoscopic balloon-tipped

**PCR:** polymerase chain reaction test

**PORT:** Pneumonia Patients Outcomes Research Team

**ROC:** receiver-operating characteristic

**RVEDVI:** right ventricular end-diastolic volume index

**RVEF:** right ventricular ejection fraction

**SN:** Sin Nombre

**TTE:** transthoracic EchoDoppler

**TEE:** transoesophageal EchoDoppler

**TBNA:** transbronchial needle aspiration (TBNA)

**US:** United States

**VS:** versus

**WU:** Washington University

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# INTRODUCTION