



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





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# شبكة المعلومات الجامعية

## التوثيق الالكتروني والميكرو فيلم

# جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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# بعض الوثائق الأصلية تالفة



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بالرسالة صفحات  
لم ترد بالأصل

**ROLE OF VIDEO-ASSISTED  
THORACOSCOPIC SURGERY (VATS) IN  
THE MANAGEMENT OF RECURRENT  
PNEUMOTHORAX**

**Thesis**

**Submitted to the Faculty of Medicine**

**University of Alexandria**

**In partial fulfillment of the requirements  
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**MASTER OF GENERAL SURGERY**

**By**

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# ABSTRACT

**Objective:** To evaluate the role of VATS in management of recurrent pneumothorax.

**Patients and Methods:** Twenty patients undergoing VATS for recurrent pneumothorax in Cardiothoracic Surgery Department, Alexandria University.

**Results:** The mean age of patients was  $34 \pm 11.39$  years, and 14 were men (70%). All patients underwent VATS for management of recurrent pneumothorax. Procedures included stapling of an identified bleb, which was done in 4 cases, pleurodesis by gauze abrasion ( $n=17$ ) and apical pleurectomy ( $n=17$ ). Three patients underwent mini-axillary thoracotomy for ligation of large bullae. Postoperative complications included air leak for five days in one patient (1/17) and low grade fever for one-day postoperatively in six patients (6/17). Utilization of resource analysis showed great advantage in favour of VATS compared to retrospectively analyzed patients who underwent thoracotomy.

**Conclusion:** VATS is a very useful alternative to conventional thoracotomy in managing cases of recurrent spontaneous pneumothorax.

**Key words:**

Pleurodesis.

Spontaneous pneumothorax.

Thoracoscopic surgery.

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# LIST OF ABBREVIATIONS

<b>ACTH</b>	Adrenocorticotrophic hormone .
<b>ADH</b>	Antidiuretic hormone.
<b>CAMP</b>	Cyclic adenosine mono phosphate.
<b>COPD</b>	Chronic obstructive pulmonary disease.
<b>DM</b>	Diabetes mellitus.
<b>ECG</b>	Electro cardiogram.
<b>FEV<sub>1</sub></b>	Forced expiratory volume in first second.
<b>Fig.</b>	Figures.
<b>GH</b>	Growth hormone.
<b>ICT</b>	Inter costal tube.
<b>IHD</b>	Ischemic heart disease.
<b>LOHS</b>	Length of hospital stay.
<b>PSP</b>	Primary spontaneous pneumothorax.
<b>SSP</b>	Secondary spontaneous pneumothorax.
<b>TLC</b>	Total lung capacity.
<b>VAT</b>	Video assisted thoracoscopy.
<b>VATS</b>	Video assisted thoracic surgery.
<b>VC</b>	Vital capacity.

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