بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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شبكة المعلومات الجامعية

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MONA MAGHRABY

BRONCHIAL ARTERY EMBOLIZATION AS A THERAPEUTIC STATEGY FOR MANAGEMENT OF MASSIVE HEMOPTYSIS

Thesis

Submitted for Partial Fulfillment of the M.D. Degree in Radiodiagnosis

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2021

سورة البقرة الآية: ٣٢

Acknowledgment

First and foremost, I feel always indebted to **ALLAH**, *the Most Kind and Most Merciful.*

I'd like to express my respectful thanks and profound gratitude to **Prof. Laila Ahmad Abdurrahman,** *Professor of Radiodiagnosis - Faculty of Medicine- Ain Shams University for her keen guidance, kind supervision, valuable advice and continuous encouragement, which made possible the completion of this work.*

I am also delighted to express my deepest gratitude and thanks to **Dr. Ayman Mohamed Ibrahim,** *Assistant Professor of Radiodiagnosis, Faculty of Medicine, Ain Shams University, for his kind care, continuous supervision, valuable instructions, constant help and great assistance throughout this work.*

I am deeply thankful to **Prof. Shaimaa Abdelsattar Mohammad,** *Professor of Radiodiagnosis, Faculty of Medicine, Ain Shams University, for her great help, active participation and guidance.*

I would like to express my hearty thanks to all my family for their support till this work was completed.

Last but not least my sincere thanks and appreciation to all patients participated in this study.

Heba Mounir Abdel Aziz

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List of Abbreviations

Abb.	Full term
AAo	*Ascending aorta*
BAE	*Bronchial artery embolization*
CBT	*Common bronchial trunk*
E-RBA	*Ectopic right bronchial artery*
GIT	*Gastrointestinal tract*
IBT	*Intercostobrachial trunk*
IC-CBT	*Intercostal–common bronchial trunk*
ILA	*Interlobar artery*
ILD	*Interstitial lung disease*
L	*Lingula*
LA	*Left atrium*
LB	*Left main bronchi*
LBA	*Left bronchial artery*
LIPV	*Left inferior pulmonary vein*
LLL	*left lower lobe*
LPA	*Left pulmonary artery*
LSPV	*Left superior pulmonary vein*
LTT	*Left thyrocervical trunk*
LUL	*Left upper lobe*
MDCT	*Multidetector CT*
MDCTA	*MDCT angiography*
MIP	*Maximum intensity projection*
ML	*Middle lobe*
PVA	*Polyvinyl alcohol*
RBA	*Right bronchial artery*

List of Abbreviations *(Cont...)*

Abb.	Full term
RIPV	*Right inferior pulmonary vein*
RLL	*Right lower lobe*
RPA	*Right pulmonary artery*
RSPV	*Right superior pulmonary vein*
RUL	*Right upper lobe*
SIR	*Society of Interventional Radiology*
SSD	*Shaded-surface-display*
T.B	*Tuberculosis*
TA	*Truncus anterior*
URT	*Upper respiratory tract*

INTRODUCTION

Life threatening massive hemoptysis is one of the most challenging situations that is encountered in critical care necessitating an appropriate investigation. Regardless of advances in medical and emergency unit management, massive hemoptysis endures a grave threat ***(Yoon et al., 2002).***

Hemoptysis, when massive and left untreated, has a mortality rate of >50% Thus; it demands prompt identification of the hemorrhage source so that definitive therapy can be commenced to cease the bleeding ***(Swanson et al., 2002).***

Death is predominantly due to asphyxiation resultant from blood aspiration, ending in airway obstruction ***(Burke et al., 2004).*** As per literature, 28% of the pulmonologists had experienced a patient's death from significant hemoptysis during a 1- year period ***(Yoon et al., 2002).***

90% of life threatening hemoptysis is of bronchial artery origin ***(Sidhu et al., 2008).*** However, non-bronchial systemic arteries can be also a substantial source and a reason for recurrence after effective bronchial artery embolization (BAE) ***(Agmy et al., 2013).***

The presently available approaches to patients with hemoptysis are conservative treatment, BAE, and surgery. Choosing the appropriate treatment relies primarily on the severity and urgency of the condition ***(Anotnelli et al., 2002).***