بسم الله الرحمن الرحيم

شبكة المعلومـــــات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

﴿ قـــسـم ﴾

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية 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 %

بعض الوثائق الأصلية تالفة

بالرسالة صفحات

لم ترد بالأصـــل

Assiut University
Faculty of Medicine
Anesthesia and Intensive care department

The Role of Non-Invasive Continuous Positive Pressure Ventilation in the Intensive Care Unit

THESIS

Submitted in partial fulfillment of the requirements for the master degree in Anesthesia and Intensive care

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TO THE MEMORY OF
MY FATHER
who has taught me that
MAN IS VALUED BY
THE KNOWLEDGE
HE HAS

Contents

LIST OF ABBREVIATIONS

ARF = Acute respiratory failure

$\dot{A}V$ = Alveolar ventilation

BAL = Bronchoalveolar lavage

CaO_2 = Arterial oxygen content

CO = Carbon monoxide

COPD = Chronic obstructive pulmonary disease

CPAP = Continuous positive airway pressure

CvO_2 = Mixed venous oxygen content

DO_2 = Systemic oxygen transport

ETI = Endotracheal intubation

FEV_1 = Forced expiratory volume in one second

FEV_1 / FVC = Ratio between forced expiratory volume in one second and forced vital capacity

FiO_2 = Inspired oxygen fraction

FMCPAP = Facemask continuous positive airway pressure

FOB = Fiberoptic bronchoscopy

FRC = Functional residual capacity

FVC =Forced vital capacity

HR = Heart rate

ICU = Intensive Care Unit

MAP = Mean arterial blood pressure

MSV = Maximal sustainable ventilation

MV = Mechanical ventilation

NIV = Non-invasive ventilation

NPPV = Non-invasive positive pressure ventilation

$PaCO_2$ = partial pressure of CO_2 in arterial blood

PaO_2 = partial pressure of O_2 in arterial blood

PaO_2 / FiO_2 = Ratio between partial pressure of O_2 in arterial blood and inspired oxygen fraction

PEEP = Positive end-expiratory pressure

PEEPi = Intrinsic positive end-expiratory pressure

PSV = Positive support ventilation

Qt = Cardiac output

RR = Respiratory rate

SaO_2 = Arterial oxygen saturation

TV = Tidal volume

VCO_2 = Metabolic production of CO_2

V_d = Dead space volume

VE = Minute alveolar ventilation

VO_2 = Rate of oxygen consumption

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