بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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MONA MAGHRABY

Study of the Acute Hemodynamic Effects of Inhaled Milrinone versus Inhaled Nitroglycerin on Mechanically Ventilated Patients with Pulmonary Hypertension after Mitral Valve Replacement Surgeries.

A Thesis

Submitted for partial fulfillment of master degree in intensive care medicine

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دراسة التاثيرات الحادة للدورة الدموية لمستنشق عقار الميلرينون مقابل مستنشق عقار النيتروجليسرين علي المرضى الخاضعين للتهوية الميكانيكية ذوي ضغط الدم الرئوي المرتفع بعد عمليات استبدال الصمام الميترالي.

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Contents

List of abbreviations

ALK-1	Anaplastic Lymphoma Kinase -1 gene
APTT	Activated Partial Thromboplastin Time
ATP	Adenosine Triphosphate
ATPase	Adenosine Triphosphatase
A-V node	Atrioventricular node
BMPR2	Bone Morphogenetic Protein Receptor type II
c-AMP	Cyclic Adenosine Monophosphate
CAV 1	Caveolin 1
c-GMP	Cyclic Guanosine Monophosphate
CI	Cardiac Index
CO	Cardiac Output
CPB	Cardiopulmonary Bypass
CTD	Connective Tissue Disease
CTEPH	Chronic Thromboembolic Pulmonary Hypertension
CVP	Central Venous Pressure
CW	Continuous Wave
DBP	Diastolic Blood Pressure
DPAP	Diastolic Pulmonary Artery Pressure
EF	Ejection Fraction
ENG	Endoglin
FiO_2	Fraction of Inspired Oxygen

FS	Fractional Shortening
GMP	Guanosine monophosphate
GTP	Guanosine Triphosphate
HIF-1	Hypoxia-Inducible Factor -1
HIV	Human Immunodeficiency Virus
HPAH	Heritable Pulmonary Arterial Hypertension
HR	Heart Rate
IL-1β	Interleukin 1 beta
IL2	Interleukin-2
IL-6	Interleukin-6
IL-8	Interleukin-8
IL-10	Interleukin-10
IL-12	Interleukin-12
iNO	Inhaled Nitric Oxide
IPAH	Idiopathic Pulmonary Artery Hypertension
IV	Intravascular
KCNK3	Potassium Channel subfamily K member 3 gene
LHD	Left Heart Disease
LVEF	Left Ventricle Ejection Fraction
MBP	Mean Arterial Blood Pressure
mPAP	Mean Pulmonary Artery Pressure
m-RNA	Messenger Ribonucleic Acid
mt-ALDH	Mitochondrial Aldehyde Dehydrogenase
NFAT	Nuclear Factor of Activated T-cells

NIH	National Institutes of Health
NO	Nitric Oxide
NS	Non-Significant
OR	Operating Room
PA banding	pulmonary artery banding
PaO_2	Arterial Oxygen Partial Pressure
PaO_2/FiO_2 ratio	Ratio of arterial oxygen partial pressure to fractional inspired oxygen
PAP	Pulmonary artery pressure
PASS11	Power Analysis and Sample Size
PAWP	Pulmonary Artery Wedge Pressure
PDE	Phosphodiesterase Enzyme
PDE5	Phosphodiesterase Enzyme 5
PDK	Pyruvate Dehydrogenase Kinase
PGI2	Prostaglandin I2
PH	Pulmonary hypertension
PHG registry	Primary Health Care Registry
PPHN	Persistent Pulmonary Hypertension of The Newborn
PR	Pulmonary Regurgitation
PVR	Pulmonary Vascular Resistance
RAP	Right atrial pressure
REVEAL registry	Registry to Evaluate Early and Long-Term PH Disease Management

RHC	Right Heart Catheterization
RV	Right Ventricle
RVH	Right Ventricle Hypertrophy
RVF	Right Ventricle Failure
SBP	Systolic Blood Pressure
SD	Standard Deviation
SERCA-2a	Sarco/Endoplasmic Reticulum Calcium ATPase (encoded by the ATP2A2 gene)
SMAD9	Mothers Against Decapentaplegic Homolog(9)
SPAP	Systolic Pulmonary Artery Pressure
SPSS	Statistical Package for Social Science
TNFα	Tumor Necrosis Factor alpha
TR	Tricuspid Regurgitation
TRPC	Transient Receptor Potential Channels
TTE	Transthoracic Echocardiography
US	United States
VCV	Volume-Controlled Ventilation
WHO	World Health Organization
WU	Wood Units

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