

*N-terminal pro-B-type natriuretic peptide ,C-Reactive
protein and albumin as prognostic markers in severe sepsis
and septic shock*

Thesis
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MD. Degree in Critical Care

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To

My Father and Mother

*With special dedication
to my husband*

Dr. Muhammad M. Alhusseiny

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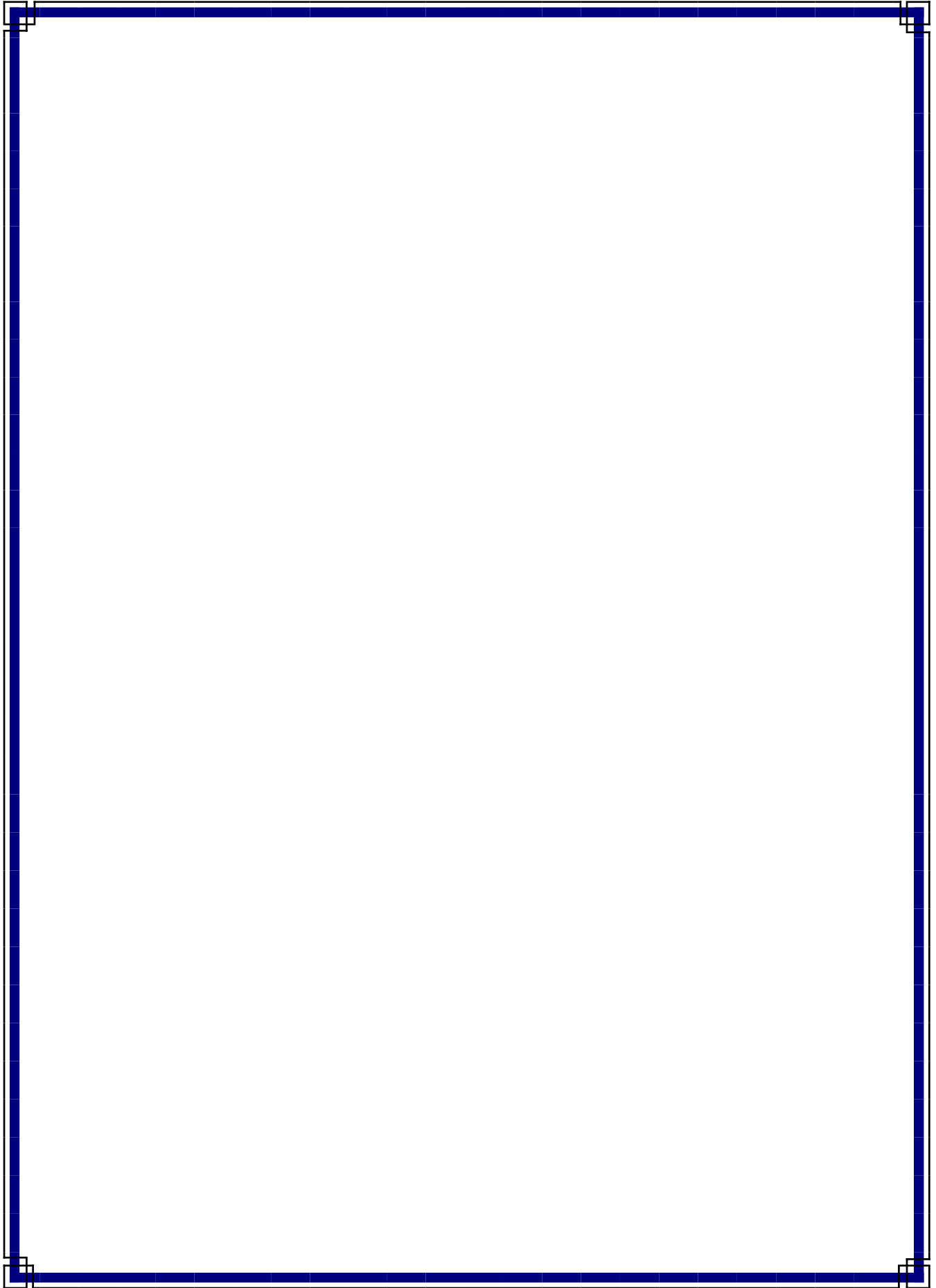
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List of Abbreviations

ALT:	Alanine aminotransferase
ACS:	Acute coronary syndrome
AF:	Atrial fibrillation
AIS :	Acute ischemic stroke
AKI:	Acute kidney injury
ALI:	Acute lung injury
ANP :	A-type natriuretic peptide
APACHE :	Acute physiology and chronic health evaluation
APS :	Acute Physiology Score
ARDS:	Adult respiratory distress syndrome
ARF :	Acute renal failure
AS:	Aortic stenosis
AST:	Aspartate aminotransferase
AUC:	Area under the curve
BNP :	Beta naturetric peptide
bpm:	Beat per minute
BUN	Blood urea nitrogen
CABG:	Coronary artery bypass graft
CAP:	Community-acquired pneumonia

CHF:	Congestive heart failure
CKD:	Chronic kidney disease
CNS :	Central nervous system
CO :	Cardiac output
COP:	Colloid osmotic pressure
COPD:	Chronic obstructive pulmonary disease
CP:	Constrictive pericarditis
Cr:	Creatinine
CRP:	C-reactive protein
CT:	Computed tomography
cTn:	Cardiac troponin
CVD:	Cardiovascular disease
CVP :	Central venous pressure
DBP:	Diastolic blood pressure
DIC :	Disseminated intravascular coagulopathy
DM:	Diabetes mellitus
DO ₂ :	Oxygen delivery
DVT :	Deep venous thrombosis
ED :	Emergency department
EF:	Ejection fraction

EGDT :	Early goal directed therapy
ESRD :	End stage renal diseases
FAC	Fractional area contraction
FiO ₂ :	Fraction of inspired oxygen
Fmol/l:	Ficomole/l
GCS :	Glasgow coma scale
GFR :	Glomerular filtration rate
GIT:	Gastrointestinal tract
HD:	Hemodialysis
HES :	Hydroxyethylstarch
HF:	Heart failure
HMGB:	High mobility group box
HMW HA:	High molecular weight hyaluronan
HR :	Heart rate
ICP:	Intracranial pressure
ICU:	Intensive care unit
IL :	Interleukin
iNOS :	Inducible nitric oxide synthase
kDa:	Kilodalton
LA:	Left atrium

LOS:	Length of stay
LV	Left ventricle
LVEDV:	Left ventricular end diastolic volume
LVEF :	Left ventricular ejection fraction
LVESV:	Left ventricular end systolic volume
MAP:	Mean arterial blood pressure
MDR:	Multiple drug resistant
mg/dL :	Milligram per deciliter
MI:	Myocardial infarction
MIF :	Macrophage inhibitory factor
μL:	Micro liter
mL/kg:	Milliliter per kilogram
mm Hg :	Millimeter mercury
mmol/L :	Millimole per litre
MODS :	Multiple organ dysfunction syndrome
MR:	Mitral regurgitation
mRNA:	Messenger ribonucleic acid
MS:	Mitral stenosis
MV:	Mechanical ventilation
NF:	Nuclear factor

NP:	Natriuretic peptide
NPV:	Negative predictive value
NTproBNP :	N terminal pro beta naturetric peptide
NYHA:	New York Heart Association
PAC :	Pulmonary artery catheterization
PaCO ₂ :	Arterial carbon dioxide tension
PaO ₂ :	Arterial oxygen tension
PCI:	Percutaneous cardiac intervention
PCT:	Procalcitonin
PDA:	Patent ductus arteriosus
PE:	Pulmonary embolism
Pmol/l:	Picomole/l
PRBC :	Packed red blood cell transfusion
PSI:	Pneumonia severity index
RCM:	Restrictive cardiomyopathy
RCT :	Randomized controlled trial
ROC	Receiver operating characteristic
RR :	Respiratory rate
RRT:	Renal replacement therapy
RV :	Right ventricle

SAFE:	Saline versus Albumin Fluid Evaluation
SAH:	Subarachnoid hemorrhage
SBP:	Systolic blood pressure
SBT:	Spontaneous breathing trial
SCCM:	The Society of Critical Care Medicine
ScvO2 :	Central venous O2 saturarion
SIRS:	Systemic inflammatory response syndrome
SOFA :	Sequential organ failure assessment
SR:	Sinus rhythm
SSI :	Surgical site infection
SVR :	Systemic vascular resistance
TLC :	Total leukocyte count
TNF :	Tumor necrosis factor
TnI:	Troponin I
TnT :	Cardiac troponin T
TTE:	Transethoracic echocardiogram
VAP	Ventilator associated pneumonia
VHD:	Valvular heart disease
VS :	Versus
WBC:	White blood cell

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