

LIST OF FIGURES

Figure		page
(1)	A chest X-ray showing a very prominent wedge-shape bacterial pneumonia in the right lung.	1
(2)	Another chest x ray that demonstrate VAP as bilateral apical and middle patches.	2
(3)	Ventilator-Associated Events (VAE) Surveillance Algorithm.	7
(4)	Ventilator-Associated Condition (VAC).	8
(5)	Infection-related Ventilator-Associated Complication (IVAC).	8
(6)	Possible Ventilator-Associated Pneumonia (VAP).	9
(7)	Probable Ventilator-Associated Pneumonia (VAP).	10
(8)	Chest X ray that reveal left upper lobe patch.	13
(9)	Bilateral VAP patches and right lung abscess in ct scan of the chest.	13
(10)	CT chest reveal bilateral VAP patches.	14
(11)	ARDS following protracted VAP course.	14
(12)	Structural formula of simvastatin.	24
(13)	Comparison between the studied groups according to sex	32
(14)	Comparison between the studied groups according to age	32
(15)	Comparison between the two studied groups according to systolic blood pressure	36
(16)	HI in cases group	60
(17)	HI in control group	60
(18)	Comparison between the two studied groups according to MV in cases	62
(19)	Comparison between the two studied groups according to MV in control	62
(20)	Comparison between the two studied groups according to vasopressors in cases	64
(21)	Comparison between the two studied groups according to vasopressors in control	64
(22)	Comparison between the studied groups according to outcome	66
(23)	Comparison between the studied groups according to mechanical ventilator and vasopressors days	68

List of ABBREVIATIONS

ARDS	: Acute respiratory distress syndrome
BAL	: Bronchoalveolar lavage
CAP	: Community acquired pneumonia
CBC	: Complete blood count
CFU	: Colony forming unit
COPD	: Chronic obstructive pulmonary disease
CPIS	: Clinical pulmonary infection score
CRP	: C reactive protein
CT	: computerized tomographic scan
DBP	: Diastolic blood pressure
DM	: Diabetes mellitus
DVT	: Deep vein thrombosis
ENOS	: Endothelial nitric oxide synthase
EPCS	: Endothelial progenitor cells
ESBL	: Extended spectrum beta-lactamase
ETT	: Endotracheal tube
FIO₂	: Fraction of inspired oxygen
HB	: Hemoglobin
HCAP	: Health care acquired pneumonia
HDL	: High density lipoprotein
HI	: Hypoxic index
HMG	: Hydroxyl methyl glutaryl
HOB	: Head of bed elevation
HR	: Heart rate
HTN	: Hypertension
ICU	: Intensive care unit
IHD	: Ischemic heart disease

IVAC	: Infection related ventilator associated condition
LDL	: Low density lipoprotein
LP	: Lipopolysaccharide
MCP	: Monocyte chemoattractant protein
MDR	: Multidrug resistant
MRSA	: Methicillin-resistant staphylococcus aureus
MV	: Mechanical ventilation
PCT	: Procalcitonin
PEEP	: Positive end expiratory pressure
PLT	: Platelets
PSB	: Protected specimen brush
RR	: Respiratory rate
RTA	: Road traffic accident
SBP	: Systolic blood pressure
SGOT	: Serum glutamic oxaloacetic acid transaminase
SGPT	: Serum glutamic pyruvic acid transaminase
SOFA	: Sequential organ failure assessment
STERM	: Soluble triggering receptor expressed on myeloid cell
TF	: Tissue factor
TPA	: Tissue plasminogen activator
VAC	: Ventilator associated condition
VAE	: Ventilator associated events
VAP	: Ventilator associated pneumonia
WBC	: White blood cell count