

Table (1): Comparison between outcome and demographic data of studied patients

Variable	Survived n=17	Dead n=45	P value
Age/years Mean ± SD Median (range)	53.47 ± 16.41 60 (27-80)	62.49 ± 17.34 63 (17-90)	0.07
Gender Females n=30 Males n=32	12 (70.59%) 5 (29.41%)	18 (40.00%) 27 (60.00%)	0.03
Smoking status Non-smoker n=42 Smoker n=10 Ex-smoker n=10	15 (88.24%) 2 (11.76%) 0	27 (60.00%) 8 (17.78%) 10 (22.22%)	0.06
BMI Mean ± SD Median (range)	23.36±1.15 24.8 (21.53-25.85)	24.42±1.47 24.77 (20.91-27.21)	0.87

BMI: Body Mass Index

Table (2): Comparison between outcome and diagnosis

Diagnosis	Survived n=17	Mortality n=45	P value
Diagnosis Pneumonia n=49 Lung abscess n=5 Pulmonary embolism n=5 Near drowning (ARDS) n=2 Acute exacerbation of ILD	13 (76.47%) 1 (5.88%) 3 (17.65%) 0 0	36 (80.00%) 4 (8.89%) 2 (4.44%) 2 (4.44%) 1 (2.22%)	0.63
ARDS n=17	0	17 (37.78%)	0.006
Bacterial infection No Yes	3 (17.65%) 14 (82.35%)	2 (4.44%) 43 (95.56%)	0.12
Influenza A H1N1 infection No Yes	15 (88.24%) 2 (11.76%)	42 (93.33%) 3 (6.67%)	0.61

ILD: Interstitial Lung Disease

Table (3): Comparison between central venous oxygen saturation and outcome

Variable	Survived n=17	Mortality n=45	P value
ScvO2 day 0 Mean \pm SD Median (range)	71.94 \pm 2.84 72 (66-76)	66.09 \pm 8.80 66 (49-80)	0.009
ScvO2 day 3 Mean \pm SD Median (range)	70.18 \pm 7.95 72 (52-84)	64.42 \pm 11.54 65 (26-83)	0.04
ScvO2 day 7 Mean \pm SD Median (range)	73.76 \pm 2.61 74 (68-77)	65.37 \pm 11.20 66 (35-79)	0.005

ScvO2: central venous oxygen saturation

Table (4): Comparison of ScvO2 at day 0 between survived patients and mortality group

ScvO2 at day 0	No	Survived n=17	Mortality n=45	P value
Normal (65% – 75%)	34	16 (94.12%)	18 (40.00%)	<0.0001
Abnormal (<65% and >75%)	28	1 (5.88%)	27 (60.00%)	
Low (<65%)	19	0	19 (42.22%)	0.001
High (>75%)	9	1 (5.88%)	8 (17.78%)	0.42

ScvO2: central venous oxygen saturation

Table (5): Comparison between outcome and ScvO2 at day 3

ScvO2 at day 3	No	Survived n=17	Mortality n=45	P value
Normal (65% – 75%)	32	15 (88.24%)	17 (37.78%)	<0.0001
Abnormal (<65% and >75%)	30	2 (11.76%)	28 (62.22%)	
Low (<65%)	20	0	20 (44.44%)	0.001
High (>75%)	10	2 (11.76%)	8 (17.78%)	0.71

ScvO2: central venous oxygen saturation

Table (6): Comparison between ScvO2 at day 7 and outcome

ScvO2 at day 7	No	Survived n=17	Mortality n=19	P value
Normal (65% – 75%)	18	12 (70.59%)	6 (31.58%)	0.02
Abnormal (<65% and >75%)	18	5 (29.41%)	13 (68.42%)	
Low (<65%)	8	0	8 (42.11%)	0.03
High (>75%)	10	5 (29.41%)	5 (26.32%)	1.00

ScvO2: central venous oxygen saturation

Table (7): Comparison between change in ScvO2 between day 0 and day 3 and outcome

	No	Survived n=17	Mortality n=45	P value
Improvement in ScvO2 between day 0 and day 3	27	11 (64.71%)	16 (35.56%)	0.009
Deterioration in ScvO2 between day 0 and day 3	32	6 (35.29%)	26 (57.78%)	
No change	3	0	3 (6.67%)	

ScvO2: central venous oxygen saturation

Table (8): Comparison between change in ScvO2 between day 3 and day 7 and outcome

	No	Survived n=17	Mortality n=19	P value
Improvement in ScvO2 between day 3 and day 7	18	12 (70.59%)	6 (31.58%)	0.006
Deterioration in ScvO2 between day 3 and day 7	16	3 (17.65%)	13 (68.42%)	
No change	2	2 (11.76%)	0	

ScvO2: central venous oxygen saturation

Table (9): Comparison between change ScvO2 between day 0 and day 7 and outcome

	No	Survived n=17	Mortality n=19	P value
Improvement in ScvO2 between day 0 and day 7	19	11 (64.71%)	8 (42.11%)	0.02
Deterioration in ScvO2 between day 0 and day 7	14	3 (17.65%)	11 (57.89%)	
No change	3	3 (17.65%)	0	

ScvO2: central venous oxygen saturation

APACHE II score	>27	0.77 (0.68:0.89)	42.22	100	100	39.5	71.11	<0.0001
ScvO2 at day 0	≤65%	0.71 (0.58:0.82)	48.89	100	100	42.5	74.45	0.0008
ScvO2 at day 3	≤70%	0.65 (0.52:0.76)	68.89	70.59	86.1	46.2	69.74	0.04
ScvO2 at day 7	≤66%	0.70 (0.53:0.84)	63.16	100	100	70.8	81.58	0.04
Abnormal ScvO2 day 0			60.00	94.12	96.43	47.06	77.06	<0.0001
Abnormal ScvO2 day 3			62.22	88.24	93.33	46.88	75.23	<0.0001
Abnormal ScvO2 day 7			68.42	70.59	72.22	66.67	69.50	0.02

ScvO2: Central venous oxygen saturation