

**Table 1. Demographic data of the patients with AECOPD (n=429).**

	<b>N-LHS</b>	<b>MP-LHS</b>	<b>SP-LHS</b>	<b>Statistical</b>	<b>P</b>
	<b>(&lt;7 days)</b>	<b>(7-10 days)</b>	<b>(≥11 days)</b>	<b>values</b>	<b>value</b>
<b>Sex (Male, n)</b>	84	167	77	0.057	0.972
<b>Age (years)</b>	68.604±10.016	71.587±8.607	71.870±9.942	4.516	0.011
<b>BMI</b>	22.226±3.6589	22.086±3.664	22.522±3.874	0.474	0.623
<b>Smoking</b>				1.935	0.380
<b>Non-smoking (n)</b>	39	80	40		
<b>Ex-smoking (n)</b>	18	56	21		
<b>Current-smoking (n)</b>	54	82	39		
<b>GOLD Stages</b>				1.716	0.424
<b>Stage I: mild</b>	14	25	14		
<b>(≥80%) (n)</b>					
<b>Stage II: moderate</b>	42	67	28		
<b>(50-79%) (n)</b>					
<b>Stage III: severe (30-49%) (n)</b>	26	58	31		
<b>Stage IV: very severe</b>	9	18	7		
<b>(&lt;30%) without</b>					
<b>respiratory failure (n)</b>					
<b>Respiratory failure (n)</b>	20	50	20		
<b>Underlying diseases/comorbidities</b>					
<b>CAP (n)</b>	33	103	42	9.312	0.010
<b>CCP (n)</b>	9	30	24	10.906	0.004
<b>CAD (n)</b>	16	43	17	1.469	0.480
<b>Hypertension (n)</b>	25	87	49	16.801	0.000

<b>T2DM (n)</b>	17	31	18	0.753	0.686
<b>CTD (n)</b>	2	0	2	4.194	0.123

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Abbreviations: AECOPD: Acute exacerbation of chronic obstructive pulmonary disease; LHS: Length of hospital stay; BMI: Body mass index; GOLD: Global initiative for chronic obstructive lung disease; CAP: Community-acquired pneumonia; CCP: Chronic cor pulmonale; CAD: Coronary artery disease; T2DM: Type 2 diabetes mellitus; CTD: Connective tissue disease.

**Table 2. Clinical features and laboratory data of the patients with AECOPD (n=429).**

	<b>N-LHS</b>	<b>MP-LHS</b>	<b>SP-LHS</b>	<b>Statistical</b>	<b>P</b>
	<b>(&lt;7 days)</b>	<b>(7-10 days)</b>	<b>(≥11 days)</b>	<b>values</b>	<b>value</b>
<b>Fever</b>	3	21	10	5.610	0.061
<b>WBC (×10<sup>9</sup>/L)</b>	7.085±2.719	8.551±3.720	7.833±3.373	6.977	0.001
<b>NS (×10<sup>9</sup>/L)</b>	4.958±2.558	6.293±3.504	5.847±3.230	6.327	0.002
<b>LYM (×10<sup>9</sup>/L)</b>	1.489±0.777	1.454±0.712	1.384±0.724	0.567	0.568
<b>EOS (×10<sup>9</sup>/L)</b>	0.222±0.204	0.291±0.569	0.187±0.191	2.326	0.099
<b>NS (%)</b>	67.659±11.966	71.171±11.894	72.305±10.408	4.917	0.008
<b>LYM (%)</b>	22.750±9.987	19.059±9.237	19.302±8.803	6.187	0.002
<b>EOS (%)</b>	3.476±2.915	3.506±5.261	2.734±2.720	1.238	0.291
<b>NLR</b>	4.556±6.054	6.007±8.138	5.468±5.274	1.560	0.211
<b>RBC (×10<sup>12</sup>/L)</b>	4.465±0.630	4.498±0.613	4.496±0.833	0.098	0.907
<b>HB (g/L)</b>	135.486±13.962	133.602±16.749	132.500±18.423	0.906	0.405
<b>HCT (L/L)</b>	41.047±3.995	40.467±4.946	40.146±5.347	0.973	0.379
<b>PLT (×10<sup>9</sup>/L)</b>	204.550±69.895	201.101±76.681	197.200±70.848	0.262	0.770
<b>PCT (ng/L)</b>	0.082±0.187	0.172±0.706	0.126±0.332	1.079	0.341
<b>CRP (mg/L)</b>	19.859±34.852	24.512±38.058	18.145±27.881	1.362	0.257
<b>ESR (mm/first hour)</b>	16.432±16.778	23.330±20.817	24.270±22.086	5.308	0.005
<b>ABG</b>					
<b>PH</b>	7.421±.0482	7.436±.0452	7.428±.0482	3.658	0.027
<b>PaCO2 (mmHg)</b>	43.279±11.145	42.329±10.775	43.370±12.447	0.417	0.659
<b>PaO2 (mmHg)</b>	79.748±21.895	80.252±25.475	81.230±22.548	0.105	0.901
<b>AB (mmol/L)</b>	27.711±4.442	28.093±5.358	28.170±5.428	0.263	0.769
<b>SB (mmol/L)</b>	27.009±2.574	27.489±3.0672	27.459±3.1697	1.036	0.356

<b>AG (mmol/L)</b>	10.616±4.780	11.423±5.048	10.885±4.814	1.098	0.335
<b>Serum Na (mmol/L)</b>	139.115±4.330	138.208±4.623	138.345±5.331	1.405	0.246
<b>Serum K (mmol/L)</b>	3.971±0.401	3.966±0.452	3.896±0.461	1.008	0.366
<b>Serum Ca (mmol/L)</b>	2.250±0.150	2.239±0.191	2.239±0.140	0.196	0.822
<b>Serum Mg (mmol/L)</b>	0.869±0.117	0.853±0.107	0.861±0.098	0.673	0.511
<b>ALB (g/L)</b>	39.294±4.038	38.100±3.945	37.664±4.665	4.617	0.010
<b>BUN (mmol/L)</b>	6.262±1.773	6.328±2.417	6.1565±2.180	0.207	0.813
<b>Cr (μmol/L)</b>	69.794±17.691	73.485±24.101	71.690±21.036	1.069	0.344
<b>ALT (IU/L)</b>	19.811±12.709	23.555±30.333	22.299±24.085	0.799	0.450
<b>AST (IU/L)</b>	21.829±12.370	26.523±36.230	25.710±26.957	0.950	0.388
<b>TBIL (μmol/L)</b>	10.006±4.537	10.921±5.597	10.806±4.602	1.230	0.293
<b>IBIL (μmol/L)</b>	6.254±3.174	6.271±3.249	6.242±3.016	0.003	0.997
<b>DBIL (μmol/L)</b>	4.002±2.153	4.581±2.598	4.701±2.259	2.776	0.063
<b>RBG (mmol/L)</b>	6.398±2.304	6.926±2.688	6.554±2.131	1.912	0.149
<b>LHS (days)</b>	4.622±1.342	8.844±1.399	15.440±4.058	590.262	0.000
<b>MV</b>				2.250	0.325
<b>Non-ventilation (n)</b>	105	200	89		
<b>NIPPV (n)</b>	6	18	10		
<b>IPPV (n)</b>	0	0	1		

Abbreviations: WBC: White blood cells; NS: Neutrophils; LYM: Lymphocytes; EOS: Eosinophils; NLR: Neutrophils-to-lymphocytes ratio; RBC: Red blood cell; HB: Hemoglobin; HCT: Hematocrit; PLT: Platelets; PCT: Procalcitonin; CRP: C-reaction protein; ESR: Erythrocyte sedimentation rate; ABG: Air blood gas; AB: Actual Standard bicarbonate; SB: Standard bicarbonate; AG: Anion gap; Na: Sodium ions; K: Potassium ions; Ca: Calcium ions; Mg: Magnesium ions; ALB: Albumin; BUN: Blood urea nitrogen; Cr: Creatinine; ALT: Alanine aminotransferase; AST: Aspartate aminotransferase; TBIL: Total bilirubin; IBIL: Indirect bilirubin; DBIL: Direct bilirubin; RBG: Random blood glucose; LHS: Length of

hospital stay; MV: Mechanical ventilation; NIPPV: Non-invasive positive pressure ventilation; IPPV: Invasive positive pressure ventilation.

**Table 3. Multiple logistics regression analysis of independent factors associated with  
LHS in AECOPD (n= 429).**

	Estimate	SEM	Wald	df	Sig	95% CI
<b>Age</b>	0.008	0.007	1.293	1	0.255	-0.006~0.021
<b>PH</b>	1.412	1.298	1.184	1	0.277	-1.132~3.956
<b>Lymphocytes (%)</b>	-0.004	0.009	0.190	1	0.663	-0.021~0.013
<b>ESR</b>	0.005	0.003	2.421	1	0.120	-0.001~0.012
<b>ALB</b>	-0.028	0.015	3.203	1	0.074	-0.058~0.003
<b>NS</b>	0.013	0.024	0.303	1	0.582	-0.034~0.060
<b>[Hypertension=0.00]</b>	-0.449	0.127	12.562	1	0.000	-0.697~-0.201
<b>[Hypertension=1.00]</b>	0	.	.	0	.	.
<b>[CAP=0.00]</b>	-0.067	0.131	0.262	1	0.609	-0.323~0.189
<b>[CAP=1.00]</b>	0	.	.	0	.	.
<b>[CCP =0.00]</b>	-0.445	0.167	7.100	1	0.008	-0.773~-0.118
<b>[CCP =1.00]</b>	0	.	.	0	.	.

Abbreviations: ESR: Erythrocyte sedimentation rate; ALB: Albumin; NS: Neutrophils; CAP: Community acquired pneumonia; CCP: Chronic cor pulmonale.