



**Figure S1.** Flowchart of the study and procedure selection

**Table S1.** Prognostic value of lymphocytes and early variation of lymphocyte according age or gender to predict severity of disease

Severity	Lymphocyte count		$\Delta$ lymphocytes H24	
	AUC [95% IC]	P	AUC [95% IC]	P
male	55.7371 [ 50.6916 ; 60.7826 ]	0.0244	62.4692 [ 57.134 ; 67.8045 ]	<0.001
female	55.2676 [ 47.7256 ; 62.8097 ]	0.1644	58.933 [ 50.8892 ; 66.9768 ]	0.0267
AGE<58	64.6534 [ 56.5681 ; 72.7387 ]	<0.001	68.5554 [ 60.4667 ; 76.6441 ]	<0.001
AGE=58,69	53.414 [ 45.7324 ; 61.0956 ]	0.3832	60.1199 [ 52.0976 ; 68.1421 ]	0.0139
AGE=69,79	58.2317 [ 50.6485 ; 65.8148 ]	0.0337	61.4056 [ 53.2386 ; 69.5726 ]	0.0061

AGE $\geq$ 79	63.5238 [ 50.334 ; 76.7137 ]	0.039	52.9075 [ 39.4888 ; 66.3262 ]	0.6588
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**Table S2.** Prognostic value of lymphocytes and early variation of lymphocyte according age or gender to predict mortality

Mortality	Lymphocyte count		$\Delta$ lymphocytes H24	
	AUC [95% IC]	P	AUC [95% IC]	P
male	65.4739 [ 59.5053 ; 71.4424 ]	<0.001	56.3789 [ 49.5827 ; 63.1751 ]	0.0656
female	55.6339 [ 46.2876 ; 64.9802 ]	0.2332	63.7241 [ 54.8638 ; 72.5843 ]	0.0022
AGE<58	80.8926 [ 66.0277 ; 95.7575 ]	<0.001	51.4357 [ 37.2431 ; 65.6283 ]	0.8362
AGE=58,69	56.8512 [ 43.0295 ; 70.6729 ]	0.3082	69.5767 [ 58.1491 ; 81.0044 ]	<0.001
AGE=69,79	57.5609 [ 48.3711 ; 66.7507 ]	0.1074	61.1524 [ 51.4125 ; 70.8924 ]	0.023
AGE $\geq$ 79	56.5304 [ 48.1727 ; 64.8882 ]	0.123	54.0022 [ 44.3554 ; 63.6489 ]	0.4145