SUPPLEMENTARY MATERIAL

Table S1 Moreno PIRO score

				Moı	eno PIR	O Score					
Box1:	0	4	5	6	7	8	9	10	11	14	16
Predisposition											
Age, years	<40	≥40<60				≥60<70			≥70<75	≥75<80	≥80
Location from		Same hospital									
which the patient											
was admitted to											
ICU											
Comorbidities				Cancer		Cirrhosis	AIDS				
Length of stay	<14		≥14<28		≥28						
before ICU											
admission, days											
Reason(s)forICU							Cardiac arrest				
admission											
Box2:Infection	0	4	5	7	8	9	10	11	14	16	
Acquisition		Nosocomial									
Extension		Other than									
		localized									
Site			Respiratiry								
Agent							Candida,fungi				
Box3:Response	0	4	5	7	8	9	10	11	14	16	
Organ dysfunction (OD)		Renal	Coagulation								

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Organ failure (OF)		Cardiovascular		CNS,coagulation			
		respiratory		renal			

 Table S2 Rubulotta PIRO Score

	Stratification Level									
Domain	0	1	2	3	4					
Predisposition	P0	P1	P2	P3	P4					
	Age<46yrs	Age46-64yrs,noCLD	Age64-85yrs,noCLD	Age46-64yrs with	Age64-85yrs with					
			and no congestive	CLD or 64-85yrs with	CLD orage>85yrs					
			cardiomyopathy	congestive						
				Cardiomyopathy						
Insult/infection	10	11	12	13	14					
	CA-UTI Gram-	CA-UTI not Gram-	CA infection except	Nosocomial acquired	Nosocomial					
	negative	negative	CA-UTI or	infection except	abdominal fungal					
			nosocomial Gram-	Gram-positive or	infection					
			positive	nosocomial fungal						
				nonabdominal						
				infection						
Response	R0	R1								
	No tachycardia and/or	Both tachycardia and								
	no tachypnea	tachypnea								
Organ dysfunction	O0	01	O2	O3	O4					
	2 OF	3 OF,1 hepatic	3 OF, none hepatic	4 OF	5 OF					

Table S3 Howell PIRO Score

Howell PIRO Score

	PIRO Score									
P Score		I Score		R Score		O Score				
Age	Points		Points		Points		Points			
<65	0	Pneumonia	4	Respiratory rate >20	3	BUN>20	2			
65-80	1	Skin/soft tissue infection	0	Bands>5%	1	Resp failure/ hypoxemia	3			
>80	2	Any other infection	2	Heart rate >120	2	Lactate>4.0	3			
COPD	1	Total Possible I Points	4	Total Possible R Points	6	Systolic Blood Pressure				
Liver Disease	2					<70	4			
Nursing Home Resident	2					70-90	2			
Malignancy						>90	0			
Without metastases	1					Platelet Count <150,000	2			
With metastaese	2					Total Possible O Points	14			
Total Possible P Points	9									
	P + I + R + O = PIRO									

 Table S4 Sequential Organ Failure Assessment (SOFA) score

Scores	0	1	2	3	4
Parameters					
Cardiovascular	MAP≥70 mmHg	MAP<70 mmHg	Dopamine <5 ug/kg/min	Dopamine 5.1-15	*DA>15 ug/kg/min,
			Dobutamine (any dose)	ug/kg/min,	Epinephirne or
				Epinephirne or	Norepinephrine > 0.1
				Norepinephrine	ug/kg/min
				≤ 0.1 ug/kg/min	
Respiratory	≥400	<400	< 300	<200 with respiratory	<100 with respiratory
PaO ₂ /FiO ₂ (mmHg)				support	support
Renal	<1.2	1.2-1.9	2.0-3.4	3.5-4.9	>5.0
Creatinine, (mg/dL)					
Urine output (mL/day)				<500	<200
Liver,	<1.2	1.2-1.9	2.0-5.9	6.0-11.9	>12.0
Bilirubin, (mg/dL)					
Coagulation	≥150	<150	<100	<50	<20
Platelets, ×10 ³ /uL					
Central nervous system/	15	13-14	10-12	6-9	<6
Glasgow Coma Score					

Table S5 Systemic inflammatory response syndrome criteria (SIRS)

- 1. Temperature >38°C or <36°C
- 2. Heart rate > 90 /min
- 3. Respiratory rate > 20 /min or PaCO₂< 32 mmHg
- 4. White blood cells count >12,000 or < 4,000 cells/mm 3 or bandemia> 10%

Table S6 Quick Sequential Organ Failure Assessment (qSOFA) score

Two or more criteria of

- 1. Sytstolic blood pressure (SBP) $\leq 100 \text{ mmHg}$
- 2. Respiratory rate \geq 22 /min
- 3. Glasgow Coma Score (GCS) ≤ 13

Table S7 P-value comparison between the area under receiving operating characteristic (AUC) of sepsis-base scores to predict ICU mortality

Score (AUC, 95%CI)	SIRS	Moreno	Rubulotta	Howell	SOFA
SIRS (0.595, 0.573-0.618)					
Moreno PIRO (0.804, 0.785-0.823)	<0.001				
Rubulotta PIRO (0.699, 0.676-0.722)	<0.001	<0.001			
Howell PIRO (0.703, 0.680-0.725)	<0.001	<0.001	0.74		
SOFA (0.838, 0.820-0.855)	<0.001	<0.001	<0.001	<0.001	
qSOFA (0.787, 0.770-0.805)	<0.001	0.15	<0.001	<0.001	<0.001

Table S8 P-value comparison between the area under receiving operating characteristic (AUC) of sepsis-base scores to predict hospital mortality in subgroup analysis (n = 1,239)

Score (AUC, 95%CI)	SIRS	Moreno	Rubulotta	Howell	SOFA
SIRS (0.587, 0.557-0.616)					
SIRS (0.387, 0.337-0.010)					
Moreno PIRO (0.869, 0.849-0.889)	<0.001				
Rubulotta PIRO (0.721, 0.693-0.748)	<0.001	<0.001			
Howell PIRO (0.724, 0.696-0.752)	<0.001	<0.001	0.79		
SOFA (0.883, 0.864-0.901)	<0.001	0.14	<0.001	<0.001	
qSOFA (0.839, 0.819-0.860)	<0.001	0.02	<0.001	<0.001	<0.001

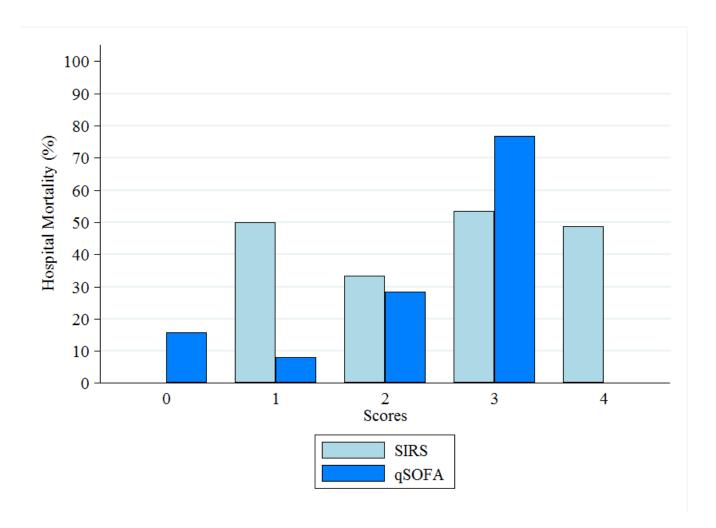


Figure S1 Mortality risk stratified by SIRS and qSOFA

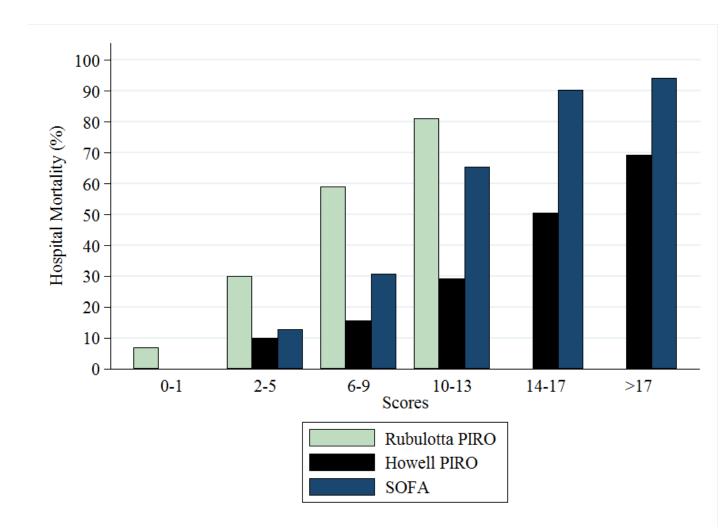


Figure S2 Mortality risk stratified by Rubulotta PIRO, Howell PIRO and SOFA scores

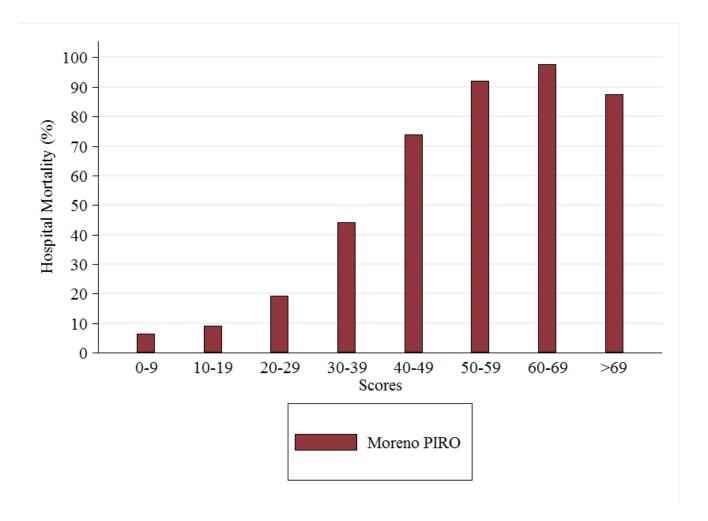


Figure S3 Mortality risk stratified by Moreno PIRO score

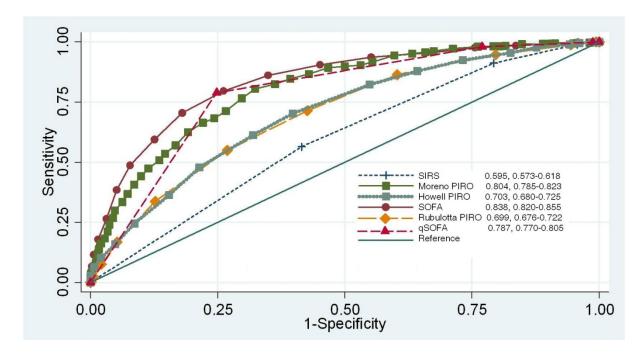


Figure S4 Area under ROC with 95% confidence interval of severity scores for predict ICU mortality