**Supplementary Table 1** Clinical characteristics of patients in the 176 diagnosed HF decompensations based on type of HF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Left-sided HF N = 48 | Right-sided HF N = 69 | Global HFN = 59 | *p*1 | *p*2 | *p*3 | N |
| CDSS score  | 2.01±1.07 | 1.92±0.92 | 2.52±0.83 | 0.88 | 0.02 | 0.002 | 176 |
| NYHA class III-IV, n (%) | 40 (83.3) | 40 (58) | 49 (83.1) | 0.004 | 0.97 | 0.002 | 176 |
| Systolic BP, mmHg | 121±20.3 | 121.9±20.8 | 122.9±19.2 | 0.97 | 0.89 | 0.96 | 176 |
| Heart rate, bpm | 77.5±17.1 | 75.1±15.3 | 78.7±16.7 | 0.73 | 0.93 | 0.46 | 176 |
| Urea, mg/dL | 63.5 (49.5-85.25) | 79 (55-125.5) | 93 (66-128) | 0.04 | 0.001 | 0.24 | 176 |
| eGFR, mL/min/1.73m2 | 49±25.3 | 46.3±22.3 | 37.8±18.5 | 0.81 | 0.03 | 0.09 | 176 |
| Hemoglobin, g/dL  | 12.3±1.6 | 11.5±2 | 11.4±1.7 | <0.05 | 0.03 | 0.96 | 171 |
| Na, mEq/L | 138.7±2.4 | 137±3.1 | 137.9±3.9 | 0.02 | 0.45 | 0.32 | 175 |
| K, mEq/L | 4.2±0.5 | 4.2.±0.5 | 4.3±0.5 | 0.95 | 0.81 | 0.57 | 174 |
| LUS1 total B-lines sum | 19.67±11.58 | 13.49±9.81 | 20.64±11.09 | 0.01 | 0.90 | 0.001 | 176 |
| NTproBNP, ng/L | 8765±10815 | 6797±7322 | 9842±8287 | 0.50 | 0.82 | 0.16 | 173 |
| sST2, ng/mL | 68.2±46.1 | 98.8±62.5 | 90.3±47.7 | 0.04 | 0.17 | 0.75 | 125 |
| CA125 U/mL | 26.5 (14.25-57.5) | 45.0 (16.0-133.0) | 56 (24.5-160.5) | 0.15 | 0.004 | 0.15 | 113 |

Data in mean±SD, median [Q1–Q3], or n (%).

*p*1: left-sided HF vs right-sided HF; *p*2: left-sided HF vs global HF; *p*3: right-sided HF vs global HF.

ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin II receptor blocker; CA125, cancer antigen 125; CDSS, HF clinical disease severity score; eGFR, estimated glomerular filtration rate (Chronic Kidney Disease Epidemiology Collaboration equation); LUS, lung ultrasound; LVEF, left ventricular ejection fraction; MRA, mineralocorticoid receptor antagonist; NTproBNP, N-terminal pro-brain natriuretic peptide; NYHA, New York Heart Association; sST2, soluble interleukin-1 receptor-like 1.

**Supplementary Table 2** LUS1 (Wet) data by lung areas based on the type of HF decompensation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Left-sided HF  | Right-sided HF  | Global HF  | *p*1 | *p*2 | *p*3 |
| LA1 | 2.04±2.00 | 1.19±1.93 | 2.02±2.35 | 0.10 | 1.00 | 0.09 |
| LA2 | 2.65±2.29 | 1.30±1.67 | 2.44±2.43 | 0.004 | 0.88 | 0.01 |
| LA3 | 2.27±2.59 | 1.30±1.54 | 2.03±2.73 | 0.08 | 0.87 | 0.20 |
| LA4 | 3.25±2.50 | 2.84±3.17 | 4.76±3.97 | 0.81 | 0.07 | 0.005 |
| LA5 | 1.46±1.46 | 1.28±1.69 | 1.63±1.59 | 0.83 | 0.86 | 0.46 |
| LA6 | 1.21±1.44 | 0.70±1.15 | 1.07±1.31 | 0.11 | 0.86 | 0.27 |
| LA7 | 2.63±2.32 | 1.71±1.94 | 2.29±1.64 | <0.05 | 0.68 | 0.25 |
| LA8 | 3.98±2.66 | 3.17±3.11 | 4.41±3.40 | 0.39 | 0.78 | 0.08 |
| TOTAL | 19.7±11.6 | 13.5±9.8 | 20.6±11 | 0.01 | 0.90 | 0.001 |

LA, lung area.

*p*1: left-sided HF vs right-sided HF; *p*2: left-sided HF vs global HF; *p*3: right-sided HF vs global HF.