**Table S6. Intra-examination precision of transthoracic echocardiography measurements according to mechanical ventilation.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | *One**measurement* | *Two**measurements* | *Three**measurements* | *Four**measurements* | *Five**measurements* |
| **TTE parameters** | *With invasive mechanical ventilation (n=54)* | *Without invasive mechanical ventilation (n=46)* | *With invasive mechanical ventilation (n=54)* | *Without invasive mechanical ventilation (n=46)* | *With invasive mechanical ventilation (n=54)* | *Without invasive mechanical ventilation (n=46)* | *With invasive mechanical ventilation (n=54)* | *Without invasive mechanical ventilation (n=46)* | *With invasive mechanical ventilation (n=54)* | *Without invasive mechanical ventilation (n=46)* |
| **LV parameters**  |  |  |  |  |  |  |  |  |  |  |
| E wave | 7 [3-11]% | 7 [5-11]% | 5 [2-8]% | 5 [3-8]% | 4 [2-6]% | 4 [3-6]% | 3 [2-6]% | 4 [2-6]% | 3 [1-5]% | 3 [2-5]% |
| A wave£ | 6 [4-9]% | 10 [5-14]%\* | 4 [3-6]% | 7 [3-10]%\* | 4 [2-5]% | 6 [3-8]%\* | 3 [2-5]% | 5 [2-7]%\* | 4 [3-6]% | 7 [3-10]%\* |
| e’ wave | 9 [6-12]% | 13 [5-17]%\* | 6 [4-8]% | 9 [4-12]%\* | 5 [3-7]% | 7 [3-10]%\* | 4 [3-6]% | 6 [3-8]%\* | 4 [3-5]% | 6 [2-7]%\* |
| E/A ratio£  | 8 [4-13]% | 12 [9-19]%\* | 6 [3-9]% | 8 [6-14]%\* | 5 [3-8]% | 7 [5-12]%\* | 4 [2-7]% | 6 [4-10]%\* | 4 [2-6]% | 5 [4-9]%\* |
| E/e’ ratio | 12 [8-18]% | 13 [8-20]% | 8 [5-13]% | 8 [5-14]% | 7 [4-10]% | 7 [4-12]% | 6 [4-9]% | 6 [4-10]% | 5 [3-8]% | 6 [3-9]% |
| s’ wave | 7 [5-13]% | 10 [6-13]% | 5 [3-9]% | 7 [5-9]% | 4 [3-8]% | 6 [4-8]% | 4 [2-7]% | 5 [3-7]% | 3 [2-6]% | 5 [3-6]% |
| VTI | 6 [4-9]% | 8 [5-12]% | 4 [2-6]% | 5 [3-8]% | 3 [2-5]% | 4 [3-7]% | 3 [2-5]% | 4 [2-6]% | 3 [2-4]% | 3 [2-5]% |
| LVEF | 14 [6-17]% | 14 [7-20]% | 10 [5-12]% | 10 [5-14]% | 8 [4-10]% | 8 [4-11]% | 7 [3-8]% | 7 [4-10]% | 6 [3-7]% | 6 [3-9]% |
|  |  |  |  |  |  |  |  |  |  |  |
| **RV parameters** |  |  |  |  |  |  |  |  |  |  |
| TAPSE | 8 [6-13]% | 9 [6-14]% | 6 [4-9]% | 6 [4-10]% | 5 [3-7]% | 5 [3-8]% | 4 [3-6]% | 4 [3-7]% | 4 [2-6]% | 4 [3-6]% |
| S wave | 8 [5-12]% | 9 [4-14]% | 6 [3-9]% | 6 [3-10]% | 5 [3-7]% | 5 [2-8]% | 4 [2-6]% | 4 [2-7]% | 4 [2-6]% | 4 [2-6]% |
|  |  |  |  |  |  |  |  |  |  |  |
| **LV and RV dimensions** |  |  |  |  |  |  |  |  |  |  |
| LVEDA | 7 [5-11]% | 6 [4-9]% | 5 [3-8]% | 4 [3-7]% | 4 [3-6]% | 3 [2-5]% | 4 [2-5]% | 3 [2-5]% | 3 [2-5]% | 3 [2-4]% |
| RVEDA | 8 [6-14]% | 10 [6-13]% | 6 [4-10]% | 7 [4-9]% | 5 [3-8]% | 6 [4-8]% | 4 [3-7]% | 5 [3-7]% | 4 [3-6]% | 5 [3-6]% |
| RVEDA/LVEDA ratio | 11 [6-17]% | 12 [6-16]% | 8 [4-12]% | 9 [4-12]% | 6 [4-10]% | 7 [4-10]% | 6 [3-8]% | 6 [3-8]% | 5 [3-8]% | 5 [3-7]% |

n=100, data are summarised as median [interquartile range]. \*p <0.05 without *vs.* with invasive mechanical ventilation.

£Concerning the A wave and the E/A ratio, n=49 and n=35 in patients with and without invasive mechanical ventilation respectively.

LV: left ventricular; RV: right ventricular; TTE: transthoracic echocardiography; E: early peak velocity of transmitral flow at pulsed Doppler; A: atrial peak velocity of transmitral flow at pulsed Doppler; e’: early diastolic peak velocity of the lateral mitral annulus at Tissue Doppler Imaging; s’: systolic peak velocity of the lateral mitral annulus at Tissue Doppler Imaging; VTI: velocity-time integral of the left ventricular outflow tract; LVEF: left ventricular ejection fraction; TAPSE: tricuspid annular plane systolic excursion; S: systolic peak velocity of the tricuspid annulus at Tissue Doppler Imaging; LVEDA: left ventricular end-diastolic area; RVEDA: right ventricular end-diastolic area.