

# **Diaphragm ultrasound as indicator of respiratory effort in critically ill patients undergoing assisted mechanical ventilation: a pilot clinical study**

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Table S1 – Intraobserver reliability of ultrasonographic measurements of diaphragm function

**End Inspiratory diaphragmatic thickness (cm)**

Observer	Mean	Range	IntraCC	Repeatability coeff (cm)
1 (D.L.)	0.395	0.16; 0.59	0.877	0.041
2 (A.G.)	0.396	0.18; 0.57	0.876	0.039

**End Expiratory diaphragmatic thickness (cm)**

Observer	Mean	Range	IntraCC	Repeatability coeff (cm)
1 (D.L.)	0.282	0.15; 0.45	0.985	0.030
2 (A.G.)	0.280	0.17; 0.43	0.986	0.020

**Thickening fraction (%)**

Observer	Mean	Range	IntraCC	Repeatability coeff (%)
1 (D.L.)	42.4	3; 84	0.986	10.6
2 (A.G.)	44.5	2; 83	0.990	8.89

**Respiratory diaphragmatic displacement (cm)**

Observer	Mean	Range	IntraCC	Repeatability coeff (cm)
1 (D.L.)	1.97	0.80; 3.18	0.998	0.080
2 (A.G.)	1.91	0.74; 3.18	0.999	0.068

IntraCC: Intra-class correlation coefficient; Repeatability coeff: repeatability coefficient

**Table S2 - Interobserver reliability of ultrasonographic measurements of diaphragm function**

**End Inspiratory diaphragmatic thickness (cm)**

Mean	Range	InterCC	Repeatability coefficient (cm)	Difference between the two observers	
				Mean	95% CI
0.39	0.17; 0.58	0.965	0.065	-0.001	-0.081; 0.079

**End Expiratory diaphragmatic thickness (cm)**

Mean	Range	InterCC	Repeatability coefficient (cm)	Difference between the two observers	
				Mean	95% CI
0.28	0.16; 0.43	0.989	0.023	-0.006	-0.113; 0.001

**Thickening fraction (%)**

Mean	Range	InterCC	Repeatability coefficient (%)	Difference between the two observers	
				Mean	95% CI
41.5	4.6; 82.1	0.936	17.9	0.89	-4.58; 6.36

**Respiratory diaphragmatic displacement (cm)**

Mean	Range	InterCC	Repeatability coefficient (%)	Difference between the two observers	
				Mean	95% CI
1.94	0.77; 3.18	0.988	0.256	0.065	-0.48; 0.62

InterCC: Inter-class correlation coefficient;; 95% CI: 95% confidence interval