

Table 1: Anthropometric and ultrasonographic features of the total sample, by gender, side and respiratory moment

	Subjects (total measurements)	Age (years)	Height (m)	Weight (kg)	BMI (kg/m ²)	Thorax circumference (cm)	Skin to rhomboid distance (mm)	Rhomboid to pleura distance (mm)	Skin to pleura distance (mm)
Sample	59	28.0 ± 9.1	1.71 ± 0.08	68.8 ± 14.3	23.2 ± 3.4	85.2 ± 11.4	14.0 ± 3.7	9.8 ± 2.6	23.9 ± 3.4
Gender									
Male	31 (n=124)	30.4 ± 10.3*	1.77 ± 0.06*	78.9 ± 10.9*	25.0 ± 3.0*	93.1 ± 8.6*	16.2 ± 3.2*	11.5 ± 2.1*	27.7 ± 3.2*
Female	28 (n=112)	25.5 ± 6.6	1.64 ± 0.06	57.6 ± 7.8	21.2 ± 2.6	76.1 ± 6.5	11.6 ± 2.7	7.9 ± 1.6	19.6 ± 2.5
Breathing									
Inspiration	59 (n=118)	28.0 ± 9.1	1.71 ± 0.08	68.8 ± 14.3	23.2 ± 3.4	93.3 ± 8.5*	13.6 ± 3.4	9.5 ± 2.6**	23.1 ± 3.1
Expiration	59 (n=118)	28.0 ± 9.1	1.71 ± 0.08	68.8 ± 14.3	23.2 ± 3.4	76.3 ± 6.3	14.5 ± 3.9	10.1 ± 2.5	24.6 ± 3.4
Side									
Left	59 (n=118)	28.0 ± 9.1	1.71 ± 0.08	68.8 ± 14.3	23.2 ± 3.4	85.2 ± 11.4	14.0 ± 3.6	10.1 ± 2.6	24.2 ± 3.1
Right	59 (n=118)	28.0 ± 9.1	1.71 ± 0.08	68.8 ± 14.3	23.2 ± 3.4	85.2 ± 11.4	14.0 ± 3.8	9.5 ± 2.5	23.6 ± 3.0

* Significant differences between groups (gender, respiratory moment or side) (P<0.001)

** Significant differences between groups (gender, respiratory moment or side) (P<0.05)

Table 2: Pearson-Product Moment Correlation Matrix

		1	2	3	4	5	6	7	8
Skin to pleura distance	1. Skin to pleura distance								
	2. Respiratory moment	.135*							
	3. Age	.202**	n.s.						
	4. Thorax circumference	.695**	-.297**	.329**					
	5. Weight	.471**	n.s.	.272**	.591**				
	6. Height	.761**	n.s.	.274**	.869**	.735**			
	7. BMI	.749**	n.s.	.170**	.797**	.324**	.882**		
	8. Gender	-.717**	n.s.	-.270**	-.747**	-.698**	-.742**	-.555**	
	9. Side	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Skin to rhomboid distance	1. Skin to rhomboid distance								
	2. Respiratory moment	n.s.							
	3. Age	n.s.	n.s.						
	4. Thorax circumference	.584**	-.297**	.329**					
	5. Weight	.363**	n.s.	.272**	.591**				
	6. Height	.633**	n.s.	.274**	.869**	.725**			
	7. BMI	.652**	n.s.	.170**	.797**	.324**	.882**		
	8. Gender	-.609**	n.s.	-.270**	-.747**	-.698**	-.742**	-.555**	
	9. Side	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
n.s. non-significant, * P < 0.05; ** P < 0.01									

Table 3: Summary of the Regression Analyses to determine Predictors of Pleura Depth

Predictor Outcome		<i>B</i>	SE B	95% CI	β	<i>t</i>	<i>P</i>
Skin to pleura distance	Step 1						
	BMI	.122	.007	.108, .136	.749	17.289	.0001
	Step 2						
	BMI	.083	.007	.069, .097	.508	11.617	.0001
	Gender	-.491	.049	-.588, -.394	-.435	-9.965	.0001
	Step 3						
	BMI	.096	.010	.077, .115	.590	9.815	.0001
	Gender	-.595	.062	-.687, -.444	-.501	-9.171	.0001
	Thorax circumference	-.007	.004	-.015, .000	-.149	-1.978	.049

Skin to pleura distance: R^2 adj. = .559 for step 1, R^2 adj. = .692 for step 2, R^2 adj. = .697 for step 3,

Table 4: Summary of the Regression Analyses to determine Predictors of Rhomboid Depth

	Predictor Outcome	<i>B</i>	SE <i>B</i>	95% CI	β	<i>t</i>	<i>P</i>
Skin to rhomboid distance	Step 1						
	BMI	.071	.005	.060, .081	.652	13.149	.0001
	Step 2						
	BMI	0.049	.006	.038, .061	.454	8.263	.0001
	Gender	-.268	.041	-.349, -.187	-.357	-6.497	.0001
	Step 3						
	BMI	.061	.008	.045, .077	.559	7.401	.0001
	Gender	-.331	.052	-.433, -.229	-.441	-6.419	.0001
	Thorax circumference	-.006	.003	-.012, .000	-.190	-2.011	.045

Distal-third soleus depth: R^2 adj. = .422 for step 1, R^2 adj. = .509 for step 2, R^2 adj. = .515 for step 3