Annexes of the study of "Correlation of anthropometric measurements and ultrasound measurements to establish dry needling protocol of the iliocostalis lumborum muscle: cross-sectional observational study."

Annex SI. Normality tests.

Table S1. Normality test

#	W	p value
Weight	0.057	0.845
Height	0.068	0.597
Body Mass Index	0.059	0.813
Neutral axillary circumference	0.093	0.156
Neutral xiphoid circumference	0.111	0.038
Neutral abdominal circumference	0.110	0.039
Inspiration axillary circumference	0.085	0.253
Axillary expiratory circumference	0.100	0.088
Inspirational xiphoid circumference	0.125	0.010
Expiratory xiphoid circumference	0.092	0.159
Inspiration abdominal circumference	0.099	0.094
Abdominal expiratory circumference	0.091	0.179

#	W	p value
Chest-triceps skinfolds thickness	0.095	0.137
Abdomen-iliac crest skinfolds thickness	0.180	0.000
Thigh skinfolds thickness	0.086	0.241
fat percentage	0.080	0.354
Right L2 without compression: skin-lumbar iliocostal upper border	0.292	0.000
Right L2 without compression: lumbar iliocostal skin-inferior border	0.325	0.000
Right L2 without compression: skin-kidney	0.328	0.000
Right L2 with compression: skin-lumbar iliocostal upper border	0.303	0.000
Right L2 with compression: lumbar iliocostal skin-lower edge	0.335	0.000
Right L2 with compression: skin-kidney	0.333	0.000
Left L2 without compression: skin-lumbar iliocostal upper border	0.274	0.000
Left L2 without compression: lumbar iliocostal skin-inferior border	0.309	0.000
Left L2 without compression: skin-kidney	0.320	0.000
Left L2 with compression: skin-lumbar iliocostal upper border	0.306	0.000
Left L2 with compression: lumbar iliocostal skin-lower edge	0.333	0.000

	W	p value
#		
Left L2 with compression: skin-kidney	0.334	0.000
Right L4 without compression: skin-lumbar iliocostal upper border	0.278	0.000
Right L4 without compression: lumbar iliocostal skin-inferior border	0.309	0.000
Right L4 without compression: skin-peritoneum	0.308	0.000
Right L4 with compression: skin-lumbar iliocostal upper border	0.300	0.000
Right L4 with compression: lumbar iliocostal skin-inferior border	0.316	0.000
Right L4 with compression: skin-peritoneum	0.320	0.000
Left L4 without compression: skin-lumbar iliocostal upper border	0.281	0.000
Left L4 without compression: lumbar iliocostal skin-inferior border	0.324	0.000
Left L4 without compression: skin-peritoneum	0.327	0.000
Left L4 with compression: skin-lumbar iliocostal upper border	0.314	0.000
Left L4 with compression: lumbar iliocostal skin-inferior border	0.329	0.000
Left L4 with compression: skin-peritoneum	0.331	0.000
	W	p value

Annex SII. Results depending on kind of measurements (with compression VS without compression).

Table S2. Results depending on kind of measurements (with VS without compression).

#	P hdvxuhp hqwv/ z lwkrxw#frp suhvvlrq#	P hdvxuhp hqwv/ z lwk#frp suhvvlrq#	ᵈs#ydoxh#
q#	99#	99#	#
O5‡uljkw#vnlq(nlgqh|#	57169Ø5613;#	591:9Ø571k8#	313;:#
O5‡ohiw#vnlq(nlgqh|#	57144Ø55189#	5818;Ø561;8#	3178#
O7‡uljkw#vnlq(shulwrqhxp #	5:17·9Ø591:;#	6314;Ø5;1;3#	31578#
O7‡ohiw#vnlq(shulwrqhxp #	5;18<Ø5:16:#	63143Ø5;195#	31987#

Gdwd#h{suhvvhg#dv#p hdq0#vwdqgdug#ghyldwlrq:

ᵈtvljqlilfdqw#li#s?3138:#

Annex SIII. Regression analysis. Dominant vs. non-dominant side comparison.

Table S3. Dominant vs. non-dominant side comparison.

#	grp lqdqw#dhj#	qrq(grp lqdqw#dhj#	dwⁱs#ydoxh#
q#	9;#	9;#	#
O5#z lwkrxw#vln#frp suhvvlrq#ksshu#lorfrvwd#bxp edu#hgjh#	;184Ø<148#	:1k4Ø;17;#	318#
O5#z lwkrxw#vln#frp suhvvlrq#lqihulru#lorfrvwd#bxp edu#hgjh#	4;1;Ø4:167#	4<15Ø4:1:#	31;97#
O5#z lwkrxw#hlgqh|#vln#frp suhvvlrq#	58145Ø56156#	58156Ø56143#	31;4;#
O5#z lwk#bxp edu#lorfrvwd#ksshu#hgjh#vln#frp suhvvlrq#	;17<Ø;1 5#	;1 6Ø<148#	31 :4#
O5#z lwk#bxp edu#lorfrvwd#orz hu#hgjh#vln#frp suhvvlrq#	54145Ø4<17<#	531;Ø4<14<#	31 57#
O5#z lwk#hlgqh|#vln#frp suhvvlrq#	5:17ØØ571k3#	591:7Ø57167#	31964#
O7#z lwkrxw#vln#frp suhvvlrq#ksshu#lorfrvwd#bxp edu#hgjh#	441;3Ø45184#	<1:9Ø44136#	31456#
O7#z lwkrxw#vln#frp suhvvlrq#lqihulru#lorfrvwd#bxp edu#hgjh#	5519:Ø5417:#	55135Ø54187#	31k;<#
O7#z lwkrxw#frp suhvvlrq#vln#shulrqhxp #	5;17;Ø591k<#	5;17:Ø5:158#	31 66#
O7#z lwk#vln#frp suhvvlrq#ksshu#lorfrvwd#bxp edu#hgjh#	431;8Ø441k3#	<1;7Ø4317;#	31958#
O7#z lwk#vln#frp suhvvlrq#orz hu#lorfrvwd#bxp edu#hgjh#	5714<Ø56143#	5616:Ø551:9#	31976#
O7#z lwk#shulrqhxp #vln#frp suhvvlrq#	631k5Ø5<135#	5<1:;Ø5;16;#	3196;#

Gdwd#h{suhvvhg#dv#p hdqØ#vwdqgdug#ghyldwlrq1#

#

ᵈᵗvljqlilfdqw#li#s?31381#

Annex SIV. Smoothed model with the dependent variable L4 without compression

Table S4. Smoothed model with the dependent variable L4 without compression.

#	HG I#	gi$_{ihi}$#	I#	ᵈs‡ ydoxh#
Djh#	31333#	6#	31333#	3k;:#
Erg|#Pdvv#Lqgh{#	4174<#	5#	5147:#	3137;#
Qhxwudo#d{loodu|#flufxp ihuhqfh#	31;6<#	6#	41558#	31366#
Qhxwudo#derp lqdo#flufxp ihuhqfh#	41k:8#	6#	;1:59#	?31334#
Fkhvw0wulfhsv#vnlqirog#wklfnqhvv#	4178;#	6#	51745#	31345#
Derp hq0Lldf# fuhw# vnlqirog+ wklfnqhvv#	41333#	6#	71k8:#	?31334#
Wkljk#vnlqirog#wklfnqhvv#	41588#	6#	31k46#	31445#

HG I#Hiihfwlyh#ghjuhhv#ri#iuhhgrp 1#gi$_{ihi}$ uhihuhqfh#ghjuhhv#ri#iuhhgrp #

ᵈvljqlilfdqw#s?3138:#

Annex SV. Smoothed model with the dependent variable L4 with compression.

Table S5. Smoothed model with the dependent variable L4 with compression.

#	HG I#	gi$_{hi}$#	I#	^{d}s‡ ydoxh#
Djh#	3I333#	6#	3I333#	3k77#
Erg|#P dvv#tqgh{#	4k3:#	6#	51;:6#	3I3<#
Qhxwudo#d{loolu|#Flufxp ihuhqfh#	3I8:8#	6#	3I8<<#	3I3:6#
Qhxwudo#degrp lqdo#Flufxp ihuhqfh#	4k<:#	6#	43I593#	?3I334#
Fkhvw0wulsfhsv#vnlqirog#wklfnqhvv#	31;<5#	6#	519;7#	3I36#
Degrp hq(bbdf# fuhw# vnlqirog} wklfnqhvv#	3k96#	6#	71937#	?3I334#
Wkljk#vnlqirog#wklfnqhvv#	3I333#	6#	3I333#	3I8:5#

HG I#Hiihfwlyh#ghjuhhv#ri#uhhgrp 1#

gi$_{hi}$#ihihuhqfh#ghjuhhv#ri#uhhgrp #

^{d}vljqlilfdqw#s?3I38‡#

Annex SVI. Smoothed model with the dependent variable L2 without compression.

Table S6. Smoothed model with the dependent variable L2 without compression.

#	HGI#	gi_hi#	I#	ᵈs‡ ydoxh#
Djh#	419;5#	6#	;1;87#	?31334#
Erg|#Pdvv#qgh{#	41686#	6#	41386#	313;7#
Qhxwudo#d{loodu|#flufxp ihuhqfh#	31333#	6#	31333#	3176<#
Qhxwudo#degrp lqdd#flufxp ihuhqfh#	4189;#	6#	41856#	31374#
Fkhvw(wulfhsv#vnlqirog#wklfnghvv#	513;5#	6#	5;14:5#	?31334#
Degrp hq(bodf fuhvv vnlqirog‡ wklfnghvv#	31;<5#	6#	451k36#	?31334#
Wkljk#vnlqirog#wklfnghvv#	31k;;#	6#	<41468#	?31334#

HGI#Hiihfwlyh#ghjuhhv#ri#iuhhgrp #

gi_hi#ihihuhqfh#ghjuhhv#ri#iuhhgrp #

ᵈvljqlilfdqw#s?3138‡#

Annex SVII. Smoothed model with the dependent variable L2 with compression.

Table S7. Smoothed model with the dependent variable L2 with compression.

#	HG I#	gi_{thi}#	I#	ᵈs‡ ydoxh#
Djh#	3⅓33#	6#	3⅓33#	4#
Erg|#P dvv#qgh{#	4⅙74#	5#	4⅛68#	3⅓97#
Qhxwdo#d{boolu|#flufxp ihuhqfh#	3⅛96#	6#	4⅛<9#	3⅓4:#
Qhxwdo#degrp lqdo#flufxp ihuhqfh#	4k95#	6#	43⅔<;#	?3⅓34#
Fkhvw0ulfhsv#vnlqirog#wklfnhvv#	3⅛:7#	6#	5⅓:6#	3⅓3<#
Degrp hq(lodf# fuhvv# vnlqirog‡ wklfnhvv#	4⅓33#	6#	7⅑::#	?3⅓34#
Wkljk#vnlqirog#wklfnhvv#	4⅐7:#	6#	4⅕4:#	3⅓;63#

HG I=Hiihfwlyh#ghjuhhv#ri#iuhhgrp #

gi_{thi}#=ihihuhqfh#ghjuhhv#ri#iuhhgrp #

#
ᵈvljqlilfdqw#s?3⅓8⅞#