

Effect of Pelvic Correction Exercise with Kinesio Taping Treatment on Trunk Isokinetic Muscle Function and Movement of Female Dancers who have Lumbar hypolordosis

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INTRODUCTION

The purpose of this study was to verify the effects of pelvic correction exercise with kinesio taping treatment on the trunk isokinetic muscle function, flexibility and movement of female dancers with lumbar hypolordosis. It provides basic data on developing various exercise therapies and more effective application methods to improve Activity of Daily Living (ADL) and health-related fitness, and to verify the effectiveness of kinesio taping treatment.

METHODS

This study was conducted on female dancers who visited the B Rehabilitation Medicine Hospital, Y residence, D region, from December of 2019 to February of 2020. The subjects who did not get surgery and medication were selected. Prior to this study, 36 subjects who fully understood the purpose of the experiment and voluntarily participated in the experiment were selected as subjects.

Table 1. Demographic data

	Age (yrs)	Height (cm)	Weight (kg)	BMI (kg/㎡)	Body Fat (%)
NEG	27.16	163.86	48.32	23.03	21.64
(n=12)	±8.94	±4.23	±3.62	±2.06	±2.08
PCEG	27.16	163.36	48.48	22.12	21.16
(n=12)	±8.94	±4.84	±3.68	±2.32	±2.22
TPEG	28.32	161.94	50.26	23.04	22.28
(n=12)	±12.67	±5.02	±4.84	±2.22	±2.24

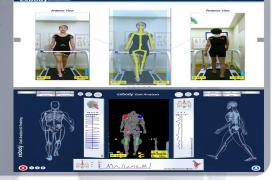
Table 2. Exercise program

	ExerciseProgram Skipping, Side Steps, Carloca, Back Slaps		Rest			
Stage			1~4 Week (reps/set)	5~8 Week (reps/set)	9~12 Week (reps/set)	Motion Frequency
Warm-up (10 mln)			10/3	10/3	10/3	APE 8~10
	Prone Position Supine Position Lateral Position	elbow stand elbow stand left(light) leg up end stand left(light)				
Work-out	Elastic Band Training	ght) leg up 1. Squirt 2. Lunge	10/2	10/3	10/5	RPE
(40min)	211	Side Lunge One Feet Balanci ng Two Feet Balanci ng	10/2	10/0	10,0	
	Balance Ball Training	3. Walking in Balanc e Bali 4. Run in Balance B all				
Cool- down (10min)	Ham String Stretch, Shoulder Stretch Calf Stretch, Adductor Stretch Quadriceps Stretch, It band Stretch		10/3	10/3	10/3	RPE 8~10

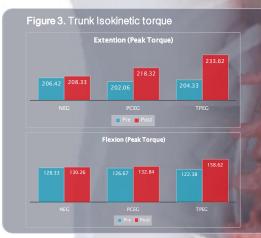
Figure 1. Kinesio taping methods

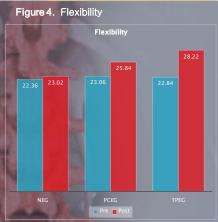


Figure 2. Trunk movement ability measurement method



RESULTS







CONCLUSION

Based on the results of this study, it was verified that pelvic correction exercise with kinesio taping can have a positive effect on Trunk isometric muscle function, flexibility, and movement of female dancers who have hypolordosis.