

Effect of core strength training on C-level difficulty movements of Wushu routine athletes

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Dear Professor

Hello!

I am a doctoral student in Physical Education in UPM. This is an experimental research process on the impact of core strength training on the C- level difficulty of Competitive Wushu routines. The subjects were 18-22year old Wushu athletes. The data obtained from this survey are only for academic research. Therefore, investigators sincerely invite experts to score each stage of investigators experiment, help investigators do this experiment better. Thank you very much.

This paper designs the core strength training scheme based on the query and reference of relevant literature and the characteristics of C-level difficult movements of Wushu. The training plan of the experimental group includes three stages (weeks 1-3; weeks 4-9; and week 10-12). Each stage consists of different difficulty levels. The training program is divided into 6difficulty levels, and the specific training contents are as follows:

6 dif	fficulty	Content
levels		
Static under state	action steady	Mainly to strengthen the muscle endurance and waist and abdomen strength of the body.
No	load	Mainly to strengthen the
movement	in in	fast muscle strength and
steady stat	te	waist and abdomen

Part I: Difficulty Level of Core Strength Training. (Table 1) Table 1 Content of 6 difficulty levels

	strength of the body.
Static action	Mainly to strengthen the
under unstable	muscle endurance of the
state	body and the strength of
	the deep muscles of the
	waist and abdomen.
Movement to	Mainly to strengthen the
overcome its	muscle explosive force
own resistance	and waist of the body in a
in an unstable	dynamic state Abdominal
state	control force.
Free strength	Strengthen the muscle
exercise in	strength and coordination
unstable state	ability of the body in a
	dynamic state.
Core explosive	Mainly to strengthen the
power exercise	muscle speed and the
under unstable	explosive strength of the
conditions	waist and abdomen in the
	dynamic process of the
	body.

Expert score: your evaluation of the six difficulty levels of students' experiment is (the full score is 10 points: 10 points for very applicable, 9 points for more applicable, 8 points for basic applicable and 7 points for not applicable.):

- Overy applicable (10 points)
- O More applicable (9 points)
- O Basically applicable (8 points)
- O Not applicable (7 points)

Modification opinions of experts:

Part II: Core Strength Training Plan. (Weeks 1-3; weeks 4-9; and weeks 10-12)

(1) Basic stage of core strength trainingTraining time: 30 minutes three times a week for 1-3 weeksTraining content: static action in stable state, no-load movement in stable state and static action in unstable stateNumber and times of training groups (Table 2)

Training Phase	Training Content	Time And
		Frequency
Preparation part (5 minutes)	Jogging	3 minutes 3×50m
	Neck movement (front,	30S 4×8
	rear, left and right)	
	Shoulder movement	30S 4×8
	Waist movement	30S 4×8
	Lunge leg press	30S 4×8
Static action under steady	Flat brace	$60S \times 2$ groups
state (12 minutes)	Single side support of flat support (left)	
	Single side support of flat support (right)	$60S \times 2$ groups
	Reverse plate support	$60S \times 2$ groups
	Side bridge elbow support (left)	60S × 2 groups
	Side bridge elbow support (right)	60S × 2 groups
No load movement in steady state (9 minutes)	Suspension leg lift	60S × 3 groups
	Drape knees and tuck in (left)	$60S \times 2$ groups

Table 2 contents of core strength training in week 1-3 basic stage

	Drape, bend knees and 60S × 2 groups
	tuck in (right)
	Hanging upside down $60S \times 2$ groups
Static action under unstable	Lateral hip abduction $60S \times 2$ groups
state (4 minutes)	(left)
	Lateral hip abduction $60S \times 2$ groups
	(right)

Expert score: your evaluation of the content and structure of the students' experiment in the first stage is (the full score is 10 points, 10 points are very applicable, 9 points are more applicable, 8 points are basically applicable, and 7 points are not applicable.)

Overy applicable (10 points)

O More applicable (9 points)

OBasically applicable (8 points)

O Not applicable (7 points)

Modification opinions of experts:

(2) Core strength training consolidation stage

Training time: 30 minutes three times a week for 4-9 weeks

Training content: Static action in unstable state, movement to overcome self-resistance in unstable state, free force exercise in unstable state.

Number and times of training groups (Table 3)

Table 3 contents of core strength training in week 4-9 basic stage

Training Phase	Training Content	Time And
		Frequency
Preparation part (6 minutes)	Jogging	4 minutes 4×50m
	Neck movement (front,	30S 4×8
	rear, left and right)	
	Shoulder movement	30S 4×8
	Waist movement	30S 4×8

	Lunge leg press	30S 4×8
Static action under unstable	Lateral hip abduction	60S ×3groups
state (6 minutes)	(left)	
	Lateral hip abduction	$60S \times 3$ groups
	(right)	
Movement to overcome its	Push down leg arm flat	$60S \times 3$ groups
own resistance in an	hip (left)	
unstable state (9 minutes)		
	Push down leg arm flat	60S ×3groups
	hip (right)	
	Upside down	60S ×3 groups
	abdominal retraction	
	(bilateral)	
Free strength exercise in	Prone mass body	60S × 3groups
unstable state (9 minutes)		
	Prone push-pull	$60S \times 3$ groups
	Swiss Ball push up	$60S \times 3$ groups

Expert score: your evaluation of the content and structure of the students' experiment in the second stage is (the full score is 10 points, 10 points are very applicable, 9 points are more applicable, 8 points are basically applicable, and 7 points are not applicable.)

- Overy applicable (10 points)
- O More applicable (9 points)
- OBasically applicable (8 points)
- O Not applicable (7 points)

Modification opinions of experts:

(3) Core strength training improvement stage

Training time: 30 minutes three times a week for 10-12 weeks

Training contents: free strength exercise under unstable conditions,

core explosive force exercise under unstable conditions, and core

special strength exercise under unstable conditions.

Number and times of training groups (Table 4) Table 4 contents of core strength training in week 4-9 basic stage

Training Phase	Training Content	Time And
		Frequency
Preparation part (4 minutes)	Jogging	2 minutes 2×50m
	Neck movement (front,	30S 4×8
	rear, left and right)	
	Shoulder movement	30S 4×8
	Waist movement	30S 4×8
	Lunge leg press	30S 4×8
Free strength exercise in	Flat brace (two points)	60S × 2groups
unstable state (10 minutes)	Prone mass body	60S ×2groups
	Prone push-pull	60S ×2 groups
	Swiss Ball push up	$60S \times 4$ groups
No load movement in	Suspension leg lift	$60S \times 2$ groups
steady state (8 minutes)	Drape knees and tuck	$60S \times 2$ groups
	in (left)	
	Drape, bend knees and	$60S \times 2$ groups
	tuck in (right)	
	Hanging upside down	60S × 2groups
Core explosive force	Lie on your back and	60S × 2 groups
exercise under non-stability	bend your knees at	
(8minutes)	both ends	

Plate support knee lift	$60S \times 2$ groups
Rotation of stretch belt	60S × 2 groups
(both sides)	
Lie on your back and	$60S \times 2$ groups
throw the ball	

Expert score: your evaluation of the content and structure of the students' experiment in the second stage is (the full score is 10 points, 10 points are very applicable, 9 points are more applicable, 8 points are basically applicable, and 7 points are not applicable.)

Overy applicable (10 points)

O More applicable (9 points)

O Basically applicable (8 points)

O Not applicable (7 points)

Modification opinions of experts: