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Difference about level to psychological before competition of dong Nai traditional martial arts athletes

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Abstract

After applied the POMS questionnaire (Profile of mood state) to measure the psychological state of the athletes of Dong Nai traditional martial arts, and through ANOVA analysis, discovering psychological state before competing between 3 groups of athletes with different qualifications of Dong Nai traditional martial arts team has different manifestations. As a basis for coaches to get better psychological preparation for athletes to achieve higher performance in competitions.

Keywords: Psychological state before competitions, Dong Nai Traditional martial arts athlete, POMS

1. Introduction

Vietnam Traditional martial arts is a sport of knockout competition and high resistance. During the competition, the movements are constantly changing, the tactics are complex in many forms, Athletes must both perform attacks or counter-attacks to score points with hands or feet while moving to avoid the attack, block the attack and dodge... so that the opponent won't score. This requires players to have a stable mentality, firm and highly concentrated, brave and determined, with high willpower right from before to the end of the competition. However, before and during the competition, players are easy to be pessimistic, fluctuating when meeting stronger opponents. But, when being stronger than the opponent, it can also arise subjective psychology, from which there are mistakes in the tactics, from confidence to loss of temper, confusion, and other mental pressures such as home, away, referee, facilities etc.. leading to unnecessary failure. According to psychologists, one of the basic causes of that condition is the athlete's psychological state. Following the previous research step, after applying the POMS questionnaire to measure the psychological state of Dong Nai traditional martial arts athletes, the study conducted an in-depth analysis to discover the difference in qualifications to the before the competition psychological state of athletes.

2. Methodology

2.1. Sample

21 Traditional martial arts athletes was selected and randomize chosen in Traditional martial arts athletes team at Dong Nai province. They were informed of the test procedures before providing written consent.

2.2. Instruments

Research using POMS (Profile of mood state) questionnaire includes 40 questions, 7 important components to evaluate psychological state, which are: Tension; Anger; Fatigue; Depression; Vigour; Confusion, self - related fellings.

2.3. Methodology

Reviewing, analyzing and synthesizing researches; Expert interview; Psychological test; Statistics.

3. Results and Discussions

After analysis psychology before the competition of Dong Nai traditional martial arts athletes.

The study analyzed the expression of psychological state with the athletes level by the method of analysis of variance (ANOVA) to test the average hypothesis of the groups. Through the calculation process, the results presented in the table are obtained as follows:

Table 1: The difference between the level and the s	signs of the psychological state before the c	ompetition of the traditional martial arts athlete
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Expression of psychological state	\overline{x}		S	F	Sig.
Tense	Without level	2,06	0,54		
	Level 1	2,00	0,00	1,575	0,234
	Grand master	3,00			
	Without level	1,11	0,32		
Angry	Level 1	1,50	0,71	1,160	0,336
	Grand master	1,00			
	Without level	1,00	0,00		
Discouraged	Level 1	1,50	0,71	8,143	0,003
	Grand master	1,00	- , -	-, -	- ,
	Without level	1,22	0,55		
Unhappy	Level 1	1,00	0,00	1,230	0,316
Cimappy	Grand master	2,00	0,00	1,230	0,510
	Without level	3,11	0.00		
			0,90	1 207	0.200
Relaxed	Level 1	4,00	0,00	1,327	0,290
	Grand master	4,00		-	
	Without level	1,17	0,38	-	
Panicky	Level 1	1,00	0,00	0,257	0,776
	Grand master	1,00			
	Without level	1,67	0,59		
Confused	Level 1	1,50	0,71	2,473	0,113
	Grand master	3,00			
	Without level	1,17	0,38		
Terrified	Level 1	1,50	0,71	9,857	0,001
	Grand master	3,00		1	,
	Without level	1,17	0,38		
Peeved	Level 1	1,00	0,00	2,657	0,097
100,000	Grand master	2,00	0,00	2,057	0,057
	Without level	1,89	1,28		
Worn Out		2,50	-	0.549	0.597
Worn Out	Level 1		0,71	0,548	0,587
	Grand master	3,00	0.42		
~ ·	Without level	1,22	0,43	2,020	0,162
Sad	Level 1	1,00	0,00		
	Grand master	2,00			
	Without level	3,17	1,15	0,079	
Full of Pep	Level 1	3,50	2,12		0,924
	Grand master	3,00			
	Without level	1,17	0,38	0,714	
Unable to Concentrate	Level 1	1,50	0,71		0,503
	Grand master	1,00			
	Without level	3,67	0,97	1,494	0,251
Trusting	Level 1	4,50	0,71		
	Grand master	5,00	2,71		5,201
	Without level	1,67	0,69		
Considerate	Level 1	1,07	0,09	0,479	0,627
Considerate			0,71	0,479	0,027
	Grand master	1,00	0.42	<u> </u>	
	Without level	1,22	0,43	0.000	0.1.52
Resentful	Level 1	1,00	0,00	2,020	0,162
	Grand master	2,00	-		
	Without level	1,22	0,55	1	
Weary	Level 1	2,00	1,41	1,969	0,169
	Grand master	2,00			
	Without level	1,22	0,55		0,802
Bushed	Level 1	1,00	0,00	0,224	
ſ	Grand master	1,00]	
	Without level	3,17	1,15	1	0,601
Good Natured	Level 1	3,50	2,12	0,524	
Cood Futured	Grand master	2,00	2,12	0,524	0,001
	Without level		0.62		
Rowildord		1,50	0,62	0.800	0,428
Bewildered	Level 1	1,00	0,00	0,890	
	Grand master	1,00	1.00		
Restless	Without level	2,06	1,00	1,067	0,365
1001000	Level 1	1,00	0,00	1,007	5,505

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	Grand master	2,00			
	Without level	1,33	0,77		
Miserable	Level 1	1,50	0,71	0,143	0,868
	Grand master	1,00			
	Without level	1,50	0,92		
Fatigued	Level 1	1,50	0,71	0,143	0,868
C	Grand master	1,00			
	Without level	1,22	0,65		
Gloomy	Level 1	2,00	1,41	1,537	0,242
	Grand master	2,00	-,		
	Without level	2,61	1,38		
Active	Level 1	2,00	0,00	,268	0,768
	Grand master	2,00	0,00		0,708
	Without level		1 17		
E		1,78	1,17	0.250	0.701
Forgetful	Level 1	2,00	1,41	0,250	0,781
	Grand master	1,00	0.00		
	Without level	2,39	0,98		
Efficient	Level 1	2,00	0,00	0,215	0,809
	Grand master	2,00			
	Without level	1,72	0,89		
Bad Tempered	Level 1	1,00	0,00	0,698	0,511
	Grand master	2,00			
	Without level	1,50	0,79		
Furious	Level 1	1,00	0,00	0,633	0,543
1 unous	Grand master	2,00	0,00	0,000	
	Without level	1,39	0,85	0,285	0,755
Exhausted	Level 1	1,00	0,00		
Exhausted	Grand master		0,00		
		1,00	0.20		
XX7 (1.1	Without level	1,17	0,38	4 00 4	0.021
Worthless	Level 1	2,50	2,12	4,224	0,031
	Grand master	1,00			
	Without level	3,78	1,17	4,323	0,029
Ready to Fight	Level 1	1,50	0,71		
	Grand master	5,00			
	Without level	1,94	0,94	0,980	0,395
Uncertain about	Level 1	1,00	0,00		
	Grand master	2,00			
	Without level	2,83	1,29	0,414	0,667
Cheerfu	Level 1	2,00	0,00		
Chechia	Grand master	3,00	0,00	0,111	
	Without level	1.78	0.65		
Amrious		-,	.,	0.709	0.466
Anxious	Level 1	1,50	0,71	0,798	0,466
	Grand master	1,00	0.40		
0.51	Without level	1,33	0,49		0.000
On Edge	Level 1	2,00	1,41	1,714	0,208
	Grand master	2,00			
	Without level	1,44	0,51		
Grouchy	Level 1	1,00	0,00	13,757	0,000
	Grand master	4,00			
	Without level	1,39	0,70		
Helpless	Level 1	1,50	0,71	0,179	0,838
	Grand master	1,00		.,,	2,020
	Without level	3,33	1,03		
Energetic	Level 1	1,50	0,71	2,954	0,078
Energetic		,	0,71	2,934	
	(Lunn d are - +			1	1
	Grand master	3,00	1 10		
17	Without level	3,44	1,10	0.070	0.070
Vigorous		,	1,10 0,71	2,950	0,078

Results from Table 1 showed that

- In the expression of Tense of athletes without level, the average value is X
 = 2,06±0,54; the level 1 athletes have average value is X
 = 2,00±0,00; the grand master athletes have average value is X
 = 3,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0.234> 0.05.
- In the expression of Angry of athletes without level, the

average value is $\overline{X} = 1,11\pm0,32$; the level 1 athletes have average value is $\overline{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 1,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,336>0,05.

• In the expression of *Discouraged* of athletes without level, the average value is $\overline{X} = 1,00\pm0,00$; the level 1 athletes

have average value is $\mathcal{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{\mathcal{X}} = 1,00$. The difference was statistically significant in the probability threshold 95% due to the value of Sig. = 0,003<0,05.

- In the expression of Unhappy of athletes without level, the average value is X
 = 1,22±0,55; the level 1 athletes have average value is X
 = 1,00±0,00; the grand master athletes have average value is X
 = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,316>0,05.
- In the expression of Relaxed of athletes without level, the average value is X = 3,11±0,90; the level 1 athletes have average value is X = 4,00±0,00; the grand master athletes have average value is X = 4,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,290>0,05.
- In the expression of Panicky of athletes without level, the average value is $\overline{X} = 1,17\pm0,38$; the level 1 athletes have average value is $\overline{X} = 1,00\pm0,00$; the grand master athletes have average value is $\overline{X} = 1,00\pm0,00$; the difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,776>0,05.
- In the expression of Confused of athletes without level, the average value is $\overline{X} = 1,67\pm0,59$; the level 1 athletes have average value is $\overline{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 3,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,113>0,05.
- In the expression of *Terrified* of athletes without level, the average value is $\overline{X} = 1,17\pm0,38$; the level 1 athletes have average value is $\overline{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 3,00$. The difference was statistically significant in the probability threshold 95% due to the value of Sig. = 0,001<0,05.
- In the expression of Peeved of athletes without level, the average value is X
 = 1,17±0,38; the level 1 athletes have average value is X
 = 1,00±0,00; the grand master athletes have average value is X
 = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,097>0,05.
 In the expression of Worn Out of athletes without level,
- In the expression of Worn Out of athletes without level, the average value is X = 1,89±1,28; the level 1 athletes have average value is X = 2,50±0,71; the grand master athletes have average value is X = 3,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,587>0,05.
- In the expression of Sad of athletes without level, the average value is $\overline{X} = 1,22\pm0,43$; the level 1 athletes have average value is $\overline{X} = 1,00\pm0,00$; the grand master athletes have average value is $\overline{X} = 2,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,162>0,05.
- In the expression of Full of Pep of athletes without level,

the average value is $X = 3,17\pm1,15$; the level 1 athletes have average value is $\overline{X} = 3,50\pm2,12$; the grand master athletes have average value is $\overline{X} = 3,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,924>0,05.

- In the expression of Unable to Concentrate of athletes without level, the average value is $\overline{X} = 1,17\pm0,38$; the level 1 athletes have average value is $\overline{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 1,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,503>0,05.
- In the expression of Trusting of athletes without level, the average value is X = 3,67±0,97; the level 1 athletes have average value is X = 4,50±0,71; the grand master athletes have average value is X = 5,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,251>0,05.
- In the expression of Considerate of athletes without level, the average value is X
 = 1,67±0,69; the level 1 athletes have average value is X
 = 1,50±0,71; the grand master athletes have average value is X
 = 1,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,627>0,05
- In the expression of Resentful of athletes without level, the average value is \$\overline{X} = 1,22\pm0,43\$; the level 1 athletes have average value is \$\overline{X} = 1,00\pm0,00\$; the grand master athletes have average value is \$\overline{X} = 2,00\$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,162>0,05.
- In the expression of Weary of athletes without level, the average value is X
 = 1,22±0,55; the level 1 athletes have average value is X
 = 2,00±1,41; the grand master athletes have average value is X
 = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,169>0,05.
- In the expression of Bushed of athletes without level, the average value is X
 = 1,22±0,55; the level 1 athletes have average value is X
 = 1,00±0,00; the grand master athletes have average value is X
 = 1,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,802>0,05.
- In the expression of Good Natured of athletes without level, the average value is $\overline{X} = 3,17\pm1,15$; the level 1 athletes have average value is $\overline{X} = 3,50\pm2,12$; the grand master athletes have average value is $\overline{X} = 2,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,601>0,05.
- In the expression of Bewildered of athletes without level, the average value is X = 1,50±0,62; the level 1 athletes have average value is X = 1,00±0,00; the grand master athletes have average value is X = 1,00. The difference was not statistically significant in the probability threshold

95% due to the value of Sig. = 0,428>0,05.

- In the expression of Restless of athletes without level, the average value is $\overline{X} = 2,06\pm1,00$; the level 1 athletes have average value is $\overline{X} = 1,00\pm0,00$; the grand master athletes have average value is $\overline{X} = 2,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,365>0,05.
- In the expression of Miserable of athletes without level, the average value is \$\overline{X} = 11,33±0,77\$; the level 1 athletes have average value is \$\overline{X} = 1,50±0,71\$; the grand master athletes have average value is \$\overline{X} = 1,00\$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,868>0,05\$.
- In the expression of Fatigued of athletes without level, the average value is X = 1,50±0,92; the level 1 athletes have average value is X = 1,50±0,71; the grand master athletes have average value is X = 1,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,868>0,05.
- In the expression of Gloomy of athletes without level, the average value is X = 1,22±0,65; the level 1 athletes have average value is X = 2,00±1,41; the grand master athletes have average value is X = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,242>0,05.
- In the expression of Active of athletes without level, the average value is X = 2,61±1,38; the level 1 athletes have average value is X = 2,00±0,00; the grand master athletes have average value is X = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,768>0,05.
- In the expression of Forgetful of athletes without level, the average value is $\overline{X} = 1,78\pm1,17$; the level 1 athletes have average value is $\overline{X} = 2,00\pm1,41$; the grand master athletes have average value is $\overline{X} = 1,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,781>0,05.
- In the expression of Efficient of athletes without level, the average value is X = 2,39±0,98; the level 1 athletes have average value is X = 2,00±0,00; the grand master athletes have average value is X = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,809>0,05.
- In the expression of Bad Tempered of athletes without level, the average value is $\overline{X} = 1,72\pm0,89$; the level 1 athletes have average value is $\overline{X} = 1,00\pm0,00$; the grand master athletes have average value is $\overline{X} = 2,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,511>0,05.
- In the expression of Furious of athletes without level, the average value is \$\overline{X} = 1,50 \pm 0,79\$; the level 1 athletes have average value is \$\overline{X} = 1,00 \pm 0,00\$; the grand master athletes

have average value is $\mathcal{X} = 2,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,543>0,05.

- In the expression of Exhausted of athletes without level, the average value is X = 1,39±0,85; the level 1 athletes have average value is X = 1,00±0,00; the grand master athletes have average value is X = 1,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,755>0,05.
- In the expression of Worthless of athletes without level, the average value is X = 1,17±0,38; the level 1 athletes have average value is X = 2,50±2,12; the grand master athletes have average value is X = 1,00. The difference was statistically significant in the probability threshold 95% due to the value of Sig. = 0,031<0,05.</p>
- In the expression of *Ready to Fight* of athletes without level, the average value is X = 3,78±1,17; the level 1 athletes have average value is X = 1,50±0,71; the grand master athletes have average value is X = 5,00. The difference was statistically significant in the probability threshold 95% due to the value of Sig. = 0,029<0,05.</p>
- In the expression of Uncertain about of athletes without level, the average value is X
 = 1,94±0,94; the level 1 athletes have average value is X
 = 1,00±0,00; the grand master athletes have average value is X
 = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,395>0,05.
- In the expression of Cheerful of athletes without level, the average value is X = 2,83±1,29; the level 1 athletes have average value is X = 2,00±0,00; the grand master athletes have average value is X = 3,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,667>0,05.
- In the expression of Anxious of athletes without level, the average value is X
 = 1,78±0,65; the level 1 athletes have average value is X
 = 1,50±0,71; the grand master athletes have average value is X
 = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,466>0,05.
- In the expression of On Edge of athletes without level, the average value is X = 1,33±0,49; the level 1 athletes have average value is X = 2,00±1,41; the grand master athletes have average value is X = 2,00. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,208>0,05.
- In the expression of *Grouchy* of athletes without level, the average value is X = 1,44±0,51; the level 1 athletes have average value is X = 1,00±0,00; the grand master athletes have average value is X = 4,00. The difference was statistically significant in the probability threshold 95% due to the value of Sig. = 0,0001<0,05.
- In the expression of Helpless of athletes without level, the average value is X
 = 1,39±0,70; the level 1 athletes have

- In the expression of Energetic of athletes without level, the average value is $\overline{X} = 3,33\pm1,03$; the level 1 athletes have average value is $\overline{X} = 1,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 3,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,078>0,05.
- In the expression of Vigorous of athletes without level, the average value is $\overline{X} = 3,44\pm1,10$; the level 1 athletes have average value is $\overline{X} = 2,50\pm0,71$; the grand master athletes have average value is $\overline{X} = 1,00$. The difference was not statistically significant in the probability threshold 95% due to the value of Sig. = 0,078>0,05.

4. Conclusions

Through ANOVA analysis discovered Psychological state before the competition of the Dong Nai Traditional Martial Arts team between 3 groups of athletes with different qualifications (without level; level 1; grandmaster). They has 35/40 expression of psychological state have no difference in threshold 95% probability. From that, it can be seen that the psychology before the competition between the three groups of athletes with different qualifications of the Dong Nai Traditional Martial Arts team has a high similarity. However, some expression have different (Discouraged; Terrified; Worthless; Ready to Fight; Grouchy) this also creates psychological problems for athletes before the competition, so the coach should be mindful and take corrective measures.

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