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Original Article

Traditional versus scientific method: the differences exist between selecting players

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Abstract:

The purpose of this study was to evaluate the differences existed between the traditional method and Scientific, based on the Soccer Post-Game. Where our sample was the Selecting Players, representing the lightship Oran for year 2014- 2015. On this basis as specialists, our interventions have come to determine, firstly the errors of the traditional method, as well as differences between the post-game. Where our objective was to integrate the scientific observation as a means to analyse the data acquired by research Team, for the 38 players selected, tested by the test Cooper and vertical jump as physiological parameters, body fat and body mass index as anthropometric characteristics.

Based on the analysis statistics, we confirm the defects of the traditional method:

a) the weakness of the traditional method is in Body Fat Which cannot be predicted with the naked eye.

b) All attackers and defenders chosen, have more body fat, at less maximal aerobic capacity and string.

c) The difference between the selected players return to the relationships body fat with the performance demands physiological.

On based on differences acquired by research Team, we subject that the tradition is not more subjective methods of selecting Algerian players. Thing confirmed in the participation of national young teams in various world championships and internal continent, which is not famous, observed in the choice of the national team coach, which prefers to recruit players from abroad and dispenses on the local player Service.

Keywords: Soccer, Post-Game, Algerians Soccer Players.

Introduction

Identification the Talent in sport is big business. Where (Elaine Wolstencroft, 2002)confirm that many East European countries released the weakness of the traditional method, and attempted to develop methods of identification which could be underpinned with scientific theory and evidence.

Whether the traditional method is the most used in football Algerian (DRISSI, B, 2004). According to (Athanasios G. Papaioannou, Dieter Hackfort -, 2014) that there are a number of problems with these traditional methods of talent identification when applied in sports performance. Where (ZAHNER, L. e, 2003) confirms it in the concepts of the Selection based on the "gaze of coach" which is subjective and based on instinct.

Whereabouts Filipe Manuel Clemente confirms that the profile of player/ team is related to both biological and environmental factors (Filipe Manuel Clemente, Micael Santos Couceiro, Fernando Manuel Lourenço Martins, Monika Ognyanova Ivanova, and Rui Mendes, 2013). that it can be estimated by the new evaluations technology (Zerf Mohammed, Mokkedes Moulay idriss, Dani Hassiba, 2015) as the physiological databases for the elite soccer players which original from Western Europe and North America (Ming-Kai Chin PhD, Y. S. A. Lo MD FRCP, C. T. Li MPhil MCSPt and C. H. So MPhilt, 1992), based on the scientific observation acquired by method kinematic analysis (Barros RML, Misuta MS, Menezes RP, Figueroa PJ, Moura FA, Cunha SA, Anido R, Leite NJ, 2007), which it referred on the distance covered by players in a match to calculate the index of physiological demands presented by the total distance covered in a game (Reilly T, Gilbourne D., 2003) (Haff, G. Gregory, Triplett, N. Travis, 2015). Unfortunately, there is a scarcity of descriptive data on the physical characteristics of Algerian soccer players, where Zerf Mohammed et al, (Zerf Mohammed, Mokkedes Moulay idriss, Dani Hassiba, 2015) explain in the lack of new technology Kinematic and kinetic analysis and the argument of Algeria coach to the objective assessment.

From the above, the purpose of this study was to evaluate the differences existing between Soccer Post-Game Players selected to represent the teams of lightship Oran in the selection of regional teams. Where the research team recorded on this occasion, the parameters of 38 selected players (anthropometric and physiological), tested by the Cooper, vertical jump, body fat and body mass index, as a database statistical for a multinomial logistic regression chosen to identify the defects of the observation method.

Material and Methods

Sample

The data used in this study were obtained through the database Team 5 Physical Education Institute Laboratory OPAPS for the academic year 2014-2015 (Optimization of physical activity and sport programs (LABOPAPS), 2015). In terms of player-related data, 38 male soccer players under 17 years selected to represent the teams of lightship Oran in the selection of regional teams. were Examined by the Research Team 5 laboratory OPAPS in parameters (anthropometric and physiological chosen for the current study) see table1, after one week of them regional selections. Whereas to expert the study protocol and methods we choose the laboratory OPAPS "Institute of Physical Education of our University" who approve it by the professors of football and physiological training effort.

Table 1. Physiological and Anthropometric characteristics by total group

		Weight	Height	%Fat	BMI	Vo2MAX	VJ
Ν	Valid	38	38	38	38	38	38
	Missing	0	0	0	0	0	0
Mean		66,51	176,50	14,39	22,63	47,14	44,05
Std. Deviation	5,86	5,83	2,29	2,55	5,61	3,54	
Variance	34,36	33,98	5,26	6,50	31,52	12,59	
Skewness	0,06	0,52	-,08	,09	0,56	-0,03	
Std. Error of Skewness		0,38	0,38	0,38	,38	0,38	0,38
Kurtosis		0,79	0,22	-,38	-1,13	0,30	-0,43
Std. Error of Kurtosis		0,75	0,75	0,75	0,75	0,75	0,75
Levene Statistic	Statistic	1,06	1,23	0,53	0,65	0,44	0,65
	Sig.	0,36	0,31	0,59	0,53	1,29	0,29

Testing Protocol:

The maximal aerobic capacity: We have chosen the maximal aerobic capacity based on the formula Test Cooper (VO2max = 22,351 d (km)- 11,288 (ml/min/kg)) (Jean Ferré, Philippe Leroux, 2009) where John Gormley et al set (2009) (John Gormley, Juliette Hussey, 2009)that the Cooper 12-minute test, the 1.5-mile test, the Rockport One-Mile Fitness Walking Test and the multi-stage shuttle have A corresponding vO2max obtained by the formula. Also Yigal Pinchas, (2006) (Yigal Pinchas, 2006) set them accurate which is correlated between 90–95 per cent. where Oskari Saari, et al (2016) (Oskari Saari, Aki Hintsa , 2016)indicate that the Cooper test provide a better picture of endurance of maximal aerobic capacity. However, Joel A. DeLisa et al (Joel A. DeLisa, Bruce M. Gans, Nicholas E. Walsh, 2005)confirm that maximal aerobic capacity is rarely the limiting factor in performing daily work tasks. Where the Progressive respiratory muscular weakness leads to restrictive lung disease.

Weight and Height: Height (m) and weight (kg) were each measured in the standing position (Yoko Goto, Hirohide Yokokawa, corresponding author Hiroshi Fukuda, Toshio Naito, Teruhiko Hisaoka, and Hiroshi Isonuma, 2015) where Helge Hebestreit et al, (2008) confirm that the Vo2peak is associated with biological status after controlling for height and weight.

Body Fat: The method uses is the Anthropometric, it requires body circumference measurements to estimate body fat percentages. In our case we choose the Body Fat Calculator from the U.S. Navy it requires takes waist, neck, and height circumference for men and hips, neck, and height for women.

Where Chandra B Singh (Chandra B Singh, 2014) set that this calculator is quite important to find the ratios of fat in the body. Thing confirms by Wayne Jacobs (2015) for the sake of ease, let's use (Dr. Wayne Jacobs - 2015, 2015) this online calculator. According to Johnny T. Flynn (2006) http://imuw.linear-software.com/online.html.

Body mass index: BMI was calculated as body mass (kg) divided by height (m) squared. The subjects' adiposity was classified according to WHO standards (World Health Organization (WHO), 2008): underweight was defined as BMI \simeq 18.5, normal weight as BMI \simeq 18.5 and <25, overweight as BMI \simeq 25 to BMI <30, and obesity as a BMI \geq 30 (Marzena Malara, Anna Kęska, Joanna Tkaczyk and Grażyna Lutosławska, 2015)

Statistical Analyses

Data analysis was performed using SPSS 22.0 for Windows (32BIT). Data obtained from the tests showed a normal distribution and were presented as mean \pm standard deviation, Anova, LSD, Levene Statistic, Shapiro-Wilk test and Regression analyses which were conducted to analyse the combined of the variables chosen to study. Where the relationship between the variables was analysed by Pearson correlations (r).

Results

The characteristics of the study sample are presented in Table1. All the variables accept Normality and the homogeneity based on Shapiro-Wilk test Thought the total group and Levene Statistic based on the Soccer Post-Game. Whereas the Mean \pm SD, Anova and LSD choose the differences between Post-Game case the body fat, BMI, cooper test and vertical Jump in the opposites of Weight and Height which they are not significant.

			Maan SD	Chamira V	V:11-			
			Mean±SD	Snapiro-V	N IIK	~.	-	
Variables				Statistic	df	Sig.	F	p ≤ 0,05
Weight	Midfielder	14	65,97±7,26	0,959	14	0,712	0,82	0,45
	Defenders	12	65,37±5,65	0,925	12	0,332		
	Attackers	12	68,27±3,93	0,906	12	0,187		
Height	Midfielder	14	176,85±6,53	0,925	14	0,256	0,11	0,89
	Defenders	12	175,83±4,40	0,872	12	0,070		
	Attackers	12	176,75±5,82	0,959	12	0,771		
%Fat	Midfielder	14	13,05±1,88	0,957	14	0,671	4,68	0,02
	Defenders	12	14,90±2,03	0,878	12	0,083		
	Attackers	12	15,43±2,36	0,965	12	0,855		
BMI	Midfielder	14	21,70±2,25	0,945	14	0,480	2,15	0,13
	Defenders	12	22,62±2,60	0,927	12	0,345		
	Attackers	12	23,72±2,58	0,888	12	0,111		
Vo2MAX	Midfielder	14	50,38±5,44	0,935	14	0,353	4,47	0,02
	Defenders	12	45,71±5,82	0,921	12	0,297		
	Attackers	12	44,79±3,93	0,927	12	0,354		
VJ	Midfielder	14	46,21±2,77	0,955	14	0,636	5,32	0,01
	Defenders	12	42,33±3,79	0,951	12	0,649		
	Attackers	12	43,25±3,01	0,893	12	0,129		

Table 2. Presents the baseline characteristics of the participants based on the post-game.

Thought the table 3 were the calculate of LSD based on post-game show Less fatty mass registered in the benefit of Midfielder. While the BMI stresses that the defenders and attackers carrying more percentage of grease. Whereas the maximum oxygen consumption and vertical jump, shows the differences which are in the interests of the Midfielder and no differences between defenders and attackers in all the compare.

T 11 0	TD1	1:00	1 /	• .•	C .1		. •	1 .	
Lable 4	The	differences	characte	ristics	of the	narticu	nants in	hasic	nost-game
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Dependent Variable	(I) POST	(J) POST	Mean Difference (I-J)	$p \le 0,05$
	Midfielder	Defenders	-1,84*	0,03
%Fat		Attacker	-2,37*	0,00
	Defenders	Midfielder	1,84*	0,03
		Attacker	-0,53	0,53
	Midfielder	Defenders	-0,92	0,35
		Attacker	-2,02*	0,04
BMI	Defenders	Midfielder	0,92	0,35
		Attacker	-1,09	0,28
	Midfielder	Defenders	4,66*	0,02
VOMAN		Attacker	5,58*	0,00
VOZIVIAA	Defenders	Midfielder	-4,66*	0,02
		Attacker	0,92	0,66
	Midfielder	Defenders	3,88*	0,00
VJ		Attacker	2,96*	0,02
	Defenders	Midfielder	-3,88*	0,00
	. <u></u>	Attacker	-0,91	,48

Through Table 4 where the Results of regression shows that the problem of players slected lines in the proportion of fat as single variable explains the differences between the Post-Game

Table 4. Re	esults	of regr	ression	analyses	relating	Post-	Game	and	the	variables	chosen to	study.
											-	-

Model Stepwise	R	R 2	Adjusted R2	2 Coefficients	аT	Р	f	Р
1	0,44 a	0,19	0,18	(Constant) %Fat	- 0,45 2,9 3	0,65 ,00	8,6 0	0,00

Variables Entered: all the variables.

Dependent Variable: Post-Game / Predictors: (Constant), %Fat

Excluded Variables: Weight. Height, BMI, Vo2MAX, vertical Jump

Through the table 5 The Pearson correlations are perceived strongly positively between anthropometric measurements, which are negative with measurements physiological.

variables		%Fat	BMI	Vo2MAX	VJ
% Fat		1	,803**	-,852**	-,842**
BMI	Pearson Correlation	,803**	1	-,722**	-,731**
Vo2MAX		-,852**	-,722**	1	,753**
		-,842**	-,731**	,753**	1
VJ	Sig. (2-tailed)	,000	,000,	,000	
	N	38	38	38	38
**. Correla	tion is significant at the (0.01 level (2-tailed).		

Table 5. The correlations between the variables tested in the current study by total group

Discussion

Based on the statistical applied. Our results confirm:

a) the weakness of the traditional method is in Body Fat, which cannot be predicted with the naked eye. Thing confirmed by Zahner, L et al (2003) in the concepts of the Selection based on the "gaze of coach" which is subjective and based on instinct.

b) All attackers and defenders chosen, have more body fat, at less maximal aerobic capacity and string. where Arthur D Stewart, et al (2011) set that the skeletal age and anthropometric characteristics in adolescent elite soccer players, their judgment requires skinfold measurements.

c) The difference between the selected players return to the relationships body fat with the performance demands physiological. Where (Dave Day, Tegan Carpenter, 2015)confirm that the performance demands within a sport, an accurate assessment of athlete capabilities in relation to these demands. Whereas William N.et al (2002) and A.W.S. Watson (2014) confirm that Low body fat is an important factor in athletic performance (William N. Taylor, M.D, 2002), (A.W.S. Watson, 2014). Case Midfields in the opposites of the other post-game.

Based on the soccer similar studies by post, case the performance in the cooper test, we agree that the requirements imposed for the players training and competition, advantage the midfielders which run the longdistance (Briggs, Marc, 2013), in the opposite of the attacker and defender (Tim McGarry, Peter O'Donoghue, António Jaime de Eira Sampaio, 2013). Whereas the problem of our soccer selected set in the indicate of Hossein Soltani et al where they set that defenders and attackers' Vo2max has decreased as a result of less running (Hossein Soltani, Syed Reza Attarzadeh Hosseini, Majid Farahneia, Zahra Hojati, 2012). Whereas JESPER STRØYER et al confirm that The elite players exercised a higher vo2max related to the body mass composition compared with the young elite players (JESPER STRØYER, LONE HANSEN, and KLAUS KLAUSEN, 2004). In the case of vertical Jump our attackers and defenders' values are less then Midfields, from that, we agree the indicate of Bram Swinnen (2016): to Improving the maximal sprinting speed of players with a higher training status requires velocity-specific strength training (Bram Swinnen, 2016). Whereabouts to explain the physical level of our attackers and defenders, we refer to indicate of Youlian Hong et al (Youlian Hong, Roger Bartlett, 2008) that the Longer distance covered by walking is record to the attackers and defenders, which do not meet modern football requirements, where the player is called to defend and attack simultaneously. Where Svetlana Liparova, Mgr, (2014) (Svetlana Liparova, Mgr, 2014)confirm that The basic endurance zone comprises 75-85% of the individual maximum, i.e. aerobic metabolism. Where the special race endurance ranges from 85% up to 95% of the individual speed maximum (SVETLANA LIPÁROVÁ, JAROSLAV BROĎÁNI, 2015). further (Donald A. Chu, Gregory Myer, 2013) confirm that The strength development is one of the crucial elements in endurance training. As well the Specialised trainings help to develop the appropriate and most loaded muscular areas during the performance (Gill Stewart, 2014). Whether (Plisk, S. S., & Stone, M. H., 2003) The employed training means should correspond to the structure of the performance.

Conclusion

From the above, we agree the choice of the national team coach, which prefers to recruit players from abroad and dispenses on the local player Service. Where of B. Drissi, (2004) [2] confirms that the national football never reached its cruising speed, as much as the traditional method is used as selection means in football Algerian [2]. an evidence confirmed by Athanasios G. Papaioannou et al [3] that there are a number of problems with these traditional methods. From proof, our finding confirms that the levels of the aerobic and anaerobic fitness (Per A. F. H. Renström, 2008) in Selecting Players must be are relate with the analysis of body composition (body fat bone and muscle), which are important for any complete fitness program (Robert G. McMurray , 1998). whether it is important for our players and their coaches to identify the changes in body composition during growth to allow for the accurate interpretation (Nick Draper, Helen Marshall, 2014) related to their progressions. On base and limitation of this study, we advise our selection committee, that the physiological and anthropometric characteristics of young soccer players according to their playing position is a relevant way to the selection process (Christopher Carling, Tom Reilly, A. Mark Williams, 2008). Because the

lower in weight as the crucial physiological characteristic and low percentage body fat as the most important physical characteristic. (Thomas Reilly, N. Secher, P. Snell, 2005)

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