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Triggers of Burnout among Tunisian Teachers at Higher Institutes of Sport and Physical Education

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Abstract: This study aimed to evaluate the effects of socio-professional triggers on the development of burnout syndrome among the institute's teachers of sports and physical education in Tunisia. The socio-professional triggers such as age, sex, teacher's grade, job seniority and the marital status of professors and the workplace to promote significantly the development of burnout syndrome among teachers at the institutes of sports and physical education in Tunisia. 269 teachers of the high institutes of sport and physical education male and female with mean ages (43, $21 \pm 7,704$), answered the questionnaire of Maslach et al (1996). Our results of the regression analysis of the three components of burnout syndrome namely: emotional exhaustion, depersonalization and the loss of personal accomplishment are showed that the three models are significant at the same level of probability ($Pr \le 0.001$). Also the R^2 , which provide information on the share of contribution of predictors in the total variance components related, are respectively 0.67, 0.59 and 0.45.

Keywords: Burnout, University Teachers, Physical Education

I. Introduction

Tunisia has known for more than a decade of profound changes at all levels, social, economic and cultural changes, revealing an unbalanced state structures and institutions. These changes are reflected also in the Tunisian university which must adapt to this situation, to continue to play its leading role such as the acquisition and transmission of knowledge, as well as new missions are dictated largely by scientific and technological developments that requires rehabilitation of the university. The difficulties affecting the teaching profession are many which include those inherent overstaffing students who are strong, quantitative and qualitative, the nature and frequency of requests from teachers in terms of psychological and physical resources; time pressure by reporting the amount of information processing that requires the teacher to work pending the weekends, which poses the problem of interference between work and professional life prevents the teacher to fill its full role in the family. While these tensions may affect his private life prevent him from relaxing at home, because it will keep in mind his professional concerns continue to spill over into his private life (Truchot, 2004).

Some organizational factors can be triggers of stress and tension for the teacher, which are on the one hand, the lack of autonomy and control over the allocation and scheduling tasks in the workplace, due to the centralization administrative and partitioning which results in the absence of the flow of information and the marginalization of the teacher in any event change Vézina (2001). On the other hand, the psychosocial factors related to labor relations as the lack of reports of consultation and coordination between them teachers in the management of educational and scientific activities, which raises the issue of social support. So for Desjours (2003) fun at work includes experience solidarity, friendliness and trust, it will be all the greater because the work is carried out in a truly collaborative work. The challenges and constraints experienced by the teacher in the absence of sources of satisfaction and adequate conditions for self-fulfillment may influence the onset of burnout .This syndrome is considered as the final stage of a break adaptation resulting from a long-term imbalance between the demands and work resources, and thus prolonged occupational stress and burnout (Cooper *et al.*, 2004).

Burnout as it was defined by Freudenberger (1974) as "vacuum state" in which people respond to significant inquiries from their customers in the medical context (Truchot, 2009). Tunisia is a whole new culture so that no search is performed on this phenomenon. Study burnout syndrome is the question of occupational health differently, it is from an axis of psychosocial research focused our research topic.

The burnout antecedents are the elements predisposing syndrome, present in the organizational context or between workers interpersonal relationships. These can have a marked influence on the development of symptoms associated with burnout. Each individual carries a number of characteristics that influence mental health. In the study of burnout, the contribution of individual characteristics is often less important than the context-related characteristics in which the job runs (Maslach *et al.*, 2001). In this section, a review of the literature specific to the individual variables will be advanced. More specifically, individual factors studied are gender, age, educational grade and marital status.

The relationship between gender and burnout is not very strong. Some authors argue that the prevalence of burnout does not change according to gender (Ahola *et al.*, 2006, 2007; Kowalski *et al.*, 2010). Including among police officers (Burke et al., 2008; McCarty *et al.*, 2009). However, studies show that burnout is higher among women than men (Estryn-Behar *et al.*, 2010; Lindblom *et al.*, 2006).

According to Truchot (2004), burnout does not necessarily increase with age and job seniority. However, Maslach (1982) reported that burnout appears after a year and a half among psychiatric nurses, between the second and the fourth year among social workers. According to Canoui (2001) there is a statistically significant relationship between age and the two dimensions of burnout, emotional exhaustion and dehumanization; also he noted that younger people are more vulnerable.

Some studies suggest a link between burnout and education grade. Schaufeli (2006), in his studies chowed that having a higher level of education could promote burnout. Also, Maslach *et al.* (2001) explains this relationship by the fact that a higher level of education is usually accompanied by greater responsibilities at work. Specifically, higher levels of education are generally associated with higher levels of cynicism and lower levels of professional efficacity (Maslach *et al.*, 2001; Piko, 2006).

The literature shows that the professional relationship with, for example, nurses, practitioners and teachers are, by the nature of their employment, an increased risk of burnout (Taris, 2006). Burnout is a result of constant stress and is taking alarming proportions among university professors (Czernis, 2005). In fact, university teachers are now the professionals who demonstrate the highest levels of stress and burnout among social professions (Kinman, 2001; Leung *et al.*, 2000; Taris *et al.*, 2001; Winefield *et al.*, 2003).

II. Material and Methods

This study was conducted in the current 2013/14 academic year and involved teachers in tunisian institutes of sport and physical education in Tunis, Sfax, Gafsa and kef, male and female, and their grades from teachers for secondary education to lecturers through assistants and lecturers. The average age is ranged from 30 to 58 years and their work experience ranged between 5 and 35 years. 269 teachers of the high institutes of sport and physical education male and female with mean ages (43, $21 \pm 7,704$), answered the questionnaire of Maslach *et al.*, (1996). The numbers of teachers were 107, 74, 34 and 54 respectively for the Institutes of Tunis, Sfax, Gafsa and Kef.

Although there are several instruments that can be used to measure burnout (Schaufeli & Enzmann, 1998), the Maslach Burnout Inventory (MBI) is the most commonly administered measure (Maslach *et al.*, 2001). The Third Edition MBI was used in this research as a measure of burnout consisting of 22 items measuring three factors (Maslach *et al.*, 1996). Nine items measure emotional exhaustion, five items measure depersonalization, and eight items measure the loss of personal accomplishment. Maslach *et al.*, (1996) has confirmed the construct validity of this measure with a diverse group of teaching professionals. Participants respond on a 7-point Likert Scale (Likert, 1932) with poles of never (0) and every day (6) measuring the frequency with which respondents experienced what was indicated in each statement. Previous reliabilities have been good, ranging from .71 to .90 (Maslach *et al.*, 1996).

We present in this section the results of statistical analysis using SAS software to estimate the share of contribution of regressors in the explanation of the model. The syndrome of burnout has a physical and mental dimension whose components are emotional exhaustion, the depersonalization and the loss of personal accomplishment. This anomaly may be caused by various factors that may be personal to know the age, sex and marital status or directly related to his employment status such as grade and job seniority. We note that the dependent variable that is burnout is quantitative. However, the explanatory variables are qualitative, dichotomous and categorical. To do this, we conducted the regression analysis by the ANOVA procedure of the SAS library. This method can explain the contribution of the regressors in explaining the variance of the phenomenon of burnout. However, it does not specify the sign and magnitude of the influence of the independent variables. The multiple comparison test threshold probability of 95% was always used to separate the means.

III. Results

The results of the regression analysis of the three components of burnout syndrome namely: emotional exhaustion, depersonalization and the loss of personal accomplishment are shown in Table 1. They point out that the three models are significant at the same level of probability ($Pr \le 0.001$). R^2 , which provide information on the share of contribution of predictors in the total variance components related, are respectively 0.67, 0.59 and 0.45. The Table 1 also specifies the variances of each socio-professional history involved in the explanation of the patterns, the share of contribution to and the respective levels of significance.

Tab.1-Variances and probability levels as sources of variation involved in the prediction of three-dimensional EE, DEP and PAP components of burnout syndrome among university teachers in higher institutes of sport and physical education in Tunisia.

Variation Sources	physical education in Tumsia. Variation Sources Mean Square PCVT (%) F $Pr \ge F$							
, ariation bources	can bquare	1 2 7 1 (70)	-	1151	Ddl			
	Emotional Exhaustion							
$(Pr \le 0.001; R^2 = 0.67)$								
Triggers								
Institute	5337,39	30	73,35	0.0001	3			
Sexe	5998,46	11	82,44	0.0001	1			
Age	1053,68	10	14,48	0.0001	5			
Grade	2043,56	12	28,07	0.0001	3			
Matrimonial State	619,45	1	8,51	0,0039	1			
Job Seniority	164,09	2	2,26	0,031	7			
Location	432,47	1	5,97	0,015	1			
	•	sonalization						
	$(Pr \le 0, 0)$	$001; R^2 = 0,59)$						
Triggers								
Institute	1158,9	25	50,92	0.0001	3			
Sexe	107,76	1	4,74	0.0305	1			
Age	343,67	13	15,1	0.0001	5			
Grade	709,52	16	31,18	0.0001	3			
Matrimonial State	174,66	1	7,68	0,006	1			
Job Seniority 67,22		3	2,95	0,005	7			
Location 52,25		-	2,3	0,131	1			
	Loss of Person	_	hment					
$(Pr \le 0.001; R^2 = 0.45)$								
Triggers								
Institute	824,22	7	10,36	0.0001	3			
Sexe	1366,91	4	17,17	0.0001	1			
Age	1049,26	15	13,19	0.0001	5			
Grade	1661,49	13	2,89	0.0001	3			
Matrimonial state	414,23	1	5,21	0,0233	1			
Job Seniority	172,76	3	2,17	0,0373	7			
Location	589,64	1	7,41	0,0069	1			

In general demographic variables studied are involved in the explanation of the components of burnout namely emotional exhaustion, the depersonalization and the loss of personal accomplishment (Table 1). However, their contributions are small and still remain variable as reflected by the values of the respective coefficients of determination ranged between 0.45 and 0.67. Similarly, the share of participation of predictors for each dimension is different, mainly the variables as Workplace ',' Age 'and' Grade ',they best explain all models and therefore the syndrome of burnout among teachers of the Tunisian institutes of Sport and Physical Education (Table 1).

Overall all teachers in sport institutes of physical education in Tunisia are suffering from a high level of burnout (Table 2). Emotional exhaustion, the depersonalization and the loss of personal accomplishment are involved in the development of the latter even though the share of contribution of each one is variable. (Table 2). They also expressed the problem of loss of personal accomplishment but with variable degrees. The teachers at Kef institute who were least affected by the latter. Apart from the Institute of Kef, professing other institutions have shown severely degree of dehumanization. However, this is just at the Institute of Sfax and Tunis that the problem of emotional exhaustion was seriously found at teachers. Therefore, it seems that it is crucial in the excessive development of burnout syndrome. Indeed, where the level of emotional exhaustion is high burnout is also as it was noted in the institutes of Sfax and Tunis.

Tab.2- Importance of the burnout syndrome affecting the teachers of the Tunisian higher institutes of sport and physical education according to the institute.

Institutes	es *Dimensions			*Burnout
	Emotional Exhaustion	Depersonalization	Loss of Personnel Accomplishment	
Sfax	41 a	22a	15a	High
Tunis	33 b	21a	20 b	High
Gafsa	30 c	17b	21 b	High
Kef	19 d	12 c	24 b	High

* The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test ($Pr \ge 0.05$).

Mostly, all the teachers of both sexes at the institutes of sport and physical education in Tunisia are highly suffering from burnout (Table 3). The dimensions of burnout such us emotional exhaustion, the depersonalization and the loss of personal accomplishment play an important role in the manifestation of burnout syndrome among male and female university professors at the institutes of sport and physical education in Tunisia. However, their shares of contribution to the development of the latter remain variable. Indeed, burnout among male professors in all institutes seems to be conditioned only by depersonalization dimensions and the loss of personal accomplishment. So in female teachers, it is determined by all components of the syndrome namely, emotional exhaustion, the depersonalization and the loss of personal accomplishment. Thus, it is the emotional exhaustion dimension that burnout is more important at institute's teachers of sport and physical education in Tunisia.

Tab.3-Importance of burnout syndrome affecting university teachers of higher institutes of sport and physical education in Tunisia all confused according to sex.

Sexe	*Dimensions			*Burnout	
	Emotional Exhaustion	Depersonalization	Loss of Personnel Accomplishment		
Female	41 a	17a	21a	High	
Male	29 b	20b	16 b	High	
* The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test ($Pr \ge 0.05$).					

In general, all teachers at the institutes of sport and physical education in Tunisia regardless their grade are highly suffering from burnout (Table 4). The emotional exhaustion, the depersonalization and the loss of personal accomplishment. Dimension, are heavily involved in the development of burnout syndrome among teachers of institutes of sport and physical education in Tunisia. However, the assistant and conferences masters who most suffer of these syndrome. In contrast, the professors of secondary education (PSE) have no problem of emotional exhaustion.

Tab.4-Importance of the burnout syndrome affecting university teachers at higher institutes of sport and physical education in Tunisia according to the grade.

Grade		*Burnout		
	Emotional	Domonomalization	Loss of Personnel	
	Exhaustion	Depersonalization	Accomplishment	
PSE	28 a	17a	23 a	High
Assistant	31 a	18 a	17 ab	High
Assistant Master	40 b	24 b	14 bc	High
Conferences Master	41 b	27 b	9c	High

^{*} The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test ($Pr \ge 0.05$).

Overall teachers at the institutes of sport and physical education in Tunisia with abstraction made in the age are too much suffering from burnout (Table 5). Overall dimensions, emotional exhaustion, depersonalization and the loss of personal accomplishment are involved in the induction of the phenomenon of burnout among university teachers from all higher institutes of sport and physical education in Tunisia apart according to age. However, éduquants whose age is between 30 and 35 years do not show problems of emotional exhaustion and probably why the burnout syndrome is not so pronounced at them compared to their older colleagues.

Tab. 5 - Importance of burnout syndrome affecting university teachers of higher institutes of sport and physical education in Tunisia according to age.

Age		*Burnout		
	Emotional Exhaustion	Depersonalization	Loss of Personnel Accomplishment	
30-35	24a	14a	26a	High
36-40	30b	18b	22b	High
41-45	31b	19b	20b	High
46-50	32b	19b	20b	High
51-55	39c	23c	13c	High
56-60	43d	25c	10c	High

^{*} The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test $(Pr \ge 0.05)$.

Usually, all married and single teachers at the four institutes of sport and physical education in Tunisia are highly suffering from burnout (Table 4). The emotional exhaustion, depersonalization and the loss of personal accomplishment dimension are widely involved in the prevalence of burnout among singles university teachers among the four institutes. However, only the depersonalization and the loss of personal accomplishment participate in the development of the phenomenon among married teachers. Overall dimensions are all the problem of burnout is more pronounced in single teachers.

Tab. 6 -Importance of the burnout syndrome affecting university teachers of higher institutes of sport and physical education in Tunisia according to matrimonial state.

Matrimonial State		*Burnout		
	Emotional Exhaustion	Depersonalization	Loss of Personnel Accomplishment	
Single	33 a	20 a	18 a	High
Married	23 b	14 b	27 b	High

^{*} The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test (Pr \geq 0.05)

Generally, all teachers at the institutes of sport and physical education in Tunisia are suffering from burnout and with a high way (Table 4). So the emotional exhaustion, the depersonalization and the loss of personal accomplishment dimension, all appear to be involved in the manifestation of burnout syndrome among university teachers from higher institutes of physical education in Tunisia and this regardless of the age (Table 7). Only teachers, whose career has not exceeded five years, do not show problems of emotional exhaustion.

Tab.7-Importance of the burnout syndrome affecting university teachers of higher institutes of sport and physical education in Tunisia according to the seniority.

Seniority	*Dimensions			*Burnout	
	Emotional Exhaustion	Depersonalization	Loss of Personnel Accomplishment		
1 à 5 years	20 a	13 a	28a	High	
6 à 10 years	30 ab	17 ab	22 ab	High	
11 à 15 years	29 ab	17 ab	23 ab	High	
16 à 20 years	31 bc	18abc	20 ab	High	
21 à 25 years	35 bcd	21 bcd	15 bc	High	
26 à 30 years	40 cd	23 cd	14 bc	High	
31 à 35 years	43 cd	25 d	11 c	High	

^{*} The values in the same column followed by the same letter are not statistically different according to Duncan's multiple comparison test ($Pr \ge 0.05$).

IV. Discussion

The burnout or burnout syndrome is a socio-professional anomaly that prevails more and more in the workplace. It expresses emotions of irritability, anger, inability to cope with stress and had a significant loss of energy (Truchot, 2004). Several factors such as socio-professional levels of sex, age, workplace, place of residence etc... may be the cause of the development of this syndrome among workers.

The objective of this study was to test the effects of certain socio-professional antecedents on the development of burnout syndrome among teachers of the institutes of sport and physical education in Tunisia.

Our study has shown that socio-professional antecedent such as age, sex, grade, job seniority, marital state of professors and the workplace to promote significantly the development of burnout syndrome among teachers of the institutes of Sport and physical Education in Tunisia. Indeed, the majority of teachers (100%)

seem to be suffering from this socio-professional anomaly. The manifestation of burnout is often goes with the outbreak of one built in individuals (Maslach et al., 1996).

Teaching is often considered as a job of help relationship with a high degree of stress. This can often be the cause of several problems that can undermine his psychological balance in his entourage. The study of Houlfort & Sauvé (2010) clearly showed that burnout scores of teachers are significantly higher than those of other occupational groups such as health professionals, managers etc..

The Psychological disorders of teacher at the institutes of Sport and Physical Education of Tunisia appear to be largely dependent on socio-professional and organizational factors. Indeed, our study showed that burnout changes with age and job seniority of teachers of the institutes of sport and physical education in Tunisia. This corroborates with the latter observations of Canouii (2004) who reported that age is a factor of vulnerability through certain dimensions of burnout. It was always considered confused with age (Maslach et al., 2001). However, contrary to what is stated in our study, Truchot (2004) reported that in the scientific public, burnout does not necessarily increases with age and job seniority. Thus, Lambert *et al.* (2010) found that burnout was observed mainly in young employees early in their careers.

Our study also showed that burnout significantly affects teachers of the institutes of sport and physical education in Tunisia and that this phenomenon is more pronounced in the highest ranking mainly lecturers. This is consistent with the observations of Van den Broeck (2008) who reported a higher level of education could promote burnout. Maslach *et al.* (2001) explains this relationship by the fact that a higher level of education is usually accompanied by greater responsibilities at work. Higher the level of education, higher the degree of cynicism and is therefore more professional efficiency decreases (Piko, 2006).

Our results also showed that teachers of the institutes of Sport and Physical Education of Tunisia are more prone to the problem of burnout than their counterparts. Provided its nature, the woman was still considered much more emotionally vulnerable than man. This is consistent with the work of Estryn-Behar *et al.* (2007), Lindblom *et al.* (2006) who reported that burnout is often higher in women than in men. However, some authors argue that the prevalence of burnout does not change according to gender (Ahola *et al.* 2006, 2007; Kowalski *et al.*, 2010). Including among police officers (Burke *et al.*, 2006; McCarty *et al.*, 2007). However, research supports that women have higher levels of emotional exhaustion (Maslach *et al.*, 2001; Schaufeli and Enzmann, 1998) while men have higher levels of cynicism (Evans *et al.*, 2006; Burke et al., 2006; McCarty *et al.*, 2007.

Much more, and through our study, we show that the workplace contributes to the development of burnout syndrome among teachers of the institutes of sport and physical education in Tunisia. This is consistent with the work of McCormick *et al.*, (2011), who reported that the type of school where teachers work, whether academic or otherwise, has its own sources of stress such as lack of equipment, administrative, organizational, etc...

Finally, our study showed that marital status is a factor that affects the appearance of the syndrome of burnout among teachers of the institutes of sport and physical education in Tunisia. Indeed, emotional stability could efficiently reduce the importance of this syndrome mainly at women (Pyhalto *et al.*, 2011).

Indeed, married may be more or less protected from burnout despite the additional responsibilities they provide such as financial expenses, children's education and household chores (Skaalvik *et al.*, 2011). This implies that the couple enjoys a balance between work and family life enjoying greater social support from their husbands (to), their families and friends, as opposed to singles. However, Van Houtte, (2011) showed an inverse relationship, whether married people have a higher level of burnout. Thus, singles are more vulnerable to stress.

V. Conclusion

Teachers' burnout has been recognized as a serious occupational problem in school systems worldwide (Loonstra *et al.*, 2009). Several studies suggest that in comparison with other academic, client-related professions, teaching surpasses the average levels of stress, although there is significant contextual variation in teacher training and working conditions between countries (Akca & Yaman, 2010). So burnout as a mental, emotional and physical shock snubs life professionals. It appears through our study among Tunisian high institute's teachers that teaching is so much stressful profession because of its high level of social interaction and the climate in which they occur. Indeed, our study showed that the socio-professional triggers such as age, sex, grade, job seniority, marital status and work place of teachers to influence significantly the development of burnout syndrome among teachers of the institutes of sport and physical education in Tunisia. Understanding burnout among teachers is particularly important, because the phenomenon has significant implications not only for teacher motivation, job satisfaction, health and longevity (seniority) (Jalongo & Heider, 2006), but also for student behavior and learning (Dorman, 2003; meta-analysis by Montgomery & Rupp, 2005). It has been shown that teacher burnout is related to an increased use of performance-oriented teaching practices (Retelsdorf *et al.*, 2010), which are in turn related to increased cheating behavior (Anderman & Midgley, 2004), more negative social relations (Tolmie *et al.*, 2010) and less improvement in conceptual application skills among students

(Gillies & Ashman, 2003). Although the central role played by social interaction in teachers' occupational well-being has been known the complexity and dynamics of the social working environments provided by the school have often been neglected in studies on burnout among teachers (Devos *et al.*, 2012; Parker *et al.*, 2012).

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