Burnout syndrome in the banking sector of Bosnia and Herzegovina

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ABSTRACT

Introduction: Burnout syndrome in some European countries is recognized as an occupational disease. In the past time, it has been identified predominantly in the service sectors such as healthcare, social services, mental health and education, but later it started to be predominant in other occupations with high job requirements and time pressure. The aim of this study was to assess the presence of burnout at work among the bank employees of Sarajevo Canton, Bosnia and Herzegovina.

Methods: A cross-sectional study was conducted in banks (n = 6) located in Sarajevo Canton, Bosnia and Herzegovina, between January and April 2018. Employees filled out an anonymous questionnaire, after their written informed consent had been obtained. The study included employees regardless of their job positions and job seniority.

Results: The total number of surveyed employees was 260. There are not statistically significant gender differences (p = 0.854, p < 0.05) compared to the total Maslach Burnout Inventory (MBI) score. Statistically significant differences in relation to the total MBI score were observed in the examinees who have been working in the banking sector between 15 and 20 years (p = 0.04; p < 0.05) and examinees working temporarily <2 h/week (p = 0.016; p < 0.05), that is, more than 8 h/week (p = 0.015; p < 0.05). Mid value and standard deviation of the score in the subscale of emotional exhaustion (EE) is 26.26 ± 11.15, which shows that one third of the examinees are in high risk of EE.

Conclusion: We can conclude that less than one third of examinees are in high risk of burnout syndrome.

Keywords: Burnout syndrome; banking sector; maslach burnout syndrome; job satisfaction; emotional exhaustion; depersonalization

INTRODUCTION

In recent decades, the economy has been changing as a result of global economy crisis. The biggest changes are in the way the banks have been organized which affected the lives of the employees (1). The banking sector is an area in which there are changes in direction of mass layoffs, acquisitions and crashes, digitalization, outsourcing, business re-engineering with the decrease in the levels of hierarchy, job insecurity, increasing competition due to the entrance of more private banks (corporate) (2).

As the technology applied in banking sector became more sophisticated, bank employees gained more qualifications and became “expert sellers,” which did not only affect the way of being a bank employee, this affected their health and increased the frequency of occupational diseases (3). As a result of increasing pressure, tension and stress in the banking sector the changes in the bank environment affected also the health of its workers (1). Burnout at work is an individual response to work pressure and occupational stress (4). It is a syndrome characterized by emotional exhaustion (EE), depersonalization (DP) (negative, indifferent, distant, cynical attitudes, and impersonal feelings toward others) and reduced personal accomplishment (feeling of successful achievement in one’s work). The Maslach Burnout Inventory (MBI) is a reference instrument for measuring burnout in professional occupations (5). According to the World Health Organization, work-related stress is the response people may have when presented with work demands and pressures that are not matched to their knowledge and abilities and which challenge their ability to cope (6). Hence, the MBI serves as the gold standard to assess burnout, which effectively means that burnout is what the MBI measures (7).

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Burnout syndrome is in some European countries recognized as an occupational disease. Burnout syndrome has been earlier identified predominantly in the service sectors such as healthcare, social services, mental health and education, but later it started to be predominant in other occupations with high job requirements and time pressure (e.g., managers) like bank employees (8,9). According to the European Foundation for the Improvement of Living and Working Conditions (Eurofound) stress is one of the major occupational problems in banking sector (10). When the bank employees are dealing with customers, they need to stay focused, pay attention to their appearance and be capable to overcome current and future challenges. For those reasons bank employees are vulnerable group at a high-level of risk of burnout at work because of excessive work demands, role conflicts, responsibility to people, complex relationships with customers, and increased pressure in how much time they need to solve their tasks (11,12). According to the European Observatory of Working Life the main risk factors of occupational stress, known as job stressors, are heavy workload, long working hours, the lack of control and autonomy at work, poor relationships with colleagues, poor support at work as well as high job demands and low job control (13).

A systematic review of prospective studies showed physical consequences of burnout at work. The most common physical outcomes were cardiovascular diseases, metabolic syndrome, diabetes mellitus type 2, hypertension, high triglycerides, low HDL cholesterol, and high LDL cholesterol (11,12).

The relationships between occupational stress and burnout at work have been analyzed in number of different occupations. However, these relationships have not been tested with Bosnian and Herzegovina bank employees. Based on that fact main objective of the present study is focused on male and female employees in the Bosnian and Herzegovina banking sector. While this study specifically focuses on the data collected in the Sarajevo Canton, some of the findings are expected to be applicable to wider environment, especially to banks and other financial institutions in the emerging economy countries that face similar challenges.

A study of such nature was helpful to understand the problem of stress level and its associated factors. With this background, the aim of this study was to assess the presence of burnout at work among the bank employees of Bosnia and Herzegovina.

A review of the literature did not record any similar research, conducted on the topic of burnout at work in Bosnia and Herzegovina, thus the importance of the results is that much more significant.

**METHODS**

A cross-sectional study was conducted in 6 banks located in Sarajevo Canton, Bosnia and Herzegovina, between January and April 2018. Employees filled out an anonymous questionnaire, after their written informed consent had been obtained. The study included all employees regardless of their job positions and job seniority. The study included 260 randomly chosen banking sector employees in all bank departments in the Sarajevo Canton.

During the study period, we collected 312 questionnaires out of which 287 have been completed. After subsequent elimination based on inclusion and exclusion criteria, we included 260 participants in our analysis, out of whom 57 (21.9%) were male individuals and 203 (78.1%) were female individuals. Inclusion criteria were that the chosen individuals were full-time bank employees who maintained regular office hours for at least 3 months in banks and were between 18 and 65 years of age. Pregnant women, female employees who have a baby younger than 6 months and employees with any previously diagnosed psychiatric disorders could not have participated in the study (14).

Demographic factors included age, gender, qualifications, bank type, job rank, type of job contract (permanent vs. temporary) and working hours, length of employment at the bank, whether they had children, their smoking habits, alcohol consumption and previous or present consumption of antidepressants or sedatives (drugs). Marital status was categorized as “single/widowed/divorced/separated” and “married/cohabitating.” Education was categorized as “junior college or lower,” “college,” and “graduate or higher.” Job seniority was categorized as “leading bank employee” or “ordinary bank employee” based on responses to the question “Are you in a leading bank position or an ordinary bank employee? ” Weekly working hours were categorized as “≤40 h,” and “>40 h,” a categorization derived from the current standard work system of 8 h per day.

MBI is made up of three parts: a sense of EE (9 claims), DP (5 claims) and Personal job satisfaction (8 claims), so the total number of claims were 22. For each statement on the Likert scale of 7 degrees it is necessary to determine the degree of agreement, so each of the claims can be scored as: 0-never; 1- several times per year or less; 2- ounce per month or less; 3 - several times per month; 4 - ounce per week; 5 - several times per week and 6 - every day, so the maximum total MBI score is 132. Interpretation of data is made according to Thorsen et al. (Table 1) (13).

Statistical analysis of the data was done using IBM SPSS Statistics Version 24 (15). Level of significance was set on \( p < 0.05 \).

The study protocol was approved by the Ethical committee of the Institute of occupational medicine of the Sarajevo Canton.

| TABLE 1. Maslach Burnout inventory |
|-----------------------------------|
| Subscale | Category | Value |
|---------|----------|-------|
| EE      | High     | ≥27   |
|         | Moderate  | 19–26 |
|         | Low      | 0–18  |
| DP      | High     | >10   |
|         | Moderate  | 6–9   |
|         | Low      | 0–5   |
| Personal Job Satisfaction (PA) | High | 0–33 |
|         | Moderate  | 34–39 |
|         | Low      | ≥40   |

EE: Emotional exhaustion, DP: Depersonalization, PA: Personal achievement
RESULTS

The total number of employees surveyed were 260, out of whom 57 were men (21.9%) and 203 were women (78.1%).

Average results of MBI analysis are shown in Table 2.

The reliability of the MBI scale was tested using Cronbach’s alpha coefficient, and the results were as follows:
1. For the EE subscale, Cronbach’s alpha had a value of 0.697
2. For the DP subscale, the effort-induced discomfort Cronbach’s alpha had a value of 0.756
3. For the Personal job satisfaction subscale Cronbach’s alpha had a value of 0.866

According to the literature (16) the acceptable value of Cronbach's alpha is at least 0.7, from which it can be concluded that the obtained coefficient values for the three subscales are acceptable.

Exploratory analysis was performed using the Principal Component Analysis extraction method and the Varimax rotation method. The results showed that the claims are grouped in 5 main factors (Table 3) that explain 61.17% of the variance.

The multiple regression analysis examines whether the total MBI score is influenced by gender, qualifications, length of service, and overtime work. The results showed no statistically significant differences between men and women (p = 0.854; p < 0.05), also no statistically significant difference in relation to the qualifications which the participants had, as well as in relation to the length of service, except for respondents who work in the banking sector between 15 and 20 years (p = 0.04; p < 0.05). However, there are statistically significant differences in whether the respondent works overtime or not (Table 4).

DISCUSSION

It is a well-known fact that works in the banking sector is highly stressful which facilitates the development of the burnout symptoms at work. It is even bigger problem that the employees often do not recognize the symptoms which in time leads to the increase of their intensity and further development of hardships in everyday life, whether of physical or psychological nature.

The main goal of this research was to assess the presence of burnout at work among the bank employees of Bosnia and Herzegovina using MBI.

A total number of surveyed employees in the banking sector was 260, out of whom 57 were male (21.9%) and 203 female (78.1%) employees. However, according to the results there are no statistically significant gender difference (p = 0.854) compared to the total MBI score, which correlates to some findings in the literature where it was shown that the component of EE is a bit more observed in female employees, whereas DP prevailed with male employees, but in total score there were no significant gender differences (17). Similiar results could also be seen in the Horvat et al. (2016) study where it was proven that there is no statistically significant difference in the work burnout levels between women and men. On the other hand there are studies showing opposite results (18). One of them is a study by Cakınberk (2011) which shows that there are

### Table 2. Average results of MBI analysis

| Subscale       | Mean±Standard deviation |
|----------------|-------------------------|
| Subscale EE    | 26.26±11.15             |
| Subscale DP    | 7.97±6.56               |
| Subscale PA    | 34.25±9.48              |
| Total score    | 68.52±16.24             |

MBI: Maslach Burnout inventory, EE: Emotional exhaustion, DP: Depersonalization, PA: Personal achievement

### Table 3. Factor analysis

| Factor 1 – Emotional Exhaustion | Factor 2 – Job satisfaction | Factor 3 – Depersonalization | Factor 4 – Driving force satisfaction | Factor 5 – Financial satisfaction |
|---------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------------|
| 1. I feel it is too stressful to work in direct contact with people | 15. I am very effective in solving my clients' problems | 10. In fact, I don't care what happens to my clients | 6. I am satisfied with the quality of my sleep | 3. I am satisfied with the financial compensation for the work |
| 2. My job makes me frustrated | 16. I feel that I have a positive impact on other people's lives through my work | 11. I feel that I treat some clients as if they were impersonal objects | 18. I have done many things "worth the effort" in this business | |
| 4. I feel emotionally exhausted after work | 17. I feel very happy to have close contact with my clients | 12. I have become insensitive to other people since doing this job | 19. I feel full of energy | |
| 5. I feel tired at the thought of having to go to work | 20. I can easily understand what my clients are feeling | 13. Working with people all day is a tremendous strain for me | | |
| 7. I recently lost a lot of sleep because of worrying | 21. I take great care of my clients' problems | 14. I get the impression that my clients hold me responsible for some of their problems | | |
| 8. I am exposed to organizational injustice | 22. I'm very easily able to create a relaxed atmosphere with my clients | | | |

MBI: Maslach Burnout inventory

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differences in burnout levels of bank employees, its terms of variables such as gender (19).

Gidou et al. (2020) showed that there is difference between genders and that female employees have higher burnout stress (20). Gender difference in burnout is also supported by study from Al-Kahtani and Allam which showed that men have higher levels of job burnout compared to women (21).

If we behold working experience as a factor, statistically significant differences in relation to the total MBI score were observed in participants who have been working in the banking sector between 15 and 20 years (\( p = 0.04 \)). Individuals who have been working in the banking sector between 10 and 15 years are middle-aged with enough knowledge and experience in their professional career and ambition. On the other hand, they are requested to work harder and have higher responsibility than younger employees, which could contribute to higher job burnout. Results of the University Clinical Center of Republic of Srpska study also show bigger EE in older doctors (\( p = 0.030 \)) (22).

Research in the correlation between the working years and burnout syndrome has been conducted in the Horvat et al. study where the working years of the examinees ranged between 1 and 36, but the results showed that there was no correlation between the two parameters, that is, that the number of the working years does not significantly affect the burnout syndrome (18).

In this study, the results show that participants who work temporarily <2 h overtime/week, and those who work more than 8 h overtime/week (\( p = 0.015 \)) show statistically significant differences in MBI score (\( p = 0.015 \)). Study Hino et al. (2019) among Japanese white-collar workers, showed the effect of changes in overtime work hours on depressive symptoms. Overtime work hours were defined as the total working hours in excession of 160 h during 1 month. Their results showed that the workers with decreased overtime work (44 h or less) had the lowest average depressive symptoms score (9.56) and statistically significant differences were observed compared to the stable medium overtime work (45 to 79 h) and increased overtime groups (80 h or more) (23).

Examining the effects of overtime work on subjective social status and sense of social inclusion in the Chinese context, findings suggest that workers who had long work hours (more than 40 h/week) are more likely to underestimate their social class perception and feel less social inclusion.

### TABLE 4. Factor Fills for the 22 MBI questions

| Emotional exhaustion | Emotional exhaustion | Job satisfaction | Depersonalization | Driving force | Financial satisfaction |
|----------------------|----------------------|------------------|-------------------|--------------|------------------------|
| 1. I feel it is too stressful to work in direct contact with people | 0.675 | -0.039 | 0.019 | 0.092 | 0.112 |
| 2. My job makes me frustrated | 0.827 | -0.108 | 0.077 | 0.007 | -0.056 |
| 4. I feel emotionally exhausted after work | -0.153 | 0.012 | -0.103 | 0.336 | 0.717 |
| 5. I feel tired at the thought of having to go to work | 0.819 | 0.017 | 0.069 | -0.089 | 0.028 |
| 7. I recently lost a lot of sleep because of worrying | 0.673 | -0.019 | 0.070 | -0.179 | -0.023 |
| 8. I am exposed to organizational injustice | 0.647 | -0.023 | 0.030 | -0.053 | -0.066 |
| 9. I feel like I’m working too hard in my workplace | 0.784 | 0.007 | 0.032 | -0.137 | -0.063 |

#### Job satisfaction

| 15. I am very effective in solving my clients’ problems | -0.035 | 0.685 | -0.004 | 0.054 | -0.076 |
| 16. I feel that I have a positive impact on other people’s lives through my work | -0.074 | 0.666 | 0.033 | 0.340 | -0.132 |
| 17. I feel very happy to have close contact with my clients | -0.110 | 0.630 | 0.020 | 0.431 | -0.101 |
| 20. I can easily understand what my clients are feeling | -0.020 | 0.855 | 0.037 | -0.049 | 0.163 |
| 21. I take great care of my clients’ problems | 0.028 | 0.859 | 0.008 | -0.056 | 0.111 |
| 22. I’m very easily able to create a relaxed atmosphere with my clients | -0.020 | 0.839 | 0.009 | 0.068 | 0.026 |

#### Depersonalization

| 10. In fact, I don’t care what happens to my clients | 0.154 | 0.058 | 0.804 | -0.093 | 0.488 |
| 11. I feel that I treat some clients as if they were impersonal objects | -0.034 | 0.007 | 0.803 | -0.065 | 0.113 |
| 12. I have become insensitive to other people since doing this job | 0.008 | -0.014 | 0.793 | -0.019 | 0.076 |
| 13. Working with people all day is a tremendous strain for me | 0.177 | -0.004 | 0.671 | 0.214 | -0.347 |
| 14. I get the impression that my clients hold me responsible for some of their problems | 0.124 | 0.043 | 0.673 | 0.023 | -0.218 |

#### Driving force

| 10. In fact, I don’t care what happens to my clients | -0.033 | -0.035 | 0.040 | 0.646 | 0.239 |
| 11. I feel that I treat some clients as if they were impersonal objects | -0.061 | 0.485 | -0.033 | 0.576 | -0.117 |
| 12. I have become insensitive to other people since doing this job | -0.234 | 0.402 | -0.016 | 0.592 | 0.082 |

#### Financial satisfaction

| 3. I am satisfied with the financial compensation for the work | -0.153 | 0.012 | -0.103 | 0.336 | 0.717 |

MBI: Maslach Burnout inventory
Secondly, many findings have indicated that the overtime work in developing countries, such as the United States and Japan is more widespread, and employees suffer from more time-related stress, which leads to more serious psychological and sociological implications (24).

As it can be seen in the Table 4, no significant differences have been spotted in the burnout levels in relation to the education degrees of the examinees. Cakinberk study (2011) examined the correlation between the professional burnout and life satisfaction and it has proved that the higher EE and DP levels, as well as lower Personal achievement (PA) level, have been connected with the education degrees, therefore this factor should not be neglected and it needs to be paid a special attention to in the future researches of larger number of participants (19).

The aim of the factor analysis was to reduce a number of data, that is, to group the claims according to the factors influencing the data variations and determine whether there is a correlation between 22 facts within MBI. Explorative analysis was conducted with the Principal Component Analysis extraction method and Varimax rotation method. Results have shown that the claims grouped in 5 factors (Table 2) which explain 61.17% variants. First three factors were defined as EE (Factor 1), job fulfillment (Factor 2) and DP (Factor 3), whereas fourth and fifth factors were defined as the driving force (Factor 4) and financial satisfaction (Factor 5). Factor 1 defines the biggest number of claims, seven of them, whereas Factor 5 defines the lowest number of them, only one.

Based on the factor load it is indicative that the main factors contributing to EE of the participants are their feeling frustrated about their job – Claim 2 (0.827), tired while thinking about going to work – Claim 5 (0.819) and feeling that they are working too hard – Claim 9 (0.784). The biggest load in DP is the feeling that clients are being treated as impersonal objects – Claim 11 (0.803), that is, they feel insensitive to other people – Claim 12 (0.793). Positive claims that “they are effectively taking care of their clients’ problems” – Claim 21 (0.859), that is, “very easily understand their clients’ feelings” – Claim 20 (0.855) and “I can easily create relaxed atmosphere with my clients” – Claim 22 (0.839), have largely contributed to the personal feeling of job satisfaction. On the other hand, financial satisfaction represents criteria important in the appearance of the burnout syndrome – Claim 3 (0.717).

According to the estimated risk of burnout at work appearing, compared to subscales, we differ high, mid and low risk. As it can be seen from Table 5 and Table 2, 47.31% of participants have high EE with average value of 26.26, 44.23% of participants have low DP with average value of 7.97, and 42.69% of participants have high PA with average value of 34.25.

These results are consistent with the study carried out by Amigo et al. (25). The study included more than 1300 employees in the banking sector and results showed high risk of burnout, with the EE dimension mostly contributing to these results, some 63.16% of the examinees had high risk values, 60.92% had high DP risk, whereas 28.41% of examinees had low PA level. In order for the burnout to appear not all three subscales demands should be fulfilled, therefore the largest percentage of the examinees has high risk presented in the results of at least one subscale. The most frequent factors combinations leading to burnout are from subscales EE and DP (26). The previously showed results have also been showed in Schaufeli et al. study (27), therefore EE and DP subscales are considered to be the best indicators of the level of work burnout.

**CONCLUSION**

This study focused on detection of burnout syndrome among banking employees. Job burnout doesn’t appear suddenly. For controlling and avoiding job, burnout focusing on warning factors is so much important which the employees should be aware about them. These factors included various beneficial factors for improving physical status (exercise, meditation, etc.) Using relaxing methods also help to be patient and calm in inconvenient situation. In addition, the employees can take part in some educational workshops and seminars to learning different organization behavior, methods, and strategies that can be beneficial for workplace and them. We found a lack of research on burnout in bank employees in Bosnia and Herzegovina, indicating the need for further studies in this population group. Subjects of both genders are emotionally exhausted, with DP prevailing with male employees. There is direct correlation between working years in banking sector and number of working hours with burnout syndrome. Work-related stress can be prevented by investing in employee education, by encouraging the participation of employees in the decision-making process, as well as by investing in the quality of the work environment.

**Limitations of the Study**

There were several limitations in conducting this study. First, the results could be biased because this is self-reported questionnaire. Secondly, since this research was based on a cross-sectional study, it was not possible to examine a possible cause-and-effect relationship. We did not ask about the number of traumatic experiences that participants had experienced either at their workplace or in their home life and we did not consider family situations, except for sociodemographic factors.

Participation of the banking sector employees is voluntarily, and therefore one can inadvertently dismiss the opinion of those who do not agree to participate which could lead

### Table 5. Number of participants among the subscales

| Subscale                        | Category | Number of participants (%) |
|---------------------------------|----------|---------------------------|
| EE                              | High     | 123 (47.31)               |
|                                 | Moderate | 76 (29.23)                |
|                                 | Low      | 61 (23.46)                |
| DP                              | High     | 91 (35)                   |
|                                 | Moderate | 54 (20.77)                |
|                                 | Low      | 115 (44.23)               |
| Personal Job Satisfaction (PA)  | High     | 111 (42.69)               |
|                                 | Moderate | 60 (23.08)                |
|                                 | Low      | 89 (34.23)                |

**EE**: Emotional exhaustion, **DP**: Depersonalization, **PA**: Personal achievement

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to biased information. However, for this study, we have contacted top management through human resources department explaining its advantages for the employees which should motivate them enough to participate. Thirdly, methodological limitation is that the sample is not homogeneous because there are many more women than men in sample. Why is this important? It is necessary to create different policies in the general working surrounding, as well as create plan in securing the health of the banking sector employees.

DECLARATION OF INTERESTS

The authors declare no conflict of interest.

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