IS BURNOUT IN FAMILY PHYSICIANS IN CROATIA RELATED TO INTERPERSONAL QUALITY OF CARE?

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The impact of physician burnout on the quality of patient care is unclear. This cross-sectional study aimed to investigate the prevalence of burnout in family physicians in Croatia and its association with physician and practice characteristics, and patient enablement as a consultation outcome measure. Hundred and twenty-five out of 350 family physicians responded to our invitation to participate in the study. They were asked to collect data from 50 consecutive consultations with their adult patients who had to provide information on patient enablement (Patient Enablement Instrument). Physicians themselves provided their demographic and professional data, including workload, job satisfaction, consultation length, and burnout [Maslach Burnout Inventory – Human Services Survey (MBI-HSS)]. MBI-HSS scores were analysed in three dimensions: emotional exhaustion (EE), depersonalisation (DP), and personal accomplishment (PA).

Of the responding physicians, 42.4 % scored high for EE burnout, 16.0 % for DP, and 15.2 % for PA. Multiple regression analysis showed that low job satisfaction and more patients per day predicted high EE scores. Low job satisfaction, working more years at a current workplace, and younger age predicted high DP scores. Lack of engagement in education and academic work, shorter consultations, and working more years at current workplace predicted low PA scores, respectively ($P<0.05$ for each).

Burnout is common among family physicians in Croatia yet burnout in our physicians was not associated with patient enablement, suggesting that it did not affect the quality of interpersonal care. Job satisfaction, participation in educational or academic activities and sufficient consultation time seem to reduce the likelihood of burnout.

KEY WORDS: family practice, patient enablement, quality of health care
pressure, role conflict; job resources: social support, autonomy, and decision involvement) than to individual factors (e.g. demographic and personality characteristics, work-related attitudes) (2) and is significantly determined by the (in)congruence between personal values and values inherent to the health care system (3).

The complex nature of providing accessible, continuing, and comprehensive care to patients and their families and managing ethical dilemmas, puts family physicians at high risk of depletion of their emotional resources and developing burnout (3, 4). The reported prevalence of burnout in family physicians and family medicine trainees in the last decades is disconcerting (5-10). The EGPRN Burnout study reports emotional exhaustion in 43 %, depersonalisation in 35 %, and feelings of reduced personal accomplishment in 32 % of family physicians across Europe (11).

Physician burnout may affect physicians’ own well-being and their practice (1, 2). However, this impact on the quality of care is still not clear. Studies with medical residents have reported an association between high burnout levels and the number of self-perceived medical errors (12) or self-reported suboptimal patient care (13). However, they have not revealed any association between burnout and objective measures of medical error (14).

Limited information is available about how physician burnout is related to interpersonal quality of care - one of the key elements in defining quality of care according to Campbell (15) and a core attribute of good general practice (16). Earlier studies find no significant association between physician burnout and patient satisfaction, patient ratings of physician’s interpersonal skills, or observed patient-centredness during primary care consultations (17, 18).

To our knowledge, no study has examined the relationship between physician burnout and patient enablement, a patient-reported consultation outcome measure that reflects the extent to which patients understand and feel able to cope with their life and health conditions.

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<tr>
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<td>2</td>
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<td>4.8</td>
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<tr>
<td>6 (high)</td>
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<td>13.6</td>
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illness as a result of general practice consultation (16). The aim of our study was therefore to investigate the prevalence of burnout in family physicians in Croatia and see if it was associated with physician and practice characteristics and patient enablement.

PARTICIPANTS AND METHODS

Participants

This cross-sectional study was conducted as part of two concurrent research projects: Evidence-Based Quality of Health Care, funded by the Croatian Ministry of Science, Education and Sports, and the European General Practice Research Network (EGPRN) Burnout Study (11). It was approved by the Ethics Committee of the Zagreb University School of Medicine.

From the target population of 2418 physicians working in the family medicine service in Croatia (19) we contacted a random sample of 350 physicians using a multistage, stratified, proportional sample design for their selection. Five stratification criteria on which we based this selection included physician’s age [≤34 years, (35 to 54) years, ≥55 years], sex, vocational training (medical doctor without specialisation, general practice / family medicine specialist, occupational health specialist, school medicine specialist), practice size [≤1200 patients, (1201 to 1699) patients, ≥1700 patients], and geographical distribution of the practices (21 Croatian counties). These data were taken from the Croatian National Institute of Public Health (19) and the Croatian Institute of Health Insurance.

The physicians were asked to complete two self-administered, anonymous questionnaires and to pass the third questionnaire to 50 patients aged ≥18 years as they came for a consultation. Patients were informed about the purpose of the study, and about the anonymous and voluntary nature of participation.

Physicians were also asked to time each consultation with a watch, and round its length to the nearest half-minute. Patients were asked to fill out the questionnaire immediately after the consultation and leave it in a sealed box at the reception desk to ensure confidentiality.

Questionnaires

The first questionnaire for physicians included demographic data, educational/academic engagement (teaching medical students, interns, or trainees and/or scientific research), type of employment (state-employed or self-employed, the second further divided
it into leased or owned private practice), and workload. It was originally designed for a national study described elsewhere (20).

The second questionnaire for physicians was designed by the EGPRN Burnout Study Group (11). It incorporated demographic data, working experience, job satisfaction, and the Maslach Burnout Inventory - Human Services Survey (MBI-HSS). MBI-HSS is a standardised instrument that measures burnout in healthcare professionals (1). It consists of 22 Likert-type questions in which physicians score how often they find a statement (item) applicable to them (on a 7-point scale ranging from 0 = “never” to 6 = “every day”). The scoring covers three dimensions: emotional exhaustion (EE), depersonalisation (DP), and personal accomplishment (PA) as follows: EE subscale has nine items and a maximum score of 54, DP has five items and a maximum score of 30, and PA has eight items and a maximum score of 48. High EE or DP scores and low PA scores indicate high levels of burnout. The EGPRN Burnout questionnaire was translated into Croatian according to a method adopted by the EGPRN Burnout Study Group and tested in an international validation pilot study (21). No adaptations of the questionnaire were necessary after the pilot. The MBI-HSS section of the questionnaire was internally validated during the EGPRN Burnout study in European family doctors by calculating Cronbach’s alpha coefficient for each dimension (EE, DP, and PA). For the Croatian translation of the questionnaire Cronbach’s alpha was 0.92 for EE dimension, 0.73 for DP dimension, and 0.77 for PA dimension (11).

Our analysis combined variables from both questionnaires, including physician’s age (years), sex, marital status (married, single, divorced/separated, widowed), children (yes/no), educational/academic engagement (yes/no), type of employment (state or self-employed), years in current position, average number of patients per day, average number of house calls per week, job satisfaction (7-point Likert-type scale, ranging from 0 = “very little” to 6 = “very much”), EE, DP, and PA score.

Patients completed a self-administered questionnaire that included a standardised Patient Enablement Instrument (PEI) developed to measure enablement at consultations (22). PEI includes six items addressing patients’ ability to understand their illness, to cope with their illness after seeing the doctor, and addressing the degree to which they feel to be able to cope with life, keep themselves healthy, feel confident about their health, and help themselves (22). Responses “much better”, “better”, and “same or less” were scored 2, 1, and 0, respectively. The PEI questionnaire was translated into Croatian separately by two researchers and validated at a discussion group with other researchers, an English teacher employed at Zagreb Medical School, and 10 patient representatives of different age, sex, and educational level. No adaptations of the questionnaire were necessary. The questionnaire was then translated back into English.

| Table 4 Multiple regression analysis using overall scores of the three burnout dimensions as dependent variable |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| EE* | DP** | PA*** |
| Beta | P | Beta | P | Beta | P |
| Intercept | 40.868 | 0.002 | 11.892 | 0.043 | 35.829 | <0.0001 |
| Age | -0.223 | 0.226 | -0.171 | 0.041 | 0.190 | 0.063 |
| Sex (1=male, 2=female) | 2.607 | 0.312 | 1.597 | 0.171 | 0.199 | 0.889 |
| Marital status (1=married, 2=other) | -1.606 | 0.574 | -0.301 | 0.816 | -1.182 | 0.456 |
| Children (1=yes, 2=no) | -1.447 | 0.664 | 0.510 | 0.735 | -1.315 | 0.478 |
| Educational/academic work (1=yes, 2=no) | 0.314 | 0.899 | 1.489 | 0.182 | -3.537 | 0.011 |
| Type of work (1=private, 2=public) | -3.886 | 0.256 | -1.955 | 0.206 | 2.570 | 0.176 |
| Years working at current workplace | 0.101 | 0.175 | 0.181 | 0.023 | -0.280 | 0.005 |
| Average number of patients per day | 0.245 | 0.014 | 0.036 | 0.416 | -0.003 | 0.958 |
| Average number of house calls per week | 0.126 | 0.265 | -0.086 | 0.474 | 0.154 | 0.297 |
| Job satisfaction | -4.746 | <0.0001 | -1.576 | 0.206 | -0.515 | 0.151 |
| Mean physician-specific consultation length | 0.465 | 0.108 | -0.173 | 0.185 | 0.447 | 0.006 |
| Mean physician-specific patient enablement score | -0.675 | 0.382 | -0.346 | 0.323 | -0.339 | 0.429 |

EE – emotional exhaustion; DP – depersonalisation; PA – personal accomplishment

*EE model: Sum of squares = 6920.710, df = 12, P <0.0001, R2 = 0.384
**DP model: Sum of squares = 878.170, df = 12, P = 0.011, R2 = 0.143
***PA model: Sum of squares = 833.274, df = 12, P = 0.013, R2 = 0.196
by another researcher and the translation was compared with the original (20).

All questionnaires were sent to physicians by mail together with a cover letter and a prepaid reply envelope. No financial or educational incentives were provided to participating physicians. After one month they received a reminder.

Statistical analysis

For analysis we used descriptive statistics. MBI-HSS scores were calculated for EE, DP, and PA and then transformed into categorical variables for high, moderate, and low burnout in each dimension, using the cut-off values applicable for physicians (1), as follows: EE - low burnout ≤18, moderate burnout 19 to 26, high burnout ≥27; DP - low burnout ≤5, moderate burnout 6 to 9, high burnout ≥10; and PA - high burnout ≤33, moderate burnout 34 to 39, and low burnout ≥40 (inverse scale).

Mean patient enablement score and mean consultation duration were calculated for each physician. Enablement scores were divided into three groups as follows: low (<25th percentile), medium (25th to 75th percentile), and high (>75th percentile).

Kruskal-Wallis test was used to test the differences in EE, DP, and PA between categorical variables. Spearman correlation was used to establish the relationship between EE, DP, and PA scores and numerical variables. Multiple regression analysis was used to identify factors associated with burnout levels. EE, DP, and PA overall scores were used as dependent variables. Predictor variables included physician’s age, sex, marital status (married or other), children (yes/no), educational/academic engagement (yes/no), type of employment (state-employed or self-employed), years at current position, average number of patients per day, average number of house calls per week, job satisfaction, mean physician-specific patient enablement score, and mean physician-specific duration of consultations.

P value <0.05 was considered statistically significant. Software SAS 8.0.2 (SAS Institute Inc., Cary, NC, USA) was used for data analysis.

RESULTS

Of 350 invited physicians, 125 completed and returned physician and patient questionnaires (response rate 35.7%). Of 6250 patients approached; 5527 patients provided questionnaires that could be used for statistical analysis (response rate 88.4%).

The responding physicians’ mean age ± standard deviation (SD) was (46.0±7.0) years, with an average of (13.3±7.4) years working at the current position. Most were women (N=102, 81.6%) (Table 1). The responding physicians saw (49.2±9.8) patients a day and made (5.0±3.6) house calls a week. Twenty-four (19.2%) physicians were engaged in an educational and/or academic activity (Table 1). Average job satisfaction score was 3.9±1.4.

Mean EE score ± standard deviation was 24.7±12.1, DP 5.1±4.6, and PA 40.3±5.9. A total of 42.4% of physicians scored high for EE, 16.0% scored high for DP, and 15.2% scored high for PA burnout (Table 2).

Mean patient enablement scores at physician level ranged from 3.2 to 9.6, with an overall physician-specific mean enablement score ±SD of 6.6±1.2. Enablement scores were normally distributed: 32 (25.6%) physicians had mean enablement score in the bottom quartile (<25th percentile, mean enablement score 3.2 to 5.8), 63 (50.4%) between the bottom and top quartile (25th to 75th percentile, mean score 5.9 to 7.5), and 30 (24.0%) in the top quartile (>75th percentile, mean score 7.6 to 9.6).

Mean consultation duration ranged from 4.8 min to 22.4 min, with an overall physician-specific average consultation duration of (11.6±3.3) min.

Job satisfaction correlated significantly with all three burnout dimension scores; the average number of patients per day correlated with the EE score, and mean consultation duration correlated significantly with the PA score (Table 3).

Multiple regression analysis showed that job satisfaction and average number of patients per day significantly correlated with the EE score. Physician’s age, number of years working at current workplace, and job satisfaction significantly correlated with the DP score. Being involved in educational or academic activity, number of years working at current workplace, and physician-specific mean consultation duration significantly correlated with the PA score (Table 4).

Distribution of low, moderate, and high EE, DP, or PA burnout did not correlate with the distribution of low, medium, and high physician-specific patient
enablement scores nor did the presence of none, any, or all three burnout dimension correlate with patient enablement scores.

**DISCUSSION**

Our findings suggest that burnout is quite common in family physicians in Croatia. Compared to EGPRN global findings (11), our population being a part of that study, the proportion of family physicians with high EE burnout in Croatia is comparable to global rates (42.4% vs. 43.0%), while high DP and high PA burnout is lower in the Croatian arm (16.0% and 15.2% in the Croatian arm vs. 35.3% and 32.0% in the EGPRN study, respectively). However, the 12 European countries included in the EGPRN burnout study show a considerable variation in burnout rates (11). Many European studies independent of EGPRN report lower burnout rates, just as ours does (5-9).

Burnout in physicians in our study was not associated with patient enablement and therefore with the quality of interpersonal care. Although somewhat unexpected, these results can be discussed from different perspectives. Patient enablement stems from patient-centred care (16). In a study by Howie et al. (23), physicians who rated their stress the highest practiced more patient-centred style in consultations. Similarly, Zantinge et al. (24) found that emotionally exhausted general practitioners (GPs) had longer consultations with their patients. In another study by the same authors (25), GPs discussed about psychological problems with their patients even when their workload was the heaviest. Ratanawongs et al. (18) also found no association between physician burnout and patient-centredness or patients' ratings of satisfaction, confidence or trust. Similar results were reported by Orton et al. (17), who showed that higher depersonalisation scores were not associated with poorer patient ratings of doctors' interpersonal skills or a lower patient-centeredness rating.

While patient-centredness and responding to patient needs may result in better patient-reported outcomes, it may also be associated with depletion of physician's own emotional reserves and burnout. Our study supports this thesis, as more years working at the current workplace (i.e. for the same population) correlated with higher DP and PA burnout. Personal factors such as setting high professional standards and sensitivity to patient expectations have previously been reported to increase the chance of developing burnout (2), so it does not seem unlikely that physicians who are providing good interpersonal quality of care might be susceptible to burnout.

Another reason why burnout in physicians was not associated with patient enablement could be related to patients' expectations. Patients' expectations have previously been reported as a key determinant of enablement (26). Consequently, patients who are used to a certain consulting style, although objectively of a doubtful quality, may see it acceptable simply because it is in line with their previous experience. Patients of burned-out physicians may therefore feel equally enabled as other patients as a result of their expectations. Clearly, the relationship between physician's psychological wellbeing and patient-perceived physician performance is complex and needs further investigation.

One of the important findings in our study is that longer consultations contributed to physician's feeling of higher personal accomplishment. Longer consultations have been related to many positive patient-related quality outcomes (27-29) as well as reduced stress in general practitioners (30, 31), with the strongest effect in GPs who are patient-centred (31). Having sufficient time for consultation (which is closely related with the number of patients a physician sees every day) positively correlates with and is important in preserving doctor's psychological wellbeing.

Physicians' academic or educational activities correlated with their feeling of higher personal accomplishment. All our participants were full-time family physicians, and teaching medical students, interns, or trainees or involvement in research and academic work were additional workload. Nevertheless, this type of activities protected physicians against PA burnout, unlike seeing more patients. In a study by Lee et al. (32), continuing medical education (CME) of family physicians was recognised as a strategy to reduce stress on the job and was associated with lower levels of burnout. Our results have confirmed that educational or academic activities provide an opportunity to build one's professional self-esteem and contribute to higher job satisfaction as the strongest known predictor against burnout (2, 11, 33). Intellectual stimulation predicted higher job satisfaction in Dutch medical specialists (33) and not being a member of a CME group doubled the likelihood of burnout in Danish GPs (34). In Israeli primary care physicians CME activities also positively correlated with job satisfaction and negatively with burnout (35).
Participation in academic or educational activities is an opportunity to receive support from colleagues, which diminishes the family physician’s sense of professional isolation. Australian GPs who considered leaving rural practices had fewer colleagues with whom to discuss professional issues (36), while the ones who chose to stay established personal and professional networks (37).

As expected, the strongest association in our study was the one between job satisfaction and EE or DP burnout. Job satisfaction has already been reported to protect against the adverse effects of work stress on mental health (33, 38) and against burnout (2, 11).

Higher level of depersonalisation in younger physicians in our study is in line with earlier reports (2, 39, 40) and reflects the difficulties in balancing career, family life, and personal development of a young doctor. At the same time, higher level of depersonalisation and feeling of professional ineffectiveness was associated with more years working at the current position. Although there is a lot of evidence that interpersonal continuity of care contributes to therapeutic doctor-patient relationship and positive outcomes of care (20, 22, 41, 42), some negative emotional effects have also been recognised, such as frustration, boundary issues, and negative effects on personal life (43). Burnout rates in older surgeons in a study by Campbell et al. (40) were lower due to greater job satisfaction and perceived sense of control and autonomy in practice (40). One of the specific features of working as a family physician in a solo practice is that it is difficult to reduce workload or increase sense of control with age, which provides opportunity for burnout to grow insidiously with years in clinical practice.

No relationship between burnout and most of the other tested demographic characteristics suggests that all family physicians are vulnerable to burnout. Strategies aimed at preventing burnout should thus be addressed to all family physicians rather than certain groups at risk.

Limitations of the study

This study has several limitations. We achieved a response rate of 35.7 % from our stratified sample of physicians, with a rather small proportion of practices with list sizes ≤1200 patients. However, our analyses suggest that our respondents did not differ substantially in demographic (age, sex) and professional (vocational training) characteristics from the total population of physicians working in the family medicine service in Croatia in 2002. The same is true for responding patients. A more detailed comparison between responders and non-responders has been published earlier (20).

It is possible that physicians who chose not to take part in the study may have scored differently on the MBI-HSS and influence the reported burnout rates in physicians. In addition, self-reporting about burnout and patient enablement, and the cross-sectional design of the study call for cautious interpretation.

CONCLUSIONS

Burnout is common among family physicians in Croatia and is not associated with patient enablement. In other words, it does not affect the quality of interpersonal care.

Job satisfaction, educational or academic activities, and sufficient consultation time seem to protect against burnout. Years of providing long-term care for the same population appear to increase the risk of depersonalisation and feelings of professional ineffectiveness in physicians. Further research should address these factors in order to explore and develop effective intervention programmes.

Acknowledgments

We would like to thank the family physicians who participated in the study and completed the questionnaires and the Croatian Institute for Health Insurance for providing the 2002 physician database that served as our sampling source. We would also like to thank Professor Davor Ivanković for his valuable help in sampling. This cross-sectional study was a part of the two concurrent research projects: a research project no. 0108331, sponsored by the Croatian Ministry of Science, Education, and Sports, and a research project entitled European General Practice Research Network (EGPRN) Burnout Study, supported jointly by EGPRN and the European section of the World Organization of National Colleges, Academies and Academic Associations of General Practitioners/Family Physicians (WONCA).

A part of the preliminary results of this study was presented at the 6th EQuIP Invitational Conference Value for money in general practice – management and public trust, Copenhagen, Denmark, April 7-9, 2011, and has been included in the conference proceedings in the form of an abstract entitled “Burnout in general practitioners in Croatia – does it affect interpersonal quality of care?”.
REFERENCES


Sažetak

SINDROM IGZARANJA MEĐU LIJEČNICIMA OBITELJSKE MEDICINE U HRVATSKOJ – POSTOJI LI POVEZANOST S KVALITETOM KOMUNIKACIJSKIH SKRBI?

Povezanost sindroma izgaranja liječnika i kvalitete skrbi nije potpuno jasna. Cilj rada bio je istražiti učestalost sindroma izgaranja u liječnika obiteljske medicine (LOM) u Hrvatskoj te povezanost sindroma izgaranja i obilježja liječnika i njegove prakse te osposobljenosti bolesnika kao mjere ishoda konzultacije.

Provedeno je presječno istraživanje na nacionalnom stratificiranom slučajnom uzorku od 350 LOM koji su prikupili podatke od 50 odraslih bolesnika tijekom 50 susljednih konzultacija. Za bolesnike su prikupljeni podaci o osposobljenosti bolesnika (Upitnik za procjenu osposobljenosti bolesnika, PEI), duljini konzultacije, a za liječnike podaci o demografskim i profesionalnim značajkama, opterećenju poslom, zadovoljstvu poslom, prisutnosti sindroma izgaranja na poslu (Maslach Burnout Inventory – MBI-HSS). Vrijednosti MBI-HSS analizirane su u tri dimenzije: emocionalna iscrpljenost (EI), depersonalizacija (DP) i osobno postignuće (OP).

Među 125 liječnika, EI visokog stupnja zabilježena je kod 42,4 %, DP visokog stupnja kod 16,0 % te OP visokog stupnja kod 15,2 % liječnika. U regresijskoj analizi visoke vrijednosti EI su predviđali manje zadovoljstvo poslom i veći broj bolesnika dnevno. Visoke vrijednosti DP su predviđali manje zadovoljstvo poslom, više godina na sadašnjem radnom mjestu i mlađa dob. Niske vrijednosti OP su predviđale ispostavljeno sudjelovanje u nastavnim ili akademskim aktivnostima, kraće konzultacije te više godina na sadašnjem radnom mjestu (P<0.05 za svaki).

Sindrom izgaranja prisutan je među LOM u Hrvatskoj. Nismo utvrdili povezanost sindroma izgaranja liječnika i osposobljenosti bolesnika, odnosno prisutnost sindroma izgaranja nije bila povezana s kvalitetom komunikacijskih skrbi. Zadovoljstvo poslom, sudjelovanje u nastavnim ili akademskim aktivnostima te dostatno vrijeme konzultacije mogli bi imati zaštitni učinak u nastanku sindroma izgaranja u liječnika.

KLJUČNE RIJEČI: kvaliteta zdravstvene skrbi, obiteljska medicina, osposobljenost bolesnika

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