Burnout among teachers: theoretical setting, top-down innovation, and social relations
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CHAPTER 6

Students' perceptions of the incidence of burnout among their teachers

Abstract

The aim of this study was to explore students' perception of teacher burnout in relation to the occurrence of disruptive student classroom behavior and the teachers' competence to cope with this kind of behavior. First, the study shows that the Maslach Burnout Inventory (MBI), the Coping with Disruptive Behavior Scale (CDBS), and the Perceived Disruptive Behavior Scale (PDBS) could be adapted to students to report perceived burnout symptoms among their teachers, the occurrence of perceived disruptive student behavior, and the students' perception of their teachers' competence to cope with disruptive student behavior. Second, students' perceptions do not differ according to their age. Third, we found that there was a significant difference between the perceptions of male and female students in respect of emotional exhaustion and depersonalization, but not in respect of personal accomplishment. Finally, we found that female students score higher on the perceived occurrence of disruptive student behavior.

Students' perceptions of their teachers appear to contribute valid information on the mental health of the latter. It would be advisable for future research on teacher burnout to be based both on the teachers' self reports and on the students' reports.

Introduction

Research reveals that burned out human service professionals, including teachers have had and perhaps are still having a hard time. Although the fit between them and their job has been disrupted (Galloway, Boswell, & Pankhurst, 1981; Smith & Bourke, 1992), they continue their work, and by doing so, harm their own health and the well-being of their clients.

Students need mentally and physically fit grown-ups who can guide them as they find their way in our world. Burned out teachers suffer from irritability (Huberman, 1993), and

they are found to be responsible for student apathy (Jenkins & Calhoun, 1991). Teachers are known to continue working in spite of burnout symptoms (Dworkin, 1985; Hock, 1988) or reduced classroom management skills (Blase, 1984; Smith & Bourke, 1992).

As burned out teachers negatively affect themselves, their students, and the educational system (Hughes, 2001), it is necessary to develop and promote the use of instruments to accurately measure teacher burnout. As a complement to teachers' reports on their own health, their students could give valid information about them, thus helping to discover burnout among teachers at an earlier stage and making timely preventive or restorative intervention strategies possible. Teachers play such a valuable role in helping our children grow up that any opportunity to promote their physical and mental health should be seized.

**Teacher Burnout**

According to the well-known definition of burnout (Maslach, 1976; Maslach & Jackson, 1981) burned out people suffer from emotional exhaustion, depersonalization, and a reduced sense of personal accomplishment. Emotional exhaustion refers to feelings of being emotionally overextended and having depleted one's emotional resources. Depersonalization refers to a negative, callous, and detached attitude towards the people one works with, i.e. patients, clients, or students. Reduced personal accomplishment refers to someone's negative self-evaluation in relation to his job performance (Schaufeli, Maslach, & Marek, 1993).

Many studies on burnout stress a behavioral aspect of the syndrome while many others stress a mental aspect. Oranje (2001) divides studies on burnout in three categories. First, burnout is considered to be a coping problem (the interaction model), i.e. burnout stems from the negative outcome of an individual's judgment of his own abilities in relation to real or imagined stressors in the individual's environment (Byrne, 1991; Cherniss, 1980; Eskridge & Coker, 1985).

Second, some studies view burnout as a state of both physical and mental exhaustion that strikes the individuals involved for a long time in situations that exact a heavy emotional toll (Kremer-Hayon & Kurtz, 1985). This view is categorized as the response or physiological model.

Third, some studies depart from the view that it is the environment that produces stressors responsible for the onset of burnout. Examples of such environmental stressors are the social relationships of the teachers with students, colleagues and principals (Brouwers &
Tomic, 1999; Feitler & Tokar, 1980), and the organizational working circumstances (Brenner, Sorbom, & Wallius, 1985; Burke & Richardsen, 1996; Van Dierendonck, Schaufeli, & Buunk 1998).

Although burnout symptoms also occur among blue-collar workers, it is the category of human service workers who appear to run the greatest risk of falling victim to the burnout syndrome (Freudenberger, 1975). Teachers in particular experience many stressful events in their careers (Burke, Greenglass, & Schwarzer, 1996). Although Selye (1976) divided stress into eustress (stress positively influencing behavior) and distress (stress negatively influencing behavior), work stress is usually associated with the negative aspects of someone's professional career.

It is, however, a serious problem that so far teacher burnout studies have lacked a firm theoretical basis and that proof of causal relationships between environmental stressors and individual health consequences is almost entirely lacking. Guglielmi and Tatrow (1998) posit that burnout research lacks a theoretical framework that unifies and guides empirical research on burnout. To meet one of their most essential objections, we departed from the self-efficacy theory when composing the questionnaire on teacher competence in order to measure domain-specific teacher classroom behavior. In some studies, the self-efficacy theory appeared to be a promising conceptual framework for studying teacher burnout (Brouwers, 2000; Evers, Brouwers & Tomic, 2002).

Their second objection to many burnout studies is related to how valid data is collected about the phenomenon. Generally speaking, self-report questionnaires and self-reported information to medical doctors and/or psychologists form the quintessential proof that someone suffers from burnout to a certain degree. Because of the many negative consequences accompanying burnout, it is a matter of great importance to improve the assessment of its incidence. That is why we adapted self-report questionnaires so as to enable students to score the items.

The Maslach Burnout Inventory (MBI) is more often than not the only instrument used as a questionnaire to assess self-reported teacher burnout. However, an instrument may be adapted in such a way that it enables the clients to report perceived symptoms of burnout among their human service workers. In the educational domain, Tatar and Yahav (1999) were the first to apply a shortened version of the MBI as an instrument; they had students fill out the items on this instrument to report perceived symptoms of burnout among their teachers.
Before the publication of this study, the complete MBI had never been used to assess clients' perceptions on burnout among their human service workers. However, using a specific instrument to reflect the views of both professional and client is not uncommon. For instance, Hendriks, Hofstee, and De Raad (1999) used the Five Factor Personality Inventory (FFPI) as a self-report questionnaire and as a questionnaire to estimate the personality characteristics of others. Furthermore, due to their intensive daily contact with their teachers, students are in a prime position to assess symptoms of teacher burnout.

As student behavior can induce stress, the present study focuses on a relatively unexplored topic, viz. the students' views on teacher burnout related to their own disruptive behavior and the teachers' competence to cope with this kind of behavior.

Tatar and Yahav (1999) used an adapted version of the MBI (14 items), divided into three sections. In their study they asked secondary school pupils (N = 297) to score the items describing potential characteristics of burned out teachers. First of all, their findings show that pupils' perceptions of the occurrence of burnout among their teachers can supply researchers with reliable data. Second, the study stresses the importance of the pupils' views in analyzing burnout among teachers, which will ultimately lead to a better understanding of the role of pupil behavior in the origin of teacher burnout. Third, there are no significant differences between the views of male and female pupils in Tatar and Yahav's study.

Tatar and Yahav (1999) derived their results from a limited number of secondary school pupils with a mean age of 15.8 years who were attending general education. We went one step further, and asked students aged between 16 and 23 from a random sample of classes (17 out of 69) at a Regional Training Center (N = 411 students) to participate in our study. In order to acquire data on teacher burnout from our respondents, we used three questionnaires. First, we used an adapted version of the MBI; second, a questionnaire on student disruptive behavior (PDBS), and third, a questionnaire on the teachers' competence to cope with disruptive student behavior (CDBS).

We concentrated on disruptive behavior for various studies found significant correlations between disruptive student behavior, the teachers' competence to cope with this behavior and burnout among teachers (Blase, 1982; Brouwers & Tomic, 1999, Byrne, 1991). Moreover, in the case at issue, the relationship between teachers and students fits in with the environmental approach to burnout.

In contrast to the respondents in Tatar and Yahav's study, our students all attended vocational training. We also focused on teachers who work closely (grade teachers, i.e. teachers who are mentor and student adviser of a specific group of students) with the students,
so it goes without saying that these "clients" are good judges of their educators. The literature supports our assumption. Pupils and students have sensible views on their classroom environment (Batten, 1988; Hofstein, Gluzman, Ben Zwi, & Samuel, 1980; Levine & Donitsa-Schmidt, 1996; Raviv, Raviv, & Reisel, 1990), on school discipline (Haroun & O'Hanlon, 1997; Scarlett, 1988), and finally on teachers as persons (Tatar, 1998; Jules, & Kutnick, 1997).

Our study on teacher burnout also investigated whether there were age-related and gender-related differences between the students' perceptions of teacher burnout (Haroun & O'Hanlon, 1997) and gender (Jules & Kutnick, 1997; Tatar, 1998).

In sum, the present study examines various issues. First, it examines whether the MBI, the CDBS, and the PDBS can be turned into reliable instruments enabling our student population to report on the psychosocial well-being of their grade teachers. Second, it examines the perceived degree on the three dimensions of burnout based on the students' scores on the adapted MBI-questionnaire. Third, it examines the degree of disruptive student classroom behavior as perceived by the students themselves. Fourth, in line with this, the study aims to measure the perceived grade teachers' competence to cope with disruptive student classroom behavior. Finally, it aims to answer the question whether the students' age or gender are significantly related to (1) the perceived dimensions of burnout among grade teachers, (2) disruptive student classroom behavior as perceived by the students and (3) the perceived grade teachers' competence to cope with disruptive student classroom behavior.

**Method**

**Participants**

We took a random sample consisting of 25% of the classes, i.e. 17 out of 69 (which number indicates that 411 out of 1782 students participated in our study) at a Regional Training Center (RTC) in the southern part of the Netherlands. Students in their late teens and early twenties attend vocational training at an RTC. Our sample was divided into 159 female students (38.7%) and 252 male students (61.3%). Their mean age was 18.3 years (SD = 2.43), ranging from 16 to 23 years of age. As the mean age of all students (N = 1782) was 18.5 (SD = 2.23) there was no significant difference between our sample and the total school population, t(2.191) = 1.52, p = .13. The total number of teachers working with them was 73 (58 male and 15 female teachers).
Instruments

Our respondents were asked to fill out three questionnaires that were all adapted (parts) from existing instruments.

_Burnout._ The Dutch version of the Maslach Burnout Inventory for teachers (MBI-NL-Ed; Schaufeli & Van Horn, 1995) was used to measure burnout. The instrument consists of twenty items, and is divided into three sub-scales: (1) emotional exhaustion (8 items), (2) depersonalization (5 items) and (3) personal accomplishment (7 items). The students could score on a 7-point scale, from "never" to "always". Based on their students' perceptions, teachers will suffer from burnout when the scores on emotional exhaustion and depersonalization are high, and when the scores on personal accomplishment are low. The wording of the items has been adapted in such a way that the students' perceptions could be reported. Examples of items indicating emotional exhaustion are: "At the end of the working day my grade teacher feels empty" and "My grade teacher feels tired when he gets up in the morning, facing a new working-day again". Examples of depersonalization items are: "My grade teacher has the feeling that he treats some students in an impersonal way" and "My grade teacher doesn't really care what will become of his students". Examples of items indicating personal accomplishment are: "When my grade teacher has finished instruction, he looks back on it full of satisfaction" and "My grade teacher has the feeling he achieves many things of great value in this job".

The three-factor structure of the Dutch version of the Maslach Burnout Inventory for teachers has been validated in confirmatory factor analysis (Schaufeli, Daamen, & Van Mierlo, 1994). Cronbach's alpha for emotional exhaustion was .86, for personal accomplishment and depersonalization .72.

_Teacher Competence._ The second questionnaire (Coping with Disruptive Behavior Scale, CDBS; 12 items) consisted of an adapted version of the Self-efficacy Scale for Classroom Management and Discipline from Emmer and Hickman (1991). This instrument was used to measure the perceived teachers' competence to cope with disruptive student classroom behavior. Examples of the CDBS are "When my grade teacher is speaking, he is hardly ever interrupted by the students" and "My grade teacher knows how to restore order when a student disturbs his lesson". Cronbach's alpha was .94 for questionnaire 2.

_Disruptive behavior._ The third questionnaire (Perceived Disruptive Behavior Scale, PDBS; 5 items), measuring the perceived occurrence of disruptive student classroom behavior, consisted of an adapted version of the Order & Organization sub-scale of the Classroom Environment Scale from Moos and Tricket (1974). The students scored the items
on a 6-point scale, from "strongly agree" to "strongly disagree". Examples of the items in PDBS are "Sometimes it is too noisy in my grade teacher's classroom" and "There are quite a few students disrupting my grade teacher's lessons". Cronbach's alpha was .86 for questionnaire 3.

Both questionnaire 2 and 3 had first been translated into Dutch and were later adapted to our purposes. So as not to deviate from the original intentions of the authors of the questionnaires, we asked an independent translator to turn our Dutch translations back into English. It was probably the most reliable way to have our instruments reflect the English meaning as accurately as possible.

**Results**

Table 1 shows the means, the standard deviations and the internal consistencies of the three burnout dimensions of the MBI, the CDBS and the PDBS. Besides the scores of the total sample, the separate scores of male and female students and the correlations between the variables are presented.

The results show that the reliability coefficients of our questionnaires range from .72 to 94 which is sufficient according to Nunnally and Bernstein's criterion (1994).

Table 1.

<table>
<thead>
<tr>
<th>Variables</th>
<th>All Students N = 411</th>
<th>Male Students N = 252</th>
<th>Female Students N = 159</th>
<th>α</th>
<th>M</th>
<th>SD</th>
<th>M</th>
<th>SD</th>
<th>M</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Student Age</td>
<td>18.17</td>
<td>1.22</td>
<td>18.10</td>
<td>1.21</td>
<td>18.30</td>
<td>1.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Emotional Exhaustion</td>
<td>.88</td>
<td>13.37</td>
<td>8.39</td>
<td>14.29*</td>
<td>8.81</td>
<td>11.91</td>
<td>7.48</td>
<td>.06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Depersonalization</td>
<td>.72</td>
<td>7.42</td>
<td>5.19</td>
<td>8.25**</td>
<td>5.29</td>
<td>6.10</td>
<td>4.74</td>
<td>-.13*</td>
<td>.75*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Personal Accomplishment</td>
<td>.83</td>
<td>21.86</td>
<td>7.90</td>
<td>21.40</td>
<td>7.89</td>
<td>22.59</td>
<td>7.88</td>
<td>.03</td>
<td>-.63*</td>
<td>-.59*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Competence Cope With Student Disruptive Behavior</td>
<td>.94</td>
<td>34.44</td>
<td>13.38</td>
<td>33.46</td>
<td>13.78</td>
<td>35.99</td>
<td>12.61</td>
<td>.04</td>
<td>-.65*</td>
<td>-.57*</td>
<td>.67*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Perceived Disruptive Student Behavior</td>
<td>.86</td>
<td>11.08</td>
<td>6.22</td>
<td>10.61</td>
<td>6.02</td>
<td>11.82</td>
<td>6.47</td>
<td>.00</td>
<td>-.43*</td>
<td>-.37*</td>
<td>.54*</td>
<td>.76*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* p < .01, ** p < .001
According to the students' perception the teachers' mean score on emotional exhaustion is 13.37, on depersonalization 7.42, and on personal accomplishment 21.86. Because the current study involved more than one test, we adjusted the alpha level downward to consider chance capitalization (Sankoh, Huque, & Dubey, 1997; Tabachnik & Fidell, 1996).

There is a significant difference between the perceptions of male and female students in respect of emotional exhaustion and depersonalization among their grade teachers. The mean score of male students on symptoms of emotional exhaustion is significantly higher than the mean score of female students: t(409) = 2.82, p < .01. Male students differ significantly from their female counterparts by reporting a higher mean score on depersonalization: t(409) = 4.18, p < .01. There are no differences between male and female students in respect of personal accomplishment: t(409) = 1.48, p > .05.

Questionnaire 2 explored students' perceptions of the teachers' competence to cope with disruptive student behavior, and questionnaire 3 investigated students' perceived occurrence of disruptive student classroom behavior.

According to the students, the teachers' mean score on competence to cope with disruptive student behavior is 34.44, and on the occurrence of perceived disruptive student behavior 11.08.

There is no significant difference between male and female students in respect of the teachers' coping skills: t(409) = 1.92, p > .05. Finally, the results show that female students score significantly higher levels of disruptive student behavior: t(409) = 1.98, p < .05.

Table 2.

<table>
<thead>
<tr>
<th>Student Age</th>
<th>Emotional exhaustion</th>
<th>Depersonalization</th>
<th>Personal accomplishment</th>
<th>Competence to cope with disrupted behavior</th>
<th>Perceived disruptive behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>M</td>
<td>SD</td>
<td>M</td>
<td>SD</td>
<td>M</td>
</tr>
<tr>
<td>16</td>
<td>23</td>
<td>16.2</td>
<td>10.3</td>
<td>9.2</td>
<td>6.1</td>
</tr>
<tr>
<td>17</td>
<td>111</td>
<td>13.5</td>
<td>8.8</td>
<td>8.0</td>
<td>5.6</td>
</tr>
<tr>
<td>18</td>
<td>126</td>
<td>13.7</td>
<td>8.8</td>
<td>7.4</td>
<td>5.2</td>
</tr>
<tr>
<td>19</td>
<td>91</td>
<td>12.3</td>
<td>7.0</td>
<td>6.9</td>
<td>4.9</td>
</tr>
<tr>
<td>20</td>
<td>47</td>
<td>12.6</td>
<td>7.5</td>
<td>6.6</td>
<td>4.1</td>
</tr>
<tr>
<td>21</td>
<td>10</td>
<td>16.4</td>
<td>9.4</td>
<td>6.3</td>
<td>3.4</td>
</tr>
<tr>
<td>Total</td>
<td>411</td>
<td>13.4</td>
<td>8.4</td>
<td>7.4</td>
<td>5.2</td>
</tr>
</tbody>
</table>
Table 2 shows students' perceptions of the incidence of perceived burnout dimensions among their classroom teachers and perceived disruptive behavior of their fellow students. The separate scores of six student categories are presented. We omitted the ages 22 and 23 in the analyses because there were too few students of these ages (2 and 1 respectively). A multivariate analysis of variance was performed in order to assess the effect of age categories on the three perceived burnout dimensions and perceived disruptive student behavior. We obtained a Wilk's Lambda value of .929, with a significance value of .238 suggesting that separate student age categories do not characterize teachers differently in terms of burnout dimensions and disruptive behavior.

A hierarchical regression analysis was carried out in order to examine to what extent the teachers' competence to cope with disruptive student behavior, and perceived disruptive student behavior would explain the teachers' burnout level. In doing so, the variables student gender, teacher gender, and student age were controlled for statistically. With each burnout dimension as the dependent variable, these control variables were first added to the regression equation (step 1), followed by the independent variables, i.e. the competence to cope with disruptive student behavior, and perceived disruptive student behavior (step 2).

Table 3.

| Results of Regression Analysis for the Predicting Variables on Emotional Exhaustion, Depersonalization, and Personal Accomplishment |
|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Predictor Variables                                         | Emotional Exhaustion                                        | Depersonalization                                           | Personal Accomplishment                                     |
| Step 1                                                      | Std. B Error $^2$ $\Delta R^2$                             | Std. B Error $^2$ $\Delta R^2$                             | Std. B Error $^2$ $\Delta R^2$                             |
| Step 2                                                      | .02$^*$                                                     | .06$^{***}$                                                 | .01                                                        |
| Student Gender                                              | -1.03 .66 -.06                                             | -1.20 .43 -.11$^{**}$                                      | .01 .62 .00                                                |
| Teacher Gender                                              | -1.93 .80 -.09$^*$                                         | -1.83 .52 -.14$^{***}$                                     | .92 .74 .05                                                |
| Student Age                                                 | -.15 .26 -.02                                              | -.35 .17 -.08$^*$                                          | .00 .25 .00                                                |
| Step 2                                                      | .42$^{***}$                                                 | .34$^*$                                                    | .45$^{***}$                                                |
| Competence Cope With Student Disruptive Behavior            | -.47 .04 -.75$^{***}$                                      | -.27 .02 -.69$^{***}$                                      | .37 .03 .62$^{***}$                                        |
| Perceived Student Disruptive Behavior                       | .18 .08 .13$^*$                                            | .12 .05 .14$^*$                                            | .00 .07 .08                                                |
| Overall F for Equation                                      | 62.75$^{***}$                                              | 51.40$^{***}$                                              | 67.98$^{***}$                                              |

*p<.05; ** p < .01; *** p < .001p < .001
The results of the hierarchical regression analyses - see Table 3 - show that the variable competence to cope with disruptive student behavior added in step 2 is a significant predictor of the burnout dimensions emotional exhaustion ($\beta = -.75$, $p < .001$), depersonalization ($\beta = -.69$, $p < .001$) and personal accomplishment ($\beta = .62$, $p < .001$).

Perceived disruptive student behavior is significantly related to both emotional exhaustion ($\beta = .13$, $p < .05$) and depersonalization ($\beta = .14$, $p < .05$). The total of the variance explained of the predicting variables in steps 1 and 2 was 44% for emotional exhaustion, 40% for depersonalization and 46% for personal accomplishment.

We also found that emotional exhaustion is significantly related to teacher gender, but not to the age or gender of the responding students. Furthermore, it is an interesting finding that of all the dependent variables depersonalization shows the most significant relationship with the independent variables. This dimension of burnout is, for instance, significantly related to student age.

**Discussion**

This study is different from many other studies on burnout, because the questionnaires used to provide us with information on a specific group of teachers have been completed by their clients, i.e. the students. Moreover, our study is embedded in the social cognitive theory, in particular the self-efficacy theory, which claims to elucidate someone's domain specific behavior (Bandura, 1997). In our case, the teachers' competence to cope with classroom behavior was measured with the questionnaire CDBS which complies with the criteria advised in some studies (Brouwers, 2000; Forsyth & Cary, 1998) in order to obtain accurate self-efficacy scores.

It was our first aim to examine whether the MBI and the two other self-report instruments (CDBS and PDBS) could be adapted to students to report perceived burnout symptoms among their teachers. The reliability of the questionnaires was .72 and higher, a noteworthy result. In respect of the data acquired, it may be concluded that students appear to be a source of valuable information on their teachers and classroom processes.

Second, we also examined the students' perceptions of the level of burnout among their grade teachers, the occurrence of perceived disruptive student behavior, and the students' perceptions of their teachers' competence to cope with this kind of behavior. In comparison
with other studies on teacher burnout, our study not only presents the students' perceptions of their grade teachers, but it is also distinctive in having a large number of respondents reporting about a specific group of teachers working in the same social and organizational setting. The variables that often influence burnout research findings, i.e. type of school, number of students taught (Burke & Greenglass, 1989), and grade level taught (Haroun & O'Hanlon, 1997) were homogeneous in our study, and may have added to the validity of our results.

The present study was conducted among vocational students in their late teens and early twenties at a Regional Training Center, which may offer an explanation for the low levels of burnout symptoms among teachers as perceived by their students in comparison with some other studies that derived their results from self-report questionnaires (Byrne, 1991; Evers, Tomic, & Brouwers, 2001; Evers, Brouwers, & Tomic, 2002).

According to Scarlett (1988) "...the curriculum can be an important determinant of behavior" (p.174). As our respondents attend practical training programs, preparing them for specific jobs, they may be (1) extra motivated during the lessons, which in turn may increase (2) their positive attitude towards education and teachers, factors that positively influence teachers, as well. The educational setting described above may very well explain the relatively low perceived scores on the various dimensions of burnout among the grade teachers.

Third, we did not find any significant age-related differences in the respondents' scores. In the literature, results sometimes do show differences between younger (12-year-old) and older (19-year-old) pupils in respect of e.g. school discipline (Haroun & O'Hanlon, 1997). The older students in Haroun and Hanlon's study have a more balanced judgment on the necessity of school discipline and good student behavior, which is in accordance with the serious and balanced way our respondents approached the questions raised in this study. However, the greater age homogeneity of our students in comparison with the pupils in Haroun and O'Hanlon's study (1997) may explain the absence of significant differences between the younger and older respondents.

Fourth, we examined whether the students' gender played a role in our results. We found significant differences between the reports of male and female students in respect of emotional exhaustion and depersonalization. Male students appeared to more frequently report perceived symptoms of emotional exhaustion and depersonalization. Interestingly, these results coincide with the results of the teachers' self-reports in Burke et al. (1996), indicating that male teachers have significantly higher scores on these two burnout
dimensions. There was no difference between male and female respondents' perceptions of the teachers' level of personal accomplishment.

Female students appear to be more sensitive to classroom-related problems, for they reported significantly more student disruptive behavior. This may be due to the female students' greater expectations of good interpersonal relationships (Jules & Kutnick, 1997).

Fifth, supplementary to Tatar and Yahav (1999), we incorporated the variables disruptive student behavior and the teachers' competence to cope with it in this study. These variables are found to be related to teacher burnout (Brouwers & Tomic, 1998, 1999; Burke et al., 1996; Friedman, 1995; Hock, 1988; Lamude, Scudder, & Furno-Lamude, 1992). The students' reported means on disruptive classroom behavior are significantly related to only depersonalization. However, the grade teachers' competence to cope with disruptive student behavior is significantly related to each dimension of burnout. This is a rather striking finding. According to a recent study on the dimensions of burnout (Van Dierendonck, Schaufeli, & Buunk, 2001), personal accomplishment, which is significantly related to someone's competence (Brouwers & Tomic, 1998, 1999; Evers et al., 2001), may be a decisive factor in the teachers' strategies for coping with job stressors. Van Dierendonck et al. (2001) found that when the level of personal accomplishment had decreased, emotional exhaustion and depersonalization significantly increased. Teachers in our study frequently meet with disruptive student behavior, but because of their perceived competence to cope with it, they score relatively high on personal accomplishment, and relatively low on depersonalization and emotional exhaustion.

This study is one of the few attempts to have students report on perceived symptoms of burnout among their teachers. It can be concluded that the perceived level of burnout among the classroom teachers is rather low. This may be so because the student population at this RTC has left the difficult adolescent years behind, and because of the large minority of female students: both factors are known to contribute to positive teacher student relations (Levine et al., 1996). Positive social relations with students are conducive to a positive classroom climate that appears to be one of the important factors in the prevention of the burnout dimension emotional exhaustion (Byrne, 1994; Miller, 1999). If students report positively about the grade teachers' behavior and about favorable and constructive social interactions with them, it may be concluded that at least two prerequisites for teacher well-being have been met. In connection with this, our results confirmed findings of various authors who found that disruptive student behavior appears to be a significant contributor to
depersonalization, one of the conspicuous dimensions of teacher burnout (Brouwers & Tomic, 1998, 1999; Friedman, 1995; Punch & Tuettemann, 1990; Tatar & Yahav, 1999).

Burnout among teachers can not be denied, but many of the monographs published on measuring the symptoms and preventing its onset lack a firm theoretical basis. With the help of a comprehensive theory such as the self-efficacy theory, burnout researchers would not have to re-invent the theoretical wheel once again; instead they could depart their examinations from a common starting point in their investigations. Furthermore, support should be found for a multifaceted method of measuring burnout symptoms among teachers. According to Farber (2000) there are at least three types of teacher burnout, so it would be advisable to measure burnout among homogeneous groups of teachers working at e.g. one institution or in one subject. The suggestions made above, will make it easier for physicians and psychologists to decide which kind of burnout a teacher is suffering from, and which specific measures can be taken to prevent the onset, the development, or aggravation of burnout symptoms.

Finally, like Batten (1988), we embrace the idea that pupils and students can help clarify and understand the process of teaching. Educating young people is not a unilateral, but an interactional process involving teachers and students. The participants' views of this process, their interests and worries should be given equal attention to in study program and everyday school-life, for education can only thrive in an environment of mutual respect and interests, in an environment that is not troubled by conflicts or harassment.
REFERENCES


Burnout among teachers: Theoretical setting, top-down innovation, and social relations


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