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TEACHERS' RESILIENCE IN POLAND – THE ROLE OF SOCIODEMOGRAPHIC AND PROFESSIONAL FACTORS*

Introduction: Teachers' resilience is the dynamic interaction between personal, social, and physical resources to counteract risk factors in the school context by maximizing protective resources. **Research Aim:** The present study aims to verify whether sociodemographic and professional variables significantly differentiate teachers' levels of resilience.

Method: The study included 752 teachers of different stages of education. The Teachers' Resilience Scale by Platsidou and Danilidou in the Polish adaptation by Boczkowska was used to measure resilience.

Results: The teachers in the sample obtained the highest mean scores in the *Family cohesion* dimension, while the lowest in the *Social competence and peer support* dimension. The analyses showed that sociodemographic variables (gender, age, place of residence and marital status) significantly differentiated the teachers' level of resilience (total score and/or scores on individual subscales). Also, professional variables (workplace, seniority, and professional development level) significantly differentiated teachers' resilience in the studied group.

Conclusions: The results broaden the knowledge of teachers' resilience and they can be used in the design of activities aimed at enhancing teachers' ability to adapt positively in the face of difficult, stressful, or traumatic events.

Keywords: resilience, teachers, sociodemographic factors, teachers' resilience

INTRODUCTION

The teaching profession is one of the most burdensome – the number of daily professional stressors related to the education and upbringing of children and adolescents is a challenge for positive functioning in this profession and maintaining

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a high quality of work and a strong commitment. There are groups of factors that may generate teacher stress: professional mismatch, physical working conditions, overload with the role, and social relations in the workplace (Kwiatkowski, 2022). Teachers' experience of stress may lead to symptoms of burnout expressed in emotional exhaustion, depersonalization, and a reduced sense of personal achievement (Maslach and Leiter, 2008). This, in turn, may contribute to negative effects on teachers' functioning in the physical, mental, family and social spheres (Kocór, 2019), and eventually result in them leaving the profession. The most common reasons for exiting the profession among teachers are considered to be low remuneration, emotional exhaustion, and professional burnout (Michniuk, 2020). Also, specific challenges for teachers emerged due to the COVID-19 pandemic. Significant changes resulting from the need to switch to remote teaching (teachers were not prepared for) contributed to, among others: a decrease in their physical and mental well-being (Ptaszek et al., 2020). Thus, there is a need to look for factors that are important for the harmonious adaptation of teachers in the face of difficulties and stressors in their profession. In this context, the concept of teachers' resilience should be explained.

TEACHERS' RESILIENCE

To understand the essence of teachers' resilience, we need to start from the concept of resilience itself, whose origin lies in the answer to the question: what makes some people, despite experiencing stressful or even traumatic events, able to function positively, sometimes even better than before, while others, faced with the same experiences, give up and are unable to act. Resilience in a broad sense refers to an individual's successful adaptation to difficult or challenging events and is conceptualized and operationalized in various ways in empirical investigations as a feature, process, or a result of this process (Masten, 2001). However, in all these approaches, the common denominator is the perception of resilience in connection with the positive adaptation of individuals, families or social groups that experience adversity or function in risk conditions. Here the interaction between individual (biological or psychological) and social factors is important as it covers both social microsystems such as family or friends and broader systems of various social groups. Although research on the resilience of various social groups has been quite common in recent decades, in the case of teachers it has been quite a neglected area (Gu, 2018). Gu emphasizes that teachers' resilience depends on the broad professional context and role-specific factors because it is closely related to the strength and belief in their professional commitment (2014, 2018; Gu and Day, 2013). Teachers' resilience is most often perceived as a process in which their personal characteristics interact with environmental factors and determine their

reaction and adaptation to the difficulties and challenges related to their profession (Mansfield et al., 2012). In this aspect, teachers' resilience includes the dynamic interaction between personal factors (e.g. perseverance, optimism, motivation), social factors (e.g. relationships with colleagues, interactions with students) and physical factors (e.g. school infrastructure) to counteract risk factors emerging in the school context by maximizing protective factors (Masten, 2014). Despite encountering difficulties or experiencing stress, the individual adapts positively and their sense of well-being is maintained (Howard and Johnson, 2004). The relational sphere plays an important role in this process – supportive personal and professional relationships can strengthen teachers' resilience, which is important for job satisfaction and commitment to work (Sammons et al., 2007). Resilient teachers have a high sense of self-efficacy, competence, and self-confidence, and draw strength from their achievements (Beltman et al., 2011). Current research indicates there is a relationship between resilience and the intention to change, organizational commitment, readiness for change, job satisfaction and commitment (Shin et al., 2012). Researchers concede that resilience can be promoted, nurtured, and strengthened (Cefai, 2004). Due to the constantly increasing rate of resignations from the teaching profession in many countries (Scheopner, 2010), there is a need to find factors that are important for maintaining the quality, motivation and commitment in teachers' work (Day and Gu, 2010). In this respect, teachers' resilience should be viewed as "a dynamic construct influenced by environmental, professional and personal contexts" (Sammons et al., 2007, p. 694). The literature on teachers' resilience is based on both quantitative and qualitative research and is diverse in terms of theoretical foundations, but most studies emphasize the multidimensionality of the phenomenon. Research into teachers' resilience has the potential to formulate practical implications - it can be used in the design of professional development programs for teachers and their employers, as well as for students of teaching courses (Beltman et al., 2011).

RESEARCH PROBLEM AND GOAL

The presented research aimed to verify whether sociodemographic and professional variables significantly differentiate the level of teachers' resilience. The following research problem was posed: do sociodemographic variables (gender, age, place of residence, marital status) and work-related variables (workplace, seniority, and professional development level) differentiate the level of resilience among the teachers in the sample, and if so, what are the differences?

In some analyses, variables such as age, gender, marital status, professional activity, educational attainment and income were not identified as factors influencing resilience (Böell et al., 2016), while other studies indicated that some of these variables

may be important for resilience (Beltman et al., 2011; Estaji and Rahimi, 2014; García, 2020; Polat and İskender, 2018). Since the existing empirical data regarding teachers' resilience is inconsistent, no hypotheses were formulated for the present study.

METHOD AND SAMPLE

The research was conducted in October 2020. All respondents gave informed and voluntary consent to participate in the anonymous study. Teachers were invited to participate in the study via e-mail. Due to the need to maintain the sanitary regime related to the COVID-19 pandemic, the study was conducted using a Google Forms survey, which respondents received access to in the invitation.

Resilience was measured using the Teachers' Resilience Scale (Platsidou and Daniilidou 2018) in the Polish adaptation by Boczkowska (2021). The Polish version of the scale contains 25 items and assesses four dimensions of teachers' resilience: *Social competence and peer support* (SCPS) (8 items, e.g. "I enjoy being with my co-workers"), *Family cohesion* (FC) (6 items, e.g. "My family is cohesive"), *Personal competencies and perseverance* (PCP) (9 items, e.g. "I can adapt to changes") and *The importance of spirituality* (IS) (2 items, e.g. "Sometimes I believe that nothing happens without a reason"). The Cronbach's alpha coefficient for the entire scale in this study was 0.86 and for the individual subscales: SCPS – 0.88, FC – 0.89, PCP – 0.78, IS – 0.67.

The socio-demographic and professional variables for the surveyed teachers were measured by a questionnaire created by the authors containing questions about gender, age, place of residence, marital status, workplace, professional development level, and seniority. Detailed data are presented in Table 1.

DATA ANALYSIS

Two assumptions of normality and homogeneity of variability were confirmed before the analysis to decide whether to use parametric or nonparametric tests. A significance level of p < 0.05 and Kolmogorov–Smirnov statistics were analyzed to determine the distribution of data for investigating differences between the groups. Descriptive statistics (arithmetic mean, standard deviation) were presented for the studied variable of teachers' resilience and its dimensions.

For intergroup comparisons, the Student's *t*-test was used for normally distributed variables and the Kruskall–Wallis ANOVA for unequal groups. Pearson's correlation coefficient was used to check correlations. Multivariate regression was used to check which sociodemographic and professional factors contribute most to explaining teachers' resilience. Calculations were performed using the PS IMA-GO 8 PRO package.

Table 1. Sample characteristics (N = 752)

| Variable | Category | | N | % |
|-------------------------|-------------------|---------|-------|-------|
| | Female | | 670 | 89.10 |
| Gender | Male | | 80 | 10.64 |
| | No data | | 2 | 0.27 |
| | Countryside | | 167 | 22.21 |
| Place of residence | Town | | 257 | 34.18 |
| Place of residence | City | | 326 | 43.35 |
| | No data | | 2 | 0.27 |
| | Single | | 148 | 19.68 |
| Marital status | Married | | 520 | 69.15 |
| Maritar status | Divorced, in sep | aration | 42 | 5.58 |
| | Widowed | | 42 | 5.59 |
| | Pre-school | | 112 | 14.89 |
| Morlenlaca | Primary school | | 469 | 62.37 |
| Workplace | High school | | 170 | 22.61 |
| | No data | | 1 | 0.13 |
| | Junior teacher | | 38 | 5.05 |
| Professional develop- | Contract teacher | • | 157 | 20.88 |
| ment level | Appointed teach | er | 150 | 19.95 |
| | Certified teacher | • | 405 | 53.86 |
| | Min | Max | M | SD |
| Age $(N = 736)$ | 22.00 | 70.00 | 44.91 | 10.15 |
| Seniority ($N = 751$) | 0.01 | 50.00 | 19.50 | 11.32 |

Source: Author's own study.

RESULTS

Table 2 contains descriptive statistics for the resilience of the surveyed teachers. The results indicate that the surveyed teachers obtained the highest average scores in the *Family Cohesion* dimension and the lowest in the *Social competence and peer support* dimension.

Table 2. Descriptive statistics for the resilience variable (N = 752)

| Category | M | SD |
|--|------|------|
| Social competence and peer support | 3.59 | 0.62 |
| Family cohesion | 4.10 | 0.62 |
| Personal competencies and perseverance | 3.73 | 0.49 |
| Importance of spirituality | 3.73 | 0.90 |
| Teacher resilience – total score | 3.77 | 0.39 |

Note: Responses were given on a 5-point Likert scale

Source: Author's own study.

The obtained scores were compared with the sten norms developed for the Teachers' Resilience Scale by Boczkowska (2021). Scores in the 5–6 sten are treated as average, 1–4 as low, and 7–10 as high (Brzeziński, 2005). The largest group of the surveyed teachers obtained an average resilience score (41.22%), followed by a low score (32.05%) and a high score (26.73%).

The following part of the presented study analyzes the role of sociodemographic and profession-related variables for resilience among the surveyed teachers.

Resilience and gender

The obtained data were analyzed to check whether gender differentiates the resilience of the surveyed teachers in terms of the total score and its individual dimensions (Table 3).

Table 3. Resilience and gender of the surveyed teachers – Student's t-test (N = 752)

| Category | Gender | N | M | SD | t | p |
|-----------------------|--------|-----|------|------|-------|--------|
| Teacher resilience - | Female | 670 | 3.77 | 0.39 | -0.55 | 0.580 |
| total score | Male | 80 | 3.79 | 0.41 | -0.55 | 0.360 |
| Social competence | Female | 670 | 3.61 | 0.62 | 1.62 | 0.103 |
| and peer support | Male | 80 | 3.49 | 0.55 | 1.63 | 0.103 |
| F 1 1 : | Female | 670 | 4.10 | 0.62 | -0.18 | 0.858 |
| Family cohesion | Male | 80 | 4.11 | 0.64 | -0.18 | 0.838 |
| Personal competencies | Female | 670 | 3.72 | 0.49 | 2.41 | 0.016* |
| and perseverance | Male | 80 | 3.86 | 0.50 | -2.41 | 0.016 |
| Importance of spiri- | Female | 670 | 3.64 | 0.88 | 1 20 | 0.229 |
| tuality | Male | 80 | 3.77 | 1.04 | -1.20 | 0.229 |

^{*}p < 0.05

Source: Author's own study.

The obtained results suggest that gender significantly differentiates one of the dimensions of teachers' resilience: *Personal competencies and perseverance*. Men obtained a significantly higher average score in this dimension than women. It can therefore be assumed that the surveyed male teachers are better able to adapt to the changes they experience and are more willing to take the initiative in the problem-solving process than female teachers. This group of respondents also has a stronger belief that they have the skills necessary to deal with emotions described as unpleasant.

Resilience and age

The relationship between the resilience of the surveyed teachers and their age was examined. The results of the analysis are presented in Table 4.

Table 4. Resilience and age of the surveyed teachers – Pearson correlation coefficient (N = 752)

| Category | Age |
|--|--------|
| Resilience – total score | 0.15** |
| Social competence and peer support | 0.09* |
| Family cohesion | 0.11** |
| Personal competencies and perseverance | 0.15** |
| Importance of spirituality | -0.02 |

p < 0.05; **p < 0.01

Source: Author's own study.

Data showed a positive correlation between resilience (total score) and its three dimensions: *Social competence and peer support, Family cohesion*, and *Personal competencies and perseverance*, and the age of the surveyed teachers. The strength of these relationships was weak. The increase in the age variable was accompanied by an increase in resilience: the older the surveyed teachers were, the higher the level of their resilience and its selected dimensions. Therefore, over time, the surveyed teachers' ability to cope and positively adapt to everyday school reality and the challenges associated with it strengthened.

Resilience and place of residence

The place of residence of the surveyed teachers was analyzed to see if it statistically significantly differentiated levels of their resilience. Due to the unequal size of the groups, Kruskall–Wallis one-way ANOVA was performed. Detailed data are presented in Table 5.

Table 5. Resilience and place of residence of the surveyed teachers – Kruskall–Wallis ANOVA (N = 750)

| Category | Place of residence | N | M | SD | p |
|------------------------------------|--------------------|-----|------|------|--------|
| | countryside | 167 | 3.83 | 0.39 | |
| Resilience – total score | town | 257 | 3.72 | 0.39 | 0.020* |
| | city | 326 | 3.78 | 0.39 | |
| | countryside | 167 | 3.65 | 0.61 | |
| Social competence and peer support | town | 257 | 3.51 | 0.62 | 0.021* |
| | city | 326 | 3.63 | 0.62 | |
| | countryside | 167 | 4.21 | 0.58 | |
| Family cohesion | town | 257 | 4.08 | 0.61 | 0.083 |
| | city | 326 | 4.07 | 0.65 | |
| Personal competencies and perseve- | countryside | 167 | 3.75 | 0.48 | |
| | town | 257 | 3.70 | 0.50 | 0.630 |
| rance | city | 326 | 3.75 | 0.49 | |
| | countryside | 167 | 3.77 | 0.87 | |
| Importance of spirituality | town | 257 | 3.61 | 0.88 | 0.150 |
| | city | 326 | 3.65 | 0.93 | |

p < 0.05

Source: Author's own study.

The performed analyses showed that the place of residence of the surveyed teachers significantly differentiated their level of resilience (total score) (p < 0.05) and one of the dimensions of resilience: *Social competence and peer support* (p < 0.05). To determine the nature of the obtained differences, pairwise comparisons were performed (Table 6).

Table 6. Resilience and place of residence of the surveyed teachers – pairwise comparisons (N = 750)

| Resilience | Category | Test stati- stics | Standard error | Standardized test statistics | Signifi- cance | Corrected significance |
|------------------------------------|-----------------------|----------------------|-------------------|------------------------------|-------------------|------------------------|
| | Town – City | -23.00 | 18.06 | -1.27 | 0.20 | 0.61 |
| Total score | Town – Countryside | 59.39 | 21.52 | 2.76 | 0.01 | 0.02* |
| | City – Countryside | 36.39 | 20.60 | 1.77 | 0.08 | 0.23 |
| | Town - City | -39.19 | 18.04 | -2.17 | 0.03 | 0.09 |
| Social competence and peer support | Town – Countryside | 55.10 | 21.49 | 2.56 | 0.01 | 0.03* |
| | City – Countryside | 15.91 | 20.57 | 0.77 | 0.44 | 1.00 |

p < 0.05

Source: Author's own study.

Place of residence was found to differentiate the level of resilience – the total score and the dimension of *Social competence and peer support*, but these differences only concerned teachers living in towns and the countryside. The surveyed teachers who declared living in the countryside rated their level of resilience, their social competence and the support they received from colleagues significantly higher than teachers living in towns. This means that when faced with stressful or traumatic events, these respondents adapted to them better and engaged in the process of proactive coping to a greater extent than teachers from towns. The observed differences may also indicate that the surveyed teachers from rural areas derived greater satisfaction from being with their colleagues, it was easier for them to make friends with them, and in difficult situations, they could count on their support more often than teachers from towns.

Resilience and marital status

To determine whether marital status (not being in a relationship/being in a relationship) is a variable that statistically significantly differentiates the level of resilience of the surveyed teachers, the Student's *t*-test was used for two independent groups (Table 7).

| Category | Marital status* | N | M | SD | t | p | |
|----------------------------|-----------------------|-----|------|------|-------|---------|--|
| Desilience total seems | Not in a relationship | 232 | 3.70 | 0.40 | 2.50 | < 0.001 | |
| Resilience – total score | In a relationship | 520 | 3.80 | 0.39 | -3.50 | < 0.001 | |
| Social competence and | Not in a relationship | 232 | 3.55 | 0.62 | 1 22 | 0.190 | |
| peer support | In a relationship | 520 | 3.61 | 0.62 | -1.32 | 0.190 | |
| Family solvesion | Not in a relationship | 232 | 3.90 | 0.72 | -6.05 | < 0.001 | |
| Family cohesion | In a relationship | 520 | 4.19 | 0.55 | -6.03 | < 0.001 | |
| Personal competencies | Not in a relationship | 232 | 3.70 | 0.50 | -1.24 | 0.217 | |
| and perseverance | In a relationship | 520 | 3.75 | 0.49 | -1.24 | 0.217 | |
| Importance of spirituality | Not in a relationship | 232 | 3.65 | 0.90 | 0.15 | 0.001 | |
| | In a relationship | 520 | 3.66 | 0.90 | -0.15 | 0.881 | |

Table 7. Resilience and marital status of the surveyed teachers – Student's t-test (N = 752)

Source: Author's own study.

The conducted analyses showed that marital status differentiated the resilience of the surveyed teachers, with statistically significant differences noted in the total score (p < 0.001) and in the *Family Cohesion* dimension (p < 0.001). The respondents who were in a relationship (formal or informal) obtained significantly higher average scores in total resilience and its dimension of *Family Cohesion*, than the surveyed teachers who were not in a relationship (single, separated, divorced, and widowed). Teachers in a relationship rated their ability to positively adapt in the face of stressful events higher than their peers who were not in a relationship and identified more strongly with the belief that family cohesion, loyalty, and spending free time together are important elements of their coping with stressful stimuli.

Resilience and workplace

The data was analyzed to check whether the workplace (kindergarten, primary school, secondary school) differentiated the level of resilience among the respondents (Table 8).

The conducted analyses showed that the workplace statistically significantly differentiated the resilience of the surveyed teachers, but only in the dimension of *Social competence and peer support* (p < 0.001). To determine the nature of these differences, pairwise comparisons were performed (Table 9).

^{*}not in a relationship (single, separated, divorced, widowed); in a relationship (married, in an informal relationship)

| Table 8. | |
|---|---|
| Resilience and workplace of the surveyed teachers – Kruskall–Wallis ANOVA ($N=751$ |) |

| Category | Workplace | N | M | SD | Р |
|---------------------------------------|------------------|-----|------|------|--------|
| | kindergarten | 112 | 3.80 | 0.44 | |
| Resilience – total score | primary school | 469 | 3.77 | 0.38 | 0.584 |
| | secondary school | 170 | 3.75 | 0.39 | |
| | kindergarten | 112 | 3.74 | 0.64 | |
| Social competence and peer support | primary school | 469 | 3.59 | 0.61 | 0.008* |
| | secondary school | 170 | 3.51 | 0.61 | |
| | kindergarten | 112 | 4.05 | 0.70 | |
| Family cohesion | primary school | 469 | 4.12 | 0.60 | 0.832 |
| | secondary school | 170 | 4.10 | 0.62 | |
| | kindergarten | 112 | 3.71 | 0.57 | |
| Personal competences and perseverance | primary school | 469 | 3.72 | 0.47 | 0.491 |
| | secondary school | 170 | 3.77 | 0.48 | |
| | kindergarten | 112 | 3.70 | 0.79 | |
| Importance of spirituality | primary school | 469 | 3.69 | 0.90 | 0.147 |
| | secondary school | 170 | 3.54 | 0.95 | |

p < 0.001

Source: Author's own study.

Table 9. Resilience and workplace of the surveyed teachers – pairwise comparisons (N = 750)

| Resilience | Category | Test sta- tistics | Standard error | Standardized test statistics | Signifi- cance | Corrected significance |
|------------------------------------|------------------------------------|----------------------|-------------------|------------------------------|-------------------|------------------------|
| C • 1 | Secondary school – primary school | 32.87 | 19.38 | 1.70 | 0.09 | 0.27 |
| Social competence and peer support | secondary school – kindergarten | 82.04 | 26.35 | 3.11 | 0.00 | 0.01 |
| | primary school – kindergarten | 49.17 | 22.77 | 2.16 | 0.03 | 0.09 |

Source: Author's own study.

The surveyed teachers working in kindergarten obtained significantly higher average scores in the dimension of *Social competence and peer support* than the surveyed teachers working in primary schools (3.74 vs 3.59) and secondary schools (3.74 vs 3.51). This suggests that this group is characterized by higher satisfaction with the nature of the relationships they have with their co-workers and in difficult situations they can count on their support to a greater extent than the other respondents.

Resilience and seniority

The relationship between work experience and the resilience of the surveyed teachers was analyzed using Pearson's correlation coefficient (Table 10).

Table 10. Resilience and seniority of the surveyed teachers – Pearson correlation coefficient (N = 752)

| Category | Seniority |
|--|-----------|
| Resilience – total score | 0.13** |
| Social competence and peer support | 0.09* |
| Family cohesion | 0.09* |
| Personal competencies and perseverance | 0.12* |
| Importance of spirituality | -0.05 |

p < 0.05; p < 0.01

Source: Author's own study.

The research results showed there was a positive correlation between resilience and the work experience of the surveyed teachers in the total score (p < 0.001) and three of the four dimensions of resilience: *Social competence and peer support* (p < 0.01), *Family cohesion* (p < 0.01), and *Personal competencies and perseverance* (p < 0.01). An increase in seniority was accompanied by an increase in resilience in this group of respondents. This suggests that as the surveyed teachers gain professional experience, they strengthen their adaptive potential in the face of difficult, stressful or traumatic events. This regularity occurs in the area of resilience related to the social and family functioning of the respondents, as well as their beliefs about their competencies.

Resilience and level of professional development

The Student's *t*-test was used to analyze if the level of professional development among the surveyed teachers, before certification (junior, contract, and appointed teachers) and after being certified, significantly differentiates their resilience (Table 11).

The level of professional development is a variable differentiating the overall resilience result (p < 0.05) and its dimension: *Personal competencies and perseverance* (p < 0.05). The surveyed certified teachers obtained significantly higher average scores in terms of resilience than the respondents before certification (94.90 vs. 93.54). This means that this group of respondents demonstrates stronger adaptability in the face of difficulties and adversities than junior, contract, and appointed teachers. At the same time, the surveyed certified teachers have a stronger belief than their other colleagues in their individual competencies related to the ability to adapt to changes, act under time pressure and cope with unpleasant emotions. These teachers, experiencing failures, are less likely to become discouraged than their colleagues who are not certified.

Category Teacher N M SD 3.74 before certification 345 0.39 Resilience - total score -1.890.059*certified 3.80 0.40 405 before certification 345 3.57 0.63 Social competence and peer support -1.290.198 certified 405 3.62 0.60 before certification 345 4.07 0.65 Family cohesion -1.360.174 certified 405 4.13 0.60 Personal competencies and persevebefore certification 3.69 0.51 345 -2.150.032*rance certified 3.77 405 0.47 before certification 345 3.70 0.87 Importance of spirituality 1.26 0.208

405

3.62

0.92

certified

Table 11. Resilience and professional development level of the surveyed teachers – Student's t-test (N = 750)

Note: Before certification (junior, contract, appointed)

Source: Author's own study.

To determine which sociodemographic and professional factors of the surveyed teachers best explain their level of resilience, stepwise regression was used. Variables that correlate with total resilience were introduced into the model: age, marital status (being in a relationship/not in a relationship) and seniority. The obtained model including two explanatory variables (age, and marital status) turned out to be statistically significant (F(4;734) = 11.95, p < 0.001). It explains 18% of the variance of the total resilience variable, with the greatest contribution to explaining the dependent variable of the age of the respondents. Detailed data are included in Table 12.

Table 12. Stepwise regression analysis: teachers' resilience (explained variable), age and marital status of respondents (explanatory variables)

| Category | | tandardized oefficients | | | semi-partial | |
|----------------|-------|----------------------------|------|--------------|--------------|------|
| Gillegory | В | standard error | β | correlations | | |
| constant | 84.87 | 1.95 | - | 43.57 | < 0.001 | - |
| Age | 0.13 | 0.04 | 0.14 | 3.74 | < 0.001 | 0.14 |
| Marital status | 1.99 | 0.78 | 0.09 | 2.55 | 0.011 | 0.09 |

Source: Author's own study.

^{*}p < 0.05

DISCUSSION

The presented research aimed to determine the role of selected sociodemographic and professional factors for teachers' resilience. So far, to the best of the author's knowledge, the role of factors such as age, gender, marital status, work experience and level of professional development for teachers' resilience has not been explored in Polish literature.

The obtained data indicates that men demonstrate more positive beliefs about their own competencies and perseverance. The perspective of analyzing resilience in terms of gender seems to be important primarily since the teaching profession, especially at the earliest stages, is particularly hyper-feminized (Corrall, 2016). Although some studies have shown that gender does not differentiate resilience, some reports suggest that gender may be important for resilience (Estaji and Rahimi, 2014). This is consistent with the results obtained by Polat and İskender (2018) in a study on resilience with 581 teachers (Friborg et al., 2005). Similarly to the present study, no gender differences were confirmed in terms of the total resilience score, but in the perception of the "self" subscale, men had statistically significantly higher averages than women. Negative self-beliefs may be a risk factor for teachers' resilience (Kitching et al., 2009). However, research in this area is not clear (see Beltman et al., 2011), which may call for future research exploration in this area.

Teachers living in the countryside demonstrate higher social competence and support from colleagues living in the city, which may mean that they feel more joy in being with their colleagues and have stronger bonds with them – thanks to a solid network of peer relationships, they have stronger protective resources. Day and Gu (2010) indicated that teachers consider relationships at work to be the most important factor in helping them maintain resilience. Research conducted among teachers often emphasizes that inappropriate relationships within the teaching staff constitute a significant burden and cause stress (Pyżalski, 2010). In terms of resilience, data obtained by Brunetti show that co-workers can be a valuable source of support, hope and inspiration, especially in the face of difficult events (2006).

Teachers in relationships (formal and informal) present a higher level of resilience and family cohesion, which is consistent with previous analyzes (García, 2020) indicating that teachers who are married or live with a partner show a much higher level of resilience than those who are single. Social support, especially from colleagues and family, is an important protective factor for resilience (Sęk and Cieślak, 2004; Walsh, 2007). This finding is not consistent with previous research, which did not confirm the relationship between marital status and resilience (Stavraki and Karagianni, 2020).

Teachers working in kindergarten obtained higher results in terms of social competence than teachers working in other stages of education. Most research

on resilience focuses on individual characteristics, but the broader context should be taken into account - including the teacher's workplace. Resilience can be developed by providing support in the workplace (King et al., 2016). Strong and caring leadership is particularly important, as it can be a source of personal support for teachers in difficult situations (Howard and Johnson, 2004), but relationships with mentors can be equally valuable, especially in the first stages of a professional career (Olsen and Anderson, 2007). Seniority is important for resilience - the more work experience, the greater the intensity of this variable, which is also related to another result showing that certified teachers have a stronger belief in their own competencies and perseverance than teachers who are not certified. In fact, an increase in age and work experience is associated with greater professional experience, which in turn favors the development of personal abilities and skills for coping with challenging and stressful situations. As teachers progress through subsequent levels of professional development, their sense of self-efficacy increases, which may contribute to learning and using various coping strategies that can facilitate their adaptation and provide them with the ability to act effectively and more resiliently in such situations (Beltman et al., 2011).

To sum up, the role of sociodemographic factors in experiencing resilience is not entirely clear, and research results from various authors are ambiguous or even contradictory. Therefore, it is important to conduct further research into teachers' resilience. Increasing rates of teachers leaving the profession suggest the need to seek and strengthen protective factors in this professional group. Empirical evidence suggests that resilience is a psychological factor that influences teachers' decisions to leave the profession: teachers with lower levels of resilience show stronger intentions to leave (Arnup and Bowles, 2016; Beltman et al., 2011).

CONCLUSIONS

From the perspective of positive psychology, this research helps to determine how certain groups of teachers can adapt positively in the face of difficulties and adversities. This will help in designing practical intervention programs aimed at supporting teachers' positive results: motivation, quality of work, and commitment to it. Teacher education programs should encompass protective and risk factors for teachers' resilience. Junior teachers, in particular, should be provided with extensive support to help them pursue a positive career path. Such interventions should include higher-level structural action to tailor school-wide demands to the capabilities of each teacher and those most at risk of stress.

LIMITATIONS OF THE STUDY

The conducted research was cross-sectional. It is extremely important to conduct longitudinal research that would deepen our understanding of dynamic resilience processes at various levels of analysis – related to individual experiences and the social determinants of resilience.

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RESILIENCE NAUCZYCIELI W POLSCE – ROLA CZYNNIKÓW SOCJODEMOGRAFICZNYCH I ZAWODOWYCH

Wprowadzenie: *Resilience* nauczycieli to dynamiczna interakcja pomiędzy zasobami osobistymi, społecznymi i fizycznymi w celu przeciwdziałania czynnikom ryzyka pojawiającym się w kontekście szkolnym poprzez maksymalizację zasobów ochronnych.

Cel badań: Celem niniejszych badań jest zweryfikowanie czy zmienne socjodemograficzne i zawodowe istotnie różnicują poziom *resilience* nauczycieli.

Metoda badań: Badaniem objęto 752 nauczycieli różnych etapów edukacji. Do pomiaru *resilience* wykorzystano Skalę Resilience Nauczycieli (*Teachers' Resilience Scale*) autorstwa M. Platsidou i A. Danilidou w polskiej adaptacji M. Boczkowskiej.

Wyniki: Badani nauczyciele odnotowali najwyższe średnie wyniki w zakresie czynnika *Spójność rodziny*, natomiast najniższe w zakresie czynnika *Kompetencje społeczne i wsparcie współpracowników*. Z przeprowadzonych analiz wynika, że zmienne socjodemograficzne (płeć, wiek, miejsce zamieszkania i stan cywilny) istotnie różnicują poziom *resilience* badanych (wynik ogólny i/lub wyniki w poszczególnych podskalach). Również zmienne zawodowe (miejsce pracy, staż pracy, poziom awansu zawodowego) stanowią czynniki istotnie różnicujące *resilience* badanych nauczycieli.

Wnioski: Uzyskane wyniki poszerzają wiedzę na temat koncepcji *resilience* w grupie nauczycieli i mogą zostać uwzględnione w projektowaniu działań mających na celu wzmacnianie ich zdolności do pozytywnej adaptacji w obliczu doświadczania trudnych, stresujących czy traumatycznych zdarzeń.

Słowa kluczowe: resilience, nauczyciele, czynniki socjodemograficzne, resilience nauczycieli