Resiliency is defined as a relatively permanent personality trait, which may be assigned to the category of health resources. The aim of this study was to determine conditions in which resiliency poses a significant health resource (moderation), thereby broadening knowledge of the specifics of the relationship between resiliency and subjective health assessment.

Participants and Procedure
The study included 142 individuals. In order to examine the level of resiliency, the Assessment Resiliency Scale (SPP-25) by N. Ogińska-Bulik and Z. Juczyński was used. Participants evaluated subjective health state by means of an analogue-visual scale. Additionally, in the research the following moderating variables were controlled: sex, objective health status, having a partner, professional activity and age. These data were obtained by personal survey.

Results
The results confirmed the relationship between resiliency and subjective health assessment. Multiple regression analysis revealed that sex, having a partner and professional activity are significant moderators of associations between level of resiliency and subjective health evaluation. However, statistically significant interaction effects for health status and age as a moderator were not observed.

Conclusions
Resiliency is associated with subjective health assessment among adults, and selected socio-demographic features (such as sex, having a partner, professional activity) moderate this relationship. This confirms the significant role of resiliency as a health resource and a reason to emphasize the benefits of enhancing the potential of individuals for their psychophysical wellbeing. However, the research requires replication in a more homogeneous sample.

Key words
resiliency; health assessment; psychosocial variables

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Resiliency and subjective health assessment. Moderating role of selected psychosocial variables

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BACKGROUND

This study is based on the salutogenic approach and is discussed in the context of positive psychology (e.g. Antonovsky, 1987; Seligman, 2002; Seligman & Csikszentmihalyi, 2000). The fundamental goal of positive psychology is to catalyse and change the focus of psychologists from elimination of pathology to searching for ways of building positive qualities, based on the subjective perception of reality (Seligman & Csikszentmihalyi, 2000). Positive psychology tries to show how, why and under what conditions positive emotions, individual attributes or institutions enable people to flourish (Seligman, Steen, Park, & Peterson, 2005). It focuses on describing the results of the potential an individual may have (e.g. better physical health), and not on the ways of forming them (Seligman, 2002). One such quality is mental resiliency, which is the subject of this article (e.g. Block & Kremen, 1996; Borys, 2010; Nadolska & Sęk, 2007; Oginski-Bulik, 2011). Resiliency seen as a personal resource of an individual has recently become a frequent topic of studies. Antonovsky (1987) describes resources as all source of qualities both personal and environmental, emphasising that they play a significant role in coping mechanisms. A situation where one needs such mechanisms is without doubt chronic illness.

RESILIENCY AS A HEALTH RESOURCE

Resiliency is defined as a set of personality qualities or relatively permanent personal resource that enables flexible adjusting to everyday challenges (Kaczmarek, Sęk, & Ziarko, 2011; Nadolska & Sęk, 2007; Oginski-Bulik, 2011; Oginska-Bulik & Juczyński, 2008). Oginska-Bulik and Juczyński (2008) opt for such understanding of resiliency including cognitive, emotional as well as behavioural components.

Furthermore, resilience is seen as a process that helps effective adaptation to stressful situations as well as coping with unfortunate events (Borucka & Ostaszewski, 2008; Hall, Reich, & Zautra, 2010; Harvey & Delfabbro, 2004; Kaczmarek et al., 2011; Masten, 2001; Oginska-Bulik, 2011; Oginska-Bulik & Juczyński, 2008). It is also treated as an effect of adapting to difficult and constantly changing life conditions (Butcher-Winfree, 2009; Oginska-Bulik & Juczyński, 2011) or as a source of motivation (Richardson, 2002).

The term resiliency reflects the constant belief that one can successfully cope with stress. It is a disposition towards being able to interpret oneself, one’s social surroundings and future in a way that ensures individual adequate functioning in various areas of life including work, interpersonal relations as well as physical and mental health (Charney, 2004; Klohnen, 1996; Mak, Ng, & Wong, 2011; Wells, 2009).

Resiliency is a phenomenon occurring more often than it was initially expected (Bonanno, 2004; Masten, 2001). It plays a significant role in the process of overcoming both traumatic experiences as well as coping with everyday challenges in life (Block & Kremen, 1996; Kaczmarek et al., 2011; Kim & Yoo, 2010; Montpetit, Bergeman, Deboeck, Tiberio, & Boker, 2010; Oginska-Bulik, 2011; Perfect & Jaramillo, 2012; Steward & Yuen, 2011). It facilitates recovery among the somatically ill (Steward & Yuen, 2011) and it is connected with improved health, both physical and mental (Block & Kremen, 1996; Hall et al., 2010; Mak et al., 2011; Perfect & Jaramillo, 2012; Soltys, 2013).

Resiliency is therefore considered as an important resource in the process of dealing with difficulties connected with chronic illness. Resilient individuals may perceive illness as a challenge and perform a positive re-evaluation of the situation in which they have to deal with an illness (Kaczmarek et al., 2011; Mak et al., 2011; Nadolska & Sęk, 2007; Oginska-Bulik, 2011; Oginska-Bulik & Juczyński, 2008). With reference to this fact, people may evaluate their state of health more optimistically (e.g. Kowalik, 2001). As shown by Oginska-Bulik (2011) the ability to deal with and tolerate negative emotions as one of the subdimensions of resiliency is a crucial factor enabling patients suffering from breast cancer to adapt to illness. Furthermore, mental resiliency may, through strategies for coping with stress (e.g. positive belief concerning recovery, humour, planning or acceptance) increase the satisfaction of life as well as reducing the feeling of hopelessness and helplessness in various groups of patients (cardiological, with diabetes or rheumatoid arthritis) (Kaczmarek et al., 2011). As a result, the positive affect that directly influences the immune system may have a positive impact on one’s health. The condition of the immune system in turn may determine affect and indirectly the ability to use psychological and social resources, as well as motivation to health-building behaviours (Salovey et al., 2000). In fact, research results show that wildly optimistic beliefs about the future may protect against development of the illness. Optimistic patients are more eager to benefit from social support or to cultivate health-improving habits (Taylor, Kemeny, Reed, Bower, & Gruenewald, 2000). Another study, on the other hand, showed that health state does not differentiate women on account of their level of resiliency (Soltys, 2013). It would suggest that the objective health state plays a secondary role, while the way we perceive our health depends mostly on our resources (e.g. Kowalik, 2001; Ryff & Sing-
er, 2002). Results concerning the association between resiliency and subjective as well as objective health state are not conclusive. Therefore extended research on the relation between mental and physical health seems to be necessary (e.g. Ryff & Singer, 2002).

MODIFYING FACTORS OF THE ASSOCIATIONS BETWEEN RESILIENCY AND THE HEALTH ASSESSMENT AND THE HEALTH STATE

In most of the research publicized so far, the demographic variables are controlled and the differences between groups in this matter are reduced as much as possible. Much less common is considering socio-demographic variables as important factors that modify relations between the variables. That is why we decided to determine the role of particular psychosocial variables in forming the relation between resiliency and subjective health assessment.

Research results concerning differences between the way of forming resiliency among men and women are not conclusive (Block & Kremen, 1996; Chuang, Lamb, & Hwang, 2006; Manicavasagar, 2008; Perfect & Jaramillo, 2012). According to the results of research conducted by Block and Kremen (1996) young resilient women show lower ego control and a higher sense of autonomy. Men show a tendency to intensified ego-control and establishing friendly relationships. It proves that the way of manifesting resiliency differs in these groups. Nonetheless, the participants in both groups did not fall into stereotypical gender roles. On the other hand, according to Manicavasagar (2008) resiliency among girls is formed by building friendly relationships and in the case of boys by solving problems. Resiliency seems to be more stable in the time of adolescence among men, but girls show a higher level of resiliency than boys in this period, which additionally increases with age (Chuang et al., 2006). In research conducted by Perfect and Jaramillo (2012) there was no statistically significant correlation between sex and resiliency.

There is also little coverage about the relations between marital status and resiliency (Soltys, 2013; Wade, Hart, Wade, Bajaj, & Price, 2013; Wells, 2009). Part of the research shows a lack of correlation between marital status and the level of resiliency (Soltys, 2013; Wells, 2009), while other research suggests that widows are characterized by higher resiliency than divorcees, married women as well as those in separation. Although in this research a direct measurement of resiliency has not been made, the level of resiliency was estimated based on emotionality and a questionnaire for measuring pain (Wade et al., 2013).

So far rare studies show a lack of associations between resiliency, employment and income, whereas the relationship between being employed and health assessment is more profound. Numerous studies have confirmed that employed individuals enjoy better health and more quickly return to a condition typical for them after illness (Bartley, Sacker, & Clarke, 2004; Wells, 2009; Soltys 2013).

Moreover, research conducted by Oginski-Bulik and Juczyński (2008, 2011) showed that older people are characterised by a higher level of resiliency in all aspects of resiliency apart from openness to new experiences and sense of humour. Openness to new experience and sense of humour as well as tolerance of failures and treating life as a challenge correlate positively with the subjective assessment of health (Soltys, 2013). Some of the results show, however, that there is no correlation between age and resiliency (Wells, 2009).

The aim of this study was to determine the conditions (role of selected psychosocial variables) in which resiliency is a significant health resource (moderation), thereby broadening knowledge on specifics of the relation between resiliency seen as a personality trait and a subjective health assessment.

Moderation should be understood as interaction between a particular variable (called a "moderator") and an independent variable. A moderator influences therefore the way the independent variable interacts with the dependent variable. Interaction of a predictor and a dichotomous moderator is based on the principle that the connection between the independent and dependent variable takes a different sign (+/-) and/or direction in the subgroups depending on the character of the moderator. In other words, moderation enables us to determine the specifics of an occurring relation (Bedyńska, 2012).

PARTICIPANTS AND PROCEDURE

In the study there participated 142 individuals aged 18-78 (M = 38.65, SD = 13.60). We examined 76 men and 66 women. Men significantly differed from women regarding average age (t = −3.72, df = 140, p < .001). Average age in the male group was 34.86 (SD = 10.96), whereas in the female group it was 43.02 (SD = 15.05). Fifty-nine participants were chronically ill, while 83 were in good health.

Chronically ill participants significantly differed from those remained healthy regarding their age (z = −5.80, p < .001). Healthy individuals turned out to be significantly younger (M = 32.60, SD = 8.63) than the chronically ill (M = 47.15, SD = 14.79).

Detailed data regarding types of chronic diseases from which the participants suffered are presented in Figure 1.

A group of 109 participants were employed, whereas 31 remained unemployed. Two participants did not state their professional activity. Regarding personal life, 93 people reported having a partner (83 people were married, 10 people had partners but
A series of analyses using Pearson’s $\chi^2$ test showed that among healthy and chronically ill participants, there is a statistically significant difference in distribution regarding such factors as sex ($\chi^2 = 32.34$, $p < .001$), having a partner ($\chi^2 = 4.08$, $p = .043$) and professional activity ($\chi^2 = 22.22$, $p = .001$). The group of healthy individuals consisted mostly of men ($n = 71$), while most persons in the group of chronically ill were women ($n = 34$). Additionally, most of the healthy participants had a partner ($n = 60$), whereas among the chronically ill 26 were single and 33 respondents were married or in a non-marital relationship. As for employment, in the group of healthy persons, 7 of them were unemployed, whereas in the group with chronic illness 24 participants were not professionally active.

In this study resiliency was measured by Ogińska-Bulik and Juczyński’s (2008) the Assessment Resiliency Scale. It consists of 25 statements to which the participants take a stance using a 5-point Likert scale. Cronbach’s $\alpha$ reliability coefficient for the general result obtained by the authors of the scale was .89, whereas for individual factors it varied from .67 to .75. Test-retest stability measured after 4 weeks was .87.

Subjective health assessment was measured by the analogue-visual scale (thermometer). The respondents were asked to mark with a line of 100 mm to what extent they feel healthy, where the start of the line represented “I feel completely ill” and the end represented “I feel fully healthy”.

The researchers gained information on age, sex, marital status, education, professional activity, health state and the type and duration of chronic disease by using a personal survey.

The statistical analysis was conducted with STATISTICA version 10. Descriptive statistics, Pearson’s $r$ correlation, multiple regression analyses and difference tests were used.

The following research questions were posed:
1. Is there an association between resiliency and the subjective health assessment?
2. Does sex moderate the relationship between resiliency and the subjective health assessment?
3. Does health state (disease/lack of disease) moderate the relationship between resiliency and the subjective health assessment?
4. Does having a partner moderate the relationship between resiliency and the subjective health assessment?
5. Does professional activity moderate the relationship between resiliency and the subjective health assessment?
6. Does age moderate the relationship between resiliency and the subjective health assessment?

RESULTS

First we conducted data analyses at the level of descriptive statistics. The analyses were performed in order to test whether observed relations between variables may be interpreted as random error or are a consequence of systematically occurring association and differences. As sampling was purposive, we cannot directly conclude that the obtained results are true for the general population. Analyses with the Kolmogorov-Smirnov test showed that the distribution for the resiliency variable (general result) and age does not significantly differ from normal distribution. Distribution of the subjective health assessment deviates significantly from normal distribution, though the value of kurtosis (−.17) and skewness (−.81) enable us to assume that the observed deviation is not dramatically high. Results for particular subscales of resiliency did not show a normal distribution. Despite differences from the normal distribution mentioned above, we used the central limit theorem, which states that in big samples the distribution of average values resembles the normal distribution. Because of that, in part of the analyses we used parametric tests.

In order to examine whether there is a significant correlation between resiliency and subjective health assessment (thereby whether searching for moderators of this association is justified) Pearson correlation analysis was used. The results are presented in Table 1.

It was found that resiliency (and its contributing factors) correlates significantly at a low or medium level with subjective health assessment. The obtained results enable us to answer the first posed research question in the affirmative.

Due to the results, the next step was to find moderators of the relationship between resiliency (its
Resiliency and subjective health assessment.

Hence, a multiple regression analysis was performed, prior to which we centred the variables (by subtracting the mean from the result obtained for the quantities variable) as well as creating appropriate interaction factors for them. Firstly, the moderating role of sex was tested. Results of the multiple regression analysis with interaction are presented in Table 2. This model turned out to be statistically significant ($F(3, 136) = 24.14, p < .001$). In total, it explains 34.70% of the variance for the subjective health assessment variable. More importantly, it showed that sex is a significant moderator of the studied relationship.

Resiliency predicts the subjective health assessment only in the male group ($F(1, 74) = 62.99, p < .001, R^2 = .46, B = .68, t = 7.94, p < .001$). The higher the level of resiliency, the more positively respondents evaluate their health. In the female group the same effect was not observed. Furthermore, women presented a significantly lower level of subjective health assessment ($M = 64.81, SD = 22.01$ vs. $M = 84.04, SD = 15.01, z = 5.35, p < .001$) and resiliency ($M = 72.79, SD = 12.88$ vs. $M = 78.20, SD = 11.69, z = 2.77, p = .006$) than men. However, it should be noted that women in the research sample were significantly older than men, which may partly explain the obtained results. Average age of men was 34.86 ($SD = 10.96$), while in the group of women it was 43.02 ($SD = 15.05$).

The second aspect taken into consideration was whether health status moderates the relationship between resiliency and the subjective health assessment. Regression analysis did not reveal a significant interaction effect ($B = .01, p = .863$). Nevertheless, the model without the interactional component shows a good fit to the data ($F(2, 137) = 56.07, p < .001$) and it predicts 45% of variance for subjective health assessment. Resiliency and objective health status are two independent predictors of health assessment. Resiliency moderately predicts better health status in the healthy group ($B = .47, p < .001$), whereas in the group of chronically ill participants the level of prediction is lower ($B = .30, p = .020$) (Table 3).

Interestingly, it was found that whereas healthy and ill participants significantly differ from each other in range of subjective health assessment ($M = 85.43, SD = 12.99$, vs. $M = 60.58, SD = 21.38, z = 6.75, p < .001$), such statistically significant difference were not observed for the level of resiliency ($M = 77.16$,

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Relationship between resiliency, its contributing factors and the subjective health assessment (N = 142)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variables</td>
<td>Subjective health assessment</td>
</tr>
<tr>
<td>Persistence and determination</td>
<td>.22**</td>
</tr>
<tr>
<td>Openness to new experiences and a sense of humour</td>
<td>.38***</td>
</tr>
<tr>
<td>Ability to cope and tolerate negative emotions</td>
<td>.39***</td>
</tr>
<tr>
<td>Ability to tolerate failures and view life as a challenge</td>
<td>.37***</td>
</tr>
<tr>
<td>Optimism in life and ability to focus in adversity</td>
<td>.29***</td>
</tr>
<tr>
<td>Resiliency – summed score</td>
<td>.38***</td>
</tr>
</tbody>
</table>

Note. **$p < .01$; ***$p < .001$.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Moderating role of sex – results from multiple regression analysis with interaction in second step</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predictors</td>
<td>$B$</td>
</tr>
<tr>
<td>Sex</td>
<td>-.40</td>
</tr>
<tr>
<td>Resiliency</td>
<td>.31</td>
</tr>
<tr>
<td>Interaction</td>
<td>-.21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 3</th>
<th>Moderating role of health status – results from multiple regression analysis with interaction in second step</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predictors</td>
<td>$B$</td>
</tr>
<tr>
<td>Health status</td>
<td>-.55</td>
</tr>
<tr>
<td>Resiliency</td>
<td>.31</td>
</tr>
<tr>
<td>Interaction</td>
<td>.01</td>
</tr>
</tbody>
</table>
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SD = 12.05 vs. M = 73.61, SD = 12.93, z = 1.81, p = .070). To sum up, health status does not play a moderating role between resiliency and subjective health evaluation.

Fourthly, we tested whether being in a relationship, both marital and non-marital, modifies the relation between resiliency and subjective health assessment. Multiple regression analysis (Table 4) confirmed that interaction. However, the model explains only 20% of variance for subjective health assessment. It was observed that the having a partner variable separately does not predict subjective health assessment, but allows one to predict it in the interaction with resiliency. In the group of participants who were single, a relationship between resiliency and subjective health evaluation was not revealed ($B = .03, p = .823$), whereas a strong positive correlation was noted among respondents who had a partner ($r (1, 91) = 37.75, B = .54, p < .001$).

Afterward, it was tested whether professional activity (being employed/unemployed) plays a role as a moderator between resiliency and subjective health assessment. Results of the performed analysis are presented in Table 5.

Further analyses using the Mann-Whitney U test showed that unlike the unemployed, working individuals exhibit a significantly higher level of resiliency ($M = 79.96, SD = 10.86$ vs. $M = 67.58, SD = 14.62, z = 3.64, p = .001$) and a better assessment of their health status ($M = 79.77, SD = 18.20$ vs. $M = 58.74, SD = 22.15, z = 4.46, p = .001$).

Lastly, we verified whether age plays a moderating role between resiliency and the subjective assessment of health. Results of the analysis are presented in Table 6.

Multiple regression analysis revealed that the model with the interaction factor shows a good fit to the data ($F (3, 138) = 28.06, p < .001$). Nevertheless, the model with two predictors is equally well fitted as the first model and it explains 36.90% of the variance for subjective health assessment. The interaction effect, on the other hand, was found not to be significant. This suggests that age does not play a role of a moderator in the tested relationship and independently from resiliency predicts a poorer assessment of one’s health.

### DISCUSSION

The aim of this study was to determine the role of psychosocial variables in modifying the relation between resiliency, seen as a health resource, and the subjective assessment of health performed by the participants.

The obtained research results confirm that resiliency as a personality trait is a significant, yet moderating role of having a partner – results from multiple regression analysis with interaction in second step

<table>
<thead>
<tr>
<th>Predictors</th>
<th>B</th>
<th>SE</th>
<th>t</th>
<th>p</th>
<th>R²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Having a partner</td>
<td>.02</td>
<td>.08</td>
<td>0.21</td>
<td>.837</td>
<td>.15</td>
</tr>
<tr>
<td>Resiliency</td>
<td>.30</td>
<td>.09</td>
<td>3.48</td>
<td>&lt; .001</td>
<td>.15</td>
</tr>
<tr>
<td>Interaction</td>
<td>.22</td>
<td>.09</td>
<td>2.63</td>
<td>.010</td>
<td>.20</td>
</tr>
</tbody>
</table>

Table 5

<table>
<thead>
<tr>
<th>Predictors</th>
<th>B</th>
<th>SE</th>
<th>t</th>
<th>p</th>
<th>R²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>.38</td>
<td>.08</td>
<td>4.57</td>
<td>&lt; .001</td>
<td>.24</td>
</tr>
<tr>
<td>Resiliency</td>
<td>.22</td>
<td>.08</td>
<td>2.68</td>
<td>.008</td>
<td>.27</td>
</tr>
<tr>
<td>Interaction</td>
<td>.17</td>
<td>.08</td>
<td>2.16</td>
<td>.033</td>
<td>.27</td>
</tr>
</tbody>
</table>

Table 6

<table>
<thead>
<tr>
<th>Predictors</th>
<th>B</th>
<th>SE</th>
<th>t</th>
<th>p</th>
<th>R²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>-.49</td>
<td>.07</td>
<td>-7.12</td>
<td>&lt; .001</td>
<td>.37</td>
</tr>
<tr>
<td>Resiliency</td>
<td>.32</td>
<td>.07</td>
<td>4.75</td>
<td>&lt; .001</td>
<td>.37</td>
</tr>
<tr>
<td>Interaction</td>
<td>.01</td>
<td>.07</td>
<td>0.10</td>
<td>.922</td>
<td>.37</td>
</tr>
</tbody>
</table>
The moderating role of having a partner turned out to be quite weak, yet significant, whereas the fact of having a partner does not, according to our results, predict better health. Nevertheless, the positive correlation between resiliency and the sense of health in the group of participants in marital or cohabitational relationships was definitely confirmed. The obtained results contradict previously published studies on resiliency (e.g. Soltys, 2013; Wade et al., 2013; Wells, 2009), but they are consistent with numerous studies on the role of marital status conducting in the field of positive psychology. The presented disparity may derive from different methods of variable operationalisation. In future studies the sample should be selected more precisely in order to analyze separately results from respondents in marital and non-marital relationships as well as those who remain single, widowed or divorced. It may well be that the results of all research conducted on this matter (the role of having a partner) are in fact the effect of social support, provided by loved ones. That is why this variable should be taken into consideration in future studies.

The results concerning the moderating role of professional activity were not surprising. They tend to claim that being employed is a better predictor of health assessment than resiliency. The most probable explanation of this interaction effect is that resilient individuals are better at adapting to life conditions and hence they may experience fewer difficulties in looking for employment and in young or late adulthood they remain active, which helps them to maintain physical health.

The conducted research has some limitations. The most serious of them are the disproportions of distribution in various groups, as well as a non-representative and non-homogeneous sample, especially in the case of chronically ill individuals. That is why we treat the obtained results as a starting point and as encouragement for further studies on the modifying role of selected psychosocial variables in the context of resiliency and subjective health assessment.

CONCLUSIONS

Resiliency is connected with subjective health assessment in adults, and demographic features modify this relation. It confirms the significant role of resiliency as a health resource, crucial for maintaining health. It also enables us to emphasize the benefits of enhancing the potential of individuals in order to care about their psychophysical wellbeing.

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