Psychological distress and coping in military cadre candidates

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Background: Soldiers must cope with stressors during both military operations and training if they are to accomplish their missions successfully and stay mentally stable. This holds true particularly for military superiors, as they bear greater responsibilities and must meet greater demands during both deployment and training. Accordingly, in the present study, we investigated whether recruits chosen for further promotion at the end of basic training differed with regard to psychological distress and coping strategies from those not chosen for promotion, and whether recruits’ coping styles and distress levels were associated.

Methods: A total of 675 Swiss recruits took part in the study. At the beginning of basic training, recruits filled out self-rating questionnaires covering demographic data, psychological distress (depression, somatization, anxiety, interpersonal sensitivity, and hostility), and coping styles. Results were compared between those recruits who received a recommendation for further promotion at the end of basic training and those who did not.

Results: Recruits selected for promotion had lower scores for depressive symptoms and hostility, engaged more in active coping, and considered their coping to be more effective. Dysfunctional and functional coping were associated with higher and lower distress levels, respectively.

Conclusion: Recruits recommended for promotion exhibited less psychological distress during basic training and exhibited a socially more conducive profile of distress. They also endorsed more efficient and more prosocial coping strategies than those recruits not recommended for promotion. These cognitive–emotional features not only contribute to resilience but are also consistent with leadership research, indicating the importance of emotional stability and prosocial behavior in successful leaders.

Keywords: military, training, stress, recruits, coping, leadership

Introduction

By definition, soldiers do dangerous and stressful work, and military personnel have an elevated risk of suffering from stress-related disorders following military deployment.¹ The risks of developing other psychological disorders such as depression, anxiety, and alcohol abuse are also higher.² Although the military operates under different conditions in peace and war, military training in peacetime is nonetheless intended to provide preparation for combat situations. Its goal is to enable service personnel to perform under adverse conditions that offer little control, as a soldier’s performance in military operations is mission-critical and allows for little leeway.³

It thus comes as no surprise that basic military training itself has also been shown to be a biopsychosocial stressor, resulting in elevated cortisol levels⁴–⁷ and elevated self-reported psychological distress.⁸–¹⁰ Although most recruits adapt to basic training,⁹,¹¹ the literature also includes reports of fluctuating levels of stress and negative mood over time.⁸,⁹,¹²
Research indicates that stress resistance is a predictor for successful completion of demanding training courses such as basic military training. High levels of hardiness, for example, predict successful graduation from officer training and firefighter training and reduce the risk of developing psychological problems during military training. Coping strategies have also been shown to reduce the negative effects of stress on psychological health. Although emotion-oriented and avoidance coping is generally related to negative health outcomes, problem- and approach-oriented coping is associated with positive health outcomes. In a military setting, Mikulincer and Florian found that recruits who engaged in emotion-oriented coping considered basic training as threatening, whereas recruits who engaged in problem-oriented coping considered it as a challenge. In addition, the more effective a recruit appraised his coping in basic training, the more likely he was to engage in problem-oriented coping, and the less likely he was to engage in emotion-oriented coping. In the present study, we thus also assessed the coping styles of recruits during basic training.

Why is it important to know how recruits experience stress during basic training and how they cope with it? If recruits in general need to be able to withstand the hardships of military training, this holds true particularly for the prospective leaders among them. Junior military cadre, ie, squad leaders and platoon leaders, must meet high demands. On the one hand, they are accountable for implementing basic training and must answer to their superior officers, on the other they are their subordinates’ first point of contact in disciplinary and personal matters. This combination of technical and social demands is a stressor in itself and requires that they exhibit both task orientation and people orientation, the two main behavioral dimensions in classical leadership theory.

Research on leadership emergence, ie, the psychological preconditions that predict the emergence of leadership in groups, also points toward stress resistance as a distinguishing factor. Studies on vertebrates have shown that in contrast to the “reactive” phenotype, “proactive” animals exhibit endocrine and behavioral responses to stress that promote leadership emergence, eg, lower levels of hypothalamic–pituitary–adrenocortical axis hormones, higher adrenaline levels, and higher likelihood of initiation of and adherence to social interaction. This coincides with research on leadership emergence in humans: emergent leaders adjust better to stressful situations and exhibit higher levels of agreeableness and openness to new experiences. In addition, elevated hypothalamic–pituitary–adrenocortical axis responses are often associated with higher aggression. We thus anticipated that recruits who reported less psychosocial stress and more active and problem-oriented coping styles would be perceived as promising cadre by their superiors. In contrast, leadership stress has been shown to have negative effects on performance both in civilian and military settings. Fiedler et al showed in an experiment with Reserve Officer Training Course cadets that social stress negatively affected leadership decisions. Conversely, the military cadre’s own stress resistance acted as a top–down stress buffer for their subordinates’ stress levels, as soldiers who attributed high leadership skills to their superiors suffered from less stress.

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Taken together, from previous research, we know that basic military training is a psychological stressor and that stress resistance as well as active and problem-oriented coping are associated with better mental health outcomes, successful completion of military training, and stronger, more prosocial leadership qualities. We do not know, however, whether future officers and NCOs suffer from less stress during basic training than their comrades who do not get promoted. The aim of the present study was therefore to assess psychological distress and coping strategies among recruits during the first month of basic training and to compare these results between recruits who were recommended for promotion at the end of basic training and those who were not. Accordingly, the following three hypotheses were
We expected lower psychological distress in recruits who went on to receive a recommendation for promotion compared to recruits who did not. Second, following Dolan et al and Mikulincer and Florian, we expected higher scores for functional and lower scores for dysfunctional coping styles in recruits who went on to receive a recommendation for promotion compared to recruits who did not. Third, based on Penley et al and Taylor and Stanton, we expected that functional coping styles would be associated with lower distress levels, while dysfunctional coping styles would be associated with elevated distress levels.

**Methods**

**Procedure**

Two different groups were assessed and compared in the present study, recruits who received a recommendation for promotion at the end of general basic training (ie, week 6) and recruits who did not and remained enlisted for the remainder of their military service. The group allocation was thus necessarily determined a posteriori. The survey was carried out with seven different military units (entire companies) on four training grounds in order to obtain a balance between combat and support troops. Psychological distress was measured during week 4 of basic training. Coping style in its conceptualization as a stable trait variable was measured during the first week of basic training. For both instances, participants were assembled company-wise at the end of a classroom lesson and had 20 minutes to complete a series of standardized questionnaires related to basic sociodemographic data and psychological distress coping styles. They received instructions on how to fill out the questionnaires by two trained officers of the Psychologic-Pedagogic Service of the Swiss Armed Forces, who were assisted by NCOs of the respective training ground. Missing cases were thus prevented and missing values kept to a minimum. Although the present analysis draws on a broader ongoing longitudinal study, the results reported here on psychological distress and coping styles have not been published, discussed, or presented elsewhere. Thus, the findings are novel.

**Sample**

Written informed consent was obtained from all participants. The Psychologic-Pedagogic Service and Armed Forces Personnel approved the study, which was performed in accordance with the principles laid down in the Declaration of Helsinki. A total of 675 male recruits (aged =18–26 years, M=20.03 years, standard deviation =1.14) of the Swiss Armed Forces were examined in a cross-sectional study during the first 4 weeks of basic military training. Of this sample, 100 were recommended for promotion by their superiors at the end of general basic training, while 575 were not and remained enlisted during the remainder of their service. Although some preenlistment psychometric data are also used in selecting future cadre (eg, IQ), they are used as exclusion rather than inclusion criteria and are thus of only low discriminatory power.

**Materials**

**Psychological distress**

Psychological distress was assessed using the Symptom Checklist-90-Revised (SCL-90-R, Pearson, San Antonio, TX, USA), a 90-item self-report symptom inventory designed to reflect psychological symptom patterns with a time reference of the past 7 days. Respondents are asked how much they have been bothered by issues such as faintness or dizziness, crying easily, feeling fearful, or having urges to break or smash things. Distress severity is rated on five-point rating scales with the anchor points 0 (=not at all) to 4 (=extremely); thus, higher scores reflect greater distress. The SCL-90-R is widely used and has been found to be a valid and reliable measure for psychological distress, both in English and in German. In our survey, the original nine dimensions of the SCL-90-R were reduced to the following five: Depression (13 items), Somatization (12 items), Anxiety (ten items), Interpersonal Sensitivity (nine items), and Hostility (six items). The scales Obsessive-Compulsive, Psychoticism, and Paranoia were omitted so as to reduce respondent burden and because recruits with mental disorders on axes 1 and 2 of the DSM-IV are screened out during recruitment and declared unfit for service. The dimensions have internal consistencies ranging from α=0.77 to 0.90, and the inventory itself shows high concurrent validity with the Minnesota Multiphasic Personality Inventory.

**Coping**

Coping styles were assessed with the Individual Coping Questionnaire (INCOPE-2), a 23-item questionnaire consisting of six subscales that reflect a variety of individual coping strategies for psychosocial stress. Items are rated on five-point rating scales with respect to the frequency with which each coping strategy is used in everyday life, with anchor points 0 (=never) and 4 (=always). The six subscales assess Rumination (four items; eg, intellectual brooding, feeling guilty; α=0.70), Positive Self-Verbalization (three items; eg, humor, positive self-instruction; α=0.74), Active Problem Solving (seven items; eg, active engagement, search for social support; α=0.71), Expression of Negative Emotions...
(three items; eg, blaming comrades; α=0.73), Negative Relaxation Strategies (three items; eg, alcohol consumption; α=0.75), and Withdrawal/Avoidance (three items; eg, withdrawal of the stressful event; α=0.86). The subscales have internal consistencies ranging from α=0.70 to α=0.86. Two single items measure the subjective Effectiveness of one’s coping style and one’s Satisfaction with it. The subscales Ruminaton, Expression of Negative Emotions, Negative Relaxation Strategies, and Withdrawal/Avoidance are aggregated to the dimension Dysfunctional Coping, while the subscales Positive Self-Verbalization and Active Problem Solving are aggregated to the dimension Functional Coping. Finally, a Total Score indicating positive coping is computed from all items. The dimensions have internal consistencies of α=0.71 for Dysfunctional Coping, α=0.70 for Functional Coping, and α=0.76 for the Total Score, and validation studies have demonstrated satisfactory concurrent and predictive validity.41

Statistical analysis
The SCL-90-R dimensions and INCOPE-2 scales were tested for normality and homogenous variances. Both the Kolmogorov–Smirnov test and the Skewness and Kurtosis test revealed significant departures from normal distributions for all scales and dimensions in both groups. Levene tests revealed that all SCL-90 dimensions were heteroscedastic, while INCOPE-2 scales exhibited both heterogeneous and homogenous variances. Consequently, two-tailed Mann–Whitney tests were performed to determine differences in psychological distress and coping styles between the two groups, and two-tailed Spearman rank correlations were performed to test the association between distress levels and coping styles. Missing values were excluded case-wise, and the nominal level of significance was set at α<0.05. All statistical computations were performed with SPSS® 23.0 (IBM Corporation, Armonk, NY, USA) for Windows® and G*Power® 3.1.9 (University of Düsseldorf, Düsseldorf, Germany).42

Results
Group differences in psychological distress
The prospective cadre group reported significantly lower Depression scores (Mdn =0.13) than the recruits who remained enlisted (Mdn =0.25), U=25,034.5, P<0.05, r=0.08. Likewise, the prospective cadre group reported significantly lower Hostility scores (Mdn =0.00) than the other recruits (Mdn =0.17), U=24,074.0, P<0.01, r=0.10. Post hoc power computations for the Depression analysis revealed an achieved power of 0.72 and for the Hostility analysis an achieved power of 0.89.

No statistically significant differences between the two groups were observed for the dimensions Somatization, Anxiety, and Interpersonal Sensitivity, with 26,270.0≤ U ≤27,278.5.

Group differences in coping styles
The prospective cadre group reported significantly higher scores for Active Problem Solving (Mdn =2.40) than the other recruits (Mdn =2.20), U=26,051.5, P<0.05, r=0.09. They furthermore reported higher scores for Effectiveness of coping (Mdn =3.00) than the other recruits (Mdn =3.00), U=25,926.5, P<0.05, r=0.09. Although the cadre group reported higher Total Scores (Mdn =0.98) than the other recruits (Mdn =0.79), this difference just failed to reach a significant level, U=26,778.0, P=0.054, r=0.07. Post hoc power computations for the Active Problem Solving analysis revealed an achieved power of 0.33 and for the Effectiveness analysis an achieved power of 0.71.

No statistically significant differences between the two groups were observed for the dimensions Dysfunctional Coping, Functional Coping, Ruminaton, Positive Self-Verbalization, Expression of Negative Emotions, Negative Relaxation Strategies, and Withdrawal/Avoidance, or for the single item Satisfaction, with 26,977.5≤ U ≤30,219.5.

Association between distress and coping
All correlation coefficients between dimensions of psychological distress and functional and dysfunctional coping styles are reported in Table 1. The pattern of results showed that functional coping correlated negatively and significantly with all distress scales, whereas dysfunctional coping correlated positively and significantly with all distress scales, although less strongly. Post hoc power computations revealed that the achieved power ranged from 0.83 for the lowest correlation coefficient to 0.95 for the highest correlation coefficient.

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<td>Functional coping</td>
<td>−0.19*</td>
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<td>−0.19*</td>
<td>−0.15*</td>
<td>−0.22*</td>
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<td>Dysfunctional coping</td>
<td>0.17*</td>
<td>0.10**</td>
<td>0.18*</td>
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Notes: *P<0.01, **P<0.05.
Discussion
The key findings of the present study were that the prospective cadre exhibited lower levels of depression and hostility and reported more active and effective coping than the nonprospective cadre recruits. The present data add to the current literature in an important way in that we were able to show that cadre selection as an experts’ rating was mirrored by favorable self-rated psychological processes.

Three hypotheses were formulated and each of these is considered in turn. With the first hypothesis, we expected lower psychological distress in prospective cadre compared to nonprospective cadre, and this was partially confirmed. Specifically, prospective cadre had lower depression and hostility scores. This pattern of results matched those of Westman and Maddi et al., in as much as higher stress resistance went along with the successful passing of demanding training courses, eg, basic military training. However, the normative expectation that future military leaders experience less stress than their enlisted comrades has, to the best of our knowledge, never been empirically validated. The present data thus add to the current literature in that we were able to confirm that recruits who impress their superior officers as qualified for promotion do not only exhibit stress-moderating traits such as hardness but also report less actual (subjective) distress itself. In addition, the results suggest that the superior officers in charge of recruits attach’ special importance to social skills and prosocial behavior in their assessment of the recruit’s leadership qualities. One of the constituent elements of depression is a lack of social activity, while hostility is characterized by socially antagonistic behavior. In both cases, social behavior is affected in a detrimental way. Low hostility has thus not surprisingly been shown to be closely related to leadership effectiveness in military settings. Similarly, military culture may counterintuitively be characterized by a low level of masculinity. Stereotypical masculine values such as competitiveness, materialism, ambition, assertiveness, and personal power are consequently held in low esteem in a military setting. Recruits who impress their superiors as potential cadre seem to do so by exhibiting a proactive element of sociability and by lacking a resentful or vindictive streak. This is consistent with the Swiss Armed Forces’ focus on social skills when selecting the cadre, as well as classic leadership theory and its emphasis on people orientation or consideration. These prosocial attitudes and behaviors are not merely of ethical importance; however; they also have their usefulness. Devries postulates that prosocial conduct, eg, affiliative behavior, can provide a coping mechanism with respect to stressful social conditions that arise during the establishment of social rank relationships. This suggests that the prospective cadre’s prosocial behavior not only mitigates the potentially negative group dynamics that accompany their leadership emergence but also allows them to cope with their own stress resulting from the concomitant social dynamics.

Our second hypothesis was that more functional and less dysfunctional coping would characterize prospective cadre compared to nonprospective cadre, and this too was partially confirmed. Recruits with a recommendation for promotion at the end of general basic training engaged in more active problem solving, reported more effective coping, and exhibited a tendency to cope more favorably in general. This concurs with findings of both Pratch and Jacobowitz and Mukuliner and Florian, who found that effective junior military leaders engaged less in emotion-oriented and more in problem-oriented coping, with the latter coping style being associated with a more self-efficacious mind set. In view of the results from our first two hypotheses, the combination of low hostility and high sense of coping effectiveness that we found in prospective cadre candidates would also suggest a lower risk of developing psychopathological symptoms after a potentially traumatic experience: a prospective follow-up study with firefighters was able to show that high levels of hostility and low levels of self-efficacy at baseline accounted for half of the variance in posttraumatic stress disorder symptoms after 2 years on the job. It also predicted a significant increase in measures of posttraumatic stress disorder symptoms, depression, anxiety, and general psychological morbidity.

Our third hypothesis was that functional coping strategies would be associated with lower distress scores and that dysfunctional coping would be associated with higher distress scores. Our data confirm this and corroborate studies by Repetti et al and Taylor and Stanton, who were able to show that psychological distress was related to a lack of adequate coping resources. It is noteworthy that functional coping exhibited a greater association with distress than dysfunctional coping. This suggests that it is not so much a lack of dysfunctional coping that contributes to lower psychological distress but rather the presence of functional coping.

Despite the novelty of the results, several limitations warrant against their overgeneralization. First, the sample consisted of only male recruits; accordingly, it is not clear to what extent the present data are also applicable to female recruits. Second, no objective measures were made; it would have increased the validity to investigate to what extent self-ratings of psychological distress and coping strategies were consistent (or inconsistent) with a nonpharmacological stress test such as the Trier Social Stress Test. Third, the analyses
were cross-sectional and correlational; this allows us to draw only conjectural conclusions on the causality of the association between psychological distress and coping styles. Fourth, the effect sizes of the differences in psychological distress and coping styles were small, despite the generally adequate power that was achieved. However, the dichotomous classification of recruits into the groups “promotion” versus “no promotion” is rather crude and ignores many additionally relevant characteristics of the participants, such as social support and life events. Insofar, the small effect sizes are explicable. Finally, it would have been interesting to follow-up both groups of recruits with regard to their military performance in order to gain further insight into the predictive validity of such assessments.

In view of these limitations, further research should focus on a more sophisticated classification of participants and supplement the assessed data with objective measures of stress, eg, salivary cortisol. In addition, a further breakdown of the superiors’ appraisal of the recruits’ aptitude for promotion would allow the identification of those criteria that are pivotal in the eyes of the superior officers. A promising instrument for future research is the Military Training Mental Toughness Inventory, which is based on the Mental Toughness Inventory. The latter in turn was conceptualized within Gray and McNaughton’s neuropsychological framework of the revised Reward Sensitivity Theory, which aims to explain how goal-directed behavior is maintained under stress. Military training mental toughness may moderate the relationship between psychological distress and performance in basic training on the one hand, and reveal a relationship with certain coping styles on the other. Finally, future studies should be longitudinal, thus allowing to draw firm conclusions about the causality of the associations.

Conclusion

The pattern of results suggests that prospective cadre group is able to maintain their social agency even under elevated physical and psychological stress when compared to the members of their cohort who were not recommended for promotion and remained enlisted. The capacity to cope with psychosocial stress and remain influential in a social group goes hand in hand with lower levels of socially adverse stress responses, possibly acting as a buffer. This specific pattern of coping style and stress response has the additional benefit of facilitating the recruit’s emergence as a leader by allowing him to develop and utilize his leadership skills under stress, because research on transformational leadership has shown that prosocial interpersonal skills such as individualized consideration are crucial factors in effective leadership.53

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Disclosure

The authors report no conflicts of interest in this work.

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