Relationships between Personality and Coping with Stress: An Investigation in Swedish Police Trainees

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The aim was to investigate relationships between personality characteristics derived from Cloninger’s personality theory and ways of coping. We investigated 103 police trainees by the Temperament and Character Inventory and Ways of Coping Checklist. There were several particularities characterising trainees within various personality profiles relating to coping. Each WoC scale was significantly predicted by varying personality subscales with temperament subscales mainly contributing to the prediction. Only personality domains harm avoidance, reward dependence, and self directedness could significantly be predicted by coping scales. Some coping behaviours often jointly occur depending on the specific stressful situation; and these combinations are related to particular personality trait constellations.

Keywords: Ways of Coping; Psychobiological Theory of Personality; Temperament; Character; Police Trainees

Introduction

Since Lazarus and colleagues developed the concept of coping with stress (Lazarus, 1966; Lazarus & Folkman, 1984; Folkman & Lazarus, 1980, 1985) in the early 1980s much research has been conducted in order to understand the complexity and patterns of coping processes. Coping represents processes of perception, evaluating and managing circumstances, making efforts to solve problems, or seeking to master, minimize, reduce or tolerate stress. “Coping is defined as cognitive and behavioural efforts to manage specific external and/or internal demands that are appraised as taxing or exceeding the resources of the person.” (Hancock & Desmond, 2001: p. 85) The core aim of coping is “change” (Folkman & Lazarus, 1985) of external or internal conditions in order to achieve a state of wellbeing or to avoid emotionally negative conditions and maintaining positive psychological states. These changes need to occur despite enduring stress (Folkman, 1997) caused by intentional, conscious, and goal-directed stress-management (Lazarus & Folkman, 1984).

Folkman and Lazarus (1985) referred to relationships between personality and coping early in the development of their coping theory by differentiating between dispositional and episodic variables affecting coping, with personality traits representing enduring dispositions and coping itself understood as specific behaviour applied in particular situations. However, individuals were found to relatively consistently prefer and employ particular coping behaviour across a wide range of situations (Carver, Scheier, & Weintraub, 1989). Since then, various attempts have been made to conceptualise and to investigate relationships between personality and coping with statements ranging from: personality and coping represent comprehensive and closely interrelated constructs, but are not identical (Fickova, 2001; McWilliams, Cox, & Enns, 2003; Murberg, 2009); their indicators are interrelated; personality and coping represent parts of a continuum based on adaptation (Costa, Somerfield, & McCrae, 1996; Maltby, Day, McCutcheon, Gillett, Houran, & Ashe, 2004); there are structural similarities between measures of personality and coping behaviour; personality influences the appraisal process and consequently the choice of coping style; personality affects coping strategy selection (Bolger & Zuckerman, 1995); certain personality traits are likely to facilitate particular coping behaviours (Vollrath, 2001; Suls & Martin, 2005); personality influences effectiveness of coping (Bolger & Zuckman, 1995; DeLongis & Holtzman, 2005); personality and coping partly share their genetic basis (Kato & Pedersen, 2005; Jang, Thordarson, Stein, Coohan, & Taylor, 2007); coping as “personality in action under stress” (Bolger, 1990: p. 525); coping responses are only epiphenomena of personality traits, with no causal status independent of personality traits (McCrae & Costa, 1986); to “coping ought to be redefined as a personality process” (Vollrath, 2001: p. 341).

Characteristics of individuals who cope with stress positively or negatively have long been investigated (Snyder et al., 2005; Antonovsky, 1987; Taylor & Brown, 1994; Folkman, 1997). For example, individuals scoring high on the neuroticism dimension of the “Big Five” personality model are more often engaged in passive or maladaptive coping behaviours such as...
hostile reactions, escape fantasies, self blame, withdrawal, wishful thinking, indecisiveness, or other types of passivity, whereas those scoring high in extraversion more often used active, approaching and rational problem solving behaviours or substitution (McCrae & Costa, 1986; Lau, Hem, Berg, Ekeberg, & Torgersen, 2006). Individuals scoring high in conscientiousness have also been characterized by active coping and refraining from passive coping (Vollrath, Torgersen, & Alnaes, 1998). Similar but more differentiated findings were reported applying a personality typology based on high or low scorers on the three above mentioned personality characteristics by Vollrath and Torgersen (2000). Even though the correlation between particular personality characteristics and particular coping behaviour were often found of low to moderate effect size (Connor-Smith & Flachsbart, 2007), the variance of personality explained about 25% of the variation in coping. Therefore, the investigation of just one particular coping behaviour or one separated personality characteristic might not be appropriate.

However, “despite hundreds of studies, the influence of personality on coping, and of both on outcomes, is only partly understood.” (Carver & Connor-Smith, 2010: p. 695). For example, the following problems and questions remain: What happens to personality and coping under certain circumstances? How do various personality characteristics interact when an individual is confronted with a particular stressful situation? What determines our (coping) behaviour under certain circumstances? How inter- and intra-individually consistent and generalizable are these interactions in relation to coping? How reliable is our (coping) behaviour under certain circumstances? As both are partly shaped and developed by life-long learning processes, are they subject to change by training procedures or therapies? Furthermore, the impact of coping upon personality is very rarely conceptualized, and then primarily only in relation to mastery and self-esteem.

The primary aim of the present study was to investigate relationships between personality characteristics derived from Cloninger’s personality theory (Cloninger, Svrakic, & Przybeck, 1993) and ways of coping. Considering some of the shortcomings of previous research we focused on the interplay between various temperament and character domains and ways of coping 1) based on similarities on personality between individuals; 2) based on relationships between variables similar to Ferguson (1991) who applied joint factor analysis to personality and coping data; and 3) on regression of personality to coping and vice versa; as well as 4) on relationships of both personality characteristics and coping with gender, alcohol use and suicide attempts in the past.

Methods

Sample

Since the police is commonly described as a profession exposed to high levels of occupational stress (Chopko, 2010; Morash, Haarr, & Kwak, 2006; Stinchcomb, 2004) caused by sudden events of usually short duration which almost immediately lead to psychological and physiological reactions, we investigated police trainees from one of the three Swedish police academies at intake. 103 police trainees voluntarily participated in the research project within the first 2 weeks after intake. There were substantially more male (n = 68) than female (n = 35) trainees in the sample with males being older than females. Most of the participants were single and had already gained some other university education prior to starting police training. The trainees received information about the aims prior to the investigation and gave written consent before the start of the investigation. Participants were asked to complete a socio-demographic form and the Temperament and Character Inventory (TCI), the Symptom Checklist (SCL-90-R), the Ways of Coping Checklist (WoC) and the State Trait Anger Expression Inventory (STAXI-II). The completion of the four questionnaires took about one hour and the assessment was performed in the police academy’s rooms. However, the present analysis was only based on socio-demographic data, the TCI and WoC.

The research project was approved by Regional Ethics Committee at Umeå University (Sweden). This article forms the third scientific report about findings from a longitudinal research program on Swedish police officers’ personality development (du Preez, Cassimjee, Ghazinour, Lauritz, & Richter, 2009; Ghazinour, Lauritz, du Preez, Cassimjee, & Richter, 2009; Ghazinour & Richter, 2009).

Instruments

Temperament and Character Inventory

The Temperament and Character Inventory (TCI) (Cloninger, Przybeck, Svrakic, & Wetzel, 1994) was used to assess personality characteristics according to Cloninger’s bio-psychosocial theory. Cloninger’s psychobiological model of personality (Cloninger, Svrakic, & Przybeck, 1993) refers to four independent, largely genetically determined dimensions of temperament: 1) novelty seeking (NS), a tendency toward exhilaration in response to novel stimuli or cues; 2) harm avoidance (HA), a heritable bias in the inhibition or cessation of behaviour; 3) reward dependence (RD), the tendency to maintain or pursue ongoing behaviours; and 4) persistence (PS), a tendency of perseverance in behaviour despite frustration and fatigue; and to three character dimensions, which are supposed to be predominantly determined by socialisation processes during the lifespan: self-directedness (SD), the extent to which a person identifies the self as an autonomous individual; cooperativeness (CO), the extent to which a person identifies himself or herself as an integral part of the society as a whole; and self-transcendence (ST), the intensity of identification with unity of all things. The Swedish TCI version, version 9 (Brändström, Siggvardsson, Nylander, & Richter, 2008), consists of 238 true/false items covering these seven personality dimensions by 26 subscales: exploratory excitability (NS1), impulsiveness (NS2), extravagance (NS3), disorderliness (NS4), anticipatory worry (HA1), fear of uncertainty (HA2), shyness (HA3), fatigability (HA4), sentimentality (RD1), attachment (RD3), dependence (RD4), responsibility (SD1), purposefulness (SD2), resourcefulness (SD3), self-acceptance (SD4), enlightened second nature (SD5), social acceptance (CO1), empathy (CO2), helpfulness (CO3), compassion (CO4), integrated conscience (CO5), self-forgetful (ST1), transpersonal identification (ST2), and spiritual acceptance (ST3). Persistence is assessed by an eight items single dimension.

Ways of Coping (WoC)

Ways of Coping is a questionnaire with items representing a wide range of thoughts and acts that people use to deal with the internal and/or external demands of specific stressful encounters (Folkman, 1985). The instrument consists of 66 items to be
answered on a 4-point Likert scale (0 = does not apply and/or not used; 3 = used a great deal) which are combined to eight scales (confrontive coping, distancing, self-controlling, seeking social support, accepting responsibility, escape-avoidance, planful problem-solving, positive reappraisal).

Usually an encounter is described by the subject in an interview or in a brief written description saying who was involved, where it took place and what happened. Sometimes a particular encounter, such as medical treatment or an academic examination, is selected by the investigator as the focus of the questionnaire (Folkman, 1985: p. 1). Therefore a stressful scenario that will frequently be encountered by police officers was presented as the basis for responding to the WoC. The participants were encouraged to read the scenario: "Last week you were called to a car accident and you found a small child bleeding heavily".

**Statistics**

A cluster analysis, Ward’s method, squared Euclidian distances with standardised z-scores by variable, was performed in order to define groups of individuals of similar personality characteristics based on TCI domains. Means and sds of TCI domains and WoC scales were presented by cluster. MANOVA's based on TCI domains and WoC scales were calculated testing for differences between clusters and for the impact of gender. Factor analysis, principal axis factoring, varimax rotation, based on TCI domains and WoC scales and based on TCI subscales and WoC scales were carried out searching for groups of related variables. To test for predictability between personality and coping scales sets of multiple regression analyses were performed firstly with WoC scales as independent variables and TCI domains and subscales as dependent variables; and secondly with TCI subscales as independent and WoC scales as independent variables. Non-parametric tests were applied in testing for relationships of personality and coping variables, gender and dichotomised variables suicide attempt in the past—yes versus no—and self reported alcohol consumption, never or seldom versus sometimes or often. Since this represented an explorative study, no correction for multiple testing was done.

**Results**

Cluster analyses were performed on TCI dimensions with solutions between 3 and 7 clusters. The 5-cluster solution was chosen to reflect the differences between these clusters best. We decided on 5 clusters because of the relatively equal sizes of all groups (13.5%, 21.2%, 32.7%, 16.3%, 16.3%, respectively). Furthermore, the change between every successive cluster was considerable from 3-cluster solution to 5 clusters, but the difference between 5-cluster solution and 6-cluster was small, therefore we decided on the 5-cluster solution as most adequate. The police trainees in the various clusters can be characterised as follows (Table 1): - Cluster 1: highest scores on SD (SD1 - SD5), lowest on ST (ST1 - ST3) compared to the others combined with medium scores on NS (high: NS1, NS4, medium: NS2, NS3), PS, and CO (CO1) and lowest scores on HA (lowest: HA1, HA3, HA4, low: HA2) and RD (RD1, RD3, RD4); - Cluster 2: highest score on PS and lowest on NS (NS2, NS3, NS4, low: NS1), medium scores on all other personality dimensions (except for high CO2); - Cluster 3: highest score on RD (RD3, RD4, high: RD1), low on HA (lowest: HA2, HA4, low: HA1, HA3), high scores on SD (highest: SD1, SD3, SD4, high: SD2, SD5), high scores on CO (highest: CO1, CO2, CO3, high: CO4, CO5) and high scores on NS (highest: NS1, high: NS2, medium: NS2, NS4) combined with medium scores on PS and ST (medium: ST1, ST3, low: ST2); - Cluster 4: highest score on NS (NS1, NS3, NS3, high: NS2), CO (CO2, CO4, CO5, high: CO1, CO3) and ST (ST1 - ST3), high scores on RD (highest: RD1, high: RD3, medium: RD4), high scores on SD (highest: SD2, SD4, high: SD3, medium: SD1, SD5) and medium on HA (medium: HA2, HA3, HA4, low: HA1) combined with low PS; - Cluster 5: highest score on HA (HA1 - HA4), lowest scores on PS, SD (SD1 - SD5) and CO (lowest: CO1, CO3, CO4, CO5, medium: CO2), high scores on NS (highest: NS2, NS4, high: NS3, lowest: NS1) combined with medium scores on RD on (RD4, medium: RD1, low: RD3) and ST (ST1 - ST3) (Table 1).

A MANOVA with TCI domains as dependent variables and cluster as fixed factor revealed that the main effect on all TCI domains were significantly different between clusters with high effect size (Pillai’s trace = 2.02; F(28/304) = 13.92; \(p < .001\); \(\eta^2 = .085\)). All police trainees in group 1 were men; groups 2 and 5 were mostly men (about three quarters of the clusters) whereas there was no difference in gender-ratio in group 3 and 4.

A MANOVA with coping scales as dependent variables and cluster as fixed factor did not support a main effect of cluster (Pillai’s trace = .34; F(32/390) = 1.11; \(p = .323\); \(\eta^2 = .085\)). However, there was a significant difference between the clusters on scale positive reappraisal of medium effect size with

### Table 1

TCI dimensions by cluster (mean ± SD).

| Cluster | NS    | HA    | RD    | PS    | SD    | CO    | ST    |
|---------|-------|-------|-------|-------|-------|-------|-------|
| 1       | 21.1 ± .92 | 7.3 ± 1.04 | 12.6 ± .53 | 4.0 ± .42 | 38.0 ± 1.10 | 33.6 ± .77 | 5.6 ± 1.00 |
| 2       | 16.7 ± .73 | 10.0 ± .83 | 16.2 ± .42 | 6.5 ± .34 | 35.5 ± .88 | 36.3 ± .61 | 11.0 ± .78 |
| 3       | 22.9 ± .59 | 7.5 ± .67 | 18.0 ± .34 | 5.5 ± .27 | 37.0 ± .71 | 37.4 ± .49 | 8.9 ± .63 |
| 4       | 25.5 ± .83 | 10.1 ± .95 | 17.9 ± .48 | 3.9 ± .38 | 36.5 ± 1.00 | 38.1 ± .70 | 16.4 ± .89 |
| 5       | 22.2 ± .83 | 16.7 ± .95 | 15.4 ± .48 | 3.1 ± .38 | 27.7 ± 1.00 | 32.5 ± .70 | 11.8 ± .89 |

Note: NS: Novelty Seeking; HA: Harm Avoidance; RD: Reward Dependence; PS: Persistence; SD: Self-Directedness; CO: Cooperativeness; ST: Self-Transcendence.
significant higher scores for cluster 4 compared to cluster 1 and 2 (test of between-subject-effect: F(4) = 3.29; p = .014; η² = .117) and a tendency for scale escape avoidance. Nevertheless, there were some particularities characterising the individuals within the various clusters relating to coping (Table 2):

- Cluster 1: lowest scores on confronting coping, highest on distancing, and lowest on accepting responsibility, escape avoidance and positive reappraisal;
- Cluster 2: highest scores on distancing combined with lowest scores on escape avoidance and planful problem solving;
- Cluster 3: lowest scores on self control and escape avoidance;
- Cluster 4: highest scores on confronting coping, support seeking, accept responsibility, and planful problem solving, and positive reappraisal combined with lowest scores on distancing and self control;
- Cluster 5: highest scores on self control and escape avoidance combined with lowest scores on support seeking.

Furthermore, in a MANOVA with coping scales as dependent variables and gender, age, marital status and educational level as fixed factors, the results were as follows:

Age, educational level and marital status found to be non-significant factors relating to coping scales. There was only a significant main effect of large effect size (Pillai’s trace = .24; F(8/94) = 3.60; p = .001; η² = .235) for gender based on the impact on distancing, self control and positive reappraisal. Men were found to score higher on distancing and self-control while women had higher score on positive reappraisal.

Both, the Kaiser-Guttman criterion and the scree plot of the joint factor analysis based on TCI domains and WoC scales suggested a five-factor solution explaining 62.6% of the variance in the data with two exclusive coping factors, two exclusive personality factors (SD, -HA, and CO/-NS and PS), and only one mixed factor with RD, HA, CO and negative loadings for distancing and self control. A seven-factor solution was preferable for joint analysis based on the TCI subscales and WoC scales, explaining 53.8% of the variance in the data. Two were mixed factors (first: all HA subscales with negative loading, four SD subscales with positive loading, and a positive loading for distancing; sixth: all ST subscales and PS positively with self control negatively); two clear coping factors (second: accept responsibility, escape avoidance, positive reappraisal, and confronting coping all with positive loadings; fourth: planful problem-solving, support seeking, self control, and confronting coping); and three clear personality factors (third: positively all RD, four CO, and two SD subscales; fifth: all RD, two SD, and all RD subscales; seventh: three NS subscales combined with negatively loading PS).

When testing the predictive power of personality subscales relating to WoC scales in multiple regression analyses, variance of the personality variables could explain significant variation only in confrontive coping and distancing when all personality subscales were used simultaneously (method: enter 11% and 14%, respectively) (Table 3). If the program is permitted to reduce the number of personality variables (method: stepwise), each of the WoC scales can be significantly predicted explaining between 4% (positive reappraisal by RD1) and 13% (distancing by NS3 and HA2, and escape avoidance by RD1 and HA2) of the variance, with temperament subscales mainly contributing to the prediction. Only accept responsibility was exclusively determined by character subscales SD1 and CO5 and on confrontive coping and self control a mix of temperament and character subscales (SD1 and CO4, respectively) were of impact.

From the opposite perspective, only the personality domains HA, RD, and SD could significantly be predicted by coping scales (between 9%—RD and 17%—SD (Table 4). Domains NS and CO could not even be predicted by applying a stepwise method. Variance in coping scales distancing and escape avoidance was mainly responsible for prediction of variation in temperament subscales, particularly in HA, whereas variance in self control and confronting mainly contributed to the explanation of variation in character subscales, especially in SD subscales combined with a negative impact of escape avoidance coping. Positive reappraisal significantly contributed to the exclusive explanation of variation on ST subscales, whereas support seeking was predictive for RD and CO subscales.

One third of those trainees who reported a suicide attempt once during their lifetime were categorised in cluster 3 and one fourth of them belonged to cluster 2, whereas only one trainee with a suicide attempt was in cluster 1. Those individuals who reported a suicide attempt in the past showed higher HA (HA1, HA3, and HA4), lower SD (SD2, SD5) combined with a tendency to more escape avoidance (Mann-Whitney U-test, exact significance: .027, .022, and .085, respectively) than those without such an event.

The distribution relating to drinking alcohol never or seldom versus sometimes or often did not differ across clusters 1, 2, and 4. However, trainees in cluster 3 (60% versus 40%) and 5 (87% versus 13%) more often reported drinking alcohol sometimes or often than drinking never or seldom. When comparing police trainees who reported drinking alcohol never or seldom with those reported as drinking alcohol sometimes or often, the latter showed higher NS (NS2, NS4) and lower PS combined with more self controlling coping and more escape avoidance (Mann-Whitney U-test, exact significance: .042, .013, .024 and .062, respectively). There was a significant relationship

### Table 2.

Coping scales by personality cluster (mean ± SD).

| Cluster | Confr. | Dist. | S. C. | S. S. | A. R. | E. A. | P. S. | P. R. |
|---------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1       | 6.8 ± .66 | 6.6 ± .76 | 12.0 ± .78 | 11.1 ± .63 | 3.6 ± .50 | 5.9 ± .78 | 11.5 ± .70 | 8.9 ± .68 |
| 2       | 7.0 ± .53 | 6.6 ± .60 | 11.5 ± .62 | 12.2 ± .51 | 3.8 ± .40 | 5.9 ± .62 | 10.9 ± .56 | 9.7 ± .55 |
| 3       | 7.1 ± .42 | 5.8 ± .49 | 11.1 ± .50 | 11.9 ± .41 | 3.9 ± .32 | 5.9 ± .50 | 11.8 ± .45 | 10.6 ± .44 |
| 4       | 8.4 ± .60 | 5.6 ± .69 | 11.1 ± .71 | 12.5 ± .58 | 4.3 ± .46 | 6.9 ± .71 | 11.9 ± .63 | 11.9 ± .62 |
| 5       | 8.2 ± .60 | 5.8 ± .69 | 12.6 ± .71 | 10.9 ± .58 | 3.9 ± .46 | 7.6 ± .71 | 11.0 ± .63 | 10.8 ± .62 |

Note: Confr.—Confrontive; Dist.—Distancing; S. C.—Self Control; S. S.—Seeking Social Support; A. R.—Accept responsibility; E. A.—Escape Avoidance; P. S.—Planful Problem-Solving; P. R.—Positive Reappraisal.
between the personality clusters and the dichotomised alcohol drinking variable (Fisher’s exact test = 7.71; \( p = .049 \)) mainly caused by the fact that there were substantially more individuals in cluster 5 who reported drinking alcohol sometimes or often rather than never or seldom (87% versus 13%).

**Discussion**

The major aim of the present study was to investigate the complex interplay between personality characteristics derived from Cloninger’s personality theory (1993) and ways of coping in police trainees shortly after admission to the police academy. The relationship coefficients were not as high as expected but led to smaller variance in the variables.

The main finding was that the use of some coping behaviours often jointly occur, in the sense that a coping style and a combination of personality characteristics seem to be related to the “coping styles” described below. Overall, seeking support and planful problem solving were the most often applied and escape avoidance, accept responsibility, and distancing the less often used coping behaviours. This combination matches the implicit demands of the particular situation offered to the participants.

When analysing in more detail the complex interplay between coping behaviour and personality based on personality clusters in the particular situation of a child bleeding heavily after a car accident the following picture could be observed:

Those trainees (Cluster 1) who tried the hardest to stay detached from the situation (distancing) compared to the others, were also those who took the lowest risk in changing the situation (confronting); acknowledged their role in the situation (accept responsibility) to the lowest level; and showed the lowest tendencies to wishful thinking (escape avoidance). This combination matches the implicit demands of the particular situation offered to the participants.

When analysing in more detail the complex interplay between coping behaviour and personality based on personality clusters in the particular situation of a child bleeding heavily after a car accident the following picture could be observed:

| Independent | Dependent            | Standardized β | t   | p    | Adjusted \( r^2 \) | F   | p    |
|-------------|----------------------|----------------|-----|------|---------------------|-----|------|
| Personality | Confronting          | .21            | 2.24| .027 | .06                 | 7.15|.001 |
| Personality | Distancing           | −.23           | −2.40| .018 | .11                 | 7.15|.001 |
| Personality | Support seeking      | .26            | 2.70| .008 | .05                 | 1.20|.268 |
| Personality | Self control          | −.27           | −2.94| .004 | .03                 | 1.13|.329 |
| Personality | Accept responsibility| −.28           | −2.92| .004 | .05                 | .85 |.663 |
| Personality | Escape avoidance      | .28            | 2.94| .004 | .09                 | 5.42|.006 |
| Personality | Planful problem solving| .24         | 2.49| .014 | .06                 | 1.26|.221 |
| Personality | Positive reappraisal  | .22            | 2.30| .024 | .02                 | 1.08|.388 |

The low correlations were consequently reflected by the lack of a substantial specificity of relationships between personality clusters and coping behaviours, by the small overlap between personality variables and coping scales in joint factor analyses, and by non-significant regression coefficients or coefficients of low effect size. However, there were several remarkable tendencies and some particularities caused by the predefined situation presented in the application of the WoC.
Table 4.
Multiple regressions with coping scales as independent and personality variables as dependent variables (1st row: method enter; further rows: method stepwise).

| Independent                  | Dependent  | Standardized β | t    | p   | Adjusted r² | F     | p   |
|------------------------------|------------|----------------|------|-----|-------------|-------|-----|
| Coping                       | NS1        | .37            | 3.80 | <.001 | .05         | 6.65  | .011|
| Planful problem solving      | Self control | −.35          | −3.58 | .001 | 10.11       | <.001 |
| Coping                       | NS2        | .04            | 4.6   | .879 |
| Coping                       | NS3        | .07            | 1.99  | .056 |
| Distancing                   | −.33       | −3.50          | .001  | 12.23 | .001        |
| Coping                       | NS4        | .10            | 1.14  | .346 |
| Coping                       | NS5        | .02            | 1.30  | .251 |
| Coping                       | HA1        | .02            | 1.29  | .259 |
| Distancing                   | −.20       | −2.04          | .044  | .03  | 4.14        | .044  |
| Coping                       | HA2        | −.19           | −2.09 | .039 | 15.96       | <.001 |
| Escape avoidance             | HA3        | .04            | 1.51  | .164 |
| Distancing                   | −.24       | −2.64          | .010  | .12  | 8.01        | .001  |
| Planful problem solving      | −.19       | −2.09          | .039  | .15  | 6.98        | <.001 |
| Coping                       | HA4        | .07            | 4.39  | .039 |
| Coping                       | RD1        | .12            | 8.25  | <.001 |
| Support seeking              | .19        | 2.14           | .035  | .15  | 7.22        | <.001 |
| Coping                       | RD3        | .06            | 1.78  | .090 |
| Coping                       | −.32       | −3.38          | .001  | .09  | 11.44       | <.001 |
| Accept responsibility        | −.25       | −2.51          | .014  | .08  | 4.02        | .048  |
| Confronting                  | .26        | 2.68           | .009  | .03  | 5.27        | .007  |
| Coping                       | RD3        | .09            | 2.22  | .033 |
| Self control                 | −.21       | −2.15          | .034  | .10  | 4.82        | <.001 |
| Coping                       | PS         | .02            | 1.22  | .296 |
| Coping                       | SD1        | .08            | 2.15  | .039 |
| Confronting                  | SD2        | .08            | 9.46  | .003 |
| Coping                       | SD3        | .06            | 1.88  | .072 |
| Escape avoidance             | −.32       | −3.36          | .001  | .09  | 11.27       | .001  |
| Coping                       | −.26       | −2.56          | .012  | .05  | 6.22        | .014  |
| Confronting                  | .29        | 2.87           | .005  | .09  | 6.06        | .003  |
| Planful problem-solving      | −.20       | −2.00          | .048  | .12  | 5.49        | .002  |
| Coping                       | SD5        | .13            | 2.93  | .006 |
| Coping                       | −.30       | −3.31          | .001  | .15  | 1.35        | <.001 |
| Escape avoidance             | SD         | .17            | 3.69  | .001 |
| Coping                       | CO1        | .15            | 18.57 | <.001 |
| Coping                       | CO2        | .02            | .725  | .669 |
| Coping                       | CO3        | .03            | 1.11  | .361 |
| Seeking support              | CO4        | .03            | 1.34  | .234 |
| Coping                       | CO5        | .06            | 4.02  | .048 |
| Coping                       | CO6        | .03            | 1.40  | .206 |
| Confronting                  | ST1        | .04            | 7.19  | .009 |
| Coping                       | ST2        | .03            | 5.4   | .825 |
| Positive reappraisal         | ST3        | .03            | 1.38  | .214 |
| Distancing                   | ST         | .03            | 1.42  | .199 |
| Self Control                 | −.20       | −2.08          | .040  | .10  | 6.42        | .002  |
| Coping                       | −.19       | −2.02          | .046  | .12  | 5.78        | .001  |
| Positive reappraisal         | −.28       | −2.68          | .009  | .06  | 1.80        | .086  |

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ility to social cues facilitating warm relationships and understanding of others’ feelings (RD) in combination with high responsibility for one’s own behavioural choices, reliability and trustworthiness (SD), high acceptance of other people, empathy, tolerance, compassion, and service-mindedness (CO), and highly relaxed, courageous, composed and optimistic feelings (HA) (Cluster 3).

Individuals in Cluster 4 were characterised by the most complex interplay of coping behaviours as well as of associated expressions of personality characteristics. Their coping efforts represented a combination of the highest tendencies in risk taking (confrontation), the highest commitment in trying to put things right (accept responsibility), the highest level of problem-focused efforts to alter the situation (problem solving), and the highest efforts to view the situation positively by focusing on their personal growth (positive reappraisal), associated with the most intense seeking of social support (support seeking), the lowest efforts to minimise the significance of the situation (distancing) and regulate their own feelings (self controlling). Consequently they are characterised by the highest level of excitability, exploration, enthusiasm, and impulsiveness (NS), the highest social sensitivity, emotional warmth, and sociability (RD), the highest identification with and acceptance of others, empathy, and compassion (CO), and the highest levels of patience, selflessness, and creativity (ST). The opposite emotional and behavioural tendencies in RD and ST might possibly determine the opposite coping tendencies relating to confronting coping, distancing, and positive reappraisal among those individuals grouped in cluster 1.

The highest efforts to regulate one’s own feelings and actions (self controlling), the most intense wishful thinking and tendencies to escape the situation (escape avoidance) combined with the lowest efforts in social support seeking (support seeking) were associated with the highest levels of cautiousness, fearfulness, nervousness, and discouragement (HA), the highest inactivity, unstableness, and unreliability (PS), the weakest, most destructive, ineffective, and unreliable behavioural tendencies (SD), as well as the most self absorbed, unhelpful, lacking empathy and compassion (CO) (cluster 5). This “selfish” coping style corresponds perfectly to the rather neurotic personality characteristics. Interestingly, most of the trainees in this cluster comprised about one sixth of the sample reporting relatively high alcohol consumption levels.

The complexity of the associations between personality characteristics and coping behaviour can be observed, for example, when analysing differences between trainees from cluster 1 compared to trainees in cluster 2. They both share the lowest scores on distancing and escape avoidance coping, but when these coping behaviours were associated with the lowest accept responsibility and positive reappraisal behaviours, the trainees are characterised by lowest HA, lowest RD, lowest ST, and highest SD (the latter seemingly an expression of overevaluation) (cluster 1), whereas the highest PS and lowest NS were related to the combination with the lowest planful problem solving.

Another example can be seen in the differentiation between trainees from cluster 3 and 4 who share the lowest scores on self controlling and highest scores on planful problem solving. When this condition was related to high SD and low HA, escape avoidance coping was rarely preferred (cluster 3). When it was related to very high confrontive coping and very high acceptance of responsibility, then highest scores on NS and ST were characteristic.

Unexpectedly, temperament subscales were mainly of predictive impact upon coping behaviours. However, acknowledging one’s own role in the problem (accept responsibility) was substantially determined exclusively by character subscales responsibility (SD1) and integrated conscience (CO5) reflecting reliability and trustworthiness combined with honesty and stable ethical principles. Confrontive coping in a sense of aggressive efforts to alter the situation and some risk taking was predicted by responsibility (SD1) combined with preference for intimacy in social relationships (RD3), whereas self control, in the sense of making an effort to regulate one’s own feelings and actions, was explained by compassion and benevolence combined with sentimentiality and sympathy (RD1).

Cognitive efforts to detach oneself from the problem or to minimise the significance of the situation (distancing) in combination with wishful thinking and behavioural efforts to escape from the situation or to avoid the problem (escape avoidance) were mainly predictive for temperamental subscales, particularly for HA subscales. Support seeking coping efforts were meaningfully predictive for the RD and CO subscales, whereas efforts to develop a positive meaning of the stress (positive reappraisal) substantially explained variance in ST subscales.

Summarising the findings of the present investigation we conclude that the detailed analysis of the complex interplay between coping and personality based on TCI subscales relating to a specific stressful, profession-related situation could make an important and meaningful contribution to the understanding of both phenomena in a particular group (police trainees) that may be generalisable to other samples and situations. However, the interpretation of the present findings is limited by the explorative nature of the study, the small sample size limiting the possibilities of statistical analysis. Even though the presentation of a standardised stressful situation as target stimulus for assumed personal coping behaviour implied the possibility of a direct comparison and group analysis on coping, the theoretical nature of the situation can be evaluated as a disadvantage of the study because of the many controllable variables that might have biased the responses to the WoC items (for example, the current emotional state of the trainee, prior experience of such a situation, or his or her ability to imagine the presented situation). Furthermore, the exclusive use of self report data certainly represents a limitation of the study.

Our findings support once again that 1) personality and coping are comprehensively interrelated (Fickova, 2001; McWilliams, Cox, & Enns, 2003; Murberg, 2009); 2) that some coping behaviours often jointly occur depending on the specific stressful situation, event or a class of events, and that these combinations are related to particular personality trait constellation; 3) that structural similarities exist between personality and coping; 4) that certain personality traits are likely to facilitate particular coping behaviours and, thereby affect coping strategy selection (Bolger & Zuckerman, 1995; Vollrath; 2001; Suls & Martin, 2005); but 5) our findings do not support the suggestion that coping responses are only epiphenomena of personality traits (McCrae & Costa 1986).

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