CHARACTERISTICS OF THE NURSING WORKFORCE

Emotional intelligence of mental health nurses

Loes RLC van Dusseldorp, Berno KG van Meijel and Jan JL Derksen

Aims. The aim of this study is to gain insight into the level of emotional intelligence of mental health nurses in the Netherlands.

Background. The focus in research on emotional intelligence to date has been on a variety of professionals. However, little is known about emotional intelligence in mental health nurses.

Method. The emotional intelligence of 98 Dutch nurses caring for psychiatric patients is reported. Data were collected with the Bar-On Emotional Quotient Inventory within a cross-sectional research design.

Results. The mean level of emotional intelligence of this sample of professionals is statistically significant higher than the emotional intelligence of the general population. Female nurses score significantly higher than men on the subscales Empathy, Social Responsibility, Interpersonal Relationship, Emotional Self-awareness, Self-Actualisation and Assertiveness. No correlations are found between years of experience and age on the one hand and emotional intelligence on the other hand.

Conclusions. The results of this study show that nurses in psychiatric care indeed score above average in the emotional intelligence required to cope with the amount of emotional labour involved in daily mental health practice.

Relevance to clinical practice. The ascertained large range in emotional intelligence scores among the mental health nurses challenges us to investigate possible implications which higher or lower emotional intelligence levels may have on the quality of care. For instance, a possible relation between the level of emotional intelligence and the quality of the therapeutic nurse–patient relationship or the relation between the level of emotional intelligence and the manner of coping with situations characterised by a great amount of emotional labour (such as caring for patients who self-harm or are suicidal).

Key words: emotional intelligence, mental health nurses, mental health nursing, nurse–patient relationship, psychological and social coping

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Introduction

Mental health care practice needs nurses and social workers who are capable of establishing meaningful nurse–patient relationships (Akerjordet & Severinsson 2004, Megens & van Meijel 2006, Edward & Warelow 2007, Hurley & Rankin 2008). However, the specific problems and behaviours of psychiatric patients, such as depression, anxiety, delusions, aggression, resistance, suicide, self-harm and mistrust, can cause severe emotional stress for nurses, who may even experience burnout when they must deal too often with feelings of anger, pity, fear, irritation and impatience. These emotions of nurses and the resulting behaviours may affect the quality of their relationship with the patients, especially in terms of communication, interaction, therapeutic collaboration and outcomes of treatment (Akerjordet & Severinsson 2004, Megens & van Meijel 2006). Mental health nurses perform a great deal of ‘emotional labour’ in their daily practice (Mann & Cowburn 2005). According to Hochschild (1983), emotional labour is about regulation of...
emotional expressions and feelings as part of the paid work role; managing emotions in specific situations in such a way that it will benefit either the situation as such or the patient. To perform this, emotional labour Cognitive intelligence (IQ) alone is not sufficient. Emotional intelligence (EQ) combines emotion with intelligence. It refers to the ability to use emotions as a support in problem-solving and decision-making, as well as helping one to live a fulfilled life (Mayer & Salovey, 1995). It is also an essential factor in the process of coping with the intense emotional situations that occur in the daily work of mental health nurses and therefore supportive in performing emotional labour (Mayer et al. 2001, McQueen 2004, Megens & van Meijel 2006, Augusto & Montes-Berges 2007, Edward & Warelow 2007).

Emotional intelligence

The concept of emotional intelligence is relatively young. Three trends can be distinguished in literature; the Ability Model by Salovey and Mayer, the Trait Model by Goleman and the Mixed Model by Bar-On.

Salovey and Mayer were the first to introduce the concept of emotional intelligence. In 1990, they defined emotional intelligence as ‘the ability to monitor one’s own and others’ feelings and emotions, to discriminate among them and to use this information to guide one’s thinking and actions’ (Mayer et al. 2001). They divided emotional intelligence into four areas of skills: (1) perceiving emotions, (2) using emotions to facilitate thoughts, (3) understanding emotions and (4) managing emotions in a way that enhances personal growth and social relations.

Goleman (1996) popularised the construct. He is the most prominent representative of the Trait Model, where emotional intelligence is defined as a combination of personality traits.

Bar-On (1997) defined emotional intelligence as ‘an array of non-cognitive capabilities, competencies and skills that influence one’s ability to succeed in coping with environmental demands and pressures’. As an intermediate model, this Mixed Model is based on the premise that emotional intelligence and emotional skills develop over time, change throughout the course of life and can improve via training and remediation. The main tool in most of today’s research on emotional intelligence is the Emotional Quotient Inventory (EQ-i) (where the emotional intelligence score is measured as EQ), a self-report questionnaire which divides emotional intelligence into five components (composite scales) and 15 subcomponents (content subscales) (Bar-On 1997).

We conclude that emotional intelligence is of great importance to the ability to cope with the intense emotional situations which mental health nurses encounter in their daily work (Mayer et al. 2001, McQueen 2004, Megens & van Meijel 2006, Augusto & Montes-Berges 2007). In fact, emotional intelligence is a prerequisite of key nursing skills like sensitivity, empathy, creativity, self-awareness, self-control and assertiveness.

Nonetheless, little is known in the Netherlands about emotional intelligence in mental health care workers. The focus in research on emotional intelligence to date has been on a variety of other professional groups, such as managers, teachers, recruiters and policemen (Derksen 1999). Of the overall group of health care professionals, only medical doctors and psychologists have been the subject of general research on emotional intelligence. There is one study on emotional intelligence in the context of nursing, with the group of nurses analysed there being confined to nurses tending to people with mental retardation and severe behaviour problems (Gerits et al. 2004). In this present exploratory study, we have expanded the group to mental health nurses in the Netherlands.

Method

Design

A cross-sectional, hypothesis-testing research design was used as the basis for this study.

Hypotheses

EQ in general

Considering the amount of emotional labour required in psychiatric care, mental health nurses should have an above-average EQ. This led to the following hypothesis: the mean level of emotional intelligence in mental health nurses is significantly higher than that of the general population.

EQ and gender differences

Based on general differences in gender – noted by Derksen et al. (1997) and by Derksen et al. (2002) – we expected to find significant differences in EQ between male and female mental health nurses, both on the EQ total score and on the composite scales and content subscales (Table 1). We were specifically interested in differences emerging from the Stress Management Composite Scale. Based on gender specificities, male nurses were expected to perform better in coping with stressful situations than their female counterparts. Furthermore, it was evident from research among various groups of professionals (Derksen 1999) that females scored higher on interpersonal aspects such as Empathy, Social Responsibility and Interpersonal Relationships.
Therefore, our hypotheses were: (1) there are significant
differences in EQ between male and female mental health
nurses on both the EQ total score and on the composite scales
and content subscales and (2) males score significantly higher
on the Stress Management Composite Scale than females, and
females have significantly higher scores on the Empathy,
Social Responsibility and Interpersonal Relationships Sub-
scales of the Interpersonal Composite Scale than their male
counterparts.

**EQ and setting**

A great deal of emotional labour is required in situations
marked by high levels of daily and interactional stress
(Mann & Cowburn 2005). Considering the frequency and
intensity of emotional and social contacts between nurses
and patients in a clinical setting, our assumption was that
inpatient care was more stressful than outpatient care.

To cope with the emotional labour involved, we hypo-
thesise that mental health nurses in inpatient settings
score significantly higher on the Stress Management Com-
posite Scale than their colleagues working in outpatient
settings.

**EQ, age and experience**

Previous research has shown that a relationship exists
between EQ and age (Derksen 1999): people between
30–60 years of age show higher EQ levels than the age
groups under 30 and over 60. Our assumption was that
this finding would also be valid for the group of mental
health nurses. Also, in addition to age, years of experience
appear to have an impact on the level of emotional intel-

lice (Humpel & Caputi 2001). We expected to find a
significant positive correlation between EQ and years of
experience. Both assumptions led towards the following
hypothesis: a significant positive correlation exists between
years of experience and age on the one hand and emotional
intelligence on the other.

**Participants**

In 2007, a total of 19,500 nurses were active in Dutch mental
health practice (LEVV 2008), which equals 14% of the
overall population of (practising) Dutch nurses.

For sampling purposes, the researchers resorted to the
population of nurses \( n = 750 \) in one large Dutch institute
for psychiatric care. The institute is located in the middle
of the country and comprises both rural and urban
districts.

To include nurses with daily face-to-face contacts with
patients, we first excluded nurse managers. Because one of
our hypotheses focused on the difference between in- and
outpatient settings, we subsequently excluded nurses in day
care centres. Previous research (Derksen 1999) revealed that
there was no clear relationship between EQ and the level of
education. Therefore, we included the remaining population
\( n = 689 \) without making any further distinction between
educational levels.

The remaining population (female, \( n = 470 \) and male,
\( n = 219 \); inpatient care, \( n = 547 \) and outpatient care,
\( n = 142 \)) was divided into four strata: (1) inpatient care +
male; (2) inpatient care + female; (3) outpatient care + male
and (4) outpatient care + female. To compare the four strata,
each stratum was to comprise at least 25 participants (Baarda
et al. 2003). This small sample size was sufficient because
stratification leads to relatively high homogeneity in the
sample (Polit & Beck 2004). To ensure a total sample of at
least 100 participants, taking into account a potential 30%
non-response rate, we included 40 participants in each
stratum. Through systematic sampling (Polit & Beck 2004)
—establishing a sampling interval width for each of the strata
and selecting every \( k \)th case from the individual group lists—
160 respondents were randomly selected, i.e. 40 for each
stratum.

Data were collected between February–March 2007. Of
the overall sample size, 98 mental health nurses responded
(response rate: 61.3%). Table 2 shows that the sample was
equally divided in terms of gender and setting. The partic-
ips’ educational levels were as follows: 46.3% had
followed basic vocational training as a psychiatric nurse;
the remaining 53.7% had completed an advanced training
course. The average age of the 98 participants was 43 (SD
their average number of years of experience in mental health care was 17.3 (SD 9.5).

**Instrument**

The Dutch version of the Bar-On EQ-i (Bar-On 1997, Derksen et al. 1997) was used in this study to measure emotional intelligence. Compared to other EQ instruments, the Bar-On EQ-i is the instrument with the best psychometric properties available in the Dutch language. Table 1 presents the composite scales and content subscales of the Bar-On EQ-i. In addition to these (sub)scales, two validity scales were used to identify overly positive or overly negative self-representations. A response-consistency score card was employed to indicate the validity of the results.

The Bar-On EQ-i contains 133 numbered statements in the form of sentences such as 'I know how to stay calm in difficult situations'. The response categories range from 1 (never)–5 (very often). Completion of the Bar-On EQ-i takes 30–40 minutes. Similar to IQs, EQ raw scores are converted to standard scores with 100 as the mean. The interpretation of the total score is shown in Table 3.

There is evidence in support of the reliability and validity of the inventory. The average Cronbach’s alpha (reliability index that estimates the internal consistency) has been found to range from 0.69–0.86 for the different subscales. The inventory’s stability was evaluated by test–retest reliability. Average coefficients after one and four months were found to be 0.85 and 0.75, respectively. The construct validity was examined in 16 countries and support has been found for the Bar-On EQ-i to cover a broad range of related emotional constructs (Dawda & Hart 2000).

**Data collection**

All participating nurses received a letter where they were asked to take part in this cross-sectional study. The letter contained information about the aim of the study, the research methods, the selection method and issues such as confidentially, voluntary consent and contact information. Participants who completed and returned the Bar-On EQ-i were considered to have given informed consent. Most nurses who were unwilling to respond made this clear by sending a return email. All other non-responders were approached separately by email with the request to state why they were unwilling to cooperate.

**Data analysis**

The scores on the Bar-On EQ-i were validated by filtering for unanswered questions, consistency (Inconsistency Index >12), positive impression (Positive Impression Score >130) and negative impression (Negative Impression Score >130). Subsequently, raw scores were converted to standard scores to make interpretation feasible. Next, data were analysed on the basis of descriptive statistics. For a comparison between the average scores within and between the various groups, t-tests, Mann–Whitney U-tests and one-way ANOVA were computed. Bivariate correlations and multiple regressions were computed between EQ on the one hand and age and years of experience on the other. For all tests, an alpha of 5% was established.

**Results**

**EQ in general**

**Hypothesis**

The mean level of emotional intelligence in mental health nurses is significantly higher than that of the general population.

The mean EQ total of the sample was 108.76 (SD 11.58, range = 80–136). Comparing this score with the mean EQ of the Dutch population (100), we concluded that nurses working in psychiatric care scored significantly higher than this average ($t = 7.48, df = 97, p < 0.001$). Because the male–female ratio in the sample was disproportionate, we
weighted the data of these two subgroups to achieve the best estimate for the overall population values. The weighted mean EQ total of the sample was 109.74. This finding supports the hypothesis that mental health nurses score significantly higher on EQ than the average population.

EQ and gender differences

Hypothesis
There are significant differences in EQ between male and female mental health nurses on both the EQ total score and on the composite scales and content subscales. Males score significantly higher on the Stress Management Composite Scale than females, and females have significantly higher scores on the Empathy, Social Responsibility and Interpersonal Relationships Subscales of the Interpersonal Composite Scale than their male counterparts (Table 1).

No significant differences in the EQ total score were found between male and female nurses (Table 4). However, some interesting differences were found at the level of the composite scales and content subscales. Contrary to what was expected, the scores of male and female nurses on the Stress Management Composite Scale were almost equal. The results (Table 4) revealed no significant differences between the two genders. This part of our hypothesis was invalidated. However, compared with their male colleagues, female nurses did score significantly higher on both the Interpersonal Composite Scale and the Interpersonal Relationships Subscale. The difference in score found on the Social Responsibility Subscale was not statistically significant. Finally, as shown in Table 4, female nurses also scored significantly higher than their male colleagues on the Emotional Self-awareness Subscales.

EQ and setting

Hypothesis
Mental health nurses in inpatient settings score significantly higher on the Stress Management Composite Scale than their colleagues working in outpatient settings.

To test this hypothesis, we compared the mean EQ scores between the two groups. No significant difference, however, was found for this specific EQ composite scale \(t = -0.19, \text{ df } = 96, p = 0.853\). Therefore, no support was found for our hypothesis that mental health nurses working with inpatients are more intelligent in handling Stress Management than their colleagues in outpatient care.

<table>
<thead>
<tr>
<th>Scale</th>
<th>Male Mean</th>
<th>Male SD</th>
<th>Female Mean</th>
<th>Female SD</th>
<th>t</th>
<th>df</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>107.15</td>
<td>12.64</td>
<td>110.30</td>
<td>10.36</td>
<td>-1.35</td>
<td>96</td>
<td>0.181</td>
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<td>Intrapersonal</td>
<td>105.60</td>
<td>11.58</td>
<td>109.16</td>
<td>10.26</td>
<td>-1.61</td>
<td>96</td>
<td>0.111</td>
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<td>Emotional self-awareness</td>
<td>107.85</td>
<td>10.31</td>
<td>116.88</td>
<td>8.56</td>
<td>-4.69</td>
<td>96</td>
<td>0.000*</td>
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<td>Assertiveness</td>
<td>105.79</td>
<td>10.84</td>
<td>108.62</td>
<td>12.21</td>
<td>-1.21</td>
<td>96</td>
<td>0.228</td>
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<td>Self-regard</td>
<td>104.33</td>
<td>10.93</td>
<td>102.92</td>
<td>10.26</td>
<td>0.66</td>
<td>96</td>
<td>0.511</td>
</tr>
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<td>Self-actualization</td>
<td>100.88</td>
<td>13.33</td>
<td>105.08</td>
<td>12.31</td>
<td>-1.62</td>
<td>96</td>
<td>0.108</td>
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<td>Independence</td>
<td>102.52</td>
<td>12.16</td>
<td>102.18</td>
<td>9.48</td>
<td>0.15</td>
<td>96</td>
<td>0.878</td>
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<td>Interpersonal</td>
<td>102.52</td>
<td>9.55</td>
<td>108.80</td>
<td>9.42</td>
<td>-3.28</td>
<td>96</td>
<td>0.001*</td>
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<td>Empathy</td>
<td>100.10</td>
<td>8.39</td>
<td>103.22</td>
<td>10.48</td>
<td>-1.63</td>
<td>96</td>
<td>0.107</td>
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<td>Interpersonal relationship</td>
<td>105.17</td>
<td>9.80</td>
<td>111.86</td>
<td>9.24</td>
<td>-3.48</td>
<td>96</td>
<td>0.001*</td>
</tr>
<tr>
<td>Social responsibility</td>
<td>97.79</td>
<td>10.21</td>
<td>101.86</td>
<td>10.01</td>
<td>-1.95</td>
<td>96</td>
<td>0.054</td>
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<td>Adaptability</td>
<td>105.35</td>
<td>14.01</td>
<td>107.78</td>
<td>10.06</td>
<td>-0.98</td>
<td>96</td>
<td>0.329</td>
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<td>Problem-solving</td>
<td>100.54</td>
<td>8.86</td>
<td>99.60</td>
<td>9.98</td>
<td>0.49</td>
<td>96</td>
<td>0.622</td>
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<td>Reality testing</td>
<td>106.10</td>
<td>13.62</td>
<td>109.38</td>
<td>11.15</td>
<td>-1.30</td>
<td>96</td>
<td>0.197</td>
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<td>Flexibility</td>
<td>105.38</td>
<td>15.48</td>
<td>107.98</td>
<td>10.57</td>
<td>-0.93</td>
<td>96</td>
<td>0.354</td>
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<td>Stress management</td>
<td>112.21</td>
<td>12.89</td>
<td>109.60</td>
<td>10.51</td>
<td>1.10</td>
<td>96</td>
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<td>Stress tolerance</td>
<td>110.38</td>
<td>11.63</td>
<td>107.94</td>
<td>8.88</td>
<td>1.16</td>
<td>96</td>
<td>0.248</td>
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<td>Impulse control</td>
<td>108.67</td>
<td>11.65</td>
<td>106.98</td>
<td>11.89</td>
<td>0.71</td>
<td>96</td>
<td>0.480</td>
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<td>General mood</td>
<td>104.27</td>
<td>13.05</td>
<td>107.60</td>
<td>10.07</td>
<td>-1.41</td>
<td>96</td>
<td>0.162</td>
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<td>Happiness</td>
<td>103.63</td>
<td>13.38</td>
<td>106.76</td>
<td>11.09</td>
<td>-1.26</td>
<td>96</td>
<td>0.211</td>
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<td>Optimism</td>
<td>104.00</td>
<td>11.52</td>
<td>106.66</td>
<td>9.68</td>
<td>-1.24</td>
<td>96</td>
<td>0.220</td>
</tr>
</tbody>
</table>

n = 48 male and 50 female.

*p < 0.05.
EQ, age and experience

Hypothesis
A significant positive correlation exists between years of experience and age on the one hand and emotional intelligence on the other.

First, we compared the mean EQ total scores to test whether nurses between 30–60 years of age showed higher EQ levels than nurses under 30. Because the two groups were unequally matched (< 30 years, n = 8/30–60 years, n = 90), a z-score was computed. No significant differences were found (z = -0.41, p = 0.68). Therefore, we found no support for our hypothesis that mental health nurses between 30–60 years of age are more intelligent, emotionally, than their younger or older colleagues. To test whether a high level of emotional intelligence correlates with work experience, we computed the correlations for the EQ total and the years of experience. No significant correlation was found (r = 0.022, p = 0.831). This hypothesis was invalidated, as well. Finally, to determine whether the emotional intelligence in mental health nurses increased according to age and experience, we applied multiple regression. The regression analysis showed no significant results (F = 0.278, df = 2, p = 0.758) which underscored the previous finding that there is no relationship between EQ, age and experience among nurses in psychiatric care.

Discussion
To establish a meaningful nurse–patient relationship, nurses must be able to manage and monitor both their own emotions and those of others. Therefore, a high level of emotional intelligence will generally be required to cope with the amount of emotional labour involved in daily mental health practice. The results of this study show that nurses in psychiatric care in the Netherlands are indeed of above-average emotional intelligence.

Although no significant differences between men and women were found on the EQ total score, the composite scale profiles showed some interesting gender differences. In contrast with the general finding by Derksen (1999) that men are better at stress management than women, we found no significant difference between male and female nurses in this study. The average scores on the Stress Management Composite Scale showed high and well-developed stress management skills for both genders. In other words, the genders are equally able to control a situation by undertaking appropriate action and neither gender gets overwhelmed by anxiety, uncertainty, frustration or anger. Mann and Cowburn (2005) discuss the relationship between professional acting and stress management with reference to Hochschild’s concepts of Deep Acting and Surface Acting (Hochschild 1983). Deep Acting means that a professional recognises his/her own experiences and inner feelings in a given situation and is able to manage and display the related emotions according to his/her own preferences. In Surface Acting, on the other hand, the management of personal behaviour dominates the expression of personal feelings. In Surface Acting, control of emotions and behaviour is more important than the expression of personal feelings. Mann and Cowburn (2005) concluded that Surface Acting and stress were positively correlated. The fact that in our study mental health nurses appeared to have well-developed stress management skills suggests that they use Deep Acting as their dominant method of performing emotional labour.

In our study, the female nurses scored significantly higher on the Emotional Self-awareness Subscale scale than their male counterparts. This score is in line with the findings of Derksen (1999) and suggests that compared to male nurses, female nurses in psychiatric care are better capable of recognising and understanding their own feelings. By contrast, Gerits et al. (2004) concluded in their study on emotional intelligence in nurses caring for people with mental retardation and accompanying severe behaviour problems that there was no significant difference between male and female nurses on this Emotional Self-awareness Subscale (Gerits et al. 2004). They did, however, observe that male nurses scored significantly higher on the Intrapersonal Composite Scale and the Assertiveness and Self-regard Subscales. In our study, no such differences were found. Considering the finding by Derksen (1999) that men scored (slightly) higher on the Assertiveness Content Subscale, we were amazed to find no significant difference between male and female nurses in our study.

In line with the findings of Derksen (1999), female nurses scored higher on the Interpersonal Composite Scale and the Interpersonal Relationships Content Subscale. This indicates that female nurses in this study are, generally, of higher Emotional intelligence when it comes to interpersonal relations than their male counterparts. Female nurses specifically tend to be better at establishing and maintaining satisfying relationships (Derksen 1999, Gerits et al. 2004).

Finally, in contrast to Humphel and Caputti (2001) and Derksen (1999), we found no correlation between EQ, age and years of experience among nurses in psychiatric care. One reason for this finding might be that psychiatric care attracts people who are by nature of above-average emotional intelligence when embarking on a career in psychiatry. However, emotional intelligence is not a static feature of nurses; it can be developed and trained over time (Bar-On et al. 2010).
Characteristics of the nursing workforce

Emotional intelligence of mental health nurses

Evans and Allen (2002), Freshwater and Stickley (2004) and Hurley and Rankin (2008) support this by stating that integrating emotional intelligence into nursing education provides nurses with a greater opportunity to understand themselves and the way they develop relationships with others. These studies imply that although mental health nurses may have high EQ levels in and of themselves, that trait should not be taken for granted. Instead, training and developing EQ should be incorporated into nursing curricula to improve the level of EQ in school. This may benefit therapeutic relationships in later professional life and add to better outcomes of nursing care.

Limitations

Non-response bias is a limitation of this study. Reasons for not completing the inventory were: no faith in the usefulness of the study, no time to answer the inventory because of heavy workloads and no appreciation for the information letter. We assume that the reasons and non-response rate (32.5%) may have affected the EQ scores, whether positively or negatively. For example, the stated reason of ‘having no time because of heavy workloads’ may well form an indication that these persons would have scored lower on the Empathy and Social Responsibility Subscales. Non-inclusion of this lower score in our study may have had a positive effect on the EQ total score. Conversely, the same reason can also be interpreted as assertiveness, triggering a higher score on the Assertiveness and Independence Subscales. Non-inclusion of this score may have affected the EQ total score in a negative way.

To compare different variables in this study, we used stratified sampling. Based on the four strata, we were able to draw conclusions about the differences in gender and setting, but because of the disproportional stratified sampling, these conclusions cannot be generalised automatically to the total population. The strength of this study lies in the generalisability of the overall (EQ total) findings. In light of the number of respondents, the response rate and the geographical spread, we had access to a representative sample whose characteristics are, with a fair amount of certainty, comparable with those of the population of the institute as well the Dutch population of mental health nurses.

Conclusions and recommendations to clinical practice

At the heart of the present study lies the level of emotional intelligence possessed by mental health nurses in the Netherlands. As expected and as is necessary to cope with the intense emotional situations occurring in daily mental health practice, mental health nurses in the Netherlands have an above-average level of emotional intelligence. As argued before, we recommend that training and developing EQ should be incorporated into nursing curricula to improve the level of EQ. This may benefit therapeutic relationships in later professional life and add to better outcomes of nursing care.

Although no correlation was found between EQ, age and years of experience and the mean EQ level was above average, we did find a large range in the EQ total scores (range = 80–136). Because we do not know the exact implications that higher or lower EQ levels may have for the quality of a therapeutic relationship, we recommend that this relation be examined in greater depth in future nursing research. We also recommend follow-up research to clarify the meaning of emotional intelligence in situations that are marked by a great amount of emotional labour, such as the caring for patients who self-harm or are suicidal.

Acknowledgements

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Contributions

Study design: LvD; data collection and analysis: LvD and manuscript preparation: LvD, BvM and JD.

Conflict of interest

Authors have no financial or personal interests in products, technology of methodology mentioned in this manuscript.

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