

# VU Research Portal

## Collaborative Care for patients with severe personality disorders

Stringer, B.

2013

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

Stringer, B. (2013). *Collaborative Care for patients with severe personality disorders: Challenges for the nursing profession*.

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

*Perceived need for care and health care utilization among depressed and anxious patients with and without suicidal ideation.*

Barbara Stringer  
Berno van Meijel  
Merijn Eikelenboom  
Bauke Koekkoek  
Peter Verhaak  
Ad Kerkhof  
Brenda Penninx  
Aartjan Beekman

*Published in Crisis 2013, vol. 34(3), p. 192-199*

## ABSTRACT

### Background

Information about perceived needs and the amount of health care utilization of persons with suicidal ideation (SI) compared to those without SI is scarce.

### Aims

To describe needs and health care use of persons with and without SI and investigate whether these differences are associated with severity of the axis-I symptomatology.

### Methods

Data were obtained from 1699 respondents with a depressive and/or anxiety disorder who participated in the Netherlands Study of Depression and Anxiety. Persons with and without SI were distinguished. Outcome variables were perceived needs and health care utilization. We used multivariate regression in two models: (1) adjusted only for socio-demographic variables and (2) additionally adjusted for severity of axis-I symptomatology.

### Results

Persons with SI had higher odds for both unmet and met needs in almost all domains and made more intensive use of mental health care. Differences in needs and health care utilization of persons with and without SI were strongly associated with severity of axis I symptomatology.

### Conclusions

Our results validate previous findings about perceived needs and health care use of persons with SI. The results also suggest that suicidal persons are more seriously ill and that they need more professional care, dedication and specialized expertise than anxious and depressed persons without SI, especially in the domains of information and referral.

## Introduction

Worldwide approximately one million people die from suicide each year, which makes suicide an important public health issue in many countries (Bertelote and Fleischmann, 2009). Suicidal ideation is a necessary, yet no unique, predictor for future suicidal behaviour (Ten Have et al, 2009; Ten Have et al, 2011). Several studies reveal that anxiety and depressive disorders increase the risk for suicidal ideation, suicide attempts and completed suicide (Angst et al, 1999; Sareen et al, 2005a; Ten Have et al, 2009). Previous work also suggests that patients with suicidal ideation are likely to experience more needs, both unmet and met, than those without suicidal ideation, whether or not they have actually contacted mental health services (Pirkis et al, 2001a, 2001b; Sareen et al, 2005b; Brook et al, 2006; Pagura et al, 2009). However, the quantity of mental health care contacts is not taken into account, while there may be differences in non-consumers, moderate consumers and high consumers of mental health care. And although there are studies which thoroughly investigate the specific type of perceived needs among depressed and anxious persons, few studies provide detailed information about the needs of suicidal persons in particular (Pirkis et al, 2001a; Pagura et al, 2009). Perceived needs are defined as the patient's perception that one needed a kind of professional help. Perceived needs can be subdivided in no needs, unmet needs or met needs (Meadows et al, 2000). Unmet needs are a strong predictor of low quality of life, negative health perceptions and health expenses (Slade et al, 1999; Slade et al, 2004; Wiersma, 2006). Health care is more likely to be effective if it meets the perceived needs of patients.

In case of suicidal persons it seems, however, difficult to meet their needs, despite their frequent contacts with (mental) health care providers. There might be several explanations for the difficulty in meeting their needs. Studies have shown that suicidality in patients is associated with perceived lack of knowledge, understanding of, and empathy with suicidal behaviour among (mental) health care professionals (Taylor et al, 2009). Their fear of a suicide may provoke feelings of powerlessness or excessive responsibility, each of which may have negative consequences for the therapeutic relationship (Hendin et al, 2006; Jobes, 2006; Goldblatt and Waltsberger, 2009). These cognitions or interaction problems may have their influence on help-seeking or perceived needs. Additionally, suicidal persons experience attitudinal barriers to seeking help, such as shame, hopelessness, trying to solve problems alone, fear of stigma, etc. (Bruffaerts et al, 2012). One other possible explanation, however, is that the driver for unmet needs is not the suicidal ideation itself, but the severity of the axis-I symptomatology. For clinical practice it is important to have an answer to this matter because of its implications for treatment. If this last explanation is true, effective treatment should focus more strongly

on the severity of the anxiety and depressive disorders.

For the present study, the objective is two-fold. At first, we describe the perceived needs of care and health care utilization of persons with and without suicidal ideation. Secondly, we aim to examine whether severity of the axis-I symptomatology explains the differences in perceived needs and health care utilization between persons with and without suicidal ideation.

## Methods

### *Study sample*

The Netherlands Study on Depression and Anxiety (NESDA) (Penninx et al, 2008) is designed as an ongoing 8-year longitudinal cohort study, to investigate the long-term course of depression and anxiety disorders over a period of eight years. The baseline data of the NESDA study provide the opportunity to study a large cohort of depressed and/or anxious respondents with and without suicidal ideation. This baseline assessment was conducted in 2004-2007. A total of 2981 respondents were recruited, including healthy controls. Participants (age 18-65) were recruited from the community (19%), primary care (54%) and specialized outpatient mental health care facilities (27%). This was deliberately chosen in order to represent depression and anxiety at different levels of severity and development. In the Netherlands financial barriers regarding access to health care services are limited, because each citizen has a compulsory insurance. The community-based participants had previously been identified in a population-based study. Primary care participants were identified by a screening procedure conducted among a random sample of patients of 65 General Practitioners. This screening procedure was conducted irrespective of the reason for consultation. In the Netherlands, the general practitioner serves as the gatekeeper and referrals are necessary to access specialized mental health care. The mental health-care participants were recruited consecutively when newly enrolled at one of the 17 participating mental health organization locations.

All respondents took part in a four-hour assessment including e.g. psychopathology, demographic and personal characteristics and psychosocial functioning. Persons with insufficient command of the Dutch language or a primary clinical diagnosis of bipolar disorder, obsessive-compulsive disorder, substance use disorder, psychotic disorder or organic psychiatric disorder, as reported by them or their mental health practitioner, were excluded. The research protocol was approved by the Ethical Committee of participating universities and all respondents provided written informed consent. A more detailed description of the NESDA study is provided elsewhere (Penninx et al, 2008).

For the present study we included the 1701 respondents at baseline with a current (last 6 month) depressive (MDD or dysthymia) or anxiety disorder (panic disorder, generalized anxiety disorder, agoraphobia or social phobia). The healthy controls were excluded. Approximately forty-five percent were derived from primary health care, another forty-five percent from specialized mental health care, and ten percent were derived from the community. The depressive and anxiety disorders were assessed with the Composite International Diagnostic Interview (CIDI), which classifies diagnoses according to DSM-IV criteria (WHO, 1998; APA, 2001). The CIDI is frequently used worldwide and it has acceptable reliability and validity (Wittchen, 1994). Specially trained clinical staff conducted the CIDI interviews. Two respondents were excluded because of missing items on the Scale for Suicidal Ideation (SSI) (Beck et al, 1979). So, 1699 respondents remained in the sample.

*Table 1: Levels of perceived need and questionnaire phrasing*

<b>Level of perceived need</b>	<b>Questionnaire phrasing</b>
No need	Has a mental health problem but did not perceive that they needed this type of help, and received no service of this type.
Unmet need	Perceived that they needed this type of help, but received no service or not as much as they perceived they needed.
Met need	Received this type of help, and received as much as they perceived they needed.

*Measures*

*Suicidal ideation*

Suicidal ideation, as the predictor variable, was assessed at baseline with the first five items of the Beck Scale for Suicidal Ideation (SSI) making use of a semi-structured interview (Beck et al, 1979). The following five statements were assessed: wish to (1) live or (2) die, (3) reasons for living or dying, (4) desire for an active suicide attempt, (5) passive suicide behaviour. This fifth statement asked whether or not someone will save his life when faced with a life-threatening event. Items were scored with zero, one or two, with higher scores indicating more severe suicidal ideation. Reverse scored items were recoded. To distinguish between

respondents without and with suicidal ideation, we made use of a binary variable, derived from the SSI; if any of the five items was scored as one or two, then respondents were assessed as having suicidal thoughts the week before assessment.

### *Needs*

The Perceived Need for Care Questionnaire (PNCQ) was used as one of the two outcome variables. The PNCQ collected information about the past six months. It addresses five types of perceived needs: (1) information about mental illness, its treatment and available services; (2) medication; (3) counseling or therapy to get insight in causes of the illness and learn to cope with the illness; (4) practical support or help to sort out housing or financial problems; (5) skills training (Meadows et al, 2000). In addition to the original version of the PNCQ, referral was added because of the Dutch health care organization in which the general practitioner functions as a gatekeeper for specialized mental health care (Prins et al., 2009; Prins et al., 2010). With the PNCQ three levels of needs were distinguished: (1) no need, (2) unmet needs and (3) met needs (see **Table 1**).

### *Health care use*

Health care use was the second outcome variable. It was measured with the Trimbos/iMTA Questionnaire for Costs Associated with Psychiatric Illness (TiC-P) (Hakkaart-van Roijen, 2002). With the TiC-P respondents were asked which health care providers they visited during the last six months and how often they visited them. All contacts with a general practitioner were assessed, in which contacts because of a mental problem (binary variable (yes/no) were examined separately. Contact with mental health care providers included primary mental health care providers (psychologist, social worker or community mental health nurse, independent psychiatrist or psychotherapist) and/or a (community) mental health center. These contacts were first described with a binary variable (yes/no). Additionally, to assess the quantity of health care utilization of both primary and specialized mental health care providers, a categorical variable was computed with three groups: (1) no contact with one of these mental health care providers; (2) one to six contacts during the last six months; and (3) more than six contacts during the last six months. The rationale to distinguish these three categories is based on the fact that contact with mental health care providers with a frequency up to once a month is a relatively standard frequency for patients with a depressive or anxiety disorder (Fernandez et al, 2007; Wang et al, 2007).

### *Covariates*

Analyses were adjusted for potentially confounding socio-demographic characteristics, which include age, sex, education (years), and living with a part-

ner (yes/no). To adjust for severity of the axis-I symptomatology, the Inventory of Depressive Symptomatology (IDS) was used as a measure of severity of depression (Rush et al, 1996). The IDS includes an anxiety symptom subset and is highly correlated with the Beck Anxiety Inventory ( $r=.78$ ) (Beck et al, 1988). The IDS is a 28-item self-report scale of which we used the IDS sum score as a measure of severity of depressive symptoms. In the IDS the one item that refers explicitly to suicidal ideation, was deleted to prevent overcorrection for suicidal ideation. The remaining 27 items have a range from 0-81. Analyses were also adjusted for co-morbidity (both depression and anxiety disorder last 6 month) which is an additional measure of the severity of axis-I symptomatology.

### *Statistical analyses*

Descriptive and inferential statistics (2-tests or t-tests) were used to compare characteristics of respondents without (non suicidal ideation group – NSI group) and with suicidal thoughts (suicidal ideation group – SI group). To answer our research question, each multinomial or logistic regression analysis was tested with two models: Model 1 was adjusted only for socio-demographic variables and Model 2 was additionally adjusted for severity of axis-I symptomatology with the IDS sum score and for comorbidity (both a depressive and anxiety disorder).

To examine the association between suicidal ideation and perceived needs, multinomial regression analyses were used with the group ‘no needs’ as the reference group. Next, the association between suicidal ideation and contact with different mental health care providers was examined with logistic regression models. Additionally, a multinomial regression analysis was performed to describe the association between suicidal ideation and the amount of health care use with odds ratios for 1-6 contacts and more than six contacts, with ‘no contact’ as reference group. All analyses were performed using SPSS version 15.0.

## **Results**

### *Socio-demographic and clinical characteristics*

The mean age of our total sample was 41.3 years (SD 12.35) and about two thirds were women (Table 2). Those with SI were less likely to be diagnosed with a single anxiety disorder and more likely to have comorbid depression and anxiety disorders (66.2% versus 39.7%;  $\chi^2 [2, n=1699] = 92.81, p < .001$ ). This probably reflects severity, as the SI group also had a significantly higher mean IDS score (38.3 versus 26.4;  $t=-17.11, p < .001$ ).



Table 2: Socio-demographic and clinical characteristics

Characteristics	NSI group (n= 1374)	SI group (n = 325)	P*
Age (years, $\pm$ SD)	41.43 (12.41)	40.63 (12.08)	.30
Female (%)	937 (68.2)	203 (62.5)	.06
Education level attained (years, $\pm$ SD)	11.84 (3.26)	11,53 (3.28)	.13
Partner status (% no partner)	855 (62.2)	209 (64.3)	.49
Psychiatric disorders (%)			<b>&lt;.001</b>
Current depressive disorder only	323 (23.5)	72 (22.2)	
Current anxiety disorder only	505 (36.8)	38 (11.7)	
Current depressive and anxiety	546 (39.7)	215 (66.2)	
IDS (mean, SD)	26.4 (11.4)	38.3 (10.6)	<b>&lt; .001</b>

\* Note that bold figures are significant,  $p \leq 0.05$ .

### Perceived needs

Respondents with suicidal ideation had significantly higher odds for any unmet and met needs ( $OR_{unmet}$  5.81; 95% CI 3.19-10.58 and  $OR_{met}$  2.86; 95% CI 1.49-5.47) as can be seen in **Table 3**. This was however largely explained by the severity of the axis-I symptomatology. The adjusted risks for unmet and met needs were no longer significant when adjusting for severity. When looking at specific needs suicidal respondents did have higher odds for all unmet needs (OR's varying between 3.51 and 1.72). The OR's of met needs were elevated for respondents with suicidal ideation in the domains of information, medication, referral and counseling. After adjusting for socio-demographics and severity of the axis-I symptomatology the differences in both unmet and met needs disappeared, except the unmet needs in the domains information and a referral ( $AOR_{info}$  1.68; 95% CI 1.51-2.47 and  $AOR_{ref}$  1.73; 95% CI 1.19-2.50).

Table 3: The association between suicidal ideation and perceived needs

Needs <sup>1</sup>	NSI N (%)	SI N (%)	OR <sup>2</sup>	95 % CI	AOR <sup>3</sup>	95% CI
<b>Any need</b>						
No need	221 (16.1)	12 (3.7)	REF		REF	
Unmet need	808 (58.5)	259 (79.7)	<b>5.81</b>	<b>3.19-10.58</b>	1.79	0.94-3.41
Met need	345 (25.1)	54 (16.6)	<b>2.86</b>	<b>1.49-5.47</b>	1.32	0.66-2.64
<b>Information</b>						
No need	451 (32.8)	53 (16.3)	REF		REF	
Unmet need	341 (24.8)	143 (44.0)	<b>3.44</b>	<b>2.43-4.88</b>	<b>1.68</b>	<b>1.51-2.47</b>
Met need	582 (42.4)	129 (39.7)	<b>1.84</b>	<b>1.92-2.61</b>	<b>1.15</b>	0.79-1.68
<b>Medication</b>						
No need	684 (49.8)	109 (33.5)	REF		REF	
Unmet need	157 (11.4)	64 (19.7)	<b>2.53</b>	<b>1.77-3.60</b>	1.13	0.76-1.69
Met need	533 (38.8)	152 (46.8)	<b>1.77</b>	<b>1.35-2.33</b>	0.99	0.73-1.35
<b>Referral</b>						
No need	551 (40.1)	65 (20.0)	REF		REF	
Unmet need	286 (20.8)	122 (37.5)	<b>3.51</b>	<b>2.51-4.91</b>	<b>1.73</b>	<b>1.19-2.5</b>
Met need	537 (39.1)	138 (42.5)	<b>2.14</b>	<b>1.55-2.95</b>	1.24	0.88-1.77
<b>Counseling</b>						
No need	464 (33.8)	62 (19.1)	REF		REF	
Unmet need	511 (37.2)	180 (55.4)	<b>2.58</b>	<b>1.88-3.54</b>	1.33	0.94-1.89
Met need	399 (29.0)	83 (25.5)	<b>1.55</b>	<b>1.08-2.21</b>	0.97	0.65-1.43
<b>Practical support</b>						
No need	1200 (87.3)	247 (76.0)	REF		REF	
Unmet need	125 (9.1)	61 (18.8)	<b>2.35</b>	<b>1.68-3.31</b>	1.29	0.88-1.89
Met need	49 (3.6)	17 (5.2)	1.65	0.93-2.93	0.89	0.48-1.68
<b>Skills training</b>						
No need	1078 (78.5)	224 (68.9)	REF		REF	
Unmet need	233 (17.0)	83 (25.5)	<b>1.72</b>	<b>1.28-2.31</b>	1.02	0.73-1.42
Met need	63 (4.6)	18 (5.5)	1.36	0.79-2.35	0.90	0.50-1.62

1 Multinomial regression analyses with needs as the dependent and suicidal ideation as the independent variable ('no need' as reference group).

2 Model 1: OR adjusted for age, sex, education, marital status

3 Model 2: AOR adjusted for age, sex, education, marital status and IDS sum score and comorbidity

### Health care use

**Table 4** shows that about 90% of the respondents had contact with their general practitioner. When considering GP contact specifically for a mental health problem, suicidal ideation was associated with more GP consultation (73.4% versus 64.2%;  $2 [1, n=1525] = 8.93, p .003$ ). However, taking account of severity of axis-I symptomatology, the odds ratio for suicidal respondents to contact their GP because of a mental health problem was no longer significant (AOR .90; 95% CI .65-1.24).

Looking at the intensity of health care use in more detail, among suicidal respondents 24.6% had no contact and 40.6% had contact more than once a month with mental health care providers, versus respectively 38.5% and 26.6% of the non-suicidal respondents. The odds for suicidal respondents compared to non-suicidal respondents to have had contact with any mental health care provider more than once a month were clearly elevated (OR 2.34; 95% CI 1.71-3.20). However, this again was explained largely by the severity of the axis-I symptomatology as the adjusted OR was no longer significant (AOR: 1.30; 95% CI .91-1.84).

Table 4: The association between suicidal ideation and health care use

	NSI	SI	OR <sup>2</sup>	95% CI	AOR <sup>3</sup>	95%CI
Health care use <sup>1</sup>	N (%)	N (%)				
General practitioner	1235 (89.9)	290 (89.2)	.95	.64-1.40	<b>.62</b>	<b>.40-.96</b>
General practitioner because of mental problem	93 (64.2)	213 (73.4)	<b>1.49</b>	<b>1.12-1.99</b>	.90	.65-1.24
Primary mental health care provider	506 (36.8)	142 (43.7)	<b>1.33</b>	<b>1.04-1.71</b>	.91	.69-1.20
(Community) Mental health care service	627 (45.6)	199 (61.2)	<b>1.84</b>	<b>1.42-2.37</b>	1.11	.84-1.48
Contact with a mental health care provider						
No contact	528 (38.5)	80 (24.6)	REF		REF	
1-6 contacts	479 (34.9)	113 (34.8)	<b>1.54</b>	<b>1.12-2.11</b>	.96	.68-1.36
> 6 contacts	366 (26.6)	132 (40.6)	<b>2.34</b>	<b>1.71-3.20</b>	1.30	.91-1.84

1 Logistic and multinomial regression analyses with health care use as dependent and suicidal ideation as independent variable. In the multinomial regression analysis 'no contact' is set as reference group.

2 Model 1: OR adjusted for age, sex, education, marital status.

3 Model 2: AOR adjusted for age, sex, education, marital status and IDS sum score and comorbidity.

## Discussion

The results confirm previous findings that persons with suicidal ideation were more at risk to perceive unmet and met needs than persons without suicidal ideation. In all domains of needs persons with suicidal ideation reported more unmet needs. With regard to met needs, the risk for persons with and without SI did not differ in the domains of practical support and skills training, while all other met needs showed an increased risk for persons with SI. We also found that persons with suicidal ideation had more intensive contact with mental health care providers than persons without suicidal ideation.

The increased risk of unmet needs for information and referral among respondents with suicidal ideation, even after adjusting for severity of axis-I psychopathology, raises questions with important clinical implications: Which information do suicidal persons expect and why do they perceive their need for information is not being met by care providers, unless their frequent contacts? And, in addition, to whom wanted suicidal respondents to be referred, because most of them already received mental health care? A possible explanation may be that it reveals the suicidal patient's wish to be informed better about their illness, the course and prognosis of their illness and alternatives for, more effective, treatment than they receive currently. It might be an expression of a perceived mismatch between available services and needs for care of suicidal persons.

However, our data also clearly showed that differences in perceived needs and health care utilization were largely explained by severity of the axis-I symptomatology. It appears that having suicidal thoughts correlates strongly with severity of depression or anxiety, which drives perceived patient needs. Part of this more severe psychopathology may be reflected in the entrapped mindset and feelings of hopelessness of suicidal persons which may result in fixed ideas that nothing will help (Williams et al, 2005). This may explain why suicidal patients are not easily satisfied with the care they received or why they did not seek help in advance. In this respect the suicidal person demonstrates his core beliefs that make him suicidal by engaging in prototypical cognitions of being untreatable, being too worthless to be treated, being incapable of profiting from any help, fear of stigma, etc. (Bruffaerts et al, 2012). These convictions should be explicitly targeted, since they reflect the basis of the suicidal despair but at the same time they reflect the higher levels of severity of the axis – I disorders.

In our study, in contrast with Pagura et al (2009) almost all associations we found were explained by severity of the axis-I symptomatology. Pagura et al included respondents with or without a mental disorder and adjusted for the amount of disorders, including alcohol and drugs dependence. Other studies also adjust for the presence or amount of mental disorders (Brook et al, 2006; Pirkis et al, 2001b). In our study we were able to control for severity using an estab-

lished symptom severity measure. This may explain why controlling for severity had more effect in our study, overruling almost all effects of suicidal ideation alone on perceived needs and health care use.

In comparison with several other studies, we found a low percentage of persons with suicidal ideation who did not have contact with any mental health care provider. Brook et al (2006), Pirkis et al (2001) and Pagura et al (2009) found higher percentages. Although this might be caused by the use of a broader definition of service use, it could also be explained by the few financial barriers and easy access to specialized mental health care in the Netherlands.

The clinical implications of our findings are important and hopeful, because an encouraging message can be given to suicidal persons: the suffering due to the suicidality is to a large extent a changeable feature by treating the comorbid psychopathology. Suicidal persons have more needs for care and are more seriously ill. To realize effective treatment they therefore need more of our care, dedication and specialized expertise.

Certainly some comments can be made with regard to this statement. In some cases the suicidality will still be present after the depression or anxiety disorder is dissolved. Clinicians should therefore regularly assess suicidality even when there is no current axis-I psychopathology. And obviously there are other features which influence suicidality such as trauma, chronicity or personality characteristics. So, profound exploration of the suicidality is always needed to optimize treatment (APA, 2003).

### *Strengths and limitations*

Methodological strengths of our study were that we had access to a large sample of well diagnosed persons with depressive and/or anxiety disorders (n=1699) with participants from the community, and primary as well as specialized mental health care settings. Furthermore, we had access to detailed information about both perceived needs and actual use of mental health care. In the Netherlands there are few financial barriers to the use of mental health care use. Disparity in access to care, a strong potential confounder in this type of study is therefore limited. However, a limitation should also be recognized. Our measure of suicidal ideation is based on a single assessment. Suicidal thoughts may fluctuate over time (ten Have et al, 2009). This may have caused misclassification of the suicidal/non-suicidal persons, in turn leading to a weakening of the associations under study.

## Conclusions

Although persons with suicidal ideation made more intensive use of mental health services, they also report more unmet needs. Both findings were driven by the higher levels of severity of their axis-I symptomatology. For clinical practice this implies that to realize effective treatment for suicidal persons they need more of our care, dedication and specialized expertise, especially in the domains of information and referral.

## REFERENCE LIST

- American Psychiatric Association (2003)** *Practice guideline for the assessment and treatment of patients with suicidal behavior*. American Psychiatric Association: Washington D.C.
- American Psychiatric Association (2001)** *Diagnostic and Statistical Manual of Mental Disorders DSM-IV-TR Fourth Edition (Text Revision)*. American Psychiatric Association: Washington D.C.
- Angst J., Angst F., Stassen H.H. (1999)** Suicide risk in patients with major depressive disorder. *J Clin Psychiatry*, **60** Suppl 2, 57-62.
- Beck, A. T., Kovacs, M., and Weissman, A. (1979)** Assessment of suicidal intention: the Scale for Suicide Ideation. *J Consult Clin Psychol.*, **47**, 343-352.
- Beck, A. T., Epstein, N., Brown, G. et al (1988)** An inventory for measuring clinical anxiety: psychometric properties. *J. Consult. Cli. Psychol.* **56**, 893-897.
- Bertolote J.M., Fleischmann A. (2009)** *A global perspective on the magnitude of suicide mortality. In Suicidology and Suicide Prevention. A global perspective.*, (eds. D. Wasserman and C. Wasserman), pp. 91-98. Oxford: Oxford University Press.
- Brook, R., Klap, R., Liao, D., et al (2006)** Mental health care for adults with suicide ideation. *Gen Hosp.Psychiatry*, **28**, 271-277.
- Bruffaerts, R., Demyttenaere, K., Hwang, I., et al (2011)** Treatment of suicidal people around the world. *Br.J.Psychiatry*, **199**, 64-70.
- Fernandez A., Haro J.M., Martinez-Alonso M., et al (2007)** Treatment adequacy for anxiety and depressive disorders in six European countries. *Br. J. Psychiatry* **190**, 172-173.
- Goldblatt M.J., Waltsberger J.T. (2009)** Countertransference in the treatment of suicidal patients. In *Oxford textbook of suicidology and suicide prevention. A global perspective.*,(eds. D. Wasserman and C. Wasserman), pp. 389-393. Oxford: University Press.
- Hakkaart-Roijen van L. (2002)** *Manual Trimbos/iMTA Questionnaire for Costs Associated with Psychiatric Illness (in Dutch)*. Rotterdam:Institute for Medical Technology Assessment.
- Hendin H., Haas A.P., Maltberger J.T., et al (2006)** Problems in psychotherapy with suicidal patients. *Am. J. Psychiatry* **163**, 67-72.
- Jobs D.A. (2006)** *Managing Suicidal Risk. A Collaborative Approach*. New York: The Guilford Press.

- Meadows G., Harvey C., Fossey E., Burgess P. (2000)** Assessing perceived need for mental health care in a community survey: development of the Perceived Need for Care Questionnaire (PNCQ). *Soc. Psych. Psychiatric Epidem.* **35**, 427-435.
- Pagura, J., Fotti, S., Katz, L. Y., et al (2009)** Help seeking and perceived need for mental health care among individuals in Canada with suicidal behaviors. *Psychiatr.Serv.*, **60**, 943-949.
- Penninx, B. W., Beekman, A. T., Smit, J. H., et al (2008)** The Netherlands Study of Depression and Anxiety (NESDA): rationale, objectives and methods. *Int J Methods Psychiatr.Res*, **17**, 121-140.
- Pirkis, J., Burgess, P., Meadows, G., et al (2001a)** Self-reported needs for care among persons who have suicidal ideation or who have attempted suicide. *Psychiatr.Serv.*, **52**, 381-383.
- Pirkis J.E., Burgess P.M., Meadows G.N., Dunt D.R. (2001b)** Suicidal ideation and suicide attempts as predictors of mental health service use. *Med. J. Austr.* **175**, 542-545.
- Prins M.A., Verhaak P.F., van der Meer K., et al (2009)** Primary care patients with anxiety and depression: Need for care from the patient's perspective. *J.Affect. Disorders* **119**,163-171.
- Prins M., Meadows G., Bobevski I., et al (2010)** Perceived need for mental health care and barriers to care in the Netherlands and Australia. *Soc. Psychiatr. Psychiatr. Epidemiol.* Aug 5.
- Rush, A. J., Gullion, C. M., Basco, M. R., et al (1996)** The Inventory of Depressive Symptomatology (IDS): psychometric properties. *Psychol.Med.*, **26**, 477-486.
- Sareen, J., Cox, B. J., Afifi, T. O., et al (2005a)** Anxiety disorders and risk for suicidal ideation and suicide attempts: a population-based longitudinal study of adults. *Arch Gen Psychiatry*, **62**, 1249-1257.
- Sareen, J., Stein, M. B., Campbell, D. W., et al (2005b)** The relation between perceived need for mental health treatment, DSM diagnosis, and quality of life: a Canadian population-based survey. *Can.J Psychiatry*, **50**, 87-94.
- Slade, M., Leese, M., Ruggeri, M., et al (2004)** Does meeting needs improve quality of life? *Psychother.Psychosom.*, **73**, 183-189.
- Slade, M., Leese, M., Taylor, R., et al (1999)** The association between needs and quality of life in an epidemiologically representative sample of people with psychosis. *Acta Psychiatr.Scand.*, **100**, 149-157.
- Taylor T.L., Hawton K., Fortune S., Kapur N. (2009)** Attitudes towards clinical services among people who self-harm: systematic review. *Br. J. Psychiatry* **194**, 104-110.



- Ten Have, M., de Graaf, R., van Dorsselaer, S., et al (2009)** Incidence and course of suicidal ideation and suicide attempts in the general population. *Can.J Psychiatry*, **54**, 824-833.
- Ten Have M., de Graaf R., Ormel J., et al (2011)** Are attitudes towards mental health help-seeking associated with service use? Results from the European Study of Epidemiology of Mental Disorders. *Soc. Psychiatr. Psychiatr. Epidemiol.* **45**, 153-163.
- Wang, P. S., Aguilar-Gaxiola, S., Alonso, J., et al (2007)** Use of mental health services for anxiety, mood, and substance disorders in 17 countries in the WHO world mental health surveys. *Lancet* **380**, 841-850.
- World Health Organization (1998)** *Composite International Diagnostic Interview (CIDI)*, version 2.1. Geneva; WHO.
- Wiersma, D. (2006)** Needs of people with severe mental illness. *Acta Psychiatr.Scand.Suppl*, 115-119.
- Williams, J. M. G., Crane, C., Barnhofer, T. et al (2005)** In *Prevention and treatment of suicidal behavior. From science to practice.*(ed. Hawton, K.), Oxford: Oxford University Press.
- Wittchen, H.U. (1994)** Reliability and validity studies of the WHO-Composite International Diagnostic Interview (CIDI): a critical review. *J. Psychiatr. Res.* **28**, 57-84.