Predictors of perceived stigmatization in patients with psoriasis

S. van Beugen,1,2 H. van Middendorp,1,2 M. Ferwerda,1,2 J.V. Smit,3 M.E.J. Zeeuwen-Franssen,4 E.B.M. Kroft,5 E.M.G.J. de Jong,6 A.R.T. Donders,7 P.C.M. van de Kerkhof8 and A.W.M. Evers1,2

1Institute of Psychology, Health, Medical and Neuropsychology Unit, Leiden University, Leiden, the Netherlands
2Department of Medical Psychology, 6Department of Dermatology and 7Department for Health Evidence, Radboud university medical center, Nijmegen, the Netherlands
3Department of Dermatology, Rijnstate Hospital, Velp, the Netherlands
4Department of Dermatology, Canisius-Wilhelmina Hospital, Nijmegen, the Netherlands
5Department of Dermatology, Ziekenhuisgroep Twente, Almelo, the Netherlands

Correspondence
Sylvia van Beugen.
E-mail: S.van.beugen@fsw.leidenuniv.nl

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Conflicts of interest
None declared.

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Summary

Background The physical appearance of psoriasis can be cosmetically disfiguring, resulting in a substantial social burden for patients. An important aspect of this burden is the experience of stigmatization. While stigmatization is known to be disabling and stressful for patients, little is known about its correlates, and effective interventions are lacking.

Objectives To examine predictor variables for perceived stigmatization in psoriasis.

Methods Questionnaires were administered to 514 patients with psoriasis in a cross-sectional study. Zero-order correlation and multiple-regression analyses were conducted including sociodemographic, disease-related, personality, illness cognitions and social support predictor variables.

Results Stigmatization was experienced by 73% of patients to some degree, and correlated with all five categories of predictor variables. In multiple-regression analyses, stigmatization was associated with higher impact on daily life; lower education; higher disease visibility, severity and duration; higher levels of social inhibition; having a type D personality; and not having a partner.

Conclusions The results indicate that perceived stigmatization is common in psoriasis, and can be predicted by sociodemographic, disease-related and personality variables. These predictor variables provide indications of which patients are especially vulnerable regarding perceived stigmatization, which might be used in treatment.

What’s already known about this topic?
- Perceived stigmatization is common and distressing in patients with psoriasis.
- Some of its predictors have been examined in small samples.

What does this study add?
- This large study of 514 patients with psoriasis examined a combination of potential predictor variables, both previously examined and never before studied.
- Sociodemographic, disease-related and previously unstudied type D personality variables were found to be predictive of perceived stigmatization.

What are the clinical implications of this work?
- These results provide an understanding of which patients may be especially vulnerable to stigmatization-related problems, which may warrant special attention during treatment.
It has long been theorized that humans have a fundamental need to be accepted by others and included in social interactions. Social relationships are important for health and wellbeing, and social rejection can lead to physical, behavioural and emotional problems. Social rejection is central to the experience of stigmatization, which can be defined as an awareness of social disapproval, discrediting or devaluation based on an attribute or physical mark.

In psoriasis, a chronic skin condition characterized by red plaques on the skin, the experience of stigmatization is commonly mentioned as one of its more troubling characteristics. Patients often experience felt or perceived stigma, referring to the negative attitudes and responses that they perceive to be present in society and the sense of shame and fear of being discriminated against because of being ‘flawed’ due to their illness. Actual experiences of stigmatization (i.e. enacted stigma) are also reported, for instance reactions of disgust or aversion, negative comments or avoidance of contact. Stigmatization contributes considerably to disability, depression and reduced quality of life in psoriasis, and can be considered a stressor. As distress can be a trigger for psoriasis exacerbation, this can become a vicious self-perpetuating cycle.

Despite these detrimental consequences, relatively few studies have studied interventions targeting stigmatization-related problems, and thus far no compelling evidence has been found for any type of intervention. Firstly, it is important to recognize that stigmatization is a societal problem, and therefore societal educational interventions including contact between patients and the general population are called for to alter the public view. Furthermore, interventions with a more inter- and intrapersonal focus are needed to improve patients’ ability to cope with perceived stigmatization. In order to aid intervention development, a broad understanding of associated risk factors is needed, to be able to identify risk populations and focus points for interventions.

The literature suggests several potential sociodemographic predictors of perceived stigmatization in psoriasis, such as lower age, being female and lower education.

Secondly, disease-related variables such as higher disease severity, longer disease duration, greater cosmetic involvement and greater impact of the condition on daily life may be relevant. General ways in which patients deal with a chronic condition, such as heightened helplessness regarding the disease and its consequences, and lower disease acceptance have also been found to be predictive. Additionally, social support and a large social network may serve a protective function against experiences of stigmatization.

While several studies have examined the above-mentioned variables as predictors, the role of personality has hardly been studied. A possibly relevant personality construct is type D, which is defined as a tendency to inhibit the expression of emotions or behaviour to avoid negative reactions of others (social inhibition; SI), in combination with the stable tendency to experience negative affect (negative affectivity; NA). Type D personality has been associated with increased risk of cardiovascular morbidity and mortality and impaired health behaviour, which are both frequently reported in psoriasis. The two main features – SI and NA – may both increase the impact of perceived stigmatization. Being socially inhibited implies being sensitive to negative reactions of others, which may cause stigmatization experiences to be especially detrimental. Additionally, having a stable tendency to experience negative affect may worsen psychological distress, which in turn may increase disease severity and resultantly visibility. Furthermore, individuals with high levels of NA may be more likely to perceive social interactions as negative, due to the associated cognitive bias to negative information. The specific combination of heightened SI and NA, type D, has been related mainly to adverse outcomes in cardiovascular patients, but also to poorer physical, psychological and social functioning in other healthy and patient samples including two studies in psoriasis.

This study aims to examine the relative contributions of a broad range of concepts, including previously unstudied variables such as type D personality, to perceived stigmatization in a large sample of patients with psoriasis. It was hypothesized that perceived stigmatization would be related to the sociodemographic variables age, educational level and being single; the disease-related variables severity, duration, visibility and impact; type D personality; the illness cognitions acceptance and helplessness; and social support. This broad approach may provide indications for screening and interventions for reducing stigmatization-related problems.

**Patients and methods**

**Participants**

Patients with psoriasis were recruited from one academic and three nonacademic hospitals, and the Dutch Psoriasis Association. Inclusion criteria were a minimum age of 18 years and a dermatologist-confirmed psoriasis diagnosis. Exclusion criteria were illiteracy, pregnancy and severe physical and mental comorbid conditions. This study made use of questionnaires that were administered between 2010 and 2013 to determine participant eligibility for a study on the effectiveness of internet-based cognitive behavioural treatment for psoriasis. Parts of these data have been used in a previous paper. All questionnaires were assessed prior to the intervention. The study was approved by the regional medical ethics committee and carried out in accordance with the Declaration of Helsinki. All participants provided informed consent.

**Measures**

Perceived stigmatization was measured with a six-item sub-scale of the Impact of Chronic Skin Disease on Daily Life questionnaire (ISDL; Cronbach’s $\alpha$ in this study $= 0.88$). This assesses to what extent the patient feels stigmatized as a result
of the skin condition. Items are assessed on a four-point Likert scale, with higher scores reflecting higher levels of perceived stigmatization (theoretical range 6–24). Example items are ‘I often feel inhibited in social interactions’ and ‘other people sometimes make annoying comments about my skin disease’.

**Measures used for assessment of predictor variables**

**Sociodemographic variables**

Sociodemographic variables were assessed with a general checklist that assessed patients’ sex, age, educational level and marital status. Educational level was categorized into primary (i.e. lower education, elementary school), secondary (i.e. middle school and high school, including vocational training) and tertiary (i.e. higher professional education and university-level education).

**Disease-related variables**

Self-assessed disease severity was measured with the Self-Administered Psoriasis Area and Severity Index (SAPASI, theoretical range 0–72). Self-assessed disease visibility was measured with a four-item ISDL subscale asking about the extent of involvement of the face, scalp, neck and hands (theoretical range 4–16). Disease duration was assessed by asking how old the patient was when diagnosed, and subtracting this number from their current age (range 0–64 years). Impact of the disease on daily life was assessed with a 10-item ISDL subscale assessing the extent to which the skin condition affects daily-life activities (theoretical range 10–40, $\alpha = 0.89$).

**Personality**

The Type D Scale-14 was used to assess type D personality. It consists of two seven-item subscales: SI ($\alpha = 0.88$, example item: ‘I often feel inhibited in social interactions’, theoretical range 0–28) and NA ($\alpha = 0.89$, example item: ‘I often feel unhappy’, theoretical range 0–28). A cut-off score of $\geq 10$ on both scales is used to classify type D personality. Using these cut-off scores, one of four participants in this study (25.1%) had a type D personality. As previous studies indicate that type D is best represented as a continuous variable, the interaction term between the NA and SI subscales was used as a measure of type D.

**Illness cognitions**

The Illness Cognition Questionnaire was used to measure two illness cognitions: acceptance, assessing the extent of positive adaptation to chronic illness with emphasis on decreasing its negative aspects (six items, $\alpha = 0.88$, theoretical range 6–24) and helplessness, assessing the extent to which patients concentrate on aversive aspects of the disease (six items, $\alpha = 0.88$, theoretical range 6–24).

**Social support**

Social support was assessed with a five-item ISDL subscale, assessing the qualitative aspect of social support ($\alpha = 0.86$, theoretical range 5–20), and the quantitative aspect, asking patients about the actual size of their social network (range 0–25). This score was categorized according to norm groups.

**Statistical analysis**

All variables were checked for outliers, normality and normal distribution of residuals, and logarithmic transformations were successfully applied in case of non-normal distribution of variables (i.e. perceived stigmatization, helplessness and disease severity). Winsorizing was applied in outlying SAPASI scores prior to log transformation, limiting the influence of extreme values. Zero-order correlations between perceived stigmatization and predictor variables were examined by Pearson correlation coefficients for continuous variables, and t-tests and ANOVA for categorical variables. Zero-order correlations were interpreted as small ($r = 0.10–0.29$), moderate ($r = 0.30–0.49$) or large ($r \geq 0.50$). Only study variables showing significant zero-order correlations with perceived stigmatization were entered in regression analyses. To study the relative contribution of five categories of variables (sociodemographic, disease-related, personality, illness cognitions and social support), each category was entered in a consecutive step with perceived stigmatization as the dependent variable. Only statistically significant individual predictor variables ($P < 0.05$) were retained in further models. For type D personality, the main effects of mean-centred NA and SI were first examined, and in a second block their interaction term was added. All regression analyses were conducted with SPSS 21.0 (IBM, Armonk, NY, U.S.A.) on a dataset without missing values ($n = 433$).

**Results**

**Sample characteristics**

The sociodemographic characteristics of the study sample ($n = 514$) and means and SDs of the study variables can be found in Tables 1 and 2. Disease severity was generally mild to moderate, with 6.7% of patients having severe psoriasis (SAPASI > 10). The mean values of perceived stigmatization, impact on daily life, social support and illness cognitions were similar to those found in previous research in psoriasis, and scores on type D personality were comparable with those found in the general population.

**Perceived stigmatization**

Seventy-three per cent of our sample perceived at least some stigmatization, as indicated by a positive score on at least one of the six items, as reported in previous studies. The feeling of being stared at was reported most often (in 61.9% of patients), followed by other people thinking their condition
was contagious (44%), finding them unattractive because of their skin condition (38%), avoiding touching them (32%) and making negative comments (27%).

**Individual associations with perceived stigmatization**

Zero-order correlations of the study variables are reported in Table 3. Higher perceived stigmatization showed a large correlation with a greater impact of the skin condition on daily life; moderate correlations with higher disease severity, helplessness, NA and lower levels of acceptance; and small correlations with lower age, longer disease duration, greater visibility, higher levels of SI, and less perceived social support. Furthermore, higher perceived stigmatization scores were associated with a smaller social network (P = 0.001), not having a partner (P < 0.001) and lower educational level (P = 0.01), but not with sex (P = 1.00).

**Relative impact on perceived stigmatization**

Table 4 presents the results of multiple-regression analyses that were performed to examine the relative impact of predictors on perceived stigmatization.

In block 1, sociodemographic variables explained 11.9% of the variance in perceived stigmatization, with lower age, lower education and being single being predictive of higher levels of perceived stigmatization. In block 2, adding the disease-related variables explained a total of 48.3% of the variance, with greater disease severity and visibility, longer disease duration and higher disease impact predicting more perceived stigmatization. In block 3, adding the personality variables resulted in a total of 49.7% explained variance, with the main effect of SI (but not NA) and the type D interaction effect being predictive of perceived stigmatization. Patients scoring high on both SI and NA, indicating a type D personality, had higher levels of perceived stigmatization (Fig. 1). In blocks 4 and 5, illness cognitions of helplessness and acceptance, and perceived and actual social support did not significantly add to the model.

The final model, including only the significant predictors, explained a total of 49.7% of the variance in perceived stigmatization (Table 5). The predictors, from highest to lowest standardized regression coefficients, were higher disease impact, lower age, lower education and greater disease visibility, longer disease duration, higher disease severity and higher levels of SI, having a type D personality, and being single. A model excluding multivariate outliers (n = 16; critical Mahalanobis distance value = 32.91, degrees of freedom = 12, P = 0.001) yielded similar results, with the exception of two predictors that became marginally significant (type D personality, P = 0.08) or nonsignificant (marital status, P = 0.11).

**Discussion**

This study examined perceived stigmatization and its potential sociodemographic, disease-related and psychosocial predictors in a large sample of patients with psoriasis. The vast majority of our sample experienced perceived stigmatization to some degree, corresponding with previous studies.7,8 Higher levels of perceived stigmatization were found to be correlated with sociodemographic and disease-related variables, personality, illness cognitions and social support. Perceived stigmatization was found to be particularly predicted by disease impact, as well as by lower age, lower education, greater disease severity and visibility, longer disease duration, higher levels of SI, having a type D personality, and being single.

Greater severity and visibility and longer disease duration were predictive of perceived stigmatization, underlining the importance of early dermatological treatment; patients whose psoriasis is not adequately controlled may be more affected by stigmatization. However, the impact of the condition was a much stronger predictor, corresponding with the notion that the subjective experience of impact is generally more important than disease severity.48,49 In contrast with an earlier
Table 3  Zero-order correlation matrix of continuous study variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
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<tbody>
<tr>
<td>Disease severity</td>
<td>-0.28***</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Disease visibility</td>
<td>0.34***</td>
<td>-0.14***</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Disease duration</td>
<td>0.26***</td>
<td>-0.12**</td>
<td>0.29***</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disease impact</td>
<td>0.61***</td>
<td>-0.17***</td>
<td>0.32***</td>
<td>0.26***</td>
<td>0.11*</td>
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<tr>
<td>Type D: NA</td>
<td>0.30***</td>
<td>-0.23***</td>
<td>0.20***</td>
<td>0.12*</td>
<td>-0.05</td>
<td>0.36***</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Type D: SI</td>
<td>0.22***</td>
<td>-0.11*</td>
<td></td>
<td>0.05</td>
<td>0.07</td>
<td>-0.03</td>
<td>0.17***</td>
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<tr>
<td>Helplessness</td>
<td>0.49***</td>
<td>-0.09#</td>
<td>0.28***</td>
<td>0.19***</td>
<td>0.10*</td>
<td>0.67***</td>
<td>0.39***</td>
<td>0.17***</td>
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<td></td>
</tr>
<tr>
<td>Acceptance</td>
<td>-0.34***</td>
<td>0.10*</td>
<td>-0.19***</td>
<td>-0.23***</td>
<td>0.10*</td>
<td>-0.48***</td>
<td>-0.42***</td>
<td>-0.20***</td>
<td>-0.52***</td>
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</tr>
<tr>
<td>Perceived support</td>
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<td>-0.02</td>
<td>0.02</td>
<td>0.00</td>
<td>0.00</td>
<td>-0.18***</td>
<td>-0.36***</td>
<td>-0.27***</td>
<td>-0.17***</td>
<td>0.26***</td>
<td></td>
</tr>
</tbody>
</table>

NA, negative affectivity; SI, social inhibition. *P < 0.05, **P < 0.01, ***P < 0.001, #P < 0.10.

Table 4  Predictors of stigmatization: multiple-regression analyses

<table>
<thead>
<tr>
<th>Predictors</th>
<th>Standardized regression coefficients (β)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block 1</td>
</tr>
<tr>
<td>Sociodemographic</td>
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<tr>
<td>Age</td>
<td>-0.27***</td>
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<tr>
<td>Education (primary)</td>
<td>0.06</td>
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<tr>
<td>Education (secondary)</td>
<td>0.15**</td>
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<tr>
<td>Married/with partner</td>
<td>-0.13**</td>
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<tr>
<td>Disease related</td>
<td></td>
</tr>
<tr>
<td>Disease severity</td>
<td>0.10**</td>
</tr>
<tr>
<td>Disease visibility</td>
<td>0.12**</td>
</tr>
<tr>
<td>Disease duration</td>
<td>0.11**</td>
</tr>
<tr>
<td>Impact on daily life</td>
<td>0.51***</td>
</tr>
<tr>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>Negative affectivity (NA)</td>
<td>0.00</td>
</tr>
<tr>
<td>Social inhibition (SI)</td>
<td>0.10**</td>
</tr>
<tr>
<td>Type D personality (interaction NA*SI)</td>
<td>0.08*</td>
</tr>
<tr>
<td>Illness cognitions</td>
<td></td>
</tr>
<tr>
<td>Helplessness</td>
<td>0.05</td>
</tr>
<tr>
<td>Acceptance</td>
<td>-0.01</td>
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<tr>
<td>Social support</td>
<td></td>
</tr>
<tr>
<td>Perceived support</td>
<td></td>
</tr>
<tr>
<td>Actual support (1–4)</td>
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<tr>
<td>Actual support (5–14)</td>
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<tr>
<td>Actual support (15–25)</td>
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<tr>
<td>F-change</td>
<td>16-78***</td>
</tr>
<tr>
<td>F2</td>
<td>0.12</td>
</tr>
</tbody>
</table>

Reference group = tertiary education. bReference group = no partner. cNumber of friends, reference group = no friends. *P < 0.05, **P < 0.01, ***P < 0.001, #P < 0.10.

study, the impact of the condition was also a stronger predictor than the illness cognition of helplessness. The relative and different contribution of both variables may be explained by the high correlation between these variables in the current study and in previous research. It seems likely that patients with psoriasis who are prone to feelings of helplessness regarding the disease may also experience a larger impact of psoriasis and magnify negative reactions of others.

Type D personality and its subcomponent SI were found to be significant predictors of perceived stigmatization. The fear of disapproval that leads individuals to inhibit emotions or behaviour in SI may explain its relation to perceived
stigmatization; socially inhibited individuals may be more sensitive to the reactions of others and may therefore perceive themselves to be stigmatized more readily. Not only SI in itself, but also the combination of higher levels of SI and NA (type D personality) was a significant predictor of perceived stigmatization. This corresponds with studies suggesting that type D is associated with social impairments. These results extend preliminary evidence indicating that type D may be a risk factor for worse outcomes in psoriasis, by showing for the first time that it is associated with increased perceived stigmatization. However, these results should be replicated in further research, as the effect of type D became only marginally significant when excluding multivariate outliers. In the current study, NA was not a significant predictor of perceived stigmatization. It seems that, while the shared variance with NA can also be explained by other variables, SI contains more unique information relevant for perceived stigmatization.

Regarding sociodemographic variables, the significant predictors lower age, lower educational level and being single were in line with previous research indicating that the negative psychosocial influence of psoriasis is particularly strong in younger patients. To develop a comprehensive model of factors influencing perceived stigmatization, both potential risk factors (e.g. social fears and inhibition) and protective factors (e.g. social support) need to be taken into account. While the current study provides evidence for the former, results of the latter (social support) were inconsistent with previous research, possibly due to the inclusion of predictor variables not previously studied. Furthermore, while the current study examined self-perceived support, a more objective measure may lead to different results. Nonetheless, the current results suggest that it is not so much the experienced social support that plays a significant role in perceived stigmatization, but more the extent to which patients may experience social anxiety and want to avoid negative reactions, as captured in SI. Future research should explore further the role of protective factors in perceived stigmatization.

Strengths of the current study include the large sample size, simultaneous assessment of relevant variables to control for shared variance, including personality variables never before studied, and inclusion of patients from a variety of settings. Limitations include the cross-sectional design, precluding conclusions about cause and effect, and the relatively mild disease severity of our sample, which may limit generalizability. In addition, self-reported measures were used to assess disease severity. However, self-assessed Psoriasis Area and Severity Index (PASI) scores correlate reasonably well with clinician-assessed PASI scores, and modest relationships with stigmatization have also been found in studies using clinician-assessed PASI. Lastly, some predictor variables showed high intercorrelations, but none of them was above the multicollinearity cut-off point of 0.80.

In conclusion, perceived stigmatization was found to be common in patients with psoriasis and was predicted by specific sociodemographic, disease-related and personality variables. This provides several possible focus points for individual screening and interventions, in addition to the societal interventions that are needed to target the overarching problem. Firstly, the predictors found in this study provide clinicians with an understanding of which patients may be especially vulnerable to stigmatization-related problems, which may warrant special attention during consultations. Type D and especially its SI component may be screened for, when

### Table 5 Predictors of stigmatization: final model

<table>
<thead>
<tr>
<th>Predictors</th>
<th>β</th>
<th>B</th>
<th>SE</th>
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<tbody>
<tr>
<td>Sociodemographic</td>
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<td></td>
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<tr>
<td>Age</td>
<td>-0.19***</td>
<td>-0.09***</td>
<td>0.00</td>
</tr>
<tr>
<td>Married/with partner*</td>
<td>-0.07*a</td>
<td>-0.02*a</td>
<td>0.01</td>
</tr>
<tr>
<td>Education (primary)b</td>
<td>0.04</td>
<td>0.03</td>
<td>0.03</td>
</tr>
<tr>
<td>Education (secondary)b</td>
<td>0.12**</td>
<td>0.03**</td>
<td>0.01</td>
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<tr>
<td>Disease related</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disease severity</td>
<td>0.10*</td>
<td>0.02*</td>
<td>0.01</td>
</tr>
<tr>
<td>Disease visibility</td>
<td>0.12**</td>
<td>0.03**</td>
<td>0.01</td>
</tr>
<tr>
<td>Disease duration</td>
<td>0.11**</td>
<td>0.00**</td>
<td>0.00</td>
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<tr>
<td>Impact on daily life</td>
<td>0.50***</td>
<td>0.01***</td>
<td>0.00</td>
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<tr>
<td>Personality</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Negative affectivity</td>
<td>0.00</td>
<td>0.00</td>
<td>0.01</td>
</tr>
<tr>
<td>Social inhibition</td>
<td>0.10**</td>
<td>0.01**</td>
<td>0.00</td>
</tr>
<tr>
<td>Type D</td>
<td>0.08*</td>
<td>0.01*</td>
<td>0.00</td>
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<tr>
<td>F-change</td>
<td>37.80***</td>
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<tr>
<td>R²</td>
<td>0.50</td>
<td></td>
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</table>

β, standardized coefficients; B, unstandardized coefficients; SE, standard error of B. *Reference group = no partner. bReference group = tertiary education. *p < 0.05, **p < 0.01, ***p < 0.001, #p < 0.10.

Fig 1. Interaction effect of negative affectivity (NA) and social inhibition (SI) on perceived stigmatization. Predicted values of perceived stigmatization are displayed for high and low levels of NA and SI (i.e. 1 SD above and below the mean). For all other variables included in the model, mean scores were used to calculate the regression outcome. In this figure, the degree of SI was not associated with perceived stigmatization when patients had low NA. For patients with high NA, specifically the combination with high SI, indicating a type D personality, this was related to higher levels of perceived stigmatization.
further evidence confirms our preliminary results indicating that individuals with this personality subtype are especially vulnerable to stigmatization-related problems. Stigmatization-related problems may be screened for using validated instruments,59 followed by targeted interventions that may focus on the impact of the condition on daily life, considering that this was the largest predictor. Cognitive behavioural treatment, including social skills training, seems promising as an intervention framework. Previous research indicates that it can decrease perceived stigmatization in skin conditions,57 improve psychological and disease-related outcomes in psoriasis,58,59 and decrease helplessness, which shows high correlations with disease impact.60–67 In order to target the SI aspect of type D personality, social skills training and evidence-based interventions for social fears, such as cognitive behavioural therapy and/or exposure therapy, may be an additional treatment approach.53,64

The current study provides a framework of characteristics of patients who are at greater risk to perceive stigmatization, which has been shown to have detrimental psychological consequences in psoriasis. Future research should expand upon these findings in order to examine interplays between predictors in prospective studies. Further development of screening and intervention procedures is needed in order to facilitate implementation of tailored evidence-based treatment to reduce the psychosocial burden of chronic skin conditions.

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