A randomized controlled feasibility trial of online compassion-focused self-help for psoriasis*

Zina Muftin,1 Paul Gilbert2,3 and Andrew R. Thompson1,3

1Department of Psychology, University of Sheffield, Cathedral Court, University of Sheffield, Sheffield S1 2LT, UK
2Centre for Compassion Research and Training, College of Health and Social Care Research Centre, University of Derby, Kedleston Road, Derby, DE22 1GB, UK
3South Wales Clinical Psychology Training, Cardiff University, 11th Floor, Tower Building, 70 Park Place, Cardiff, CF10 3AT, UK

Summary

Background People with psoriasis can experience psychological distress that might be amenable to psychosocial self-help.

Objectives This study tested the feasibility and acceptability of two theoretically developed self-help interventions designed to reduce feelings of shame and improve quality of life.

Methods A randomized controlled feasibility trial was conducted comprising 130 participants with psoriasis who were randomly allocated to receive either compassion-based self-help (n = 65) or mindfulness-based self-help (n = 65), over a 4-week period. Both interventions were provided online.

Results The interventions were found to be acceptable, with over 70% of study completers reporting that they found the materials helpful. Of the 130 participants, 92 completed the study, with attrition at 29%. Both interventions showed modest yet statistically significant reductions in shame (Cohen’s d = 0.20) and improvements in quality of life (Cohen’s d = 0.40).

Conclusions Self-help based on compassion and mindfulness is acceptable to users, and can reduce feelings of shame and improve quality of life for people living with psoriasis.

Psoriasis is a chronic inflammatory skin condition, affecting 1–3% of the general population.1 It tends to be highly visible to others, and can be associated with elevated distress in social contexts and the presence of a range of uncomfortable feelings, including stigma.2,3 Perceived stigmatization associated with psoriasis has been found to be a predictor of psychosocial distress4–6 over and above disease severity, and an important factor in treatment adherence.7 The increased prevalence of psychological distress in patients with psoriasis indicates the need to provide access to psychological interventions,6 yet a recent systematic review found that the existing interventions for psoriasis have only small to medium effects in

*Plain language summary available online

DOI 10.1111/bjd.21020

Correspondence
Andrew Thompson.
Email: thompsona18@cardiff.ac.uk

Accepted for publication
15 January 2022

Funding sources
This work was not funded by an external grant award.

Conflicts of interest
The authors declare they have no conflicts of interest.

Data availability statement
The data that support the findings of this study are available from the corresponding author upon reasonable request.

*What is already known about this topic?
- Psoriasis can be associated with psychological distress.
- Various forms of psychological intervention have been tested; however, few compassion based interventions have been developed or trialled.

*What does this study add?
- This study demonstrates that compassion-based self-help is acceptable to people with psoriasis.
- This study provides provisional evidence of effectiveness of compassion based self-help in reducing feelings of shame and improving quality of life for people living with psoriasis.
reducing psychological distress and improving quality of life. Moreover, these interventions are beset with methodological weaknesses, such as small sample sizes and heterogeneous outcomes. The findings of Zill et al. agree with earlier reviews, indicating that while psychological interventions show promise, further research with theoretically underpinned interventions and robust methods is urgently needed.

To ensure that psychological interventions are effective for patients with psoriasis, some researchers have recently investigated the value of adding into stress-reduction interventions some techniques that also seek to develop mindfulness and self-compassion. Mindfulness-based interventions might be particularly appropriate for patients with psoriasis, as they can help people to increase their awareness of the present moment and as such reduce excessive preoccupation with bodily symptoms (such as itching). Heightened levels of mindfulness and self-compassion could also help patients to deal with the negative reactions of others and self-stigmatization that may perpetuate avoidant behavioural responses. Indeed, existing evidence shows that patients with psoriasis might benefit from mindfulness-based interventions. For example, an initial pilot study of a mindfulness-based stress-reduction intervention with patients receiving phototherapy showed improvements in skin clearance for the treatment group when compared with the active control, but not in anxiety or depression. Similarly, other studies combining mindfulness-based interventions found no benefits on any of the psychosocial outcomes, including depression and anxiety. The mixed results of studies examining mindfulness-based interventions for psoriasis show it is still unclear whether or not these interventions alleviate psychological distress, emphasizing the need for further research using more methodologically robust designs.

Indeed, the mechanism behind the process of change in mindfulness is theorized to be complex, and the exact process of therapeutic change is not fully understood. Mindfulness consists of many facets, including fostering a self-compassionate stance and compassionate mind training (CMT), placing emphasis on the development of self-compassion or self-soothing to help patients with psoriasis cope with the shame and self-criticism. Some researchers believe that combining mindfulness and self-compassion can target shame and self-criticism, those core problematic responses to psoriasis. However, there are only three small-scale randomized controlled trials investigating the impact of compassion-focused approaches with skin conditions, and all have shown promising results, particularly in lowering shame, depression, and skin complaints.

One way to further increase knowledge about the combined role of mindfulness and self-compassion is by testing these processes as an adjunct programme for patients with psoriasis, delivered in a form of self-help intervention. Self-help interventions can be particularly important as a first-step approach for individuals with mild level of distress. Thompson has presented a model of stepped psychosocial care for skin conditions, with early steps focusing on the delivery of self-help interventions. These types of interventions allow an ongoing assessment of patients’ needs and can motivate individuals who need it to seek further psychological intervention.

Hence, self-help interventions have the potential to provide a cost-effective first-line intervention yet very limited programmes exist for patients with psoriasis.

The present parallel-group randomized controlled study examined the efficacy of mindfulness, compared with compassion-based self-help interventions, in patients with psoriasis. The study had three aims: (i) to examine shame as the primary outcome variable, (ii) to investigate secondary outcomes associated with shame, namely self-criticism, and (iii) to assess the impact of the self-help interventions on quality of life (QoL).

Patients and methods

The current study recruited a community-based psoriasis sample via web-based psoriasis organizations and the University of Sheffield mailing list. The study was a feasibility trial, evaluating the acceptability, adherence and efficacy of compassion-focused self-help interventions accessed via email. This involved assessing the two self-help interventions’ acceptability and adherence while seeking to determine the extent to which the interventions can bring about changes in targeted therapeutic outcomes (detecting primary efficacy). Ethics approval was gained through the University of Sheffield ethics board.

Participant characteristics and sample size

As illustrated in Figure 1 (CONSORT flow diagram), 170 individuals were recruited and screened via telephone through local and national psoriasis organizations and associations, relevant forums, and the University of Sheffield mailing list (detailed below). Selection criteria included working age adults (aged 16+ years) with a self-reporting diagnosis of psoriasis by a general practitioner or dermatologist, and an experience of emotional distress in managing psoriasis (e.g. low mood and anxiety). Participants were excluded if they were concurrently engaged in a psychological treatment or if they had done so within 6 months. A total of 142 individuals consented to take part in the study. Data were extracted for 130 participants who met the inclusion criteria and were invited to participate (Figure 1). Most study completers were recruited from the Psoriasis Association (80%), followed by the University of Sheffield volunteer mailing list, the Psoriasis Help Organization forum, and the Psoriatic Arthritis forum. Self-reported psoriasis severity was collected on a 0–9 scale (0 not severe, 9 very severe), and 79% of the sample reported a severity rating of between 5 and 9 on trial entry.

Procedure and randomization

Following screening, eligible candidates were sent a link with a survey (smartsurvey.co.uk), consisting of the study information sheet, consent form and demographics, along with pretreatment (T1) measures, and were requested to complete it. Participants had to consent and read the information sheet
Research advertised:
- The Psoriasis Association
- Psoriasis Help Organization
- Psoriatic Arthritis forum
- University of Sheffield mailing list

Did not meet eligibility criteria (n = 12)

Randomized (n = 130)

Group A: Compassionate self-help (n = 65)
- Withdraw: approach not good fit (n = 1)

Group B: Mindfulness self-help (n = 65)
- Withdraw: psoriasis too severe (n = 1)

Discontinued intervention (n = 6)
Reasons: technical difficulties, unforeseen circumstances, difficult to engage with materials, not well enough to practise, no time to practise
Lost at T2, no further contact (n = 13)
Completed T2 measures (n = 46)
Completed T2 measures (n = 44)

Lost at T2, no further contact (n = 14)
Completed T2 measures (n = 48)

ITT analysis (n = 65)
Completer (n = 44)

ITT analysis (n = 65)
Completer (n = 48)

Figure 1 CONSORT flow diagram: participant flow through key study stages. T1, pretreatment; T2, post-treatment; ITT, intention to treat. Figure adapted from Schulz, 2010.
It is a widely used QoL measure within dermatology research, with a Cronbach’s alpha value of 0.78–0.79. It measures the extent to which the dermatological condition impacts on symptoms, daily activity, leisure, work and educational and personal relationships, and impact of physical treatment. It comprises 10 items that are responded to on a 4-point Likert-type scale and the scores are summed to provide an impact of the condition on the patient’s QoL.

Acceptability and use Following the end of the intervention period, participants also completed a self-help evaluation measure. This examined compliance, perceived acceptability and usefulness of the interventions on a 1–5 Likert-type scale (1 = strongly agree to 5 = strongly disagree).

Intervention development

The self-help materials were written by the authors, who have experience in providing one-to-one therapy using this model. Service user feedback was sought from the Psoriasis Association (UK). The two self-help interventions that were developed for the trial (one for mindfulness and another for compassion) were components of CMT. The first, compassionate self-help, is designed to strengthen compassionate intention and competencies. This intervention aims to teach patients with psoriasis how to react in a kind, caring and compassionate way to the experience of psoriasis, both through physically saying and doing things to alleviate psoriasis-related distress (e.g. by holding pain or itchy experiences gently, as if they were a crying baby or a priceless, fragile work of art), and by internally working with themselves through guided exercises (e.g. empathizing and thinking kindly about the experience they have gone through). The second self-help intervention focused on developing mindfulness via a guided breathing exercise. This intervention focuses on cultivating a soothing rhythm of breathing. It focuses on fostering flexible attention to the psoriasis experience, and instead of cutting off or getting caught up in self-defeating thoughts and behaviours, engaging fully in more productive and value-based activities by narrowing, focusing and sustaining attention on these activities. This can be cultivated via breathing exercises in which individuals are instructed to pay attention to and refocus on experiences they can control, as opposed to the itchy and uncomfortable sensations from psoriasis they cannot.

The final set of the two self-help interventions each comprised written materials and an audio MP3 file with exercises. The main written material followed a four-step format. In step 1, participants are introduced to the rationale of the two concepts examined, either developing a skill in compassionate self-imagery or a mindful breathing technique. In step 2, participants were prepared to overcome challenges in practising the exercises (such as emotional/cognitive barriers, e.g. ‘I can’t do this’ or time constraints). In step 3, participants were introduced to the main techniques (developing compassionate self-imagery or mindful soothing rhythm breathing) through an accompanying audio MP3. In the final step 4, participants
were invited to put together a plan to practise the newly acquired skills. The goal planner used in this step was based on implementation intention theory. Implementation intentions are specific plans of action, which specify exactly where and how to act in future situations. In a meta-analysis of 94 studies, implementation intentions had a medium-to-large effect on achievement of intended goals. A study investigating self-help for vitiligo augmented through implementation intentions showed enhanced self-help to be more effective than standard self-help. Therefore, an implementation intention was embedded within both self-help interventions to enhance use of materials.

Statistical analysis

Data were analysed with IBM SPSS Statistics, Version 19.0 (IBM Corp., Armonk, NY, USA) with alpha level set at 0.05 for statistical tests. Data underwent both intention-to-treat (ITT) analysis (n = 130) and completer analysis (n = 92). To evaluate the success in randomization at baseline, group comparisons were calculated with χ²-tests for categorical variables and through multivariate analysis of variance (MANOVA) for continuous variables. The same procedures were conducted to compare completers and those who dropped out.

Pre–post effect sizes were calculated using starting mean – end mean/starting SD for both ITT and completers. To evaluate the efficacy of the self-help interventions, a two-way mixed analysis of variance (ANOVA; group or time effects and interaction effects) was conducted for each measure. To evaluate self-help acceptability, usability and frequency of use, participant responses on the feedback questionnaire were converted to percentages, and χ²-tests were also conducted to explore differences between treatment groups.

Results

Attrition

Of the 130 participants randomized, 38 participants dropped out, with overall attrition at 29%. A MANOVA test revealed no significant difference between completers (n = 92) and noncompleters (n = 38) on the outcomes of interest [F (4,125) = 2.09, P = 0.086, η²p = 0.06]. Reasons for dropping out included technical difficulties, difficulties engaging with the materials, time constraints and poor health. Of those that dropped out, 27 were completely lost at follow-up.

Baseline comparisons

Preintervention, 130 participants were randomized into either the compassionate or mindfulness intervention (n = 65 each). There were no significant differences found between the intervention groups on the preintervention measures [F(4,125) = 0.81, P = 0.52, η²p = 0.03]. A significant difference in the percentage of participants prescribed antidepressant medication was found, with more people in the mindfulness group reporting the use of antidepressant medication (20%) compared with those in the compassion group (8%) [χ² (1, n = 130) = 3.16, P = 0.04]. There were no other significant differences between the intervention groups on the demographic variables (Table 1).

Descriptive statistics and effect size

Table 2 presents the group means and SDs for shame (OAS), self-criticizing, attacking and self-reassuring (FSCRS) and for QoL (DLQI), pre- and post-intervention for ITT (n = 130) and completers (n = 92). The effects were larger for study completers with small–moderate effects, with QoL showing the largest effects (ranging from 0.43 to 0.68).

Intention-to-treat effects of interventions

A two-way mixed ANOVA revealed no significant interactions (time × treatment group) or main effect of group, indicating no difference in the effectiveness of the two treatment groups in reducing shame. However, there was a significant effect of time, indicating that both groups showed a statistically significant reduction in shame from T1 to T2. This pattern of results was found for the other measures (Table 3). Repeating the analysis for study completers (n = 92) revealed the same pattern in the outcomes (Table 4).

User feedback

Feedback on the usefulness and usability (compassion n = 44, mindfulness n = 48) of the self-help interventions revealed

Table 1 Characteristics of sample by treatment group at baseline (n = 130)

| Variable                | Compassion (n = 65) | Mindfulness (n = 65) | χ² | P-value |
|-------------------------|---------------------|----------------------|----|---------|
| Gender                  |                     |                      |    |         |
| Female                  | 40                   | 47                   |    | 0.192   |
| Male                    | 25                   | 18                   |    |         |
| Age, years              |                     |                      |    |         |
| 16–25                   | 14                   | 6                    |    |         |
| 26–35                   | 19                   | 17                   |    |         |
| 36–45                   | 18                   | 17                   |    |         |
| 46–55                   | 8                    | 16                   |    |         |
| 56–66                   | 6                    | 9                    |    | 0.158   |
| Ethnicity               |                     |                      |    |         |
| White                   | 56                   | 54                   |    | 0.627   |
| Black, Asian & Mixed    | 9                    | 11                   |    |         |
| Education               |                     |                      |    |         |
| Secondary               | 9                    | 9                    |    |         |
| Higher college          | 19                   | 18                   |    |         |
| University/postgraduate | 37                   | 38                   |    | 0.980   |
| Accessing emotional support | 57               | 54                   |    | 0.456   |
| Comorbid health condition | 12                 | 12                   |    | 1.0     |
| Comorbid psychological  | 16                   | 16                   |    | 1.0     |
| Psoriatic arthritis     | 12                   | 17                   |    | 0.292   |
| Antidepressant medication | 5                   | 13                   |    | 0.042   |
similar group experiences. There were no adverse reactions reported. There was high agreement that the audio techniques were 'easy to follow': compassion 86%; mindfulness 96%. There was high agreement about the helpfulness of the information specific to the respective technique: compassion 74%; mindfulness 88%. A $\chi^2$-test indicated that the percentage who found information helpful did not differ by treatment condition [$\chi^2(1, n = 92) = 1.92, P = 0.166$]. The goal planner, intended to enhance use of the materials, did not appear to be successful within the current study: 45% (compassion) and 54% (mindfulness) were either unsure or disagreed that it was useful. Finally, the perceived usefulness of the audio exercise was 62% (compassion) and 63% (mindfulness).

Table 2  Descriptive and pre–post effect sizes for intention to treat (ITT) ($n = 130$) and completers ($n = 92$)

| Group                  | Mean intake | Mean end | Mean difference | SD intake | Cohen’s $d$ |
|------------------------|-------------|----------|-----------------|-----------|-------------|
| Compassion ITT ($n = 65$) |             |          |                 |           |             |
| Shame (OAS)            | 28.95       | 26.09    | 2.86            | 12.66     | 0.23        |
| Quality of life (DLQI) | 14.63       | 11.38    | 3.25            | 7.19      | 0.45        |
| Hated-Self (FSCRS)     | 5.95        | 5.26     | 0.69            | 4.64      | 0.15        |
| Reassured-Self (FSCRS) | 14.78       | 16.20    | 1.42            | 6.57      | 0.22        |
| Mindfulness ITT ($n = 65$) |            |          |                 |           |             |
| Shame (OAS)            | 30.80       | 28.05    | 2.75            | 13.45     | 0.20        |
| Quality of life (DLQI) | 14.25       | 11.37    | 2.88            | 6.73      | 0.43        |
| Hated-Self (FSCRS)     | 5.91        | 5.26     | 0.65            | 4.66      | 0.14        |
| Reassured-Self (FSCRS) | 15.49       | 17.08    | 1.59            | 6.11      | 0.26        |
| Compassion completer ($n = 44$) |         |          |                 |           |             |
| Shame (OAS)            | 27.98       | 23.75    | 4.23            | 13.46     | 0.31        |
| Quality of life (DLQI) | 13.73       | 8.93     | 4.80            | 7.09      | 0.68        |
| Hated-Self (FSCRS)     | 5.80        | 4.77     | 1.03            | 4.69      | 0.22        |
| Reassured-Self (FSCRS) | 15.34       | 17.43    | 2.09            | 7.06      | 0.30        |
| Mindfulness completer ($n = 48$) |          |          |                 |           |             |
| Shame (OAS)            | 29.21       | 25.48    | 3.73            | 14.05     | 0.27        |
| Quality of life (DLQI) | 13.79       | 9.90     | 3.89            | 6.74      | 0.58        |
| Hated-Self (FSCRS)     | 5.75        | 4.87     | 0.88            | 4.97      | 0.18        |
| Reassured-Self (FSCRS) | 16.42       | 18.56    | 2.14            | 6.53      | 0.33        |

OAS, Other as Shamer Scale; DLQI, Dermatology Life Quality Index; FSCRS, Forms of Self-Criticizing/Attacking & Self-Reassuring Scale.

Table 3 Intention-to-treat (ITT) analysis of variance ($n = 130$)

| Measure                  | df | F       | $\eta^2$ | P-value |
|--------------------------|----|---------|----------|---------|
| Between subjects         |    |         |          |         |
| Shame (OAS)              | 1,128 | 0.72    | 0.01     | 0.398   |
| Quality of life (DLQI)   | 1,128 | 0.03    | 0.00     | 0.866   |
| Hated-Self (FSCRS)       | 1,128 | 0.00    | 0.00     | 0.977   |
| Reassured-Self (FSCRS)   | 1,128 | 0.53    | 0.00     | 0.467   |
| Within subjects          |    |         |          |         |
| Shame (OAS)              | 1,128 | 19.65   | 0.13     | 0.000   |
| Time x group             | 1,128 | 0.01    | 0.00     | 0.932   |
| Quality of life (DLQI)   | 1,128 | 40.71   | 0.24     | 0.000   |
| Time x group             | 1,128 | 0.15    | 0.00     | 0.701   |
| Hated-Self (FSCRS)       | 1,128 | 8.17    | 0.06     | 0.003   |
| Time x group             | 1,128 | 0.01    | 0.00     | 0.922   |
| Reassured-Self (FSCRS)   | 1,128 | 16.75   | 0.12     | 0.000   |
| Time x group             | 1,128 | 0.05    | 0.00     | 0.818   |

df, degrees of freedom; OAS, Other as Shamer Scale; DLQI, Dermatology Life Quality Index; FSCRS, Forms of Self-Criticizing/Attacking & Self-Reassuring Scale. P-values <0.05 (shown in bold) were considered statistically significant.

Table 4 Completer analysis of variance ($n = 92$)

| Measure                  | df | F       | $\eta^2$ | P-value |
|--------------------------|----|---------|----------|---------|
| Between subjects         |    |         |          |         |
| Shame (OAS)              | 1,90  | 0.29    | 0.00     | 0.591   |
| Quality of life (DLQI)   | 1,90  | 0.15    | 0.00     | 0.696   |
| Hated-Self (FSCRS)       | 1,90  | 0.00    | 0.00     | 0.976   |
| Reassured-Self (FSCRS)   | 1,90  | 0.68    | 0.01     | 0.413   |
| Within subjects          |    |         |          |         |
| Shame (OAS)              | 1,90  | 20.94   | 19       | 0.000   |
| Time x group             | 1,90  | 0.08    | 0.00     | 0.775   |
| Quality of life (DLQI)   | 1,90  | 47.10   | 0.34     | 0.000   |
| Time x group             | 1,90  | 0.51    | 0.01     | 0.479   |
| Hated-Self (FSCRS)       | 1,90  | 8.38    | 0.09     | 0.005   |
| Time x group             | 1,90  | 0.05    | 0.00     | 0.822   |
| Reassured-Self (FSCRS)   | 1,90  | 17.53   | 0.16     | 0.000   |
| Time x group             | 1,90  | 0.00    | 0.00     | 0.957   |

df, degrees of freedom; OAS, Other as Shamer Scale; DLQI, Dermatology Life Quality Index; FSCRS, Forms of Self-Criticizing/Attacking & Self-Reassuring Scale. P-values <0.05 (shown in bold) were considered statistically significant.
Discussion

This is one of the first studies to provide support for the use of cognitive behavioural therapy self-help based on compassion and mindfulness in patients living with psoriasis. It is also one of only a few studies to examine the benefits such interventions might have on reducing skin-related feelings of shame and thoughts of self-criticism. Following the end of the intervention period, both treatment conditions showed modest yet statistically significant differences between the pre- and post-treatment group means on all the outcomes of interest including QoL. The present study findings differ from other recent studies insofar as finding positive benefits of mindfulness- and compassion-based self-help. We hypothesize that this is likely to be a result of our sample being selected so as to comprise a sufficient number of patients with psoriasis exhibiting some signs of significant distress, and thus our study avoided encountering the floor effects seen in some other studies.

The perceived usefulness and acceptability of the interventions were examined at post-treatment through an evaluation questionnaire. Data available for 70% of the randomized sample for both treatment groups showed that the vast majority of participants reported finding the materials helpful and effective. The data examining the frequency of use of the interventions showed wide variations within both groups, with participants being more likely to use the audio than the written materials. This suggests that future development of self-help should utilize audio and video delivery formatting.

Both groups used the goal planner sporadically, and approximately half of the participants in each group reported feeling confused as to the usefulness of this part of the intervention. This is contrary to research that has found implementation intentions to promote compliance in a number of behavioural domains. While the current study did not intend to formally test the use of implementation intentions via the goal planner that was embedded in the materials of both groups, the use of implementation intentions in this form of self-help for psoriasis clearly requires further investigation.

The lack of an interaction effect between group and time may be attributed to the self-help interventions being components of single therapeutic modalities. In compassionate mind therapeutic approaches, mindful soothing rhythm breathing is used as a way to prepare one’s mind for practice. Gilbert has reflected that mindfulness allows for the ability to reflect on one’s mental states and cultivate a calm mind. It could be argued that paying attention to the present moment, while letting go of preoccupations about the past or future, can in itself cultivate soothing and self-compassion. Thus, future randomized controlled trials would have to consider carefully the appropriateness of a chosen comparator. Future studies should attempt to evaluate each component separately with an additional group, targeted at compassionate and mindful techniques.

The study has several methodological limitations. Recruitment and delivery occurred completely online. This has enabled us to reach participants who might not be receiving active secondary dermatological care, but has also made the objective diagnosis of psoriasis difficult. For the same reasons, the online recruitment resulted in participation of younger in age female individuals who are usually open to new ideas and approaches. Most of the sample (80%) was recruited from the UK Psoriasis Association, and the participating group was well educated. This poses additional issues for generalization, particularly to older individuals or men. In the same vein, some of the patients were taking antidepressant medication, which might have affected the study findings, and also the overall sample size could be characterized as small for such a large community of patients with psoriasis. Future research should aim to recruit a larger and more heterogeneous group coming from dermatology clinics, who present with more medical and psychosocial challenges.

Further, while current research supports the use of subjective disease severity ratings, as it has been found to be closely correlated with measures of distress, the lack of an objective measure of psoriasis severity remains problematic and should be addressed in future studies. Additionally, information on age of onset, pruritus intensity, use of illegal substances or current treatment was not collected, and recording these types of data should be included in future studies. The study did not have the resources to conceal allocation or blind the research team. Effort was made to reduce bias through independent randomization and allocation.

In conclusion, the current study suggests that self-help interventions based on compassion-focused therapy have clinical relevance and are welcomed by a community psoriasis sample. This study demonstrated a respectable rate of recruitment over a 9-month period. The improvements were modest, yet demonstrate potential for the benefit of brief self-help interventions. It is encouraging that, despite the limitations of unguided self-help, the study has shown self-help can reach a wide audience who do not have access to structured psychological support.

References

1. Mehrmal S, Uppal P, Nedley N et al. The global, regional, and national burden of psoriasis in 195 countries and territories, 1990 to 2017: a systematic analysis from the Global Burden of Disease Study 2017. J Am Acad Dermatol 2021; 84:46–52.
2. Leary MR, Rapp SR, Herbst KC et al. Interpersonal concerns and psychological difficulties of psoriasis patients: effects of disease severity and fear of negative evaluation. Health Psychol 1998; 17:530–36.
3. Sampogna F, Tabolli S, Abeni D et al. Living with psoriasis: prevalence of shame, anger, worry, and problems in daily activities and social life. Acta Derm Venereol 2012; 92:299–303.
4. Vardy D, Besser A, Amir M et al. Experiences of stigmatization play a role in mediating the impact of disease severity on quality of life in psoriasis patients. Br J Dermatol 2002; 147:736–42.
5. Akay A, Pekcanlar A, Bozdag KE et al. Assessment of depression in subjects with psoriasis vulgaris and lichen planus. J Eur Acad Dermatol Venereol 2002; 16:347–52.
Compassion-focused self-help for psoriasis, Z. Muftin et al.

6 Fortune DG, Richards HL, Griffiths CEM. Psychologic factors in psoriasis: consequences, mechanisms, and interventions. Dermat Clin 2005; 23:681–94.

7 Richards HL, Fortune DG, Griffiths CEM, Main Cj. The contribution of perceptions of stigmatisation to disability in patients with psoriasis. J Psychosom Res 2001; 50:11–15.

8 National Institute for Health and Care Excellence (NICE). Psoriasis: the management of psoriasis. NICE guideline. Draft for consultation, May 2012. Available at: https://www.nice.org.uk/guidance/CG153/documents/psoriasis-nice-guideline2 (last accessed 20 February 2022).

9 Zill JM, Christalle E, Tillenburg N et al. Effects of psychosocial interventions on patient-reported outcomes in patients with psoriasis: a systematic review and meta-analysis. Br J Dermatol 2019; 181:939–45.

10 Lavda AC, Webb TL, Thompson AR. A meta-analysis of the effectiveness of psychological interventions for adults with skin conditions. Br J Dermatol 2012; 167:970–9.

11 Muftin Z, Thompson AR. A systematic review of self-help for disfigurement: effectiveness, usability, and acceptability. Body Image 2013; 10:442–50.

12 Zachariae R, Øster H, Bjerring P, Kragballe K. Effects of psychological intervention on psoriasis: a preliminary report. J Am Acad Dermatol 1996; 34:1008–15.

13 Hudson MP, Thompson AR, Emerson L-M. Compassion-focused self-help for psychological distress associated with skin conditions: a randomized feasibility trial. Psychol Health 2020; 35:1095–114.

14 Fordham B, Griffiths CEM, Bundy C. Can stress reduction interventions improve psoriasis? A review. Psychol Health Med 2013; 18:501–14.

15 Smart Richman L, Leary MR. Reactions to discrimination, stigmatization, ostracism, and other forms of interpersonal rejection: a multimotive model. Psychol Rev 2009; 116:365–83.

16 Bower P, Gilbody S. Stepped care in psychological therapies: access, effectiveness and efficiency. Narrative literature review. Br J Psychiatry 2005; 186:11–17.

17 Hirai M, Clum GA. A meta-analytic study of self-help interventions for anxiety problems. Behav Ther 2006; 37:99–111.

18 Kabat-Zinn J, Wheeler E, Light T et al. Influence of a mindfulness meditation-based stress reduction intervention on rates of skin clearing in patients with moderate to severe psoriasis undergoing photo therapy (UVB) and photochemotherapy (PUVA). Psychosom Med 1998; 60:625–32.

19 Qureshi AA, Awosika O, Baruffi F et al. Psychological therapies in management of psoriatic skin disease: a systematic review. Am J Clin Dermatol 2019; 20:607–24.

20 Montgomery K, Norman P, Messenger AG, Thompson AR. The importance of mindfulness in psychosocial distress and quality of life in dermatology patients. Br J Dermatol 2016; 175:930–6.

21 Gilbert P, Procter S. Compassionate mind training for people with high shame and self-criticism: overview and pilot study of a group therapy approach. Clin Psychol Psychother 2006; 13:353–79.

22 Kent G, Thompson, AR. Models of disfigurement: implications for treatment. In: Body Shape: Conceptualisation, Research, and Treatment (Gilbert P, Miles J, eds), Hove: Brunner-Routledge, 2002; 106–16.

23 D’Alton P, Kinsella L, Walsh O et al. Mindfulness-based interventions for psoriasis: a randomized controlled trial. Mindfulness 2019; 10:288–300.

24 Krassuska M, Millings A, Lavda A, Thompson AR. Compassion focussed self-help for skin conditions in individuals with insecure attachment: a pilot evaluation of the acceptability and potential effectiveness. Br J Dermatol 2018; 178:e122–e123.

25 Kelly AC, Zuroff DC, Shapiro LB. Soothing oneself and resisting self-attacks: the treatment of two intrapersonal deficits in depression vulnerability. Cognit Ther Res 2009; 33:301–13.

26 Thompson A. Managing the psychosocial impact of skin conditions: theory and the nursing role. Dermatol Nurs 2009; 8:43–8.

27 Allan S, Gilbert P, Goss K. An exploration of shame measures: II. Psychopathology. Pers Indiv Dif 1994; 17:719–22.

28 Baiao R, Gilbert P, McEwan K, Carvalho S. Forms of Self-Criticising/Attacking & Self-Reassuring Scale: psychometric properties and normative study. Psychol Psychother: Theory Res Pract 2015; 88:438–52.

29 Finlay AY, Khan G. Dermatology Life Quality Index (DLQI)—a simple practical measure for routine clinical use. Clin Exp Dermatol 1994; 19:210–16.

30 Ajzen, I. From intentions to actions: a theory of planned behavior. In: Action Control: From Cognition to Behavior (Kuhl J, Beckmann J, eds). Berlin: Springer-Verlag, 1985; 11–39.

31 Gollwitzer PM, Schaal B. Metacognition in action: the importance of implementation intentions. Pers Soc Psychol Rev 1998; 2:124–36.

32 Gollwitzer PM, Sheeran P. Implementation intentions and goal achievement: a meta-analysis of effects and processes. Adv Exp Soc Psychol 2006; 38:249–68.

33 Shah R, Hunt J, Webb TL, Thompson AR. Starting to develop self-help for social anxiety associated with vitiligo: using clinical significance to measure the potential effectiveness of enhanced psychological self-help. Br J Dermatol 2014; 171:332–7.

34 Gilbert P. Compassion: from its evolution to a psychotherapy. Front Psychol 2020; 11:586161.

35 Lim DS, Bewley A, Oon HH. Psychological profile of patients with psoriasis. Ann Acad Med Singap 2018; 47:516–22.

36 Kılıç A, Gülęç MY, Gül Ü, Gülęç H. Temperature and character profile of patients with psoriasis. J Eur Acad Dermatol Venereol 2008; 22:537–42.

37 Öng J, Clarke A, White P et al. Does severity predict distress? The relationship between subjective and objective measures of appearance and psychological adjustment, during treatment for facial lipoatrophy. Body Image 2007; 4:239–48.

38 Schulz KP, Altman DG, Moher D et al. CONSORT 2010 statement: updated guidelines for reporting parallel group randomised trials. BMJ 2010; 340:c332.