Personal Wellbeing Score (PWS) – a short version of ONS4: development and validation in social prescribing

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ABSTRACT

Aims Our aim was to develop a short generic measure of subjective well-being for routine use in patient-centred care and healthcare quality improvement alongside other patient-reported outcome and experience measures.

Methods The Personal Wellbeing Score (PWS) is based on the Office of National Statistics (ONS) four subjective well-being questions (ONS4) and thresholds. PWS is short, easy to use and has the same look and feel as other measures in the same family of measures. Word length and reading age were compared with eight other measures.

Anonymous data sets from five social prescribing projects were analysed. Internal structure was examined using distributions, intra-item correlations, Cronbach's α and exploratory factor analysis. Construct validity was assessed based on hypothesised associations with health status, health confidence, patient experience, age, gender and number of medications taken. Scores on referral and after referral were used to assess responsiveness.

Results Differences between PWS and ONS4 include brevity (42 vs 114 words), reading age (9 vs 12 years), response options (4 vs 11), positive wording throughout and a summary score. 1299 responses (60% female, average age 81 years) from people referred to social prescribing services were analysed; missing values were less than 2%. PWS showed good internal reliability (Cronbach's $\alpha=0.90$). Exploratory factor analysis suggested that all PWS items relate to a single dimension. PWS summary scores correlate positively with health confidence ($r=0.60$), health status ($r=0.58$), patient experience ($r=0.30$) and age group ($r=0.24$). PWS is responsive to social prescribing intervention.

Conclusions The PWS is a short variant of ONS4. It is easy to use with good psychometric properties, suitable for routine use in quality improvement and health services research.

BACKGROUND

Subjective well-being refers specifically to how people experience and evaluate their lives and specific domains and activities in their lives.^{1,2} It has several facets: (1) evaluative well-being (or life satisfaction), (2) eudemonic well-being (a sense of purpose and meaning in life) and (3) hedonistic well-being or affect (feelings of happiness, sadness etc). Hedonistic well-being includes both positive experiences, such as happiness, and negative experiences, such as anxiety. Only

the person involved can provide information about his or her personal well-being.

In 2009, the Stiglitz-Sen-Fitoussi *Commission on the Measurement of Economic Performance and Social Progress* recommended that national statistical agencies collect measures of subjective well-being.³ In 2011, the UK Office of National Statistics (ONS) introduced four subjective well-being questions (ONS4) in the Annual Population Survey.⁴⁻⁶ These questions are designated National Statistics and have been approved as a Government Statistical Service Harmonised Principle.⁷ The four ONS4 questions relate to evaluative well-being, eudemonic well-being and positive and negative affect.⁸

Focus groups with members of the public conducted by ONS in 2013 found that the term *personal well-being* is clearer and simpler to understand than *subjective well-being*. In light of this, both the questions and findings from them have been referred to by ONS as *personal well-being* since then.⁷

The Organisation for Economic Co-operation and Development (OECD) has developed a similar measure (OECD core questions), adding an extra affect question about depression.⁹

DEVELOPMENT

In 2015, the North-East Hampshire and Farnham (NEHF) NHS Vanguard project (using the brand name *Happy, Healthy at Home*) was established.¹⁰ (Vanguards were projects funded by NHS England to test new care models). The project team identified a requirement for a short, easy-to-use measure of subjective well-being, to be used alongside short generic measures of health status (*howRu*),¹¹ patient experience (*howRwe*)¹² and health confidence (HCS).¹³ These measures share a strong family resemblance. Each measure has four question items and four response options, which are labelled, colour-coded and use emoji. They are generic

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Personal Wellbeing Score

To what extent do you agree or disagree with these?

	Strongly agree	Agree	Neither agree nor disagree	Disagree
I am satisfied with my life				
What I do in my life is worthwhile				
I was happy yesterday				
I was NOT anxious yesterday				

Figure 1 Initial version of Personal Wellbeing Score (2015).

Personal Wellbeing

How are you feeling in general?
How much do you agree?

	Strongly agree	Agree	Neutral	Disagree
I am satisfied with my life				
What I do in my life is worthwhile				
I was happy yesterday				
I was NOT anxious yesterday				

Figure 2 Personal Wellbeing Score.

(condition-independent), short and have a low reading age.

We reviewed the subjective well-being literature, and after considering alternatives, including the Short Warwick-Edinburgh Mental Wellbeing Scale,¹⁴ the decision was made to explore the feasibility of adapting the ONS4 questions to the R-Outcomes format. The ONS encourages the use and adaption of ONS4 within other government departments, local government, charities and the private sector.⁵

Design criteria for person-reported outcome measures include clarity, brevity, suitability for frequent use, multi-modality (suitability for use with multiple data collection modalities including smartphones), responsiveness, good psychometric properties and easily understood scoring.^{15 16} Results should be easy to understand, interpret and action by all stakeholders, and be comparable for benchmarking.

Initial draft versions of the Personal Wellbeing Score (PWS) were designed and the wording was refined using co-production with NEHF staff and patients. The first version to be tested with patients (2015) is shown in [figure 1](#). The final version is shown in [figure 2](#).

The principal changes from ONS4 to the final version of PWS and the reasons for these are described below in terms of response options, items and scoring.

Response options

The scale was changed from an 11-point scale, anchored at *not at all*=0 and *completely*=10, to four options: *Strongly agree*, *Agree*, *Neutral* and *Disagree* as used in other R-Outcomes measures. The response option *Neutral* was initially worded *Neither agree nor disagree*. It was changed to *Not sure* because people thought that *Neither agree nor disagree* was

too clunky. However, *Not sure* implies lack of certainty and so it was finally changed to *Neutral*, which received no objections.

The PWS response options relate to the four threshold groups used in ONS4 publications.⁷ For ONS4 life satisfaction, worthwhile and happiness scores, responses 9–10 are grouped as *Very high*, 7–8 as *High*, 5–6 as *Medium* and 0–4 as *Low*. For anxiety scores, responses 6–10 are grouped as *High*, 4–5 as *Medium*, 2–3 as *Low* and 0–1 as *Very low*.

The PWS has no *strongly disagree* option because in most populations, the results are strongly skewed towards high well-being scores and, in general, scales should approximate the actual distribution of the characteristic in the population.¹⁷ For example, in a study which used a 5-point variant of ONS4, only 2% of responses chose the option most closely matched to *strongly disagree*.¹⁸

The PWS response options are ordered left to right from best (*Strongly agree*) to worst (*Disagree*). However, in ONS4, the response options are ordered left to right from worst-to-best for three ONS4 items, and best-to-worst for anxiety.

PWS response options are usually colour-coded (*Strongly agree* is green, *Agree* is yellow, *Neutral* is orange and *Disagree* is red) and annotated with emoji. Using a touch screen, respondents press the emoji representing the appropriate responses. Using paper, they tick, cross or circle them. All PWS items are optional and responses may be left blank.

Items

The ONS4 items were changed to reduce word count and reading age.

The life evaluation question *Overall, how satisfied are you with your life nowadays?* became *I am satisfied with my life*.

The worthwhile (eudemonia) question *Overall, to what extent do you feel the things you do in your life are worthwhile?* became *What I do in my life is worthwhile*.

The positive affect question *Overall, how happy did you feel yesterday?* became *I was happy yesterday*.

The initial version (see figure 1) of the original ONS negative affect question *Overall, how anxious did you feel yesterday?* used the original ONS scale direction but, after input from users, the scale direction was reversed from negative to positive. It became *I was NOT anxious yesterday*. The potential problems of a double negative (not anxious) are offset by consistency between questions and simpler scoring and reporting.

Scoring

Each PWS item is scored as follows: *Disagree*=0, *Neutral*=1, *Agree*=2 and *Strongly Agree*=3. A high score is better than a low score.

The PWS calculates a summary score as the sum of the four item scores, giving a 13-point scale from 0 (4×*Disagree*) to 12 (4×*Strongly agree*). ONS4 does not provide a summary score.

For populations, the mean item scores and summary score are transformed to a 0–100 scale; for items: (mean item score)×100/3; for summary score: (mean summary score)×100/12.

A common 0–100 scale allows the mean item and summary scores to be compared on the same scale. A score of 100 is obtained when all respondents choose the highest possible score (the ceiling) and 0 when all choose the lowest possible score (the floor).

METHODS

Length and readability

The length and readability of PWS were compared with the standard version of ONS4⁷ and OECD Core Questions⁹ and six other measures of well-being and related concepts, which are used in the UK.^{19–20} These are ONS4 concise format,¹⁹ General Health Questionnaire,²¹ Short Warwick-Edinburgh Mental Wellbeing Scale,¹⁴ Euroqol EQ-5D-3L,²² ICECAP-A,²³ and Adult Social Care Outcomes Tool.²⁴

Readability was measured using the Flesch-Kincaid Readability Grade.²⁵ It has been recommended that patients should not be asked to complete questionnaires with a reading age of more than 10,²⁶ which corresponds roughly to Flesch-Kincaid Readability Grade 5.

Testing and validation

We performed secondary analysis of data collected between April 2016 and March 2017 as part of the evaluation of five social prescribing services in the Wessex region of England (Hampshire and surrounding districts) to examine the psychometric properties and construct validity of PWS.

Social prescribing is an intervention in healthcare, where a general practitioner or other healthcare practitioner refers patients with social or practical needs

to a local provider of non-clinical services, via a link worker.^{27–29}

The evaluations used a mixed-methods approach,³⁰ including economic, qualitative and survey methods. Each intervention was broadly similar but with minor differences in case mix, support skills and on-call availability. The choice of measures and method of data collection were agreed with each service in advance.

Each service used its own survey, which included PWS, howRu health status measure, howRwe patient experience measure, health confidence score (HCS), two items on service integration (*services talk to each other* and *I don't have to repeat my story*), gender, age in deciles and number of medications being taken.

All surveys were in English and all items were optional. All responses were anonymous. As a general rule, all people seen during the period of the evaluation were asked to complete the surveys. The number of people who declined to participate in the whole survey was not recorded but is understood to be small.

Responses were collected (1) *on referral* at first visit to the patient's home, and (2) 1 or 2 months *after referral* and after the intervention. The exact dates were not recorded. Some *after referral* surveys were collected over the telephone in the home, but the mode of data collection was not recorded. Most responses were recorded on a paper copy and transcribed later onto the R-Outcomes server. There was no linkage between responses *on referral* and *after referral*.

Sample size, missing data and distribution: We measured the number of responses and missing data *on referral* and *after referral*. A small number of responses (n=4) without a record of *on referral* or *after referral* cohort were excluded. Response distributions and summary statistics (including overall summary score, means, SD and proportion of responses in floor [lowest] and ceiling [highest] states) were calculated *on referral*, *after referral*, gender, age group and number of medications taken.

Internal consistency: The degree of interrelatedness among the items, assessed by correlations between the items, was expected to be in the range 0.4 to 0.6, with the strongest correlation between the pairs of items on positive and negative experience, then life evaluation and worthwhileness (convergent validity). We expected Cronbach's α to be between 0.7 and 0.9, which would support the use of an aggregate summary score.³¹

Factor analysis was applied to the whole data set (using an oblique rotation, Promax, as we expected constructs to be correlated) for the individual questions in PWS, health status (howRu), health confidence (HCS) and patient experience (howRwe) and the two additional experience questions asked.

Construct validity is the degree to which the scores of an instrument are consistent with hypotheses, such as internal relationships, relationships to scores of other instruments or differences between relevant groups, based on the assumption that the instrument validly measures the construct to be measured.³² This was

assessed by the measure being sensitive to clinical interventions, such as the social prescribing service. We hypothesised that:

- ▶ Personal well-being would be lower *on referral* than *after referral*.
- ▶ There would be little difference in personal well-being between men and women.
- ▶ Personal well-being would be positively associated health status, health confidence and, less strongly, with patient experience.
- ▶ Personal well-being would be higher in older people because older people tend to report higher well-being than those of working age.^{1 33}
- ▶ Personal well-being would fall with the number of medications taken because well-being is positively correlated with health.

Responsiveness is the ability of an instrument to detect change over time in the construct to be measured. This was assessed by comparing the results of the *on referral* and *after referral* cohorts.

Ethics statement

We carried out secondary analysis of data collected as part of routine service evaluation of social prescribing services. The data were anonymous and undertaken to evaluate the current services without randomisation, so ethics approval was not required. No data were collected by the services until after patients had consented and there was no risk to individual participants.³⁴

Patient and public involvement

The need for a simple measure of personal well-being was an explicit finding of focus groups with patients organised by the NEHF Vanguard project, which led to the name *Happy, Healthy at Home*. Patients were asked to complete the surveys and complied willingly. The results of the evaluation projects were provided to participants to request comments and for feedback. This paper is based on secondary analysis of that data.

RESULTS

Length and readability

Table 1 shows the number of items, word count, Flesch-Kincaid Grade and estimated reading age for PWS and eight other measures. PWS is shortest with lowest word count (42) and reading age (9).

Sample size, missing data and distribution

Table 2 shows frequency distributions and mean scores on 0–100 scales for personal well-being (PWS), health status (howRu), health confidence (HCS) and patient experience (howRwe) by gender, age group, encounter type and number of medications taken.

The frequency distribution for each PWS item is shown in table 3. The floor state accounted for 2.8% and the ceiling 15.2%. The distribution of responses covers the whole range, with no indication of problematic floor or ceiling effects.

All items in the survey were optional. Missing values for individual PWS items were between 0.8% and 1.3%. Missing data were identified in 25 (1.9%) across all four PWS items. This is similar to the proportion of missing data on other items, such as health status (howRu, 1.6%), health confidence (HCS, 1.1%), gender (1.1%), age decile (2.8%) and number of medications taken (2.8%).

Internal consistency

The highest inter-item correlations are between the two evaluative items *I am satisfied with my life* and *What I do in my life is worthwhile* ($r=0.77$) and the two experience items *I was happy yesterday* and *I was NOT anxious yesterday* ($r=0.73$). The lowest inter-item correlation is between *I am satisfied with my life* and *I was NOT anxious yesterday* ($r=0.51$). Correlations between individual items and the summary PWS score are all in the range $r=0.83$ to $r=0.88$.

Cronbach's $\alpha=0.90$ is at the top end of the expected range.

Table 1 Number of items, word count, Flesch-Kincaid Grade and reading age for related measures

Measure	Number of items	Word count	Flesch-Kincaid Grade	Reading age (years)
Personal Wellbeing Score	4	42	3.7	9
ONS4 (standard version)	4	114	6.5	12
ONS4 (concise version)	4	62	6.5	12
OECD core questions	5	177	6.4	11
General Health Questionnaire	12	324	6.3	11
Short Warwick-Edinburgh Mental Wellbeing Score	7	89	3.8	9
ICECAP-A	5	264	5.1	10
Adult Social Care Outcome Tool	8	415	5.3	10
EQ-5D-3L (including VAS)	6	263	5.9	11

VAS, visual analogue scale.

Table 2 Frequency distributions and mean scores for personal well-being (PWS), health status (howRu), health confidence (HCS) and patient experience (howRwe) by gender, age group, encounter type and number of medications taken

Variable	n	Personal well-being (PWS)	Health status (howRu)	Health confidence (HCS)	Patient experience (howRwe)
Overall	1324 (100%)	60.4	65.4	70.6	89.2
Gender					
Male	795 (60.0%)	59.5	65.1	71.4	89.8
Female	515 (38.9%)	61.4	65.8	69.4	88.0
N/A	14 (1.1%)	75.7	62.5	71.5	90.9
Age group					
20–29	11 (0.8%)	38.6	54.5	62.1	94.4
30–39	15 (1.1%)	32.8	54.4	65.0	91.7
40–49	7 (0.5%)	56.0	65.5	69.0	100.0
50–59	36 (2.7%)	41.9	50.9	66.2	84.9
60–69	82 (6.2%)	46.0	56.6	65.5	86.3
70–79	256 (19.3%)	57.3	62.4	68.3	87.7
80–89	651 (49.2%)	63.6	68.3	72.7	89.8
90–99	226 (17.1%)	64.9	67.1	70.6	91.3
100+	3 (0.2%)	66.7	41.7	72.2	75.0
N/A	37 (2.8%)	64.6	67.0	69.7	80.3
Type					
On referral	647 (48.9%)	56.0	62.4	66.7	85.4
Post referral	677 (51.1%)	64.6	68.2	74.4	91.7
No of medications					
None	27 (2.0%)	60.7	76.0	71.8	89.9
1 or 2	122 (9.2%)	55.9	66.3	68.5	85.4
3 to 5	539 (40.7%)	63.2	70.6	73.4	90.1
6 to 9	413 (31.2%)	60.6	63.3	69.5	89.7
10 or more	186 (14.0%)	54.8	53.9	66.7	87.3
N/A	37 (2.8%)	60.5	60.7	67.6	85.0

Factor analysis results are shown in [table 4](#). A scree plot implies four or six factors, while Kaiser's criterion implies four. This supports the use of four scales measuring distinct constructs: personal well-being (PWS), health status (howRu), health confidence (HCS) and patient experience (howRwe). In this population, health status subdivides howRu into 'disability' and 'distress', similar to Rosser's seminal classification of disability and distress.³⁵ The PWS items are related and distinct from other questions asked in the survey.

Factor analysis results were broadly the same when repeated on just the *on referral* and *after referral* data.

Construct validity

The correlation between the PWS summary score and health status (howRu summary score) $r=0.58$; with health confidence (HCS summary score) $r=0.60$; with patient experience (howRwe summary score) $r=0.30$; with age decile $r=0.24$; with number of medications $r=-0.05$

Table 3 Frequency counts (%) for each Personal Wellbeing Score item (n=1324)

	Strongly agree	Agree	Neutral	Disagree	Missing items
I am satisfied with my life	315 (23.8%)	633 (47.8%)	239 (18.1%)	126 (9.5%)	11 (0.8%)
What I do in my life is worthwhile	311 (23.5%)	574 (43.4%)	325 (24.5%)	97 (7.3%)	17 (1.3%)
I was happy yesterday	312 (23.6%)	623 (47.1%)	234 (17.7%)	142 (10.7%)	13 (1.0%)
I was NOT anxious yesterday	303 (22.9%)	525 (39.7%)	276 (20.8%)	205 (15.5%)	15 (1.1%)

Table 4 Factor analysis results, using oblique rotation, Promax, showing weights over 0.3

Item	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 6
howRu 1				0.51		
howRu 2				0.51		
howRu 3					0.77	
howRu 4					0.82	
PWS 1			0.69			
PWS 2			0.67			
PWS 3			0.87			
PWS 4			0.82			
HCS 1		0.61				
HCS 2		0.46				
HCS 3		0.71				
HCS 4		0.71				
howRwe 1	0.85					
howRwe 2	0.91					
howRwe 3	0.88					
howRwe 4	0.91					
Services talk to each other	0.36					0.42
No need to repeat story	0.61					0.39

($p=0.08$). All correlations other than with number of medications are significant ($p<0.00001$).

The number of women (60%) is greater than the number of men, but their mean summary PWS score is not statistically different ($p=0.20$).

Age is skewed to older age groups with 64% of participants over 80 years old and 16% over 90. Older participants tend to report higher well-being than younger. In this population of people referred to social prescribing, the mean summary PWS score for participants under 70 is 44, which is low ($n=146$); for those over 70, summary PWS is 63 ($n=1118$).

Responsiveness

The mean scores and 95% CIs of the PWS summary score and each item on 0–100 scale *on referral* and *after referral* are shown in table 5. Differences between *on referral* and *after referral* mean scores are all significant (two-tailed t-test, $p<0.00001$). The mean scores for people who have

received social prescribing services were higher after the intervention (PWS=65) than before (PWS=56), which demonstrates responsiveness.

DISCUSSION

Strengths and limitations

The PWS has been adapted from the Office of National Statistics ONS4 to work alongside other R-Outcomes measures. It is shorter (42 vs 114 words) with a lower reading age (9 vs 12 years). People were happy to answer the PWS questions, as indicated by low numbers of missing values. It meets a need for a short practical measure of well-being that can be used routinely at the point of care.

High internal consistency, as measured by inter-item correlations and Cronbach's α , suggests that it is appropriate to use a single summary score for this instrument, as well as individual item scores.

Table 5 Mean scores (95% CI) on 0–100 scale for Personal Wellbeing Score (PWS) summary and item scores, on referral and after referral

Variable	On referral mean (95% CI)	After referral mean (95% CI)	Mean difference
n	633	666	
PWS Summary Score	56.0 (53.9 to 58.1)	64.6 (62.8 to 66.5)	8.6
I am satisfied with my life	57.9 (55.5 to 60.3)	66.3 (64.2 to 68.4)	8.4
What I do in my life is worthwhile	57.2 (54.9 to 59.6)	65.2 (63.2 to 67.3)	8.0
I was happy yesterday	56.7 (54.2 to 59.2)	66.0 (63.9 to 68.1)	9.3
I was NOT anxious yesterday	52.5 (49.8 to 55.2)	61.1 (58.8 to 63.5)	8.6

Use of secondary analysis of anonymous data collected for a different primary purpose presented some problems. Data collection methods did not capture how many patients declined to participate although we have anecdotal evidence that this number was low.

The proportion of missing data for items within the survey was between 0.8% and 1.3%, and 1.9% across all four items. This compares favourably with reported missing value rates for items in SF-36 and EQ-5D of 3.1% and 4.3%, respectively.³⁶ In a sample of 65 000 preoperative questionnaires for hip replacement surgery, EQ-5D has 5.2% missing values.³⁷

We only have *on referral* and *after referral* cohorts. Anonymous data do not allow test–retest reliability, inter-rater reliability or change within individuals to be estimated.

The *on referral* ratings were collected face-to-face, but some *after referral* ratings were collected by telephone. There is evidence that telephone surveys may elicit slightly higher ratings for well-being than face-to-face interviews,³⁸ but we have no data about the mode of administration.

The study population comprised people receiving social prescribing interventions, mostly over 80, with multiple conditions. Further research is needed to explore the performance of the PWS in other populations.

Comparison with existing literature

Our results are consistent with hypotheses to test construct validity. PWS summary scores are strongly related to health confidence and health status, moderately with age group, but not with number of medications taken or gender.

Analysis of ONS4 in the Annual Population Survey shows a strong relationship with self-reported health, employment status and living alone, and a moderate association with age.^{31 39} Our results agree with this for self-reported health status and age, but we have no data about employment status or whether people lived alone (which may be a proxy for loneliness).

A strong association has been reported between subjective well-being and successful goal pursuit, which is likely to be closely associated with health confidence.⁴⁰ The PWS score for our data has a strong association with the health confidence, as measured by the HCS.

Personal well-being generally follows a U-shaped pattern, lower in middle age and higher as people get older.^{1 33} We found this pattern in our population. The mean PWS of people under 70 years old was lower (43.6) than those over 70 (62.5). This age effect may be exceptionally strong in our population because people are not referred to social prescribing unless they have problems that may benefit from social prescribing. Such referrals are not common in younger people.

In PWS, all items are worded positively. Factor analysis and internal correlations suggest that all items behave in a similar way. In ONS4, the anxiety item is worded negatively, while other items are worded positively. Factor analysis on ONS4 data shows that positively and negatively worded items relate to different factors.¹⁸ This is the main

difference between PWS and ONS4. In future research, it is desirable to compare PWS directly against ONS4.

Implications for practice

The PWS questions were asked within a longer survey covering health status, health confidence and patient experience as well as personal well-being. More than 68% of people who completed these surveys were aged over 80, and many were in poor health. This demonstrates the practicality of using the PWS with these populations.

The PWS questions are generic and are worded positively. They are easy to use and, unlike some other measures of mental well-being appear to be highly acceptable, as indicated by the low numbers of missing values.⁴¹

The PWS is being used routinely as a key performance indicator in commissioned social prescribing programmes in the Wessex region.⁴²

CONCLUSIONS

The PWS is a short variant of ONS4, designed for routine collection of data about subjective well-being. It is shorter and has a lower reading age than other widely used instruments. In evaluation studies of social prescribing, it was responsive to the interventions, easy to use, with few missing values, good psychometric results, strong correlation with concurrent measures of health status and health confidence, and construct validity.

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Competing interests TB and AL are directors and shareholders in R-Outcomes Ltd, which provides quality improvement and evaluation services using the Personal Wellbeing Score. Please contact R-Outcomes Ltd if you wish to use it. HWWP has received consultancy fees from Crystallise, System Analytic and The HELP Trust and received funding from myownteam and Shift.ms, unrelated to the work reported herein. The authors declare that they have no other conflicting interests.

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Correction: *Personal Wellbeing Score (PWS)—a short version of ONS4: development and validation in social prescribing*

Benson T, Sladen J, Liles A, et al. Personal Wellbeing Score (PWS)—a short version of ONS4: development and validation in social prescribing. *BMJ Open Quality* 2019;8:e000394

The authors want to alert readers to the following error identified in the published version.

The Figure 1 was incorrectly published in which the bottom line of the figure should read “I was anxious yesterday” rather “I was NOT anxious yesterday”. Please refer to the below corrected figure for your reference.

Personal Wellbeing Score

To what extent do you agree or disagree with these?

	Strongly agree	Agree	Neither agree nor disagree	Disagree
I am satisfied with my life
What I do in my life is worthwhile
I was happy yesterday
I was anxious yesterday

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