Sensory wellbeing workshops for inpatient and day-care patients with anorexia nervosa

Kate Tchanturia · C. Baillie · C. Biggs · A. Carr · A. Harrison · Z. Li · C. McFie · O. Oyeleye · C. Toloza

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Summary

Background The wellbeing of patients with eating disorders is one of the priorities in the “bigger picture” of treatment for eating disorders. Sensory soothing strategies for sensory sensitivities are supportive tools which could be useful in day-care and inpatient clinical programmes.

Methods Evaluation of multiple separate sensory wellbeing workshops consisting of psychoeducation and experiential components delivered in inpatient and intensive day-care services was performed. Participants’ self-report questionnaires were evaluated pre- and post-workshop. Additionally, patients’ comments and qualitative feedback was collected after completion of the workshop.

Results There was strong evidence that self-reported awareness of sensory wellbeing, awareness of strategies to enhance sensory wellbeing, and confidence in managing sensory wellbeing increased after the workshops with positive qualitative feedback from participants. The feedback questionnaires highlighted that patients found the sessions useful and were able to use some of the skills and strategies they learned in the workshop.

Conclusion This pilot work on sensory wellbeing workshops with a protocol-based format was feasible and beneficial for the patient group. Preliminary evidence suggests that delivery of similar workshops could be sensible in addition to treatment as usual in inpatient and day-care programmes.

Keywords Eating disorders · Autistic spectrum condition · Anorexia nervosa · Sensory sensitivity · Wellbeing

Dr. K. Tchanturia (✉) · Z. Li
Department of Psychological Medicine, Institute of Psychiatry, Psychology and Neuroscience, King’s College London, De Crespigny Park, PO59, London, SE5 8AF, UK
kate.tchanturia@kcl.ac.uk

Dr. K. Tchanturia · C. Baillie · C. Biggs · A. Carr · A. Harrison · C. McFie · O. Oyeleye · C. Toloza
Eating Disorders National Service, South London and Maudsley NHS Foundation Trust, London, UK

Dr. K. Tchanturia
Ilia State University, Tbilisi, Georgia

A. Harrison
Department of Psychology and Human Development, University College London, Institute of Education, 25 Woburn Square, London, WC1H 0AA, UK
nach den Workshops zunahm, und es gab positive qualitative Rückmeldungen von den Teilnehmern. Anhand der Fragebögen zum Feedback stellte sich heraus, dass die Patienten die Workshops nützlich fanden und einige der Kompetenzen und Strategien anwendeten, die sie in dem Workshop gelernt hatten. *Schlussfolgerung* Dieses Pilotprojekt mit Workshops zum sensorischen Wohlbefinden mit einem protokollbasierten Format war für diese Patientengruppe geeignet und nützlich. Diese vorläufige Evidenz zeigt, dass ähnliche Workshops in Ergänzung zur üblichen Behandlung im stationären und ambulanten Rahmen zweckmäßig sein könnten.

**Schlüsselwörter** Essstörungen · Autismus-Spektrum-Störungen · Anorexia nervosa · Sensorische Empfindlichkeit · Wohlbefinden

**Introduction**

Anorexia nervosa (AN) ist eine Lebensbedrohliche psychiatrische Erkrankung mit hohen Maßstäben von funktionellen und sozialen Schwierigkeiten [1, 2]. In der Regel hat sich der Fokus auf die Behandlung von Essstörungen konzentriert. Zudem ist es von zentraler Bedeutung, Patienten, die EDs entwickeln, auf die „größere Perspektive“ der Erholung hinzuweisen. Forschung erprobt kreative und neue Methoden, um Patienten mit adjungierter Forschungsbasierten Behandlung zu unterstützen [3].

In dem Kontext von Wohlbefinden und Erholung spielt die sensorische System und gute Anpassung an die Umgebung eine kritische Rolle. Forschung in Hinblick auf sensorische Sensitivität hat begonnen, um interessante Ergebnisse zu erzielen. Beispielsweise, demonstriert Forschung, dass Menschen mit EDs neue sensorische Erfahrungen haben [4–6]. Klinische Daten zeigen, dass mehr als 37% der Patienten mit AN in stationärer und ambulanter Behandlung höhere Autismus-Spektrum-Charakteristika (ASC) aufweisen, die eine hypersensible Reaktion auf Gerüche, Berührung und Lärm sowie eine Hypersensitivität in verschiedenen Domänen bewirkt haben [7].

In der klinischen Pfade für Autismus und Essstörungen, PEACE (Pathway for Eating disorders and Autism developed from Clinical Experience), haben wir begonnen, um sensorische Sensitivität zu messen und haben entwickelt psychoedukative Materialien und experimentelle Aktivitäten, um sensorisches Wohlbefinden zu unterstützen [8]. Wir fanden auch, dass Parkinson-Patienten ohne autistic Traits und high autistic Traits den sensorischen Änderungen im Essraum befähigt sind, wobei besondere Gruppen [9] auf der Grundlage der Forschungsergebnisse entwickelt wurden. In der Forschungsergebnisse [4, 10], haben wir entwickelt einzelne Workshops, die sowohl psychoedukative Inhalte und experimentelle Aktivitäten zur Verfügung stellen, um Patienten durch eine treibende und hilfreiche sensorische Werkzeugkasten zu unterstützen.

Die zentralen Ziele dieses kleinen Pilotprojekts sind: (a) die praktikable verwendet werden, um die sensorischen Wohlbefinden von Patienten im ED stationären und day-care Behandlung zu unterstützen, (b) das Feedback von Studienteilnehmern zu evaluieren und (c) zukünftige Entwicklungstypen und wie man weitere evidenzbasierte sensorische Workshops erzeugen.

**Methodology**

**Participants**

Alle Patienten, die an dieser Studie teilnahmen, waren weibliche Erwachsene (18–60 Jahre) mit einer DSM-5 [11] Diagnose von AN (betroffene oder restriktive Subtypen) und waren Teil der umfassenden Behandlung (inpatient oder day care) Programme in der South London and Maudsley NHS Foundation Trust (SLaM) National Eating Disorder Service. Patienten mit einer Diagnose von Bulimia nervosa, binge-Behandlung, oder andere Essstörungen wurden aus der Analyse ausgeschlossen, um den Fokus auf AN während dieses Pilotprojekts zu legen. Ethische Genehmigung wurde von der lokalen Forschungs- und Verwaltungsbehörde von SLaM genehmigt.

Demographische Informationen in dieser Studie wurden von Patienten bei ihrer Eintragung in das Behandlungs-Service gewonnen.

**Self-report measures**

*Autism spectrum quotient score, short version (AQ-10)*

Der AQ-10 ist Teil einer Battery von klinischen Maßstäben, die Patienten zu Beginn ihrer Eintragung in das Behandlungs-Service erhalten. Der AQ-10 besteht aus 10 Fragen und ist im Rahmen der Screening von ASC-Charakteristika entwickelt worden. Ein Score größer als 6 zeigt ein Indiz für ASC-Charakteristika. Ein Score größer als 6 ist ein Indiz für ASC-Charakteristika. Ein Score größer als 6 ist ein Indiz für ASC-Charakteristika.
Procedure

Each of the workshops were made available to all patients receiving treatment in the relevant service (inpatient or day care). In each case patients were made aware of the workshops in community meetings and through posters and sign-up sheets. At the start and end of the workshop participants were asked to complete the pre (T1)/post (T2) workshop sensory wellbeing questionnaires, described above. The workshops ran for between one and one a half hours and were each facilitated by two staff from the service psychological therapies team.

Description of the intervention

The intervention was a one-off sensory workshop, aiming to increase awareness about the sensory system, explore how the sensory system can help with self-regulation, identify strategies that enhance sensory wellbeing and provide participants with the language and tools to communicate their sensory needs. The workshop included psychoeducation and facilitated discussion between participants about their sensory experiences, followed by two exercises. One exercise allowed participants to explore a variety of sensory materials in order to identify their sensory preferences. The second exercise was a Do It Yourself (DIY) activity in which participants made their own sensory item, for example a scented hand cream. Further psychoeducation and tools to identify and communicate sensory preferences were also provided.

In light of the COVID-19 (coronavirus disease 2019) lockdown, the workshop was also adapted to run online so that patients in the clinical services that were running virtually were able to participate. Online versions of the pre- and post-workshop feedback questionnaires and sensory booklet were distributed and an online flyer was circulated before the workshop encouraging participants to bring along items suggested for the sensory toolkit.

The online sensory wellbeing workshop was delivered through Microsoft TEAMS. The facilitators shared their screen in order to show the psychoeducation resources, including a PowerPoint presentation and the sensory motor checklist. As it was not possible to do the practical exercise online, participants were encouraged to bring their own items for sensory toolkit. These items were shown to the participants and they spoke about their sensory benefits and how it affects their wellbeing. Participants who did not bring items, we were still able to discuss and describe the sensory items they found help them manage their sensory wellbeing. Afterwards, participants were sent the post-workshop evaluation questionnaire, the sensory wellbeing booklet and the sensory communication passport for them to complete in their own time. Details of the protocol and communication passports can be found on the following website: www.peacepathway.org.

Data analysis

Quantitative feedback from the patients was analysed with SPSS 27 using the Wilcoxon signed-rank test, which is recommended for small sample size and repeated measures [13]. A secondary analysis was then conducted to explore differences in outcomes between patients with and without high ASC traits using the Wilcoxon signed-rank test separately for the two groups. A significance level of 0.05 was selected. Effect sizes were reported in Cohen’s d, with d=0.2, 0.5 and 0.8 corresponding to small, medium and large effects.

Qualitative data gained from the participants’ responses to feedback questionnaires was analysed using inductive thematic analysis. Comments from both questions: ‘what did you like most about this workshop?’ and ‘any other comments’ were considered as a single dataset. Two researchers independently identified themes from the data before comparing and agreeing themes identified in a meeting.

Results

Six one-off sensory wellbeing workshops were delivered between February 2020 and February 2021. Three in the inpatient service, two in day care service and one open to patients in both treatment services. Two workshops were delivered online, the remainder in person. The in-person workshops were advertised to patients using posters and verbal invitations within treating services. The online workshops were promoted with flyers and an Eventbrite link shared with patients by email, and a Microsoft Teams link was emailed to registered participants one day before the workshop. The number of participants attending each workshop ranged from three to five, and there was no participant drop-out during sessions.

Of the twenty-seven patients who attended a sensory wellbeing workshop, twenty-three patients met criteria for inclusion in the study. Of the four patients excluded from the study, three were excluded as they did not have AN diagnosis (binge-eating disorder, bulimia nervosa), and one was excluded from analysis as they did not complete questionnaires at the end of the online workshop.

Demographics

Eighteen (78%) had a diagnosis of AN restrictive subtype, and five (22%) AN binge–purge subtype. The mean age of patient participants was 28.2 years (SD = 9.6). The mean body mass index (BMI) at admission to the service was 15.0 (SD = 2.3). Eight patients (35%) had received an AN diagnosis within the past 5 years, thirteen (57%) more than 5 years ago, and
Twenty-three patients completed pre- (T1) and post (T2)-workshop questionnaires. There was strong evidence that self-reported awareness of sensory wellbeing, awareness of strategies to enhance sensory wellbeing, and confidence in managing sensory wellbeing increased after the workshops. The results are present in Table 1, with bar charts in Fig. 1.

Regarding “usefulness of the workshop”, twenty-two (96%) of patients rated it 3 (“Quite useful”) to 5 (“Really useful”).

Table 2 displays the outcome measures between patients scoring high and low on the ASC measure. Wilcoxon signed-rank test revealed that there was significant improvement in all three measures in the low ASC group after the workshop (Awareness of sensory wellbeing: \( p = 0.004 \), \( d = 1.04 \); Awareness of strategies: \( p = 0.001 \), \( d = 1.62 \); Confidence in managing sensory wellbeing: \( p = 0.001 \), \( d = 1.55 \)), all with large effect sizes. The high ASC group only showed significant improvement in confidence in managing sensory wellbeing (\( p = 0.039 \), \( d = 1.07 \)) and no significant change in the other two measures.

Table 1

| Measures                      | Mean score at T1 M (SD) | Mean score at T2 M (SD) | Z    | p       | Cohen’s d |
|-------------------------------|-------------------------|-------------------------|------|---------|-----------|
| Awareness of sensory wellbeing| 3.00 (1.24)             | 4.09 (0.79)             | 3.354| 0.001   | 0.97      |
| Awareness of strategies to enhance sensory wellbeing | 2.70 (1.15)             | 4.04 (0.71)             | 3.684| <0.001  | 1.21      |
| Confidence in managing sensory wellbeing | 2.48 (0.95)             | 3.78 (0.85)             | 3.800| <0.001  | 1.41      |

T1 pre-workshop, T2 post-workshop, M mean, SD standard deviation

Table 2

| Measures                      | T1 | T2 | n   | Mean | SD  | Mean | SD  | p     | Cohen’s d |
|-------------------------------|----|----|-----|------|-----|------|-----|-------|-----------|
| Awareness of sensory wellbeing|    |    | 16  | 3.00 | 1.21| 4.00 | 0.82| 0.004 | 1.04      |
| Strategy                      |    |    | 16  | 2.50 | 1.16| 4.06 | 0.77| 0.001 | 1.62      |
| Confidence                    |    |    | 16  | 2.38 | 1.03| 3.75 | 0.93| 0.001 | 1.55      |

Low ASC group

| Awareness of sensory wellbeing|    |    | 7   | 3.00 | 1.41| 4.29 | 0.76| 0.066 | 0.86      |
| Strategy                      |    |    | 7   | 3.14 | 1.07| 4.00 | 0.58| 0.131 | 0.64      |
| Confidence                    |    |    | 7   | 2.71 | 0.76| 3.86 | 0.69| 0.039 | 1.07      |

High ASC group

n number of participants; Awareness awareness of sensory wellbeing; Strategy awareness of the strategies to enhance sensory wellbeing; Confidence confidence in managing sensory wellbeing, T1 pre-workshop, T2 post-workshop, ASC Autism Spectrum Condition, SD standard deviation

Fig. 1 Comparison of mean scores on the sensory wellbeing questionnaire measures at pre- (T1) and post-workshop (T2) (n = 23). Error bars 95% confidence interval. * Level of significance based on Wilcoxon signed-rank tests: ** significant at \( p < 0.01 \); *** significant at \( p < 0.001 \)

this data was not available for two patients. Seven (30% of patients) scored highly (≥6) on the AQ-10 at admission, indicating high autistic traits.

Quantitative feedback from patients

Seventy of the 23 participants scored highly (≥6) on the AQ-10 at admission, forming the high ASC group. The rest of the participants formed the low ASC group. There were no significant differences between the two groups in age, duration of illness, and on all T1 measures (awareness of sensory wellbeing, awareness of strategies to enhance sensory wellbeing, and confidence in managing sensory wellbeing). However, the high ASC group had higher BMI on admission (mean = 17.4, SD = 1.6) compared to the low ASC group (mean = 13.9, SD = 1.8; \( p = 0.001 \)).

Differences in outcome between patients scoring high or low on the ASC measures

Seven of the 23 participants scored highly (≥6) on the AQ-10 at admission, forming the high ASC group. The rest of the participants formed the low ASC group. There were no significant differences between the
Qualitative feedback from the participants

Qualitative feedback data was collected using open-ended questions in both inpatient and day-care programmes in order to improve future workshop content and delivery. Overall both written and verbal feedback was very positive, and facilitators observed that participants always wanted to stay beyond the scheduled finish time. Inductive thematic analysis was used to identify themes in the comments provided.

Four key themes were identified as summarised below (examples of quotes for each theme are highlighted in Table 3).

1. Engaging
   All patients expressed that they enjoyed the sensory wellbeing workshop and reported that it was enjoyable and fascinating.

2. Informative content and activities
   Patients reported that the psychoeducation materials shared and discussed in the workshop were very helpful and helped give them an opportunity to explore different areas of sensory wellbeing.

3. Helpful sensory tools
   Patients expressed that they found the DIY sensory tool box activities available during the workshop very helpful because they had real tools they could take away with them and use beyond the workshop to help with their sensory wellbeing (e.g. scented hand cream, squeeze toy).

4. Future Improvements
   Patients suggested that future workshops include more sensory tools and activities that engage their senses and enhance their wellbeing. Many patients gave suggestions to use their own preferred sensory tools such as: scented oils and textile materials. Other comments suggest that patients would like the sensory wellbeing workshop to be run and available more regularly.

Discussion

There is increased research interest regarding the sensory systems and introspection of patients with EDs. Recent studies exploring ED and autism comorbidity have also created an interest in how ASC influences the sensory sensitivities in ED patients [4–6]. To our knowledge, research findings have not yet been translated into practical treatment tools [10]. In this paper, we have evaluated the practical use of sensory workshops for inpatient and day-care programmes and explored the response in patients with AN with and without ASC traits. The data from this study, along with previous research demonstrating positive patient experience and clinical outcomes in group therapies [14–16], indicated that there is feasibility for group workshops to be delivered as add-ons in the ED treatment programme.

The overall response to the workshop was positive, with participants reporting significant improvements in all measures post-workshop with large effect sizes. However, our results also highlight that in the group of patients scoring high on the ASC measure (n=7), no significant change was reported in awareness of sensory wellbeing or awareness of the strategies to enhance sensory wellbeing after the workshop, although the medium to large effect sizes suggest that this is likely due to the power of the study. Nevertheless, this result is in line with previous research evidence that in a group therapy setting, patients with high ASC traits tend to show less preferable treatment response compared to patients with no ASC traits [17]. It is possible that the need for open, verbal discussions and the limited time for processing information in a group setting pose more difficulties for people with both AN and ASC traits, who often struggle with communication difficulties and social processing [11, 18]. Future workshops could be better adapted for this group of patients by allowing participants to write things down or type in chatboxes, and introducing more space in sessions to give participants more time to process information. Given the preliminary nature of the current study, future research on treatment response from patients with AN and ASC traits is warranted and will benefit from a larger sample size, improved workshop design and more controlled setting.

This pilot study also created ideas for improvement and development of future workshops including: increasing workshop duration, bringing more sensory tools and activities, and potentially introducing a follow up session, to provide space to reflect after completing the sensory booklet and sensory passport pro-

| Theme | Patient examples |
|-------|------------------|
| Enjoyable | “It’s the best thing I’ve attended since being on the ward” |
| | “I enjoyed the opportunity to explore different areas of sensory wellbeing which I would usually” |
| | “This workshop lifted my mood significantly, I especially enjoyed making the snowman, and also the smell of the cinnamon scented hand cream” “very informative and practical and the socks now man!” |
| Informative content and activities | “Being able to talk and discuss/connect with others and learn about how others experience things—reminds me of how unique we are and that unique part makes us who we are as humans” |
| | “Fun, informative, fascinating, useful” |
| | “I realised how I do already use my senses to relax without meaning to” |
| | “Getting the chance to try out new toys etc. + practical work to discover what I am particularly sensitive to” |
| Helpful sensory tools | “Practical element of making own kit” |
| | “It was lovely to have a few other soothing items to take away, too, as well as the snowman and the hand-creams (e.g. squishy man, tinsel, pompoms). Thank you so much for organising this lovely session!” |
| Future improvement | “Would love more scented oils for making hand creams” |
| | “Could include sound/music and responses to that” |
| | “Really needed more time. Would be good to follow up and discuss findings fully” |

Table 3 A table of patient quotes providing examples for each theme
vided and exploring sensory strategies outside of the workshop. Patient feedback highlighted the usefulness of regular sensory workshops, which might be made possible in future through collaborating across clinical services. As a one-off workshop this could also be provided to patients who are not otherwise involved in ongoing therapy services, such as those in severe and enduring eating disorders (SEED) physical monitoring programmes. Two of the in-person workshops were held during the current COVID-19 pandemic. This necessitated various adaptations, including ensuring that there was sufficient space for social distancing, use of hand sanitiser, limiting the use of shared materials, and thorough cleaning of any shared equipment between uses. For the online workshops that were held during the pandemic, adaptations included using online tools (SurveyMonkey, customised questions at registration on Eventbrite) for collecting outcome measures and an online booking system through Eventbrite. Compared to the in-person workshops, the online workshops were focused more around discussion, with patients sharing their own sensory experiences and strategies of enhancing their sensory wellbeing, due to the DIY element of the workshop being unfeasible. Despite this, holding the workshop online allowed for greater accessibility, including for patients receiving their treatment remotely, and therefore has the potential to reach more patients who may benefit from the workshop. Initially it was found that holding the workshop remotely highlighted some challenges, including creating awareness of the workshop, commitment to attending and ensuring patients were prepared with sensory items to discuss/share with the group. However, these issues were managed effectively by using the Eventbrite page to sign up and find information about the workshop and including more detailed examples of objects or strategies that may enhance sensory wellbeing to prompt discussion throughout the workshop. There is also the possibility of providing materials or a materials list ahead of time, so that patients attending the remote workshops are able to engage in a DIY activity. This was not trialled in the workshops discussed how-ever presents a feasible adaptation for future workshops. Overall, all the COVID-19 adaptations were easily made, highlighting the flexibility of the workshop format.

Psychological interventions in a group format in general can bring unique benefits that are not achievable when working with patients individually. These benefits include sharing experiences and learning from others in a safe and therapeutic environment, being with other people and practicing interpersonal skills. Individuals with AN have difficulties making social contacts [19] and report high levels of social anhedonia—an absence of pleasure derived from being with people [20]. It has been observed that patients with AN often remain isolated and avoid communicating with other patients in inpatient settings. Sensory workshop content is non-threatening and useful whilst also facilitating social communication.

The positive feedback elicited from patients on the feedback questionnaires highlights the wide acceptability of the group workshop. Patients generally found the group experience positive, and feedback from the workshop indicated that the majority of patients found it helpful. In particular, patients liked the interactive, easy nature of the workshop, as well as learning about different sensory experiences and how they have an impact on their lives. It is worth noting that the feedback form was not completed anonymously, which may have led to a positive response bias. That said, the positive feedback and acceptability of the intervention is promising, as poor treatment engagement is a common problem in existing psychological therapies [21].

This pilot study has some strengths worth mentioning: it is the first case series to report pilot work with sensory workshops, it contains a detailed protocol allowing others to replicate the workshop and that has allowed us to suggest improvements to the existing protocol, which paves the way for these workshops to be trialled in larger studies.

In terms of limitations, future studies would benefit from larger numbers of participants and more detailed information or measures used to capture change before and after the intervention. A follow-up session would also provide more insight into whether one standalone workshop provides lasting benefits for the patients. For specificity this study only included patients with an AN diagnosis and it would be valuable to investigate other ED diagnoses in future studies. It will be important for future studies to have clarity and analyse subgroups with and without ASC comorbidity to explore the question regarding similarities and differences in response to treatment. As described above, there is a risk of response bias in qualitative feedback as the patient responses were not anonymous.

Another limitation is the reduced number of participants in the online workshop, perhaps due to it being optional. As endorsed by one participant, a larger group may be useful to ensure a wider variety of individual experiences, thoughts and emotions to explore in relation to sensory wellbeing. Despite this, the results from the online workshop were similar to the in-person workshop. Participants reported an increase in their knowledge of their senses, and discussed ways of using their senses to manage their wellbeing. Another limitation to online delivery was the inability to explore new sensory items and create their own DIY sensory item and this was a hindrance to the overall experience of the workshop. However, the participants as well as staff were still able to bring some items that they already use and show these to the others, explaining how and why they are helpful for their sensory wellbeing. This also enabled further learning and consolidation of participants’ awareness of senses.
and how items can be used to soothe or stimulate different senses.

Conclusion

Sensory wellbeing workshops seem to be a feasible format for patients with severe anorexia nervosa (AN). This pilot demonstrated that the workshop was able to enhance patients’ awareness of their sensory wellbeing, strategies to enhance sensory wellbeing and their confidence in managing sensory wellbeing. Improving sensory awareness may help patients to manage distress, form healthy coping mechanisms supporting recovery from eating disorders (EDs), and live “sensationally” understanding their own sensory signature [22].

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Declarations

Conflict of interest

K. Tchanturia, C. Baillie, C. Biggs, A. Carr, A. Harrison, Z. Li, C. McFie, O. Oyeleye and C. Toloza declare that they have no competing interests.

Ethical standards

The patient data had been collected as part of routine clinical practice on the Eating Disorders Unit (EDU); ethical approval was granted by an NHS Research Ethics Committee. Patients had been consulted and measures to be completed were reduced following their feedback about time and effort required.

Appendix

Sensory wellbeing workshop protocol

Aims of the workshop

- To raise awareness of the sensory system.
- To explore how the sensory system can help with self-regulation.
- To identify strategies that can enhance sensory wellbeing.
- To provide participants with the language and tools to communicate their sensory needs.

The workshop is designed to last between an hour and an hour and a half and should have at least two facilitators.

Materials

Flipchart paper, pens, small boxes or bags, pencils, play dough, stones, fidgety toys, textured fabrics, essential oils, hypoallergenic cream, small pots, ear plugs and any other sensory materials desired.

Psychoeducation resource

Our senses refer to the way in which we process and perceive the world around us in our brains. We all process our senses slightly differently. Some people are hypersensitive, meaning they are highly sensitive, and some people are hyposensitive, meaning they have lowered sensitivity. You can experience hypersensitivity or hyposensitivity across different types of sensation; you might be hypersensitive to light, but hyposensitive to touch. (For more information please visit www.peacepathway.org).

- Invite workshop members to discuss examples of their sensory sensitivity. Explore how different sensory sensations make them feel. Invite workshop members to discuss what makes their sensory sensitivities better or worse.

You can experience both heightened and lowered sensitivity to the same sensation depending on the

| Table 4 | Ideas for the sensory toolkit |
| --- | --- |
| **Vision** |  |
| | Sunglasses, tinted glasses |
| | Sensory lights |
| | Photos |
| | Books/magazines |
| | Optical illusions |
| | Letters |
| | Taking yourself somewhere visually appropriate for you (dark room/garden/greenspaces) |
| | Sensory jars filled with glitter (Make your own: jar, glitter glue, glitter and water) |
| **Touch** |  |
| | Weighted lap pads/shoulder pads (Make your own: dried rice/dried beans) |
| | Fiddle toys: fidget spinner, fidget cubes |
| | Textured items: scraps of fabric, (e.g. velvet, wool) |
| | Spray bottle with water |
| | Soft pillow or toy |
| | Brush |
| | Stress balls (Make your own: balloons filled with flour) |
| | Blue Tak/play doh |
| **Smell** |  |
| | Scented oils (Make your own: get a plain body lotion and add essential oils) |
| | Flowers |
| | Potpourri (Dried plants e.g. lavender) |
| | Perfume/room spray |
| **Hearing** |  |
| | Ear defenders, ear plugs. With items such as the ear defenders, it is important to moderate use and to use appropriately. It is possible if you over use ear defenders that when you don’t use them, the more overly stimulating noise and noise sensitivity will be |
| | Another option is audio isolating ear protectors. These essential ‘focus’ hearing for you to the conversation around |
| | Headphones to play music that suits you and your level of arousal. It may be calming, soothing music or it may be heavy metal! You can also consider apps such as ‘Headspace’ and ‘Calm’ which have some free content. You can also listen to some white noise or other ‘waves’ |
| | Make your own: voice recordings of family members/friends/yourself saying things you know you like to hear when you are feeling this way. Filling a jar with dried rice/beans and creating a ‘maraca’ |
| **Taste** |  |
| | A mint spray (we acknowledge that it is most challenging area and for time being offer this strategy but open to more ideas and suggestions) |
Please complete this section at the end of the sensory wellbeing workshop:
(Please indicate the extent to which you agree with each statement by circling the number from 1 to 5)

1. How aware are you of your sensory wellbeing at the end of this workshop?

| Not aware at all | Quite aware | Really aware |
|------------------|-------------|-------------|
| 1                | 2           | 3           |

2. How aware are you of the strategies to enhance your sensory wellbeing as a result of the workshop?

| Not aware at all | Quite aware | Really aware |
|------------------|-------------|-------------|
| 1                | 2           | 3           |

3. How confident do you feel to manage your sensory wellbeing following the sensory wellbeing workshop?

| Not confident at all | Quite confident | Really confident |
|----------------------|-----------------|------------------|
| 1                    | 2               | 3                |

4. How useful was this sensory workshop?

| Not useful at all | Quite useful | Really useful |
|-------------------|--------------|--------------|
| 1                 | 2            | 3            |

5. What did you like most about this sensory workshop?

……………………………………………………………………………………………………………………………
……………………………………………………………………………………………………………………………

6. Any other comments?

……………………………………………………………………………………………………………………………
……………………………………………………………………………………………………………………………

Fig. 2 Post-workshop sensory wellbeing questionnaire

context. Important factors which can inform our sensory responses include whether you are in control of the sensory stimuli, whether you are anxious or emotionally dysregulated, and whether there are lots of different stimuli at once in the environment.

Use previous examples from workshop members to stimulate discussion of how sensory sensations make them feel.

Our sensory sensations can make us feel better, or they can make us feel worse. This is closely related to self-regulation. Self-regulation is how we monitor and control our behaviour, emotions, and physiological arousal. Sensory sensations can impact our self-regulation. For example, if you are tired but need to focus at work you might turn up the lights (stimulating your visual system), or get up and walk around (stimulating your vestibular system). From the opposite perspective, if you’re highly anxious and need to calm down you might retreat to a quiet space (soothing your auditory system), or rub a soft blanket (soothing your touch system).

Invite workshop members to fill out the Sensory-Motor Preference Checklist (TherapyWorks, Inc., 2018; https://www.alertprogram.com/wp-content/uploads/2018/09/Sensory-Motor-Preference-Checklist-revised-in-2018-PDF.pdf).

Workshop discussion: what sensations make us feel alert? What sensations make us feel calm?

This way, we can use sensations to change how we are feeling. However, we don’t always have complete control over our sensory environments. If you get stuck in an environment with lots of negative sensory input this can be really overwhelming and unpleasant. If you can’t avoid or escape that environment, you can use simple sensory strategies to help you feel calmer and more grounded. For example, taking a moment to smell an essential oil, or putting on headphones and listening to music to block out noise.

Invite discussion of different sensory strategies: what are small things you can do to change your sensory inputs?

Explain that aim of the workshop is to be aware, mindful of sensory system and live in harmony and make sensible adjustments when possible.
Sensory toolkit

Practical exercise. Present different sensory materials (fabrics)/toys/tools/sensations to the group, and suggest to group members to create a sensory box with sensations that they find pleasurable. Include a DIY sensory exercise, for example creating a scented hand cream, select the fabric with the most pleasant texture, from variety of scents allow time to explore most soothing and enjoyable smell. Encourage group members to discuss the sensations throughout the DIY task. Whilst making sensory boxes (or bags), encourage group members to discuss what sensory tools they are choosing, and why.

If these kinds of tools do make a difference for you, it might be beneficial to let the people around you know about how you process sensory inputs and what strategies you use to help.

Hand out sensory communication passport worksheet.

Some sensory sensations that might help you self-regulate will not fit in a box. It might be helpful to think about and write down sensory strategies, such as going for a walk or going outside.

Hand out sensory booklet.

We all have different sensory thresholds. If we are aware of our sensory systems we are able to self-regulate by increasing or decreasing stimulation and making our environment work for us.

Workshop resources

Sensory toolkit: These are ideas you can develop yourself to help you manage your wellbeing. It may be that you are over-stimulated by certain senses or under-stimulated by certain senses. This can change from situation to situation and it might be a useful idea to include items which will increase and decrease your arousal levels (Table 4).

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