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#### Research Article

# Provision of creative arts interventions in UK drug and alcohol services: A cross-sectional study

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Background: The provision of nonpharmacological interventions in UK drug and alcohol treatment services varies from service to service. This cross-sectional study explores the types of interventions that are available for people seeking treatment for substance use dependence within UK drug and alcohol services in the context of nonpharmacological treatment provision.

Method: A structured questionnaire was distributed to 762 UK drug and alcohol treatment services.

Results: A total of 93 drug and alcohol treatment services are included in the analysis. Key worker support 84.94 per cent and talking therapies 83.87 per cent are the most reported nonpharmacological interventions. Access to creative art provision as therapy or as an activity is reported by 51.61 per cent of included services. Conclusion: Nonpharmacological interventions are currently an integral treatment for people who use substances. The services providing creative art interventions report a positive impact on motivation for recovery and improvement in recovery rates when included in treatment programmes.

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# 1. Background

The acceptability of pharmacological interventions in the drug and alcohol United Kingdom (UK) services has been long established (Rosenberg et al., 2002) and has perpetuated as a strategy to primarily reduce crime, by keeping people who use drugs (PWUD) away from illicit street use. This widely evidenced strategy is dependent on self-reported substance use, which has become the focus for treating substance misuse in the UK and is directed toward harm reduction rather than targeted at assisting the progression towards improving recovery (Reed et al., 2015; Perry et al., 2015). Nevertheless, pharmacological treatment remains an important part of service delivery for the holistic recovery journey.

In addition to the existing national treatment services provision a number of recovery groups exist offering nonpharmacological interventions which are helpful in reducing recidivism in the criminal justice system relating to drug crimes (Perry et al., 2016).

A recently published UK government review led by Dame Carol Black has put recovery at the core of the drug and alcohol treatment programmes and recognizes more resources are required to secure a better rate of recovery whilst in treatment (Black, 2020).

This cross-sectional study investigates the types of creative arts interventions within the context of nonpharmacological treatment services provided by UK drug and alcohol services. It focuses on creative arts interventions and inquires about the perceived effectiveness by those providing the services, as well as the evaluation methods being employed to determine their level of effectiveness. To the best of our knowledge, no previous studies in the UK have addressed these questions.

# 2. Research approach and methodology

This study aims to investigate the nonpharmacological provision in UK drug and alcohol treatment services with particular interest in the use of creative arts interventions. An exploratory quantitative research method was selected, using an online delivered questionnaire, to establish the extent to which nonpharmacological treatments are provided within UK drug and alcohol The STROBE cross-sectional reporting guidelines were used as a checklist to report this original research study (Von Elm et al., 2014). The Qualtrics Core XM system was selected as most appropriate for this study to deliver and monitor the questionnaire distribution and data collection.

# 2.1. Drug and Alcohol Service Questionnaire (DASQ)

In recognition of the pressure UK drug and alcohol services are under, such as reduced funding and increases in service user numbers and wishing to keep the participant time required to a minimum, a short questionnaire was developed. The first question related to participant consent and a further 10 questions, sought to address the research aims. Three questions focussed on the service information and the range of services provided. The following five questions were specifically related to creative arts provision. It was intended that the questionnaire would take no more than 15 minutes to complete.

#### 2.2. Drug and alcohol service providers

This study required a full list of the UK drug and alcohol treatment services, so they could be contacted with an invitation to participate in this study. A list of UK drug and alcohol treatment services was compiled and stored in a Microsoft Excel Spreadsheet. The list was sourced from various places in the public domain and, when completed, further work was required to ensure as many treatment services as possible had their contact details, including an email address to which an invitation to participate would be sent. The compilation of the list was time intensive and by February 2020 the full list was available.

## 2.3. Questionnaire distribution

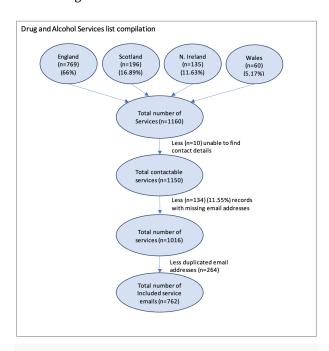
Following beta testing of the questionnaire, a randomized 10 per cent test of the full list took place on 26 March 2020, to see how the delivery system operated. This was successful and upon receipt of a fully completed response, the remaining 90 per cent were distributed on 31 March 2020 to the UK drug and alcohol treatment service organisations. During the data collection period, which was 100 days from 26 March 2020, several reminders were

sent to those who had not yet started the survey. The survey was designed in such a way that participants were able to partially complete it and later return to the same link to complete it.

## 3. Results

The descriptive results of this study relate to the pre-COVID provision of nonpharmacological interventions within UK drug and alcohol treatment services. As services coped with COVID-19-related lockdowns, some of the nonpharmacological interventions were not possible in person until all restrictions had been lifted. The distribution and data collection period coincided with the first COVID-19 lockdown in the UK. Whilst the treatment services had to quickly revise their service delivery provision, the questionnaire asked for answers related to their operation prior to social distancing and lockdown rules.

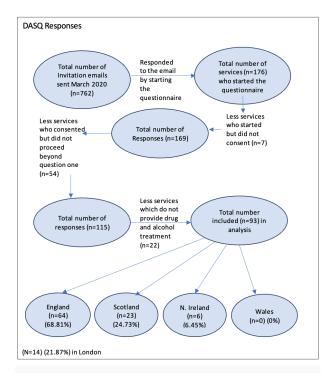
The compiled list of UK drug and alcohol treatment services included 1,160 named services. After the removal of duplicate contact details and missing contact information, the invitation to complete the questionnaire was distributed to 762 UK treatment service providers as shown in Figure 1.



**Figure 1.** Drug and Alcohol Treatment Services, list compilation.

During the study period, two reminder emails were sent to those services who had not yet completed the questionnaire. A further email was sent to those that had completed their questionnaire as a way of thanking them for their participation. Close to the end of the study period, a final email was sent to services who had not yet started the questionnaire to encourage them to participate in the study. The study data collection period was closed for analysis on 3<sup>rd</sup> July 2020 which represented the 100<sup>th</sup> day the survey had been available for completion. At the end of this day, there were 119 completed responses recorded in the Qualtrics system.

The completed records were checked for any anomalies. Three records were found that required deletion. One of these had been created by a member of Qualtrics support staff incorrectly and added to the completed records. The additional record was downloaded before deletion on 13 July 2020. Another two records were deleted on 14 July 2020 as they had subsequently been retaken as a new record using the retake link feature and the original records were obsolete. A summary of the number of responses is included in Figure 2 for clarity.



**Figure 2.** Drug and alcohol service questionnaire responses.

# 3.1. Types of treatments offered

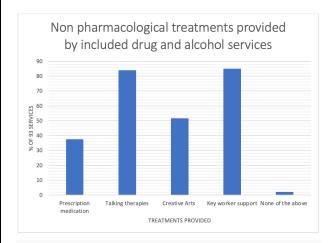
The results shown in Table 1 show that nonpharmacological interventions are employed by 97.84 per cent (n=91) of the 93 included drug and alcohol services and are divided into 4 main categories as shown in Figure 3. Respondents could indicate that more than one type of intervention was provided at each service.

Question	Description	Yes	No	Missing data	Total	Per cent Yes
Q1	Consented	169	7	0	176	96.02
Q3	Provide Drug and alcohol service	93	22	54	169	55.02
Q4	Provide nonpharmacological interventions	91	2	0	93	97.84
Q5	Provide creative arts interventions	48	45	0	93	51.61
Q6	Service evaluates the creative arts interventions	46	2	0	48	95.83
Q7	Recording creative arts evaluation	46	2	0	48	95.83
Q8	Qualified provider of creative arts	23	25	0	48	47.91
Q9	Do creative arts motivate recovery	33	11	0	48	68.75
Q10	Do creative arts improve rates of recovery	27	1	4	48	56.25
Q11	Easy to complete	84	9	4	93	90.32

Table 1. Summary of responses to each question.

NB: Q4 and Q5 only relate to 93 included services; Q6 to Q10 relate to 48 creative arts intervention providers. Q11 is for all 93 services.

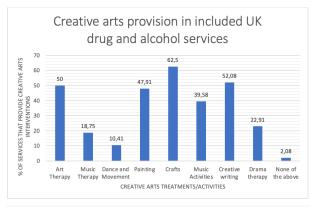
Key worker support is the leading nonpharmacological support; this role is typically provided in drug and alcohol treatment where each service user has an allocated staff member whom the service user would see frequently maybe weekly or fortnightly. Whilst this is labelled as nonpharmacological, it is often the key workers that also provide the prescription alongside the psychosocial aspects of the role in services that offer medication.



**Figure 3.** Services provided by included drug and alcohol treatment providers.

#### 3.2. Creative arts subdivisions

The provision of creative arts is of particular interest, and this was the focus of five questions of the study questionnaire. Respondents were asked to check those creative arts interventions that were provided by their service from a provided list and add any others in a text box. Respondents could indicate that more than one creative arts intervention was provided at each service. The main included creative arts activities are shown in Figure 4.



**Figure 4.** Breakdown of the main creative arts interventions provided by UK drug and alcohol services.

Music interventions figure highly in the type of nonpharmacological interventions provided. In the study, these were divided into music therapy and music activities. There were n=8 services which provide music therapy that also provided music activities.

# 3.3. Methods of evaluation of creative arts interventions and recording of the results

Most services include an evaluation of the creative arts interventions and record the outcome. Table 2 shows the types of evaluation that services use, with the most frequent method (87 per cent) being verbal feedback.

Types of Evaluation for creative arts interventions	Number of services	Per cent of 48 Services
Verbal feedback from service user	42	87.5
Individual questionnaire evaluation	32	66.66
Group discussion	26	54.16
Facilitator evaluation	12	25
External evaluation service	5	10.41
No evaluation	2	4.16
Missing data	1	2.08

 $\textbf{Table 2.} \ \textbf{Types of evaluation of the creative arts provision}.$ 

Supporting the evaluation process is the recording of the information. As shown in Table 3, 66.67 per cent of

included services analyse the results in an evaluation report, and 41.66 per cent incorporate the feedback into the individual service users' record.

Recording of evaluation for creative arts interventions	Number of services	Per cent of 48 Services
Evaluation forms compiled, analysed, and reported	32	66.67
Written into individual service user notes	20	41.66
Other	8	16.66
None, we do not record the evaluation	7	14.58
Missing data	1	2.08

**Table 3.** Methods for recording the evaluation of creative arts provision.

# 3.4. Qualification level of creative arts interventions providers

The provision of the nonpharmacological interventions was met by people with different levels of qualification, as shown in Table 4. The questionnaire was able to identify

that 62.5 per cent of services had people who were experienced in the field of facilitating creative arts interventions. A lower proportion (47.91 per cent) of services were found to have professionally qualified staff providing the creative arts interventions. Some services had a combination of qualification level and experience in the field.

Creative arts provider's level of qualification	Number of services	Per cent of 48 services
Appropriate formal qualification	23	47.91
Experience in the field	30	62.5
An interest in the arts	24	50
None of the above	4	8.33
Missing information	4	8.33

**Table 4.** Qualification levels of creative arts providers.

# 3.5. Effectiveness of Creative arts interventions

Informal views on effectiveness are reported in the answers to questions nine and ten of the questionnaire. It gives an indication as to why these interventions are seen

to be useful or not by the provider organisations. Although it is not formally evidenced by the recipients of the activities, it can give a useful indication as to whether this could be an area of further interest for future research. The results of these two questions are reported via a Likert scale and presented in Tables 5 and 6.

Do creative arts help with recovery motivation	Responses
Yes	33
Maybe	10
No	1
Do not know	0
Missing data	4

 $\textbf{Table 5.}\ \textbf{Do creative arts interventions help with service user motivation for recovery?}$ 

When asked whether creative arts provide motivation for recovery 68.75 per cent (n=33) of participants replied yes.

Furthermore, 56.25 per cent (n=27) believe that service user access to creative arts improves recovery rates.

Do creative arts improve recovery rates	Responses
Definitely yes	10
Probably yes	17
May or may not	16
Probably not	1
Definitely not	0
Missing data	4
Total	48

**Table 6.** Do creative arts interventions improve treatment recovery rates?

To assess whether the number of different creative arts interventions provided by each service is correlated with the level of recovery motivation and recovery rates, as rated by the service providers, a Pearson correlation coefficient was calculated. The results indicated a positive significant correlation between the number of types of creative arts interventions offered and better rates of recovery motivation, r(44) = .33, p = .031. On the contrary, the Pearson correlation coefficient between the number of types of creative arts interventions offered and improved recovery rates was not significant, r(44) = .16, p = .315.

# 4. Discussion

This study establishes an overview of the nonpharmacological service provision within UK drug and alcohol services, and in particular the provision of creative arts interventions.

## 4.1. Summary of results

The participant response rate of 23.9 per cent to the invitation represents 176 organisations that started the questionnaire, 7 did not consent and 54 were excluded because they did not progress beyond consenting. Data were included from 115 organisations, of which 93 provide specialised drug and alcohol treatment services. Most included services report providing key worker support and talking therapies. Around half (51.61per cent) of the participating drug and alcohol treatment services provide creative arts interventions to their service users. Eight types of interventions are the primary creative arts reported by the 48 drug and alcohol services. The most popular interventions are crafts and creative writing, which might be more prevalent because of the ease of provision. More clinical creative arts therapies are included as art, music, and drama which require qualified practitioners. The self-reported opinion of the service providers reports a positive effect on motivation for recovery when treatment includes creative arts interventions.

## 4.2. Study limitations

There are some limitations in this study, primarily related to the COVID-19 pandemic that coincided with the beginning of the data collection period. Although 23 per cent of the 762 invited services started the study, only 15 per cent can be included in the results due to missing data, because contributors did not complete the questionnaire. As a result, caution should be maintained when generalising the results of this study to the total UK drug and alcohol treatment service provision.

#### 4.3. Implications for service practice

When designing a drug and alcohol treatment service, providers can look to include the more frequently used nonpharmacological interventions to enhance the user experience in aiding recovery. The results of this study indicate that nonpharmacological interventions are already a core part of the drug and alcohol treatment provision. Whilst the extent to which they are used varies from service to service, their value is recognised through several evaluation procedures. Services intent on providing a holistic recovery service are likely to want to include creative arts activities and therapies in their provision if funding and staffing levels permit. The results of this study once disseminated will encourage services to consider their ongoing provision and evaluation of creative arts among their nonpharmacological intervention provision. It may be important to continue the nonpharmacological interventions such as creative arts beyond the delivery of prescription substitutes to establish lasting behavioural changes, highlighting the need for further evidence-based studies.

#### 4.4. Future research needs

There is a paucity of research into the effectiveness of nonpharmacological interventions for treating addiction recovery, and even less information on the use and effectiveness of creative arts interventions for this sector. This is, therefore, a key area for future research with more high-quality study design approaches, to collate sufficient evidence for service providers to be able to be awarded the finance required to adequately make these types of services more widely available to their service users. As there may not be more money available, it is clear that a strategy needs to be developed based on evidence to recommend the most effective elements of existing provision.

# 5. Conclusion and implications

This research adds to the understanding of the provision of the creative arts interventions available within the UK drug and alcohol treatment services. It shows where creative arts are provided that the professional staff within the drug and alcohol services consider these interventions a valuable part of their service provision in aiding recovery for people with substance use dependence.

# **Statements and Declarations**

## Authors' declarations of interest

 The authors report there are no competing interests to declare.

## CRediT author statement

- Karen Megranahan: Conceptualisation, Methodology, Software, Validation, Formal analyses, Investigation, Resources, Data curation, Writing – original Draft, Writing – review & editing
- Andrew Cooper: Data analysis, Writing review and editing

# **Author Biographies**

 Karen Megranahan has been conducting research into the value of creative arts interventions for recovery from substance use since 2016, following a private– sector business career in banking and consultancy services. As a founding director, she set up and led an employee assistance programme and successfully merged the company into a multinational corporation which is now part of the Workplace Options global service. She has been based at Goldsmiths College since

- 2019 and is interested in the wider field of nonpharmacological treatments for problematic substance use as a treatment for recovery.
- Dr Andrew Cooper is currently a Reader in the Department of Psychology at Goldsmiths, University of London. He has been based at Goldsmiths since 2007. His research focuses on understanding how variation in personality traits is underpinned by emotional and motivational states, and the neural systems that regulate these processes. He is also interested in the role that impulsivity-related personality traits play in decision-making and risk-taking, particularly in the context of substance use and gambling.

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# **Declarations**

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