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Systematic Review

Qualitative diary methods in mental health research

A scoping review and recommendations for research and reporting

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Abstract:

Qualitative diary methods have great potential for mental health research, as they provide rich data about experiences and phenomenon as and when they happen, from the perspectives of participants themselves. They provide unique insight into behaviour, cognitions, and change over time in greater depth and detail than other quantitative or qualitative methods might offer. This paper presents the results of a scoping review of qualitative diary methods in mental health research, aimed at clarifying how diary methods are used in mental health research, and outlining key decisions and considerations in planning and conducting a qualitative diary study. Forty-eight papers were reviewed, and the findings highlight different elements of qualitative diary methods. Research aims, suitability for participants, and ethical issues are first discussed, followed by elements of diary study design including diary format, administration, intervals, timeline, sample size, diary structure and guidance, and additional data collection methods. Finally, analysis approaches and the strengths and

challenges of qualitative diary methods are reviewed. Discussion around the future of QDMs follows, including a checklist for conducting and reporting a qualitative diary study.

Keywords: diaries; qualitative; experience sampling; longitudinal; mental health

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Conflict of Interest

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Abstract

Qualitative diary methods have great potential for mental health research, as they provide rich data about experiences and phenomenon as and when they happen, from the perspectives of participants themselves. They provide unique insight into behaviour, cognitions, and change over time in greater depth and detail than other quantitative or qualitative methods might offer. This paper presents the results of a scoping review of qualitative diary methods in mental health research, aimed at clarifying how diary methods are used in mental health research, and outlining key decisions and considerations in planning and conducting a qualitative diary study. Forty-eight papers were reviewed, and the findings highlight different elements of qualitative diary methods. Research aims, suitability for participants, and ethical issues are first discussed, followed by elements of diary study design including diary format, administration, intervals, timeline, sample size, diary structure and guidance, and additional data collection methods. Finally, analysis approaches and the strengths and challenges of qualitative diary methods are reviewed. Discussion around the future of QDMs follows, including a checklist for conducting and reporting a qualitative diary study.

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Introduction

Qualitative diaries provide rich data about events and experiences as and when they happen and across time, giving unique insight into events, experiences, and perceptions of the participants keeping the diaries. Qualitative diary methods (QDMs) can garner novel insights into mental health, but to date QDM research in this area is limited. Qualitative diaries are defined here as any diary kept by participants detailing their experiences, thoughts, or feelings, beyond completing surveys with short-form answers or questionnaire scales. This paper provides a scoping review of how QDMs are used in mental health research, consolidated into a list of recommendations for QDM research and reporting to support the rigorous use of this method.

Alaszewski (2006) highlights the potential of narratives produced through diaries to help us understand how experiences are constructed and communicated. A freetext diary kept over time has the potential to capture details of experience that are missing from retrospective recall (as in interviews), and to shed light on patterns and/or changes over time (Bolger et al., 2003; Monk et al., 2015). Interviews can be influenced by difficulties with recall, with retrospective thinking applying motive and meaning to actions, thoughts or feelings that may not be present at the time, and thus distorting understanding of processes as they happen (Bartlett & Milligan, 2015). Research involving direct and predefined questioning, such as questionnaires and even semi-structured interviews, may restrict understanding and obscure problems (Pettersen & Rosenvinge, 2002). Crucially, reliance on outcome measures and interviews means that the context and complexities of day-to-day life with mental illness may not be captured. Capturing

these through qualitative diaries can provide a wealth of information to improve understanding of the experiences and needs of people with mental health difficulties and inform intervention development.

Alongside the value of data collected using QDMs, this method may improve accessibility of research participation and benefit participants. For some, it may be easier to write about certain things than to discuss them in an interview (Woll, 2013), particularly when relating stigmatised experiences, as the private nature of diaries means there are reduced social barriers to communicating personal thoughts and feelings (Hoffmann et al., 2010). QDMs can be inherently participatory, enabling participants to take part in their own time and way, with greater control over what information to contribute and how, in contrast to the restrictive settings of interviews, focus groups, or questionnaires (Bijoux & Myers, 2006). Researcher influence over participants' responses is reduced if the researcher is not present for data collection, meaning that power differentials are less salient than in other data collection methods (Monrouxe, 2009). This may be particularly helpful when investigating mental health conditions or other difficult experiences (Jordan et al., 2020; Lev-Wiesel, 2006). Keeping a research diary may be helpful for participants' own lives, offering an opportunity for reflection and to focus on particular issues, which can then be a coping mechanism and provide health benefits in and of itself (Matthews & Williamson, 2016; Pennebaker & Seagal, 1999). Finally, keeping a written diary can help the diarist to make sense of experiences of vulnerability and support understanding of ongoing experiences and self-development (Bernal Marcos et al., 2023).

Technology is now available to support digital data collection that promises to make QDMs significantly easier in terms of costs, time, and convenience for both researchers and participants; various smartphone applications and websites offer systems for recruitment, data collection, and participant reminders. This has proven fruitful for Ecological Momentary Assessment (EMA; Shiffman et al., 2008) and Experience Sampling Methods (ESM; Myin-Germeys et al., 2009) studies, which have been able to utilise larger sample sizes and longer data collection periods (de Vries et al., 2020). EMA and ESM studies involve repeatedly sampling behaviours and experiences in real time using short scales and questionnaires, but do not typically involve qualitative elements as the focus is typically on statistical analysis.

Theoretical understandings derived from qualitative diary research may be more transferable, or have wider applicability in terms of generating theory, if based on a range and depth of information and understanding (Kuper, 2008), and may further support the integration of qualitative and quantitative data in randomised controlled trials (Richards et al., 2019). Alongside this, the rise in natural language processing approaches means there is increasing demand for participant-produced text for health research (Askland et al., 2015), and QDMs offer a route to rich data, putting participant words at the heart of research.

There is therefore considerable value in using qualitative diary methods in mental health research, both for researchers and participants. However, the relative novelty of

this method in mental health research means that QDMs are being used variably, and there is little guidance around how to do this type of research well. Additionally, there are several potential challenges and ethical considerations specific to this method, such as possible impacts of diary keeping on participants, and issues around burden of research, participant engagement, and dropout, which need to be explored and understood.

This paper presents a scoping review of mental health research using qualitative diary methods. The aim of this review was to find out how qualitative diary methods are used in mental health research, the key benefits and challenges, and to provide an overview of decisions involved in planning and conducting a qualitative diary study in mental health research.

Methods

A scoping review was chosen as the aim is to examine the range and nature of qualitative diary studies in mental health, and how these were conducted, rather than an exhaustive summary of each QDM research study (Munn et al., 2018). The review was conducted by researchers who all have experience of designing and using QDM research in the mental health field. Searches were conducted, with the date set as from the beginning of the databases to May 2022, on Ovid Medline(R), Embase, PsycINFO, and CINAHL, with combinations of the search terms (and variations of) diary, qualitative, mental health, and psychology. The full search strategy and examples can be found in the supplementary material. The findings of this scoping review are reported in line with PRISMA guidelines for scoping reviews (Tricco et al., 2018).

Included papers had to contain a qualitative diary as a primary data collection method, and present qualitative analysis of the diaries. The objective of keeping the diary had to be to report on the experience of any mental health or mental ill-health symptoms, or experience of mental health treatment or intervention. Papers needed to contain empirical data and be published in English in a peer-reviewed journal.

Papers were excluded if the diary was not qualitative or if no qualitative analysis was presented, if the diary was used as part of an intervention rather than as a research element, or if the only qualitative element was a list of items to be rated numerically. Additionally, sleep, food, and activity diaries were excluded as these are common research elements that primarily contain categorical or numeric data.

A total of 3860 papers were identified through searches. A PRISMA chart (Page et al., 2021) reporting the numbers of included and excluded papers is presented in Figure 1. Title and abstract screening was conducted by one researcher, with 10% also screened by a second screener to ensure reliability and validity of paper selection. If a paper was on the borderline between inclusion and exclusion, it was discussed with two researchers and a joint decision made. Following recommendations by Siddaway et al. (2019), we took a cautious approach to exclusion to avoid dismissing any potentially useful texts, so a larger number of papers went to the full-text screening stage. Full-text screening of 167 records was carried out by one researcher, with discussions with two other researchers in all cases where it was not clear if the paper should be included. Forty-eight papers, totalling 44 studies, met the criteria for inclusion in the review.

The following details were extracted from each paper: citation; aims; study population; condition or experience being investigated; justification given for using diary methods; method of diary collection (paper, app, email); mode of diary (video, audio, text, photo); number of diary entries solicited per participant; timespan of diary completion; format of diary (prompted, unprompted); nature of prompts (if used - e.g. "Time to fill out your diary" or specific questions); number of participants (including age and ethnicity where reported); other data collection methods used; analysis methods; epistemological position; summary of findings; where relevant, statement of what findings resulted from the diaries compared to other data collection methods in the study; methodological challenges of using diary methods; and any ethical issues associated with the use of diary methods in the study. A summary of all included papers is provided in Electronic Supplementary Material – Table 1.

Analysis of the included papers followed a constant comparative method described by Gentles et al. (2016). Firstly, data were extracted from each paper using the categories outlined above. Following this, matrices were made of each category to allow for easier comparison between each study's approach to each section. Narrative summaries were then produced for each question, including comments on what was unclear or missing from the research report. The final analysis involved organising the summaries into categories that flow logically in the decision making process of planning and conducting a qualitative diary study in mental health research.

Findings

The included studies were published between 1996 and 2021, across 13 countries, primarily the UK, United States of America, Australia, and Nordic countries. Participants varied widely in age, gender, Ethnicity, and mental health difficulties, and some studies also included participants who were clinicians or mental health therapists. Most papers were intervention evaluation studies, or research exploring experience of particular mental health difficulties. Full details of included studies can be found in Electronic Supplementary Material – Table 1.

We have divided the review findings into three sections for clarity, each containing sub-sections summarising the different aspects of planning and conducting a qualitative diary study. 'Suitability of qualitative diary methods' outlines factors involved in determining if diary methods are suitable for the proposed research. 'Diary design' encompasses the different factors involved in designing a qualitative diary study. Finally, 'Analysis and evaluation' covers approaches to analysing data, and evaluation of strengths and limitations of QDMs.

Suitability of qualitative diary methods

This section provides an overview of key considerations in determining whether qualitative diary methods are suitable for the proposed research. It covers the types of research aims for which QDMs are used, the suitability of QDMs for the participants, and ethical issues that might be specific to conducting a QDM study.

1. Research aims

The papers included in the review highlight that QDM designs exist on a wide continuum, from short-term recording of experiences to support an interview (Jordan et al., 2020) to long-term data collection that tracks in-depth experiences over time (Thupayagale-Tshweneagae, 2011). Included papers covered a range of research types, with three intervention development studies (where diary data supported the development of an intervention), 23 intervention evaluation studies (where diary data was used to evaluate participant experiences of interventions), and 18 studies investigating experiences of mental health.

Several key reasons were cited for using QDMs, including capturing immediate experiences and reducing recall problems, and gathering rich and in-depth data (such as in Lundgren et al., 2018). Matthews & Williamson (2016) reasoned that this data may provide insights on triggers, processes, and influencing factors. The value of diaries in putting participants' experiences at the centre of the research was also frequently cited. Upthegrove et al. (2016) stated that open-ended diaries could enable important topics to arise organically across time and participants, rather than being introduced by researchers, laying groundwork for further research and theory development. McDermott et al. (2019) chose diary methods in several formats to support inclusivity, agency, and the different ways of knowing of their participants (LGBTQ+ youth). Some studies used QDMs to support other data collection. Claydon et al. (2018) used diaries to triangulate interview data and strengthen findings. Others used diaries to create topic guides for subsequent interviews (Denno et al., 2021; Deslandes et al., 2015; Long et al., 2016).

In summary, reasons for choosing QDMs centred around richness and immediacy of data, and as a way to support participants as experts on their own experiences. However, several studies used qualitative diaries without explaining the decision making around this (such as Fenwick et al., 2018; Gill et al., 2016).

2. Suitability for participants

Several important points were raised by papers in considering whether diary methods were appropriate and feasible for their participants. Given the review inclusion criteria and aims, most participants in included papers were experiencing some form of mental health difficulty, and researchers were sensitive to the needs to each specific population and considered several advantages of diary methods for participants.

Sheridan et al. (2018) highlighted the possibility of mental or physical health conditions affecting participants' ability to regularly record detailed diary entries, due to general concentration and energy level challenges of living with health conditions, alongside potential challenges with motivation. Jordan et al. (2020) reflected on the impact of mental health difficulties on verbal expression, suggesting that diaries could help participants who are less comfortable expressing themselves verbally by giving them the chance to collect and articulate their thoughts. Additional benefits to participants were highlighted by Craig et al. (2017), such as allowing participants time to reflect on

their responses and encouraging openness, alongside practical advantages such as reduced cost and enabling participants from a wider area to take part in the research. The removal of the direct presence of a researcher may also support participants to provide more open and direct reflections on their experiences, apart from the power dynamics and constraining structure and topic guides of interviews (Upthegrove et al., 2016).

These benefits to participants are also benefits to the research, supporting participants to engage in studies and communicate their experiences in ways that may be more comfortable to them, and therefore providing richer, more meaningful data.

3. Ethical considerations

The personal, detailed, and in-the-moment nature of diary data means there are specific ethical issues that must be navigated in a QDM study. However, only seven studies in the review considered ethical aspects specific to the use of diaries, beyond token comments about gaining consent at the start of the study.

Some reflected on the potential difficulties for participants of keeping a research diary. Diaries were considered by some to offer a more private way of collecting sensitive data (McDermott et al., 2019), which can be helpful for participants, but may also lead to safeguarding disclosures that the researchers have responsibility to respond to.

Metsäranta et al. (2019) reported that in their study of adolescents with depression they had research staff reading diary entries daily to identify any concerns around suicidal ideation or harm to self or others, which were then reported to participants' health care providers. Granheim and Åström (2016) reflected that talking about difficult experiences in diary entries could potentially lead to further distress, but stop short of discussing how this could be managed; they also acknowledge that narrating difficult experiences could provide relief. Pope et al. (2006) gifted participants notebooks at the end of the study, so that they could continue to keep a diary if they found the practice helpful.

Differences in literacy levels might make diary entries difficult for some, or even exclude them, as highlighted by Rappe et al. (2008) and Sheridan et al. (2018), who suggest offering different media as alternatives to written diaries. Halliday et al. (2022) and Lundgren et al. (2018) also reflected on the potential burden to participants of taking part, with the latter arguing that in their intervention study, keeping a diary was not an unreasonable request as journaling is often encouraged as a complementary practice to

mindfulness-based stress reduction. Lundren et al. (2018) did, however, instruct participants that short or no entries were fine if they sometimes did not feel up to writing detailed diary entries. Halliday et al. (2022) noted that participants overall found the study to be a positive experience.

Halliday et al. (2022) reported that some participants were anxious about confidentiality, and that this affected what they chose to disclose. The authors report that they managed this retrospectively by using caution around presentation of the study findings, including limiting use of detailed quotes.

Finally, Halliday et al. (2022) offer reflections on qualitative diary studies where the researchers also have lived experience of the study topic. In their diary study during the Covid-19 pandemic, they highlight that researchers were going through the same circumstances of isolation and stress as the participants. They highlight their focus on reflexivity throughout the study as a way of managing this, and provided researchers a training session with a counsellor before the study start – to provide advice on managing emotional health and on strategies for handling contacts with participants.

It is concerning that so few studies using QDMs appeared to consider ethical issues around the use of diaries – although reporting may have been circumscribed by restrictive publication word counts. Given the sensitivity of the topic of mental health research, and potential vulnerability of the participants, it is important to demonstrate, firstly, that the researchers are considering the impact of this method on the participants and, secondly, how QDMs can support people with mental health difficulties to take part in research in ways that are helpful for them.

Diary Design

This section outlines factors and considerations involved in each aspect of a qualitative diary study.

4. Diary format

Video, audio, written, or photo diaries are common diary formats, though some studies have used art journals (Gwinner et al., 2013) or incorporated drawing (Jordan et al., 2020). Of the included papers, 36 were written diaries, four were a combination of photos and written entries, two were drawing and writing, one was audio, and one was video and writing.

Most papers with written diaries did not provide a clear rationale why the specific diary format was chosen, beyond highlighting why diary methods in particular were used. Explanations included that written diaries can be effective in situations where participants may struggle with verbal communication (Jordan et al., 2020), and that they give participants a space to record reflections on events and experiences (Voriadaki et al., 2015). McDermott et al. (2019) argue that methods that privilege verbal articulation alone provide limited access to emotional dimensions, particularly in young people, so using a combination of written and visual diaries may provide access to different ways of knowing. Denno et al. (2021) and Wallis et al. (2020) used diaries and photo elicitation to allow participants to identify important topics and to guide the focus of subsequent interviews. Graham et al. (2021) used video and text diaries, but do not explain the choice of these formats.

Overall, there was a limited consideration of the different diary formats and how these could affect the experiences captured by participants. Where this was discussed, it appeared that the appropriate format depends on the specific research question, alongside participant preference, and ethical issues, as outlined above.

5. Diary Administration

Whatever the diary format, there are multiple ways participants can record and send their diary entries to the researchers. The majority of included studies used paper diaries (n=30), while one gave an option of paper or email diaries, two just used email, three used online survey software, one used mobile phones, and one used a custom made website. For six of the included papers it was not clear how participants completed diaries.

Paper diaries, in the form of booklets or notebooks given to participants, are an easy and familiar format for participants. However, Lundgren et al. (2018) identified several limitations to paper diaries in their study, stating that they can get lost, forgotten,

or be read by others, and have to be returned to the researcher. A website where participants can complete and submit their diary entries may solve some of these issues, as used by McDermot et al. (2019), as may email diary submission (Reed et al., 2014).

Graham et al. (2021) used an online and mobile platform for their diaries, arguing that digital diary methods participants to record their experiences as they occur during their day-to-day lives.

Overall, discussion around pros and cons of different diary formats, and justification for choice of format, was missing from included papers. These details would have been helpful in evaluating how the study was conducted, and that the potentially different needs of participants were considered in the study planning. It is also of note that no Patient and Public Involvement in Research (PPI) was reported for studies in terms of assessing what participants would prefer.

6. Diary Intervals

Diary intervals refer to how frequently participants complete diary entries. Seven papers used daily entries, six used weekly, one used twice weekly, and 23 used event-contingent entries, where participants recorded a diary entry whenever an event of interest occurred. For seven papers, it was unclear how often participants kept diary entries.

Where diaries were kept daily, this was usually for a short period of days or a week preceding an interview which would draw on the diary entries, as in Jordan et al. (Ref), McDermott et al. (2019), and Wallis et al. (2020). In Gill et al. (2016), participants kept daily entries for a month, with two interviews over this period providing an opportunity to expand on their diary entries if they wished. For Craig et al.'s (2017) study, participants sent entries once or twice a week, detailing work-related experiences of hearing auditory hallucinations, which allowed the researchers time between entries to read them and send follow-up or clarifying questions. Sabner and Arnold (2021) also asked participants to keep diaries twice weekly, in this case responding to two different diary prompts each week. Weekly diaries were typically used alongside intervention evaluations, to coincide with weekly intervention sessions and solicit participants reflections post-session (e.g. Friedrichsen et al., 2014; Kragh et al., 2017 and others). Halliday et al. (2022) used weekly diaries over eight weeks during covid-19 lockdown measures.

Event contingent diaries naturally had the widest range of diary intervals, and it was not reported how frequently participants kept diaries, only the events that were being solicited, and for how long the diary keeping period took place. Graneheim and Åström (2016) used event-contingent diaries to account for variations in mental health and ensure that relevant experiences were captured when they happened, in their study aimed at understanding experiences of living with someone with severe mental health difficulties. Thomas and Lovell (2015) asked their participants to record any vomiting events, and their thoughts and feelings around them, to get an understanding of the day-to-day managing of their bulimia symptoms.

In summary, the frequency and interval of diary entries depended on the phenomenon or experience that is being investigated, how much and how quickly it may change across time, and the detail of data needed.

7. Diary Time Period

There was a wide range in time periods that diaries were kept for, depending on the aims of the research and what experience or phenomenon was being investigated. Intervention evaluation studies tend to involve keeping diaries for the timespan of the intervention only, such as Rayner et al. (2022) in which participants were asked to record any self-harm during a 12-week intervention, and Kragh et al. (2017), where participants reported their experience of light therapy and depression during the nine week intervention. Studies using diaries to support interviews typically used a week long diary keeping period, e.g. Long et al. (2016).

Event-contingent diaries range in length according to what is being explored. Gill et al. (2016) wanted to fully capture the depth and range of experiences of atypical medication in those with Auditory Verbal Hallucinations, and asked participants to record their experiences daily for a month. In Sabner and Arnold (2021), participants kept diaries twice weekly for 15 weeks, the duration of the first semester of college, recording their mental health experiences and how these changed over the course of the semester. One paper reported that participants kept diaries for two years, reporting their experiences of everyday life close to a person with mental ill-health, allowing time for expected large variations in mental health and how and when participants would have anything to report (Graneheim and Åström, 2016).

Many papers did not clearly report how long participants kept diaries, which left it unclear how much data was collected, and how experiences and changes over time might have been captured.

8. Sample Size

Diary study sample sizes vary greatly, with some large sample sizes such Hagen (2021) with 133 diaries, and Sheridan et al. (2018) with their thematic analysis of data from 70 participants, to the very small, such as Hoffman et al. (2010) and their phenomenological study of five participants. The larger sample sizes of Hagen et al. (2021) and Sheridan et al. (2018) were facilitated by being embedded in intervention studies with large numbers of participants. In intervention studies, sample sizes were typically guided by interventions being investigated and how many participants the intervention had or needed (e.g. Canella et al., 2019). Matthews and Williamson (2016), reflected that there was significant variation in diary length, content, and structure, but that with their sample of ten participants, the data was rich and in-depth. Sample size in all qualitative research depends on the underlying epistemological approach and methodology, and the included papers largely reflected this, rather than specific discussions about diary data and sample size.

9. Diary Structure and Guidance

To support participants with providing relevant data, many studies gave participants diary keeping guidance and prompts to respond to in their diary entries. Most papers provided general descriptions only - see Table 1 (Electronic Supplementary Material 1) for a full list of the guidance used for each study. For example, Stelter et al. (2009) mentions that the diaries provided to participants contained introductory text, but did not specify what this involved. Most asked participants to report in general on the events or experiences that were the focus of the study, including Halliday et al. (2022), who asked participants to record general reflections on their week. Some researchers asked participants for a more specific focus in their diary entries, such as asking for

thoughts and feelings (Gilbert & Irons, 2004), or thoughts, feelings, routines, and experiences around the use of the trial drug (Canella et al., 2019). Nine papers did not report using any guidance or prompts for diaries.

One study used a hybrid method; Lundgren et al. (2018) asked participants to write freely on what was important to them, but provided some (unreported) prompts for participants to respond to if they felt stuck. Finally, four studies included diaries that were unsolicited at the time of writing, where participants had provided their diaries to the researchers to support analysis (Claydon et al., 2018; Gentile, 2006; Hoffmann et al., 2010; Somer & Weiner, 1996). Somer and Weiner (1996) and Gentile (2006) used diaries kept by participants before the study as the sole data for analysis, so the data did not contain any prompting or shaping by the researchers, and provided vast amounts of detailed data to investigate experiences of trauma and eating disorder (Gentile) and whether early signs of dissociation were identifiable (Somer and Weiner).

Overall, guidance and prompts need to be open enough to put participants in control of what is recorded, ensuring the power of data collection is still in their hands, and to facilitate open and unconstrained data (Gill et al., 2016). Too open a structure may generate a wide variety of responses and topics that may ultimately be of little relevance to the research (Graneheim & Åström, 2016). Additionally, where diary prompts and guidance are not reported, the reader is left wondering what participants were responding to, and how these questions and guidance shaped the resulting data – introducing uncertainty about the trustworthiness of the study findings.

10. Additional Data Collection Methods

Several studies use qualitative diaries to complement other data collection within the study, such as interviews, questionnaires, or focus groups. Nine studies relied solely on diary data, 23 used diaries and interviews, and the rest used diaries alongside other data collection methods, such as focus groups, transcribed therapy sessions, photos, or questionnaires. See Table 1 in Electronic Supplementary Material 1 for details of which study used each method and how.

The use of diaries to support interviews varied. Some used the diary as a form of topic guide for the interview (Long et al., 2016), as a memory prompt (Jordan et al., 2020), or to provide triangulation for interview data (Claydon et al., 2018). Others, such as

McDermott et al. (2019) used a post-diary interview to explore in more detail the meanings of interactions reported in the diaries. Combining diaries with other data collection methods offers potential to ulitise their respective strengths, for example, the capacity of diaries to elicit rich, immediate data and of interviews to generate spontaneous responses and discussion (Craig et al., 2017). Incidents and experiences may be recalled differently in an interview to how they were reported in the diary, providing insight into how they are processed and reflected on by participants (Mackrill, 2009).

For nine studies, diaries were the exclusive data collection method, with some of these highlighting the volume, depth, and detail of data provided (e.g. Thomas & Lovell, 2015; Craig et al., 2017). Sheridan et al. (2018) argue that using this approach can provide all participants in larger studies equal opportunity to record their experiences, which may not be possible using interviews or other methods.

Analysis and evaluation

This final section reviews analysis approaches in the included studies, as well as challenges and strengths to using QDMs.

11. Analysis method

Analysis of diaries varied, with Content Analysis (13 studies) and Thematic Analysis (11 studies) being most popular. Five used Narrative Analysis, four IPA, and three Grounded Theory. For seven studies, the analysis approach was not explicitly labelled, instead presented as, for example, qualitative summaries (Gilbert & Irons, 2004), or psychoanalytic exploration (Gentile, 2006). Two papers specified that diaries themselves were not analysed, as they had been used only as topic guides for interviews (Long et al., 2016; Wallis et al., 2020).

Halliday et al. (2022) described using a thematic analysis approach initially, and then followed with a narrative approach due to concerns that thematic analysis alone would not capture the nuances of the individual narratives over time. Few others reflected on how the temporality of diary entries influenced their approach. With diary data collection taking place over time, some papers discussed considerations around when

analysis should also take place. Electronic data collection provided some advantages for this, for example, Craig et al. (2017) used email for their data collection, which allowed them to analyse diaries as they were submitted, and then send follow-up questions to participants. Metsäranta et al. (2019) invited participants to submit diary entries electronically, and researchers read entries for risk and safeguarding issues weekly, but it seems that analysis took place at the end of the data collection period.

Practical considerations may determine when analysis can take place - such as in Friedrichsen et al. (2014), where paper diaries were collected at the end of the study. Friedrichsen et al. reflect that while they used Grounded Theory for analysis, they could not use constant comparison during analysis as it was completed at the end, and that as a result their analysis did not reach the point of saturation.

12. Challenges of qualitative diary methods

Fourteen papers provided reflections on the challenges associated with using qualitative diary methods. Some of these have already been mentioned where relevant above. Several papers reported challenges with participant engagement. Matthews and Williamson (2016) and Sheridan et al. (2018) report that there was considerable variation in diary content, length, and structure, with Sheridan suggesting that this could introduce bias. Gilbert and Irons (2004) reported that all participants experienced problems in keeping diaries over six weeks – e.g. losing them, forgetting to fill them in, which Lundgren et al. (2018) also reported. Metsaranta et al. (2019) found that despite SMS reminders, participation declined after the first week. Gilbert and Irons (2004) therefore suggested their data was unreliable and advised using shorter time periods or more frequent sampling points. Kragh et al. (2017) reported that most participants did not want to keep a diary at all.

Some of the difficulties around engagement were reported to be due to the mental health difficulties experienced by participants. Gill et al. (2016) stated that participants who were very disabled by illness, or who had difficulties expressing themselves, provided less detail in their diaries. They also reported that unspecified long term effects of illness made some participants unable to keep a diary for the full period, which was a month, and that physical side effects of medication made writing difficult some participants. Metsäranta et al. (2019) also found that those who did not end up using the diary were those experiencing more severe mental health difficulties.

Several authors reflected on the impact of the diary methodology on the study findings. Lundgren et al. (2018) stated that collecting diaries at the end prevented researchers from asking follow up or clarifying questions. They also noted that participants tended to write more in their diaries during the first half of data collection, and urge caution with descriptive analysis of time points because of this. Sheridan et al. (2018) reflect that due to their large sample size, they did not apply the concept of saturation during their thematic analysis of diaries, which, they suggest, may limit transferability. Gill et al. (2016) acknowledged that the practicalities of analysing large quantities of data made them limit their sample size (to 19).

In their study of depression in long-term-care residents, where participants kept a written, prompted diary for one week, Pope et al. (2006) found that while around half of participants experienced keeping the diary as positive, the other half had more negative experiences; reasons for this included physical health difficulties, and difficulties around expressing emotions, while some simply reported being relieved when the study was over. Sheridan et al. (2018) also reflected that motivation and health problems could be challenging for some participants, and recommended alternative diary formats to suit different participant needs. Metsaranta et al. (2019) reported that significantly more girls used the diarires than boys, and this was reflected across the included studies, with 73% of participants being women or girls (where gender was reported); it is unclear if this is overall due to inclusion criteria or participant preferences.

13. Strengths of qualitative diary methods

Many of the included papers reflected on the strengths of using qualitative diary methods. Rich insights into participants' thinking, emotions, and self-knowledge were commonly mentioned (Friedrichsen et al., 2014; Lev-Wiesel, 2006; Thomas & Lovell, 2015). Mackrill (2007) also highlighted the value of diaries in providing both real time and retrospective insights into participants lives, where diaries were used to reflect on current and past experiences. Lundgren et al. (2018) report that diaries meant that continuous struggles were captured over time, which may have been forgotten by the end of the intervention, allowing them to gain a more nuanced understanding of how participants' experiences change, and how processes unfold, over time.

The positive impact for participants of keeping diaries was also noted. Craig et al. (2017) reported that participants found increased awareness and understanding of

their voice-hearing experiences, while Gilbert and Irons (2004) observed that participants' diaries of self-criticism helped them understand just how self-critical they were. In their study using audio diaries, Sabner and Arnold (2021) reported that the audio diary format enabled participants to freely talk through their mental health difficulties and create their own narratives. They attributed this to the anonymity of recording audio notes, and highlighted their value in gaining unfiltered, honest insights.

The benefits of qualitative diary methods on the trustworthiness and credibility of the study findings were much discussed. Where diaries were used alongside interviews and other methods, they were seen as adding a valuable real-time picture of experiences that provided a source of triangulation and improved the credibility and confirmability of findings (Claydon et al., 2018; Kragh et al., 2017; Voriadaki et al., 2015). Gill et al. (2016) stated that participants' accounts of how they constructed meaning in their lives generated high levels of trustworthiness in the data. Upthegrove et al. (2016) and Wallis et al. (2020) concluded that the information was less 'contaminated' by researcher questions or outcome scales, providing a more credible representation of participants' experiences.

Finally, Graham et al. (2021) suggest that insights captured on the cognitions and emotions around daily management of binge eating highlight the value of qualitative diary approaches in understanding individual variations in triggers, outcomes, and motivations. Graham et al. also argue that their digital platform for diary entries supported ease of participation and low burden of the research for both participants and researchers.

Discussion

This review outlines the many aspects of conducting a qualitative diary study, including the preliminary decisions, such as whether QDMs are the best way to answer the research question for participants and researchers, to the building blocks of a qualitative diary study - formats, prompts and guidance, timelines, and other data. It highlights the strengths of QDMS, particularly in terms of insights into participants' minds and lives, and credibility and trustworthiness of data collected over time. The review has also highlighted several aspects of QDMs where conduct, or reporting of conduct, needs some improvement. Overall, the review illustrates that QDMs are an excellent method for investigating mental health difficulties, but that these type of studies need to be conducted

and reported transparently if their findings are to be trustworthy and impactful. It is noteworthy that there were a number of papers included in the review that met the criteria, but provided very limited data for the review (Hall et al., 2020; Li et al., 2019; Mackrill, 2007, 2008a, 2008b, 2011; Rungreangkulkij et al., 2011; Thomson et al., 2020; Thupayagale-Tshweneagae & Mokomane, 2014).

Many papers lacked discussions around how design decisions were made - such as intervals and timespan of diaries. There was overall a lack of reported PPI involvement in the planning and decision making of the QDM studies included, which the authors of this review consider to be an essential part of QDM research. Patient involvement in research is particularly in the context of considering any negative impacts of diary keeping on the participant population, some of which have been explored by Pennebaker and Chung (2011) in the context of expressive writing. Additionally, there were few details around the prompts and guidelines participants were responding to in their diaries, which is concerning when these, responded to at multiple timepoints across the study, shape the data collected.

Some studies in this review highlight the benefits of electronic data collection in qualitative diary research (especially Craig et al., 2017; Halliday et al., 2022). Apps for data collection have been largely overlooked by the qualitative community (Do & Yamagata-Lynch, 2017) even while they have become mainstream within quantitative research, where they are commonly used within EMA/ESM research (van Berkel et al., 2018). App data collection has many advantages, enabling multiple formats within the same diary and automatic reminders to complete diary entries. Diaries that are easy to complete, have some degree of flexibility, and do not require participants to carry additional equipment around with them are more likely to support engagement and address some of the challenges of QDMS found by some of the included studies, such as losing paper diaries or simply forgetting to complete them. Findings from quantitative research support the acceptability and preferability of electronic data collection methods (Green et al., 2006; Weigold et al., 2013), and participant engagement is typically higher when electronic devices already owned by participants are used for data collection (Berkman et al., 2014; Colombo et al., 2018). However, digital exclusion (DiMaggio et al., 2004) must also be considered and understood in reference to the participant population, and where possible alternatives should be offered to support access to and engagement in research.

Despite a reported value of QDMs being the capturing of changes over time, very few included papers discussed how to analyse elements of time and longitudinality in the data. Few papers used narrative analysis, which would explicitly address this, and

thematic and content analysis types were most common. There are many ways to respond to these methodological issues. Framework analysis can be used to support longitudinal qualitative research, and Lewis (2007) highlights the different layers of analysis and insight gained with this kind of data, looking at theme, case, and group analysis. Thematic trajectory analysis (Spencer et al., 2021) provides a way of conducting thematic analysis to take into account dynamic temporal aspects of change over time. Grossoehme and Lipstein (2016) describe an approach to trajectory analysis that can be incorporated into any methodology and can allow comparison of participants at multiple timepoints, or the following of individual trajectories across the whole data collection period. Essentially, there are many approaches to capturing changes over time in diary data, and the approach taken must be outlined to support confidence in the study findings. Similarly, where diaries are used alongside other data collection methods, consideration is needed over how to integrate the in-the-moment data from diaries with other retrospective perspectives - and this was largely missing from the included studies.

This review was limited to intervention and experiences of mental health difficulties research, and the search terms may not have captured all qualitative diary studies or those using more innovative methods that come under the umbrella of QDMs but use different terminology. Limiting the review to the mental health field may mean that good practice examples and learnings around QDMs from other fields were excluded that may have also been applicable to mental health research. Nonetheless, the review provides an overview of how QDMs can be used and a solid starting point for anyone considering incorporative qualitative diary aspects into their research. While the current review does not consider participant experiences and preferences around QDM research, these are explored in a subsequent paper by the authors, where considerations of audience, communication, and benefits and challenges of QDMs are discussed from the perspective of participants who have taken part in QDM research (McCombie et al., 2023).

To address the lack of consistency in conduct and reporting in QDM papers, we have included a checklist of decisions and reporting items for conducting a QDM study, found in Electronic Supplementary Material 2. This is intended as a template from which to support design and decision making in qualitative diary studies, based upon the findings from this review, and complements more generalised qualitative reporting checklists by outlining considerations specific to evaluating QDM research. Future research to solidify these reporting guidelines using Delphi methods would be valuable to further support rigorous use and reporting of QDM research.

Conclusions

This paper has provided a comprehensive overview of the use of qualitative diary methods in mental health research. Key options, decisions, and implications of each are reviewed - from whether QDMs are an appropriate method to address a particular research question, to decisions needed in study setup stages, analysis of diary data, and potential challenges of the method. The strengths of the method, for participants, researchers, and the knowledge base alike, are clear. The issues and considerations outlined in this paper support researchers using this method to make clear and justifiable decisions around study design and conduct. We hope that this paper and the checklist for qualitative diary research will go some way to making QDMs a more accessible research method for both quantitative and qualitative researchers working to improve understanding of mental health.

Supplementary Materials

- ESM 1. Table 1 (Supplementary Material Table 1.docx)
 Descriptions of included papers
- ESM 2. Table 2 (Supplementary Material Table 2.docx)
 Checklist for conducting and reporting qualitative diary methods in mental health research
- ESM 3. Search strategy (Supplementary Material Search strategy)

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 Table 1: Table summarising details of papers included in the review

	Authors and year	Study title	Study aims	Objec- tive of diary	Number of partici- pants, gen- der, age range, and ethnicity (where re- ported)	Diary administ- ration	Diary guidance and prompts	Other study components and how diaries fit with them	Analysis methods; epistemological ap- proach taken (where reported)
1.	Canella, Bachman, Wol- fensberger, & Witt (2019)	Patients' experiences attributed to the use of Passiflora in- carnata: A qualitative, phenomeno- logical study	Under- standing the therapeutic effects of Passiflora Incarnata for treat- ment of anxiety and sleep problems.	To capture patients' thoughts, feelings, and perceptions of Passiflora Incarnata.	8 (7F, 1M) Mean age 62 ±9 (standard deviation) Ethnicity not reported.	Paper, kept for two days.	Participants asked to detail their daily routines, thoughts, perceptions, and experiences of using Passiflora Incarnata.	Baseline questionnaires at the start of the trial period, diary kept at week 3 for 2 days, and semistructured interviews 6-8 weeks after baseline.	Diaries and interviews analysed using a mixture of content analysis, narrative analysis, and documentary method.
2.	Claydon, Davidov, Zullig,	Waking up every day in a body that	Under- standing concerns	Partici- pants were asked to	15 (F), 4 provided dia- ries.	Diaries were per-	None – diaries unsolicited at the time of writing.	Interviews were primary component, with diaries used to triangulate interview data.	Document analysis for diaries – quotes from diaries captured and

	Lilly, Cottrell, &	is not yours: a	and bar-	share dia-	Age range	sonal dia-			used in analysis; femi-
	Zerwas (2018)	qualitative re-	riers to	ries from the	25-55	ries kept			nist theory and a trans-
		search inquiry	care of	time they	White (14)	by partici-			formative framework.
		into the inter-	prenatal	were preg-	Hispanic (1)	pants be-			
		section	women	nant to help	Tilopariic (1)	fore the			
		between ea-	with eating	triangulate		study be-			
		ting disorders	disorders.	their inter-		gan.			
		and preg-		view data.					
		nancy							
3.									
	Craig,	Work-re-	Under-	To allow	5 (F)	Partici-	Detailed diary guidance	Diaries were the only data	Thematic analysis of
	Cameron &	lated experi-	standing	participants	Age range 24-	pants	was sent to participants,	collection method.	diary entries; pheno-
	Longden	ences of pe-	experi-	to reflect on	61	emailed di-	encouraging them to write		menological approach
	(2017)	ople who hear	ences of	responses,		ary entries	whenever it suited them		within an interpretivist
		voices: An oc-	voice-hea-	encourage	Ethnicity	3-6 times	and as often as they liked.		paradigm.
		cupational	ring on	more open	not reported.	over 3			
		perspective	working li-	disclosure,		weeks,			
			ves, and	reduce cost		with rese-			
			the strate-	to resear-		archers			
			gies pe-	cher and		sending			
			ople use to	participant,		follow-up			
			manage	and enable		and clarifi-			
			negative	participation		cation			
			impacts of	where loca-		questions			
			voice hea-	tion and		between			
			ring.	disability		entries.			
				might other-					
				wise prevent					
				it.					
	1	1	i	I	1	1	1	I	

4.									
4.	Denno,	Listening	Under-	Diaries	35. Gen-	Partici-	Participants were asked	Diaries and photos were used	Content analysis.
	Wallis, Cald-	to voices: un-	standing y-	used to faci-	der not re-	pants were	to make entries about AVH	as participant-led topic guides for	
	well, Ives,	derstanding	oung	litate recall	ported. Age	asked to	episodes, including the	walking interviews. The interviews	
	Wood, Broome,	and self-ma-	adults' ex-	and reflec-	range 17-37.	make writ-	hallucination, their	themselves were then analysed	
	Mallikarjun,	nagement of	periences	tion. Photos	Ethnicity re-	ten diary	response, and to take pho-	rather than the diaries.	
	Oyebode & Up-	auditory ver-	of auditory	used to al-	ported as	entries	tos that represented or evo-		
	thegrove	bal hallucina-	verbal	low emotio-	"predomi-	and take	ked emotions related to		
	(2021)	tions in young	hallucina-	nal dialogue	nantly White"	photos for	their experiences.		
		adults	tion, with a	about con-	(p.3)	a week be-			
			focus on	cepts that		fore an in-			
			their un-	may be diffi-		terview.			
			der-	cult to ver-					
			standing	balise.					
			and self-						
			manage-						
			ment of						
			the halluci-						
			nations.						
5.									
	Deslandes,	An explo-	To ex-	Diaries	11 (8F,	Paper	Participants were asked	Semi-structured interviews	Diaries analysed
	John & Deslan-	ratory study	plore ex-	were used	3M)	booklet,	to record prescribing	"with reference to the diaries"	with thematic content
	des (2015)	of the patient	periences	to allow pati-		with diary-	events.	followed the diary keeping period.	analysis. Interviews ana-
		experience of	of patients	ents to re-	Age range	keeping			lysed with thematic ana-
		pharmacist	with men-	cord events	reported as	guidance			lysis.
		supplemen-	tal illness	as they hap-	18-50+	at the			
		tary prescri-	being ma-	pened, to re-	Ethnicity not	front.			
		bing in a se-	naged by a	duce the	reported.				
		condary care	pharmacist	need to rely					
		mental health	supple-	on memory					
		setting	mentary	during inter-					
			prescriber	views.					
						l			

6.	Fenwick, Toohill, Slavin, Creedy & Gamble (2018)	Improving psychoeducation for women fearful of childbirth: Evaluation of a research translation project	in a secondary care outpatient setting. To evaluate effectiveness of a midwifedelivered intervention for women fearful of child-birth, and the experiences of the midwives decurrents.	No rationale given for use of diaries. Diaries recorded general experience and reflections on delivering the intervention and the perceived response of participants.	22 (F) – 6 completed di- aries. Age range 29-68 Ethnicity not reported.	Printed booklet with requests for specific information on the women receiving the intervention, and space for reflections.	Participants were asked to record issues discussed with the women, reflections on how the women responded to the intervention, and reflections on organisational enablers and barriers to counselling.	Midwives completed surveys before and after attending training, quantitative measures were used to determine the effectiveness of the intervention, and telephone interviews were conducted with the midwives after they had delivered the intervention.	Content analysis.
7.	Friedrich- sen, Hajradino- vic, Jakobsson, Sundberg, Axmacher Jonsson & Mil- berg (2015)	Prolon- ged grievers: A qualitative evaluation of a support group inter- vention	ves de- livering it. To study how a prolon- ged grief therapy pro- gramme influenced	To record participants' experiences after each group session, including how the session affected	11 (F) Age range 33-71 Ethnicity not reported.	A pa- per folder was given to each participant to use as a diary, with entries once a	Participants were asked to record their experiences after each group session, within 24 hours of the session.	Interviews took place after the diary-keeping period. Interviews were to follow up on the diaries, but it is not clear how the diaries actually informed the interviews.	Grounded theory. Diaries analysed before the interviews.

			social pro-	them, fee-		week for			
			cesses	lings that		2-6 mon-			
			and expe-	came up,		ths.			
			riences in	and what					
			a group in-	they					
			tervention.	learned.					
8.	Gentile	T ' '	Devi	D	4 (5)	Dississ	Diada a a a a a a a a a a a a a a a a a a	Diameter the code compet of the	A control of a control
		Timing	Psy-	Perso-	1 (F)	Diaries	Diaries were unsolici-	Diary is the sole aspect of the	Analysis described
	(2006)	development	choanaly-	nal diary	Age of di-	were in the	ted, with entries undated.	study.	as psychoanalytic explo-
		from cleavage	tic investi-	kept before	_	form of			ration.
		to differentia-	gation of	the study.	ary keeping	notebooks			
		tion	one wo-		from 14-32	kept (un-			
			man's dia-		years.	solicited)			
			ries kept o-		Ethnicity	by the par-			
			ver 18		Ethnicity	ticipant in			
			years de-		not reported.	the years			
			tailing her			before the			
			severe			study took			
			trauma			place.			
			and eating						
			disorder.						
9.									
J .	Gilbert &	A pilot ex-	Under-	To ex-	9 (7F, 2M)	Paper	Diary guidelines promp-	Diaries also included quantita-	Analysis method un-
	Irons (2004)	ploration of	stand and	plore trig-	Age and ethni-	diaries	ted participants to describe	tive questionnaires.	specified – diary entries
		the use of	investigate	gers and	city not re-	were given	the types of self-critical		qualitatively summari-
		compassio-	self-criti-	forms of	ported.	to partici-	thoughts they had, events		sed.
		nate images	cism and	self-criti-		pants and	leading to them, and how		
		in a group of	the use of	cism.		they recor-	these thoughts made them		
		self-critical	compas-			ded ent-	feel.		
		people	sionate			ries daily			
			imagery as			for two			
						weeks,			
						woons,			

			an inter-			then			
			vention in			weekly for			
			people at-			six weeks.			
			tending a						
			depression						
			support						
			group.						
10.									
10.	Gill, Morrall	Living	To ex-	No spe-	19 (6F,	Paper	Loose instructions as-	Interviews midway through	Thematic content
	& Knapp (2015)	with schizo-	plore lived	cific justifica-	13M)	diaries,	ked participants to record	the diary period and at the end.	analysis, diaries and in-
	α παρρ (2010)	phrenia and	experi-	tion or ob-	10111)	kept daily	their daily experiences and	Interviews clarified and validated	terviews analysed; phe-
		atypical medi-	ences of	jective given	Age range	for one	the differences they felt	diary entries, and gave partici-	nomenological ap-
				-	28-56 years.		-		
		cation	people	for using di-	Ethnicity not	month.	their condition made to their	pants an opportunity to expand on	proach.
			with schi-	ary me-	Ī		lives.	what was written.	
			zophrenia	thods.	reported.				
			who take						
			atypical						
			antipsy-						
			chotic me-						
			dication.						
11.									
'''	Graham,	Applying	To un-	Diaries	22	Video	Diaries were split into	Diaries were the sole data	Thematic analysis.
	Neubert,	User-Cen-	derstand	were chosen		and text	nine parts, with different	source.	
	Chang, Liu, Fu,	tered Design	how indivi-	as the best	Age and	responses	questions, including open-		
	Green, Kom-	Methods to	duals with	way to learn	ethnicity not	submitted	ended questions, in each.		
	field & Nicholas	Understand	obesity	about pe-	reported but	to an on-	chaca questions, in cacii.		
			-	•	stated as sel-				
	(2021)	Users' Day-	and binge	ople's expe-	ected to en-	line and			
		to-Day Expe-	eating ex-	riences of	sure a diverse	mobile			
		riences Can	perience	binge eating		platform o-			
		Inform a Mo-	these	as they oc-	cohort with	ver one			
		bile Interven-	problems	cur in the	more females	month.			
		tion for Binge	in their	context of	than males				

		Eating and Weight Ma- nagement	day-to-day lives, to in- form deve- lopment of a mobile interven- tion.	their every- day lives.	due to the re- lative preva- lence of binge eating disor- der.				
			,, <u></u>						
12.	Graneheim & Åström (2016)	Until death do us part: Adult re- latives' expe- riences of everyday life close to per- sons with mental ill- health	To understand adult relatives' experiences of everyday life close to a person with mental ill-health.	No specific justification or objective given for using diary methods.	13 (12F, 1M) –9 com- pleted diaries. Age range 45-85 Ethnicity not reported.	Paper diaries, kept for two years, event-contingent.	No reporting of instructions. Participants wrote varied entries.	Four participants (who had not kept diaries) were interviewed (narrative interviews) after initial diary analysis to validate and expand on diary findings.	Content analysis.
13.	Gwinner, Knox & Brough (2013)	Making sense of mental illness as a full hu- man experi- ence: Per- spective of ill- ness and recovery held by people with a mental illness living	To explore the complexity of mental illness and recovery as a full human experience.	Diary used as part of a partici- patory ac- tion rese- arch design, within which participants wished to engage in a continual in- terpretative	8 (3F, 5M) Age and ethnicity not reported.	Visual diaries, made by the artist-participants, time period unclear.	Diary instructions not given to participants.	Interviews at the beginning, middle, and end of the data collection period.	Analysis method unclear; symbolic interactionism served as the theoretical framework.

		in the com-	1	relationship					
				with their					
		munity							
				data.					
14.									
	Hagen,	"I Just	Under-	Diaries	133 stu-	Written	Instructions were given	Interviews after the diary kee-	Thematic analysis.
	Skjelstad &	Find It Easier	stand how	were kept to	dents took	diaries	by different yoga instruc-	ping period.	
	Nayar (2021)	to Let Go of	yoga in-	supplement	part in the in-	kept for	tors, therefore varied in		
		Anger": Re-	fluences	interview	tervention and	the dura-	their wording. They were		
		flections on	managing	data.	diary keeping.	tion of the	generally asked to share		
		the Ways in	emotions		Nine provided	eight week	their experiences relating to		
		Which Yoga	in disad-		interviews (5F,	course.	practicing yoga.		
		Influences	vantaged		4M).	oodioo.	practioning yough.		
		How Young	young pe-						
		People Ma-	ople with		Ethnicity				
		-	•		not reported.				
		nage Their	mental		not reported.				
		Emotions	health						
			challen-						
			ges.						
15.									
	Hall, Munk,	Maternal	As-	No spe-	44 (F)	Online	Diary instructions not	Interviews after giving birth on	Content analysis.
	Carr, Fogarty,	mental health	sess feasi-	cific justifica-		diaries	reported, participants recor-	the experience of the intervention.	
	Cant, Holton,	and partner-	bility and	tion or ob-	Age range	kept for	ded experiences with the		
	Weller & Lau-	delivered	acceptabi-	jective given	19-41	the dura-	intervention.		
	che (2020)	massage: A	lity of a	for diary as-		tion of			
	, ,	pilot study	partner-de-	pect.	Ethnicity	pregnancy			
			livered	F	not reported.	from 28-32			
			massage			weeks on-			
			interven-			wards.			
			tion for			wards.			
			pregnant						
			women						
			with						

16.	Halliday, Holt, Khan, Ward, Wheeler & Sadler (2022)	'A lot of small things make a diffe- rence'. Mental health and strategies of coping during the COVID-19 pandemic	anxiety and depression. Exploring how mental health was affected during Covid-19 lockdowns.	Diaries were selected as the methodo- logy as they have been used in pre- vious crisis situations in England.	15 (10F, 3M, 2 not stated) Age 30-70 White-Bri- tish (9), Black African and White (1), Pa- kistani (3), not stated (2).	Online diaries kept weekly, with a link sent to partici- pants once a week for eight weeks. Word documents were also an option.	Closed questions and open, free-text questions to share general reflections on the week.	Weekly telephone calls, which were not recorded.	Thematic analysis.
17.	Hoffman, Myburgh & Poggenpoel (2010)	The lived experiences of late-adole-scence fe-male suicide survivors: 'A part of me died'	Explo- ring the experi- ences of people who have lost some- one to sui- cide.	Diary was provided by one participant after they were invited to share diaries from the time of losing someone. Diaries elicited as	Five (gender not reported) One provided a diary. Age range 18-22 Ethnicity not reported	Diary was personal diary of a participant from a time period prior to the study taking place, kept for around	Unsolicited diaries.	Interviews were the main data collection method, aided by a participant-created collage of their lived experience.	Phenomenological method (from Giorgi 1985). Interviews and diary materials analysed.

				they might reduce social barriers in describing stigmatised experience that might be present in interviews.		two years at the time after losing someone to suicide.			
18.	Jordan, Marczak & Knibbs (2020)	'I felt like I was floating in space': Au- tistic adults' experiences of low mood and depres- sion	Exploring how autistic adults experience depression.	Diaries were chosen to aid inter- views be- cause they are less in- trusive and may support communica- tion for pe- ople who struggle with verbal ex- pression.	8 (1F, 7M) Age range 19- 51 Ethnicity not reported	Paper diaries, kept daily for one week.	Diary semi-structured with participants encouraged to convey their experience of mood.	Interviews took place after the diary keeping period, participants were encouraged to reference their diaries during the interview.	Interpretative phe- nomenological analysis of diaries and interview transcripts.
19.	Kragh, Norden Møller, Schultz Wihlborg, Martiny,	Experi- ences of wake and light therapy in patients	Ex- plore pe- ople with depressi-	No justi- fication given for	13 (5F, 8M) –5 kept a diary. Age range 18-66	Paper diaries kept over the course of a 9	Diary instructions unclear.	Interviews took place after the diary keeping period. The researcher read the diary before each	Content analysis.

	Roj Larsen, Vi-	with depres-	ons' expe-	use of diary		week inter-		interview to identify areas for ela-	
	debec & Lind-	sion: A quali-	riences	methods.	Ethnicity	vention.		boration in the interview.	
	hardt (2017)	tative study	with wake		not reported				
	, ,	,	and light						
			therapy,						
			and factors						
			related to						
			ad-						
			herence.						
20.									
	Lev-Wiesel	Interge-	Explo-	The au-	Five clini-	Paper	No diary instructions re-	Interviews with clinicians took	Narrative and story
	(2006)	nerational	ring me-	thors were	cians, report-	diaries	ported.	place after the diary keeping pe-	analysis.
		transmission	chanisms	concerned	ing on 24	kept over		riod.	
		of sexual a-	behind in-	interviews	mothers who	the course			
		buse?	tergenera-	would inter-	were at-	of therapy,			
		Motherhood	tional	fere with the	tending	not stated			
		in the shadow	transmis-	therapeutic	therapy. 19	how long			
		of incest	sion of	process, so	mothers kept	this is.			
			childhood	clinicians	diaries.				
			sexual a-	were inter-					
			buse, from	viewed	Age and				
			the per-	instead of	ethnicity not				
			spectives	the clients,	reported.				
			of mothers	but the cli-					
			who had	ents kept di-					
			been abu-	aries throug-					
			sed and	hout treat-					
			then	ment which					
			sought tre-	clinicians					
			atment af-						
			ter their						
			children						

			were abu-	then refe-					
			sed.	renced in in-					
			seu.						
				terviews.					
21.									
	Li, Keady &	Transfor-	Under-	Diaries	Five pe-	Diaries	No diary instructions re-	Diaries were kept as part of a	Narrative analysis of
	Ward (2021)	ming lived	standing	were places	ople with de-	kept over	ported.	longitudinal narrative approach in-	all study data; natura-
		places into	the mean-	for partici-	mentia (4F,	the year-		volving interviews, co-constructed	lism paradigm used.
		the connected	ing,	pants to ex-	1M) and their	long study,		maps, and photos.	
		neigh-	construc-	plain how of-	partners (4M,	format un-			
		bourhood: a	tion, and	ten and why	1F). All White	clear.			
		Iongitudinal	place of	they went to	British.				
		narrative	neigh-	places, with					
		study of five	bourhood	whom, and					
		couples	in people	what the					
		where one	with de-	place meant					
		partner has	mentia and	to them.					
		an early diag-	their care-						
		nosis of de-	givers,						
		mentia	with a wi-						
			der aim of						
			shifting to-						
			wards a						
			deinstituti-						
			onalised						
			perspec-						
			tive.						
00									
22.	Long,	Starting	Explo-	Diaries	41 total	Paper	No diary instructions re-	Interviews took place after the	Grounded theory
	Briggs, Long &	where I am: a	ring the	were kept in	participants	diary kept	ported.	diary keeping period. Diaries were	(Charmaz), dairies not
	Astin (2016)	grounded the-	_	order to faci-	(33F, 8M) - 20	over one	porteu.	used as facilitators for interview	analysed; constructivist
	A5(111 (2010)	•	impact of mindful-						
		ory explora-		litate identifi-	kept a diary.	week prior		discussion only.	approach.
			ness on						

		tion of mind-	experience	cation of ex-	Age range not	to an inter-			
		fulness as a	of living	periences of	reported.	view.			
		facilitator of	with a long	mindfulness.	·				
		transition in	term physi-		White Bri-				
		living with a	cal or		tish (38) White				
		long-term	mental		other (2)				
		condition	health con-		Mixed				
			dition.		White/Black				
			G.1.101.11		African (1)				
					. ,				
23.	Lundgren,	A journey	Explo-	Diaries	12 (4F,	Note-	Detailed diary instruc-	Diaries are the sole data	Content analysis
	Garvin, Kristen-				12 (4F, 8M)	book diary	tions provided, with partici-	Source.	Content analysis
	son, Jonasson	through chaos and	ring expe- riences of	kept in order	OIVI)	provided	pants encouraged to write	Source.	
		calmness: ex-	mindful-	to capture immediate	Age range	-	freely but to reflect on		
	& Thylén				56-63	by resear-	•		
	(2018)	periences of	ness prac-	experiences	30-03	chers, with	prompting questions if they		
		mindfulness	tice among	of mindful-	Ethnicity	partici-	struggled to write.		
		training in pa-	patients	ness, to faci-	not reported.	pants as-			
		tients with de-	with	litate recall,		ked to			
		pressive	coronary	and be-		make an			
		symptoms af-	artery	cause diary		entry after			
		ter a recent	disease	methods		each			
		coronary	and de-	can be sui-		home			
		event – a	pressive	table when		practice			
		qualitative di-	symptoms.	exploring		session o-			
		ary content		change over		ver the			
		analysis		time.		course of			
						an 8-week			
						mindful-			
						ness-ba-			
						sed stress			
						reduction			
						course.			

24.									
	Mackrill	Using a	To ex-	Diaries	4 patient	Paper	Detailed diary instruc-	Recordings of therapy sessi-	Analysis process
	(2007, 2008,	cross-contex-	plore and	used as a	participants	diaries	tions given to aid structure	ons were also used in the analy-	described but not attri-
	2008, 2009,	tual qualita-	under-	means to	(3F, 1M); 3	kept by	in diary entries. Firstly as-	sis.	buted to any referenced
	2011)	tive diary de-	stand pro-	gather data	therapist parti-	partici-	king participants to describe		qualitative analysis me-
		sign to ex-	cesses ta-	both about	cipants (1F,	pants for	experiences only, then as-		thod; approach driven
		plore client	king place	sessions	2M)	ten sessi-	king them to consider ex-		by theory of persons in
		experiences	during psy-	and the rest		ons.	planations and other reflec-		social practice.
		of psychothe-	chothe-	of partici-	Age and		tions after descriptions.		
		rapy; Explo-	rapy.	pants' lives.	ethnicity not		Participants were asked to		
		ring psycho-			reported.		describe the time spent		
		therapy cli-					between the sessions.		
		ents' indepen-							
		dent strate-							
		gies for							
		change while							
		in therapy;							
		Pre-treatment							
		change in							
		psychothe-							
		rapy with							
		adult children							
		of problem							
		drinkers: the							
		significance							
		of leaving							
		home; A							
		cross-contex-							
		tual construc-							
		tion of clients'							
		therapeutic							
		practice; The							

		case of "Jane	1						
		and Joe": a							
		diary-based,							
		cross-contex-							
		tual case							
		study							
25.									
20.	Matthews &	Caught	To un-	Diaries	10 (7F,	Paper	Participants were given	Five participants completed	Interpretative phe-
	Williamson	between com-	derstand	used to al-	3M) Age	diaries,	several open-ended	an interview after the diary kee-	nomenological analysis;
	(2015)	passion and	challenges	low events	range 21-43	completed	prompts focused on experi-	ping period, during which resear-	critical realism ap-
		control: explo-	faced by	to be cap-	Ethnicity not	for a mini-	ences and challenges.	chers referred to the diaries they	proach.
		ring the chal-	healthcare	tured in real-	reported.	mum of six		had kept, asking participants to	
		lenges	assistants	time.		shifts.		elaborate on areas of interest.	
		associated	working on						
		with inpatient	secure						
		adolescent	adolescent						
		mental	mental						
		healthcare in	health						
		an indepen-	wards,						
		dent hospital	how they						
			manage						
			these chal-						
			lenges,						
			and the						
			impact on						
			their health						
			and well-						
			being.						
			25mig.						

26.									
	McDermott,	Family	To ex-	To cap-	13 (6 Cis	Paper	Prompts invited partici-	After the diary keeping period,	Thematic analysis;
	Gabb, Eastham	trouble: Hete-	plore how	ture immedi-	F, 3 Cis M, 1	or online	pants to record family inter-	a follow-up interview explored the	critical mental health
	& Hanbury	ronormativity,	family rela-	ate every-	Trans F, 1	diaries	actions and how these in-	meanings of the interactions cap-	framework putting emo-
	(2019)	emotion work	tionships	day prac-	Trans M, 1	kept once	teractions made them feel.	tured in the diary.	tions at the centre of the
		and queer y-	impact on	tices and	other). 9 kept	a day for a			research.
		outh mental	the mental	emotions of	diaries.	week.			
		health	health and	LGBTQ+ y-					
			wellbeing	outh.	Age range				
			of		17-25.				
			LGBTQ+						
			youth.		White Bri-				
					tish (8) Black				
					and Minority				
					Ethnic (4)				
					White other				
					(1)				
27.									
	Metsäranta,	How do	То	Diaries	47 (45F,	Diaries	Diaries provided	Diaries were the sole data	Content analysis.
	Kurki, Valimaki	adolescents	describe	used be-	2M) Age	kept online	prompts for reflection on a	collection source.	
	& Anttila (2019)	use electronic	how adole-	cause they	range 15-17	over six	different theme each week.		
		diaries? A	scents with	provide self-	Este a inite e	weeks.			
		mixed-me-	depression	reflective	Ethnicity	Partici-			
		thods study	use an e-	space and	not reported.	pants were			
		among adole-	diary.	might be		sent SMS			
		scents with		useful to		message			
		depressive		adolescents		reminders			
		symptoms		with depres-		each			
				sion.		Monday to			
						encourage			
						them to			

						use the di-			
						ary.			
28.									
20.	Palacios-	The im-	То	Diaries	51 partici-	Paper	Not reported – unclear	The study also included infor-	Thematic analysis,
	Ceña, Martín-	pact of a	describe	were elicited	pants – 5 kept	diaries.	if participants were asked to	mal interviews, letters written by	performed separately on
	Tejedor, Elías-	short-term	experi-	after the	a diary (2 pati-	4.4	keep diaries or they were	participants, non-participant ob-	all data types.
	Elispuru, Ga-	cohousing ini-	ences of	study to pro-	ents, 3 stu-		kept unsolicited and provi-	servations, and focus groups.	an data typoo.
	rate-Sama-	tiative among	partici-	vide rich in-	dents)		ded for analysis.	convations, and reducing to appe.	
	niego, Pérez-	schizophrenia	pants in a	formation on	domo		dod for analysis.		
	Corrales &	patients, high	short-term	personal ex-	Mean age				
	García-García	school stu-	cohousing	periences	34.46 ±8.14				
	(2018)	dents, and	initiative	from the	(standard de-				
	(2010)	their social	between	participants'	viation)				
		context: A	adole-	point of	,				
		qualitative	scents and	view.	Ethnicity				
		case study	mentally ill	viou.	not reported.				
		ouce study	patients,						
			designed						
			to reduce						
			stigma, im-						
			prove un-						
			der-						
			standing,						
			promote						
			mental						
			health, and						
			prevent						
			substance						
			abuse.						
			abase.						

29.									
	Pope, Wat-	The per-	To ex-	Diaries	24 (17F,	Partici-	Five open ended ques-	Participants were interviewed	Grounded theory.
	kins, Evans &	ception of de-	plore resi-	give an op-	7M). Mean	pants were	tions, details not reported.	after the diary keeping week, re-	
	Hess (2006)	pression in	dents' per-	portunity to	age 82.54 ±	given a		garding their experiences of parti-	
		long-term-	ceptions of	gain subjec-	5.55 (standard	notebook		cipating in the study.	
		care resi-	depression	tive data	deviation)	and a pen			
		dents: A qua-	in long	about de-		to keep di-			
		litative study	term care	pression	Caucasian	aries in for			
		using residen-	facilities,	that objec-	(24)	one week.			
		tial journaling	and to de-	tive measu-					
			termine	rements are					
			appropria-	unable to					
			teness and	capture.					
			effectiven-						
			ess of di-						
			ary kee-						
			ping as an						
			investiga-						
			tive tool for						
			resear-						
			chers, as						
			well as a						
			mental						
			health re-						
			source for						
			older						
			adults in						
			LTC facili-						
			ties.						
<u> </u>	L								

30.									
	Rappe,	Group	To as-	Diaries	12 (gen-	Partici-	Participants were asked	Questionnaires were also	Content analysis;
	Koivunen &	gardening in	sess the	were used	der not re-	pants were	to make notes about their	used to assess factors including	phenomenological ap-
	Korpela (2008)	mental outpa-	potential	to allow par-	ported) inclu-	given a di-	experiences.	the health-related effects of the in-	proach.
		tient care	benefits of	ticipants to	ding partici-	ary, un-		tervention.	
			a group	make notes	pants and	clear how			
			gardening	on their ex-	support work-	long each			
			interven-	periences of	ers for the ac-	participant			
			tion for re-	the interven-	tivity	kept the			
			habilitating	tion.		diary for.			
			mental		Age and				
			health out-		ethnicity not				
			patients.		reported.				
31.									
	Rayner,	A multi-	To ex-	Diaries	3 (F)	Diaries	Participants were asked	Participants also took part in a	Descriptive methods
	Bowling, Bluff,	method eva-	plore the	were used		were coll-	to report thoughts and fee-	focus group after the intervention.	and thematic analysis.
	Wright, Ash-	luation of a	impact of a	to allow par-	Age range	ected on	lings before and after self-		
	worth-Lord &	compassion-	compas-	ticipants to	21-28	paper, par-	harming incidents.		
	Laird (2022)	focused cog-	sion-	record in-		ticipants			
		nitive behavi-	focused	cidents of	Ethnicity	were as-			
		oural psycho-	Cognitive	self-harm.	not reported.	ked to do			
		therapy group	Behavio-			this for the			
		for people	ural			duration of			
		who self-harm	Therapy			the 12-			
			group for			week inter-			
			people			vention.			
			who self-						
			harm.						

32.									
32.	Reed, Fen-	Australian	To un-	Diaries	18 partici-	Diaries	Participants were asked	Participants were interviewed	Thematic analysis
	wick, Hauck,	midwives' ex-	derstand	were inten-	pants (F) - 10	were coll-	to reflect on their experi-	at four timepoints across the trai-	was used for the inter-
	Gamble &	perience of	midwives'	ded as re-	provided dia-	ected by	ences in the diary entries.	ning and delivery period of the in-	views. The diaries were
	Creedy (2013)	delivering a	experi-	flective dia-	ries.	email.		tervention, and also discussed the	used to provide clarity
		counselling	ences of	ries of mid-				intervention with other participants	around the emerging
		intervention	learning	wives' expe-	Age range			in an online forum.	themes, though it is not
		for women re-	and de-	riences.	26-59				reported how this
		porting a trau-	livering a						worked.
		matic birth	counsel-		Ethnicity				
			ling inter-		not reported.				
			vention for						
			childbirth						
			trauma.						
33.	Rungreang-	Buddhist	To un-	Diaries	64 (60F,	A pa-	Participants were asked	Group sessions were tape re-	Content analysis
	kulkij, Wong-	group therapy	derstand	were used	4M)	per diary	to detail perceived changes	corded and transcribed, and a	was used to gather
	takee &	for diabetes	and as-	to see chan-	,	was kept	in thoughts and emotions	quantitative questionnaire, the	descriptive information
	Thongyot	patients with	sess the	ges in	Mean age	by each	throughout the intervention.	Nine Question Thai I-san dialects	about participants per-
	(2011)	depressive	effect of a	thoughts	47.0±9.5	participant	throughout the intervention.	(9Q) was used to assess change	ception of change, from
	(2011)	symptoms	Buddhist	and emoti-	(standard de-	throughout		in depression.	tape recordings of the
		Symptoms	group	ons across	viation) Ethni-	the six		пт абргезоют.	group sessions and from
			therapy on	the interven-	city not re-	week inter-			diary entries.
			people	tion.	ported.	vention,			diary oritios.
			with diabe-	tion.		unclear			
			tes and			how often			
			depres-			partici-			
			sion.			pants did			
			5.011.			this.			

34.									
	Sabaner &	Mental	To in-	Diaries	79 stu-	Partici-	Participants were sent	40 participants also took part	A narrative inquiry
	Arnold (2021)	Health in the	vestigate	were used	dents took	pants re-	prompts via SMS message	in 30-minute interviews at the be-	approach was used;
		Transition to	mental	to record ex-	part in the	corded an	twice a week. Once a week	ginning and end of the diary-kee-	post-positivist approach.
		College: Ex-	health	periences of	main study;	audio di-	the prompt asked partici-	ping period.	
		periences of	changes	the first se-	six (4F, 2M)	ary, and	pants to share anything		
		Six Low-In-	during the	mester of	were selected	took a	about their experience, the		
		come, High-	first se-	college.	for this analy-	photo with	other asked them to share		
		Achieving	mester of		sis of mental	a 2-3 sen-	something on a particular		
		Students	college.		health based	tence cap-	topic.		
					on the focus	tion, twice			
					of their diaries	a week for			
					being around	15 weeks.			
					mental health.				
					Black (3),				
					White (3).				
35.									
	Sheridan,	Friends-	Explo-	Diaries	70 (35F,	The	Prompts asked partici-	Diaries were the sole data	Thematic analysis;
	O'Keeffe,	hip and mo-	ring the	were chosen	35M)	pro-	pants to reflect on what	collection method.	essentialist approach
	Coughlan,	ney: A quali-	experi-	to provide		gramme	went well or not, emotional		underpinned by relati-
	Frazzer, Dren-	tative study of	ences of	novel in-	Age range	was	responses to social activi-		vism.
	nan & Kemple	service users'	people	sights, as	21-74	weekly o-	ties, whether they had tried		
	(2018)	experiences	with	little is		ver a 9	anything new, and future		
		of participa-	enduring	known about	Ethnicity	month pe-	socialisation plans.		
		ting in a sup-	mental	service	not reported.	riod, but it			
		ported sociali-	health ill-	users' expe-		is not re-			
		sation pro-	ness ta-	riences of		ported			
		gramme	king part in	supported		how long			
			a sup-	socialisa-		partici-			
			ported	tion.		pants kept			
						diaries for.			

			socialisa-						
			tion pro-						
			gramme.						
36.	Somer & Weiner (1996)	Dissocia- tive sympto- mology in adolescent di- aries of incest victims	To understand whether there are adolescent clinical antecedents of dissociative identity disorder (DID).	Diaries from adole- scence were used to see if they offer any insight into the de- velopment of early symptoms of dissociative identity dis- order.	6 (F) – 3 were DID patients, 3 were not. Age range 25-29 Ethnicity of only 3 participants reported: Caucasian (2)	Diaries were pro- vided by partici- pants who had written them as teenagers.	Diaries were unsolicited at the time of writing so no prompts were used.	Diaries were the sole data collection method.	Content analysis.
					Israeli (1)				
37.	Stelter (2009)	Experiencing mindfulness meditation – a client narrative perspective	To understand the experience of a mindfulness meditation course for people with mental health difficulties.	No rationale given for use of diaries.	3 (2F, 1M) Age range 47- 65 Ethnicity not reported.	Diaries were writ- ten by hand on forms pro- vided by the resear- chers and posted to the resear- chers once a week, o- ver 6-8	The diaries provided had introductory text, which is not reported in the article.	Participants were also interviewed three times, at the beginning, middle, and end of the course.	Narrative analysis.

38.	Thomas & Lovell (2015)	Anxiety and compulsion patterns in the maintenance of bingeing/purging behaviours by individuals with bulimia nervosa	To explore the daily management of symptoms by patients with bulimia.	Dairies chosen be- cause buli- mia symp- toms are se- cretive, and psychothe- rapy prac- tice diaries are common as means of assessing behaviours and client progress.	12 (11F, 1M) Age range 23-46 Ethnicity not reported.	weeks depending on the length of their intervention. Diary format not reported. Participants were asked to record vomiting events and their thoughts and feelings around this.	Diary prompts and duration are not reported.	Diaries were the sole source of data.	Thematic analysis.
39.	Thomson, Morse, Elsden & Chatterjee (2020)	Art, na- ture and men- tal health: as- sessing the biopsycho- social effects of a 'creative green prescription'	To assess the biopsychosocial effects of participating in a combined arts and	To assess the experience of and improvement following the intervention.	26 (13F, 13M) Age range 44-70 White (60%) Black	Diary format not reported. Partici- pants completed weekly di- aries with	Guideline questions not reported.	Interviews with intervention facilitators and participants also took place at the end of the intervention.	Thematic analysis.

		museum pro-	nature ba-		(30%) Mixed	'guideline			_
		gramme in-	sed mu-		race (10%)	questions'.			
		J			Tace (10%)	questions.			
		volving horti-	seum in-						
		culture, art-	tervention						
		making and	on adult						
		collections	mental						
			health ser-						
			vice users						
40.									
	Thu-	Develop-	To ex-	To accu-	15 (Gen-	Partici-	Participants were asked	Some participants also provi-	Colaizzi's model of
	payagale-	ment and im-	plore ex-	rately cap-	der not re-	pants were	to record general experi-	ded photos depicting their experi-	data analysis was used
	Tshweneagae	plementation	periences	ture subjec-	ported) - 8	provided	ences of being orphaned by	ences, took part in focus groups,	to analyse themes from
	(2011)	of a peer-ba-	of adole-	tive know-	completed a	notebooks	AIDS or HIV, as well as re-	and made event history calen-	the different types of
		sed mental	scents or-	ledge of ex-	diary.	and asked	cord their thoughts, fee-	dars.	subjective data; pheno-
		health sup-	phaned by	periences,		for record	lings, and experiences after		menological approach.
		port pro-	HIV and	emotions,	Age and	experi-	weekly meetings at a day		
		gramme for	AIDS, to	and mean-	ethnicity not	ences over	centre.		
		adolescents	inform de-	ings.	reported.	six mon-			
		orphaned by	velopment			ths.			
		HIV/AIDS in	of a peer-						
		South Africa	based						
			mental						
			health sup-						
			port pro-						
			gramme.						
44			-						
41.	Thu-	Evalua-	Evalu-	Diaries	15 (Gen-	Partici-	Participants were asked	Focus groups after the inter-	Colaizzi's model of
	payagale-	tion of a peer-	ating a	were chosen	der not re-	pants were	to record their experiences	vention and records of school gra-	data analysis was used
		1	_				•	_	-
	Tshweneagae	based mental	peer-ba-	as they may	ported) Age	provided	regarding the intervention	des were also used to evaluate	to analyse themes from
	& Mokomane	health sup-	sed mental	include new	and ethnicity	notebooks,	program, as well as the	the intervention.	the different types of
	(2014)	port pro-	health sup-	knowledge	not reported.	and asked	emotions that were evoked		
		gramme for		or insights		to record	by their inter- actions with		

	ı	adalaa t-	nort re-	into the	I	ontrice of	corpositions and ather results	T	aubiantiva deta: altare
		adolescents	port pro-	into the		entries af-	caregivers and other people		subjective data; pheno-
		orphaned by	gramme	knowledge		ter each of	in their environment.		menological approach.
		HIV/AIDS in	for adole-	gained in		14 sessi-			
		South Africa	scents or-	specific		ons of the			
			phaned by	contexts.		interven-			
			HIV/AIDS			tion – not			
			in South			reported			
			Africa			not long			
						this was			
						for.			
42.									
42.	Uptheg-	Auditory	To un-	Diaries	25 (69%	Partici-	Participants were asked	An interview was conducted	Content analysis;
	rove, Ives,	verbal halluci-	derstand	were kept to	Male)	pants were	to record experiences of	after the diary-keeping period.	phenomenological ap-
	Broome, Cald-	nations in	the subjec-	stimulate	Waic)	provided	auditory verbal hallucina-	and the daily keeping period.	proach.
	well, Wood &	first-episode	tive experi-	discussion	Age range	with a	tions, and how these made		ргоасп.
	Oyebode	psychosis: a	ence of	during inter-	17-37	notebook	them feel.		
	(2016)	1 -		views.			mem reer.		
	(2016)	phenomeno-	auditory	views.	White	and			
		logical investi-	verbal		(14) Asian (7)	camera,			
		gation	hallucina-		Black (4)	and asked			
			tions in			to make			
			first-epi-			entries o-			
			sode psy-			ver one			
			chosis.			week.			
43.									
	Voriadaki,	Intensive	To un-	Diaries	5 girls with	Blank	Instructions asked parti-	Focus groups, rating scales,	Interpretative phe-
	Simic, Espie &	multi-family	derstand	were in-	AN, plus 6	diary	cipants to focus on any	and researcher observations were	nomenological analysis.
	Eisler (2015)	therapy for	change	cluded to	mothers and 4	booklet	changes they experienced	also used.	
		adolescent	processes	capture a re-	fathers. Girls	provided,	in emotion, cognition, or be-		
		anorexia ner-	in multi-fa-	cord of parti-	with AN age	partici-	haviour, and what had pro-		
		vosa: adole-	mily	cipants' ses-	range 15-16.	pants as-	bably triggered that change.		
		scents' and	therapy for			ked to			
		parents' day-	adolescent			complete			
		<u>'</u>							

		to-day experi- ences	anorexia nervosa.	sion-to-ses- sion reflec- tions.	White Bri- tish (5 fami- lies) Asian Bri- tish (1 family)	entries once a day over four days.			
44.	Wallis, Denno, Ives, Mallikarjun, Oyebode, Broome & Upt- hegrove (2020)	The phenomenology of auditory verbal hallucinations in emotionally unstable personality disorder and post-traumatic stress disorder	To explore the phenomenology of auditory verbal hallucinations in people who have nonpsychotic diagnoses.	Diaries were used due to the need for in- depth explo- ration of the subject, un- guided by scales and measures developed for schizo- phrenia and free from longstanding involvement with mental health pro- fessionals whose framework may in- fluence communica- tion of such	10 (4F, 6M) Age range 17-31 White British (8) Asian (1) Mixed race (1)	Participants kept paper and photo diaries for one week.	Diary guidelines not reported.	Diaries and photos guided an interview, instead of having a topic guide.	Thematic analysis of interview transcripts; phenomenological approach.

		events.			

<u>Table 2: Checklist for conducting and reporting qualitative diary methods in mental health research</u>

Topic	Item Number	Guide Questions	Answer – Yes/No/ Partly
Suitability of qua	litative dia	ry methods	
Research aims	1	Is the use of diary methods clearly explained and justified?	
Participants	2	Is there consideration given to whether diary methods will be acceptable and accessible to participants?	
Ethical issues	3	Are diary-specific ethical issues reported and accounted for?	
Diary design			
Diary format	4	Is the decision behind selection of the diary type used explained, including with reference to participant preference and consideration given to the type of data the method will elicit on the phenomenon of interest?	
Diary administ- ration	5	Is the diary data collection method justified, and procedures clearly described?	
Diary intervals	6	How frequently, and under what circumstances, will participants be completing and submitting diary entries?	
Diary time pe- riod	7	For how long will participants be submitting diary entries, and is the length of this time period clearly justified?	
Sample size	8	How many participants were recruited, and how many dropped out during the study? Is the sample size explained?	
Diary structure and guidance	9	What is the structure of the diaries, and are any guidelines or diary prompts clearly reported and explained?	
Additional data collection	10	Are there other data collection methods in the study, and where do diaries fit in with these?	
Analysis and eval	luation		
Analysis method	11	Is the qualitative methodology selected justified and clearly described in methods and analysis, and is specific	

		consideration given to how this method will work with longitudinal diary data?	
Challenges	12	Are any challenges or limitations of the diary data or method reported and addressed?	
Strengths	13	Are any strengths of the diary data or method reported and considered?	

Supplementary Material 3: Scoping review search strategy

The search strategy was built around the following terms:

Qualitative, mixed methods, diary, diaries, experience/s, perspective/s, mental health, mental illness, mental wellbeing, psychology, psychological intervention.

The example search strategy below is based on Medline and Embase databases. Adjustments were made for searching the other databases.

Search type: Abstract, title, keywords searches.

Search terms:

- 1. (Mental health OR mental well\$ OR mental illness OR psycho\$).ab,ti,kw
- 2. (Qualitative OR mixed method? OR experience? OR perspective?).ab,ti,kw
- 3. (Diary OR diaries).ab,ti,kw
- 4. 1 AND 2 AND 3