

Paper Title: Confidentiality, anonymity and amnesty for midwives in distress seeking online support – Ethical?

Abstract

Background

Midwife health is intrinsically linked to the quality of safe patient care. To ensure safe patient care, there is a need to deliver emotional support to midwives. One option that midwives may turn to, may be a confidential online intervention, instead of localised, face-to-face support.

Research design

Following the Realist And Meta-narrative Evidence Syntheses: Evolving Standards (RAMESES) publication standards, this realist synthesis approach explores the ethical considerations in permitting confidentiality, anonymity and amnesty in online interventions to support midwives in work-related psychological distress. An iterative search methodology was used to select nine papers for review. To assimilate information, papers were examined for ideas relating to ethical dimensions of online interventions to support midwives in work-related psychological distress. This review takes a narrative approach.

Findings

Online interventions can support the development of insight, help seeking and open discussion. Additionally, internet support groups can become morally persuasive in nature. Anonymity and confidentiality are both effective and therapeutic features of online interventions when used in collaboration with effective online moderation. Yet ethical dilemmas remain where users cannot be identified.

Discussion

Confidentiality and anonymity remain key components of successful online interventions. However, sanctioning the corollary component of amnesty may provoke moral discomfort for those seeking immediate accountability. For others, amnesty is seen as essential for open disclosure and help seeking. Ultimately, the needs of midwives must be balanced with the requirement to protect the public and the professional reputation of midwifery.

Conclusion

In supporting midwives online, the principles of anonymity, confidentiality and amnesty may evoke some resistance on ethical grounds. However, without offering identity protection, it may not be possible to create effective online support services for midwives. The authors of this paper argue that the principles of confidentiality,

anonymity and amnesty should be upheld in the pursuit of the greatest benefit for the greatest number of people.

Keywords: Midwives; psychological distress; Stress, Occupational; Health Workforce; Internet; intervention

Introduction

Commentators have reported that working within modern healthcare services is difficult for staff, as unhealthy working cultures and traumatogenic environments persist¹⁻³. Healthcare staff may find it difficult to disclose ill health or divulge that they may be struggling to cope in the workplace⁴. Additionally, some individuals may not recognise, or understand mental ill health in themselves^{5,6}. As the wellbeing of healthcare staff directly correlates with the quality of patient care and safe clinical practice⁷, this has implications for delivery and quality of care, in addition to the impact upon individual staff members.

Rationale for review

Midwives are more likely to report feeling pressured at work than most other healthcare staff⁸. In providing support, the ethical considerations in relation to online interventions to support midwives in work-related psychological distress have yet to be explored. Midwives can be reluctant to seek help for fear of stigma, and face to face 'debriefing' discussions after significant events can have a punitive feel⁹⁻¹¹. There has

also historically been a reluctance to report poor performance due to a general tolerance of mistakes, fear of inaction, and a fear of adverse repercussions¹². Those who prefer to engage in online support rather than traditional real world services have historically done so because of stigma, shame, linguistic barriers and inconvenience¹³.¹⁴ As such, an online intervention which offers anonymity, confidentiality and their corollary, amnesty, may be the preferred option for midwives in place of face to face support. Yet the ethical considerations associated with the provision of online services to effectively support midwives in distress have yet to be explored.

Medical ethics also point to both anonymity and confidentiality as key factors required in the facilitation of care, because without the promise of confidentiality and anonymity, those in need of help may not be adequately trusting to reveal crucial information¹⁵. This would consequently undermine the delivery of appropriate care¹⁶⁻¹⁸. However, midwives are professionally accountable for patient care, their own health and fitness to practise. As such, the provision of anonymity, confidentiality and their corollary, amnesty, in this particular case require further ethical exploration and debate.

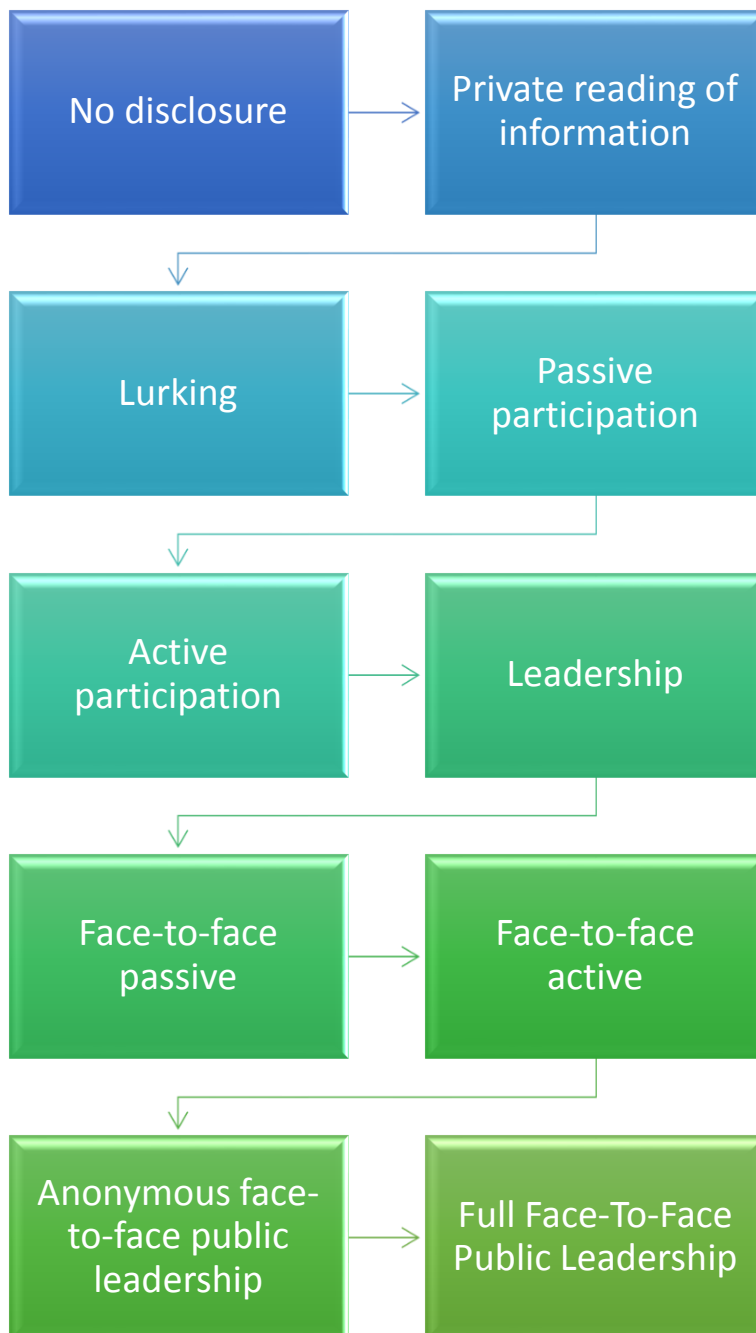
Society has seen many successful episodes where a period of amnesty has been granted for the benefit of all. Examples of this include gun, drug and knife amnesties, where individuals can admit to an offence without any risk of reprisal¹⁹⁻²¹. In the

context of health care, there have also been successful 'DUMP' (Disposal of Unwanted Medication Properly) campaigns, where unwanted medicines have been relinquished to pharmacies for safe disposal without the fear of judgement or retribution²². The benefits of these periods of amnesty are that those in need of help may take a unique window of opportunity to seek help, where they may not otherwise have done so.

Specific strategies may be used within online interventions to support and encourage face-to-face help seeking and open disclosure, such as the Pathways Disclosure Model²³. The Pathways Disclosure Model specifically describes how online disclosure can become part of a process for those who are in a pre-contemplative stage of change to follow a non-threatening pathway towards seeking face-to-face help and disclosure. In this context, the anonymity and confidentiality afforded by an online intervention offers users a unique opportunity to covertly sample the helping process, which leads to a greater willingness to participate in help seeking activities.

Within the Pathways Disclosure Model, it is the safety of absolute anonymity and confidentiality which remain the key to sustainability in recovery²⁴. Although this model has only previously been applied to those with gambling and alcohol addictions, this model could also be applied to supporting midwives using an online intervention during work-related psychological distress. Figure 1 demonstrates the various steps towards face-to-face help and disclosure as outlined by Pathways Disclosure model.

Figure 1: The Pathways Disclosure Model in Computer-Mediated Communication



Objectives and focus of review

Working whilst feeling too unwell to perform clinical duties adequately is incompatible with safe and effective clinical practice²⁵. Yet 68% of the United Kingdom's National Health Service staff have reported doing so²⁶. Globally, midwives report concerning levels of work-related psychological distress²⁷. Online support for midwives experiencing work-related psychological distress is one potential support provision for this group, providing 24-hour access and a wide reach.

This realist synthesis review outlines and explores three ethical considerations in the development of online interventions to support midwives in work-related psychological distress to inform ethical decision making²⁸. These are namely confidentiality, anonymity and amnesty. This paper relates these ethical considerations specifically to midwives, as midwives are a professional group unique in the fact that they work within an understaffed area of high litigation, where their clinical workload is becoming increasingly complex. We explore these ethical considerations in order to facilitate moral decision making and generate further dialogue.

The overriding question for this review was: What are the ethical considerations associated with the provision of confidentiality, anonymity and amnesty in online interventions to support midwives in work-related psychological distress?

Background

It is widely recognised that midwives can experience psychological distress whilst caring for women and their families^{27, 29-32}. The paucity of attention given to the wellbeing of the healthcare professional has been identified as the missing response in staff management across the globe³³⁻³⁶. Specifically, midwives may be at an increased risk of psychological distress due to the unique and traumatic work environments they experience^{35, 37}.

Ethically, midwives are entitled to a healthy, and psychologically safe professional workplace^{27, 38}. Yet midwifery is sometimes based upon a culture of service and sacrifice, which may have historically been prioritised above the individual rights of midwives', and midwives in need of support are often met with inadequate provision³⁹⁻⁴¹. Online interventions that prioritise the needs of midwives in psychological distress may be one option midwives may turn to for support, in line with other populations⁴². Such interventions may have the potential to become a powerful tool in improving midwife health and wellbeing. This may in turn protect the public more widely, improve patient care and the quality of safer healthcare services for all⁷.

There is strong and recent evidence to support the implementation of online psychotherapeutic interventions, which have proved beneficial in providing effective support for other populations in psychological distress⁴³⁻⁴⁵. One such emerging online

intervention, which one of the authors has an association with – Big White Wall, offers confidential support to thousands of individuals with mental health problems in the on-line space. An effective and therapeutic online intervention can be defined as one where members are able to communicate, find information, engage and navigate the software with ease ⁴⁶.

Some of the benefits of providing support online rather than within a face to face scenario are increased accessibility, identity protection, and, comfort for users ⁴⁷. In an online environment, the benefits of anonymity for vulnerable online users include a significant disinhibition effect, increased feelings of safety and an increased ability for the user to speak openly and honestly for the purpose of developing a therapeutic connection ⁴⁷. For midwives, this could mean speaking openly for the purpose of recovery and help seeking, which could in turn improve the safety and quality of maternity services.

Confidentiality

Confidentiality is a mutual understanding between two or more parties, where it is the belief of the sender that his or her information will not be shared, and the promise of the receiver to protect and not disseminate the information shared ⁴⁸. For midwives, confidentiality is a professional obligation and can only be broken in the interests of

patient and public safety. Confidentiality in the context of an online intervention would mean that users would be expected to keep the identities of individual names, organisations and places confidential. In this context, providing confidentiality to midwives online will also inhibit other users from reporting concerns to professional regulators, as all users remain unidentifiable.

Confidentiality and anonymity in combination are particularly important to help those needing support with suicidal ideation⁴⁹. However, confidentiality may be legitimately broken if a person is at risk of harming themselves. As this would conflict with the provision of anonymity, there is an ethical decision to be made with regards to how this trade off might be managed. It has been proposed that for those feeling vulnerable, allowing for anonymous and confidential contact and support online may be the optimal method of engagement⁵⁰. This may be because those in distress often avoid professional help, and online services can provide anonymity, confidentiality, a sense of immediacy and are highly acceptable to younger people⁵¹⁻⁵³. Additionally, research has shown that those at higher risk of suicidal ideation may be more likely to engage with online support⁵⁴. Therefore, midwives in severe distress may prioritise a confidential online environment to access support, in favour of help avoidance.

Providers of online support interventions may not have the ability to assess the mental state of the participant or intervene in a time of crisis. This is of concern as some

virtual environments can be emotionally dangerous for the user ⁵⁵. Any mitigation of risk and harm must be balanced with the benefits associated with supporting midwives to enjoy psychologically safe professional journeys in pursuit of safer maternity services.

Anonymity

Anonymity has three distinct features: identity protection, action anonymity and visual anonymity ⁵⁶. Identity protection allows a real world entity to remain unidentified, action anonymity enables a real world entity to feel 'unknown' by their actions, and visual anonymity relates to a real world entity having his or her appearance go unnoticed ⁵⁷. Without anonymity, many online activities could become potentially risky to users, as users may become reluctant to share their thoughts openly for fear of stigma, punitive action and/or identification ⁵⁷⁻⁵⁹. Encouraging the disclosure of shameful symptoms and related behaviours could be associated with positive outcomes ^{60, 61}. Therefore, the principle of anonymity could be considered for online interventions designed to support midwives and encourage them to speak openly.

Anonymity in the context of online interventions to support midwives in work-related psychological distress would mean that midwives would be able to experience full identity protection as they interact. This anonymity would be given with the intention

of promoting positive therapeutic engagement and help seeking behaviours. This is significant, as the key to achieving a positive disclosure and a request for real world help may correlate with the relative amount of anonymity participants are afforded^{14, 23}.

Nevertheless, in an anonymous cyber space, obligation and accountability can be challenging to achieve where individual users cannot be identified. As the purpose of an online intervention is to support its users, it may be that an online intervention designed to support midwives would not seek to enforce or achieve accountability in this context, particularly given that other channels and processes exist to achieve accountability and uphold professional conduct. We refer to the concept of accountability as “taking responsibility for one's nursing judgments, actions, and omissions as they relate to life-long learning, maintaining competency, and upholding both quality patient care outcomes and standards of the profession while being answerable to those who are influenced by one's nursing practice”⁶².

Amnesty

Amnesty arises as the corollary component of both confidentiality and anonymity. Amnesty is a period of forgiveness, where a crime or misdeed is forgiven, forgotten, or ‘pardoned’^{63, 64}. Amnesty in the context of an online support intervention would mean

that midwives would be able to disclose an impairment or work-related issue of concern, without fear of retribution or regulatory referral for the purpose of help seeking and disclosure. However, midwives have a professional duty to disclose any unsafe practice to their regulator. Should a midwife disclose something of concern online but fail to inform the regulator, this could put patients at risk of further harm and damage the reputation of the profession. As such, some might argue that an amnesty should not be used for midwives in any context.

For doctors in psychological distress, punitive blame cultures and policies often prevent the disclosure of episodes of ill health, addiction and psychological distress⁶⁵.⁶⁸ At times, a doctor's insight into the need for help and treatment can also be diminished⁶⁸. As midwives report similar levels of psychological distress and punitive blame cultures within the workplace, this set of circumstances may be equally apparent in midwifery populations. This may in turn result in a reluctance to seek help or speak openly, which would paradoxically put patients at risk if a compromised healthcare professional continues to practise whilst they are unfit to do so⁶⁹. As such, a therapeutic space which permits amnesty may encourage help seeking behaviours, positive disclosures, a sense of catharsis, real world behaviour change, reflection and emotional disclosure for midwives in distress⁷⁰. This journey may also be mapped against the pathways to disclosure model²³.

Amnesty agreements may provoke moral discomfort. The Council for Healthcare Regulatory Excellence requires the Nursing and Midwifery Council to be seen to protect the public as a primary aim before supporting the wellbeing of the workforce⁷¹. We also recognise that amnesty agreements for healthcare professionals may not be favoured by patients and the public.

Methods

Aims

A realist synthesis review involves refining theories and thoughts as the evidence emerges from the literature⁷². The aim of this realist synthesis review is to explore three ethical considerations in relation to the development of online interventions to support midwives in work-related psychological distress. These ethical considerations are namely the provision of confidentiality, anonymity and amnesty. .

Rationale for using realist synthesis methodology

Realist synthesis reviews have an exploratory rather than an evaluative focus. This realist review explores ethical considerations in relation to the development of an online intervention to support midwives in work-related psychological distress, which may require the principles of confidentiality, anonymity and amnesty. Initial scoping searches did not reveal any literature in relation to these principles in this context. This

illustrated to us that minimal consideration has been given to this topic previously. As such, we recognised that there was a need to incorporate a range of literature within this review including grey literature.

Other review methods, such as systematic reviews rely on trial data and effect sizes. These factors are not appropriate to the question currently under study. Therefore, we aimed to look for discursive accounts of the issues involved. A realist synthesis review is appropriate for this task because its methodology provides an opportunity to identify a number of avenues that might be explored, discussed, and explained⁷³. This methodology also has the ability to provide a rationale for synthesizing complex ideas swiftly, and to build explanations as to what may work for whom, under what circumstances, and why⁷². This review may also be useful for others, as a realist review is suggested to be more likely to contribute to policy makers' and practitioners' 'sense-making'^{72, 74}.

Search Strategy

This literature search took place between November the 2nd and December 23rd of 2015. An iterative search methodology following the Realist And MEta-narrative Evidence Syntheses: Evolving Standards (RAMESES) publication standards for realist syntheses was used⁷³. We began by conducting a background review of the

literature, then a progressive search clarified the scope of the review. Subsequently a search for evidence was conducted, as prescribed by realist review methodology⁷².

First, Academic Search Complete, Cumulative Index of Nursing and Allied Health Literature (CINAHL) with Full Text, MEDLINE and PsycINFO were searched concurrently for key papers of relevance. Subject headings were used where possible, as were related free text terms and proximity operators.

Search terms were chosen following a brief and scoping review of the literature in relation to midwives in work-related psychological distress, ethical considerations and online interventions. The main search terms were broad and were combined with the AND Boolean operator or combined with the OR Boolean operator as follows:

internet support groups 'AND' ethical issues 'AND' ethics, online interventions 'OR' therapy 'AND' anonymity 'AND' ethics, online communities 'OR' social networks 'AND' peer support interventions 'AND' conduct, virtual communities 'AND' anonymity on the internet 'AND' confidentiality, online intervention 'AND' stigma 'AND' help seeking behaviour, midwives 'OR' midwife 'OR' midwifery 'AND' amnesty. Primary search terms were restricted to the abstract search field, secondary search terms remained open in scope.

All papers published in English between 1999 and 2015, and all article types were considered for inclusion. 66 papers were retrieved overall, 6 exact duplicates were then removed, leaving 60 papers in total for review. Abstracts, titles and full texts were then scrutinised for their suitability for inclusion and relevance to the review's key themes of confidentiality, anonymity and amnesty.

Inclusion and exclusion criteria

Studies must shed light upon any ethical aspects which relate to either confidentiality, anonymity or amnesty within online interventions. This includes studies which relate to broadly comparable vulnerable populations. Studies must have been published between 1999 and 2015 in order to reflect a contemporary view of online ethics and midwifery practice. All types of literature and studies will be considered for inclusion due to an anticipated low yield of relevant papers.

Selection and appraisal of documents

The 60 papers retrieved through this search strategy were initially examined by the primary researcher. Paper titles and abstracts were screened for any relevance to the key themes selected for this review. Articles that clearly did not meet the inclusion criteria were excluded, and any ambiguous papers were read more comprehensively through an iterative process of review. The remaining papers of relevance were then

read in their entirety as the inclusion criteria's were re-applied. Final paper selections were then made and agreed with the research team.

The relevance of each paper was judged by its ability to elucidate upon any aspect of either confidentiality, anonymity or amnesty in relation to online interventions designed to support healthcare professionals in distress. The rigor of each paper was judged from a 'fitness for purpose' perspective in line with the realist synthesis approach^{73, 75}. Nine papers were chosen for inclusion. Others were omitted either due to their irrelevance to the subject matter, or due to their focus being upon adolescents or elite athletes, rather than comparable groups.

Data extraction, analysis and synthesis

The research team assimilated information by annotation rather than 'extracting data', following realist synthesis methodology⁷⁵. Papers were examined for ideas relating to ethical dimensions of online interventions to support midwives in work-related psychological distress. The synthesis of findings was then related back to the underlying research questions of the review.

This review takes a narrative approach. The findings of the review are presented as a synthesis of evidence. This synthesis explores the ethical considerations in relation to online interventions to support midwives in work-related psychological distress and the key themes of this review - confidentiality, anonymity and amnesty.

Results

Nine papers were selected following the approach outlined above. Papers included were discursive in nature^{47, 76-78}, mixed method cohort studies⁷⁹ content analyses^{80, 81}, one case study⁸² and theoretical guidance papers^{55, 83}. None of the papers retrieved related to midwives or midwifery, therefore the research team extracted themes of salience in relation to those groups most similar to midwifery populations, including vulnerable groups comparable to midwives in psychological distress. Figure 2 outlines the process for paper selection. A summary of the papers selected for this realist synthesis review can be found in Table 1.

Figure 2. Process of paper selection

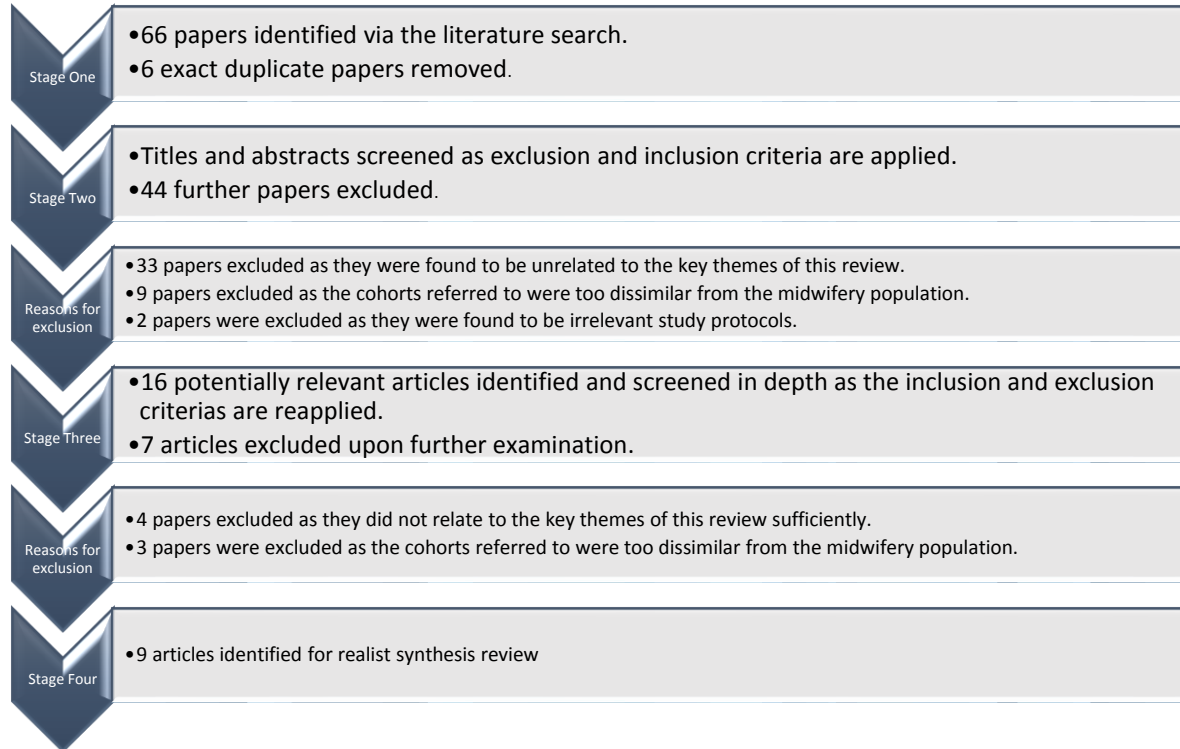


Table 1: Articles selected for inclusion

Paper	Design	Sample	Aim, Design, analysis	Relevance and rigor	Themes extracted
⁷⁶	Discursive paper	N/A	To explore and identify threats to privacy and confidentiality in this use of the Internet.	<ul style="list-style-type: none"> - Very relevant to the application of other proposed interventions. - Issues highlighted are not academically tested. 	<ul style="list-style-type: none"> - The implementation of registration. - Moderation of online chat rooms. - Unethical community site practices. - Balances between freedom of speech and accountability.
⁷⁷	Discursive paper	N/A	Contribute to the understanding of ethical decision-making processes within electronic communities.	<ul style="list-style-type: none"> -Relevant to the development of online services. -Relevant in understanding ethical decision making in the development of online communities and research. 	<ul style="list-style-type: none"> -Exploring ethical decision making in the context of online communities. -synchronous versus asynchronous communication.
⁴⁷	Discursive paper	N/A	To systematically review the ethical and legal challenges as well as benefits of online counselling.	<ul style="list-style-type: none"> -Relevant to the exploration of anonymity online. -Relevant to the exploration of risk during mental health crises. 	<ul style="list-style-type: none"> - Legal Considerations and Potential Ethical Tensions. -Benefits of online support. - Accessibility, anonymity, technology, asynchronous communication, online security, informed consent, and the challenges of licensure, liability, and regulation.
⁷⁸	Discursive paper	N/A	<ul style="list-style-type: none"> -To report initial strategies and guidelines for ethical behaviour in Internet-based groups. - To explore ethical liabilities and responsibilities for the professional participant. 	<ul style="list-style-type: none"> - Very relevant in the development of safeguarding strategies to mitigate risk. 	<ul style="list-style-type: none"> - Online confessions. -Risks associated with peer communication online. -Suggestions for professional psychologists using support groups.

79	Cohort Study	154 participants (116 females; 38 males)	To evaluate the effectivity of Reach Out Central (ROC), an online gaming program designed to support the mental health of young people.	<ul style="list-style-type: none"> -Limitation of open trial methodology -Small number of male participants -Intervention designed for younger audience -Relevance to subject matter lies in the discussion of the preferences of young people when using an online intervention designed to support them. 	<ul style="list-style-type: none"> -Online communication preferences. -The value of Internet interventions as a tool. -Ethical considerations in working with vulnerable people online.
80	Content analysis	Internet Cancer Support Groups (ICSGs)	To view ICSGs in terms of how they provide a research setting and/or data-collection method that meet 5 evaluation criteria.	<ul style="list-style-type: none"> -Relevant in that the paper highlights potential ethical issues within other support groups. 	<ul style="list-style-type: none"> - Confidentiality and anonymity issues. -Ethical use of Disclaimers. -Ethical use of Privacy Policies.
81	Content analysis	The primary data set included 16 lists hosted on seven different Internet sites. (message boards)	To examine how, on Internet HIV/AIDS support groups, participants discuss the ethics of disclosing HIV seropositivity to partners	<ul style="list-style-type: none"> -Posters cannot be matched to their online personae -Relevance to subject matter lies in the discussion of sensitive disclosures online. 	<ul style="list-style-type: none"> -Problems associated with disclosure and help seeking. -Privacy issues. -Lying online.
82	Case study	A single discussion 'thread' in which group pressure persuades a fellow-participant to modify their behaviour.	- To demonstrate the impact of group discussions, and their potential as agents of change.	<ul style="list-style-type: none"> - Relevant in the exploration of potential risks and opportunities for online discussion. - Relevant in the exploration of disclosure 	<ul style="list-style-type: none"> - 'Flaming' behaviour online. -Influential behaviours of online groups.
83	Lessons Learnt – Discursive paper	N/A	To present solutions and guidance for researchers in the development of online interventions.	<ul style="list-style-type: none"> - Relevance to subject matter lies in the discussion of ethical issues 	<ul style="list-style-type: none"> -Anonymity. -Appropriate Moderation techniques. -Lessons and guidance. -Prioritising anonymity.

Synthesis of findings

To synthesize the data, any inferences or references to the key ethical themes of this review - confidentiality, anonymity and amnesty were annotated through an iterative process of re-examination. As a number of papers retrieved did not describe their methodologies in great detail, data extraction remained limited to principle findings and theoretical concepts. This synthesis was guided by the realist synthesis methodology where 'contradictory' evidence is used to generate insights about the influence of context⁷².

Confidentiality

Damster and Williams indicate that health professionals should be suspicious of any attempts to erode confidentiality, whether in the medical or other sectors, as it is worthy of protection, not just for the good of individuals, but also for the good of society as a whole⁷⁶. This discursive paper goes on to describe the medical ethics model, where a health professional will always strive to respect the confidentiality of information entrusted to [them] by the patient. In keeping with this model, they also state that it is the patient who has the right to decide who to share their information with, rather than the health care professional. Additionally, without the provision of confidentiality, Humphreys and colleagues assert that any ethical responsibilities associated with a psychotherapeutic relationship cannot be invoked⁷⁸.

Hair and Clark explore the ethical challenges of preserving the confidentiality and anonymity of those engaging within virtual communities⁷⁷. They purport that a relatively rapid and synchronous form of communication such as one to one instant messaging, may give a user an increased sense of confidentiality. Harris and Birnbaum systematically review the ethical and legal challenges of delivering therapies to vulnerable people online⁴⁷. Conversely, they highlight that asynchronous communication may enable deeper reflection, increasing self-awareness and self-expression. In any case, Humphreys and colleagues suggest that all online users may at some point become confused as to which contributions may be confidential, group based, open or closed in nature⁷⁸.

Virtual communities value the free speech they uphold through the provision of confidentiality highly⁷⁶. Damster and Williams go on to report that however 'outrageous' this free speech may become, in the interest of maintaining a supportive online community, the moderation of discussions is seen by many as the preferred management option⁷⁶. Hair and Clark maintain that users who choose to forfeit their own confidentiality must be made aware of any potential repercussions⁷⁷.

As Shandley and colleagues explore the efficacy of a youth-focused online intervention, they highlight that some young people may not access effective help because they fear that their confidentiality might be broken⁷⁹. They go on to share

how an online intervention can effectively promote help seeking and support the health and wellbeing of younger people, especially when gamification techniques are employed. Within their online intervention, 'Reach Out Central', participants are encouraged to interact as they adopt the persona of a pre-determined character or avatar rather than exposing any real world details about themselves. Each user or 'player' is assigned a coach to act as a guide and mentor as the user navigates their way through a series of interactions designed to remedy and explore episodes of psychological distress. Their results indicate that as young people engage with an online intervention in this way, they may experience a reduction in the use of maladaptive coping behaviours, increased resilience and adopt healthier coping behaviours⁷⁹.

In learning lessons from a self-harm discussion forum study 'Sharp Talk', Sharkey and colleagues emphasize that vulnerable users of online interventions may desire confidentiality and anonymity as a condition of use⁸³. Within their protocols, they ensured that anything that may compromise a member's anonymity or confidentiality would be prohibited and removed accordingly. They also encouraged users to be known only by a chosen unique username or 'pseudonym' to ensure that confidentiality was maintained⁸³. In order to mitigate the risk of exposure in internet-based groups Humphreys and colleagues also propose that professionals who access

support groups in the role of a peer, should do so with the use of a pseudonym⁷⁸. Yet when users of online interventions adopt pseudonyms or alternate identities as they converse within virtual communities, Damster and Williams assert that they may be unable to entirely hide behind either anonymity or confidentiality⁷⁶. This is because over time, users come to know one another and recognise and identify the behavioral patterns in those individuals who interact on a regular basis.

Through their feminist analysis of Internet Cancer Support Groups, Im and colleagues express concern that some online interventions fail to ensure and safeguard the confidentiality and anonymity of their members as they interact⁸⁰. Throughout their research, they remained keen not to impose upon the physical and psychological privacy of the support group members. In order to enforce confidentiality, Damster and Williams highlight the need to consider the implementation of disclaimers, privacy statements and guidance when looking to facilitate online interventions⁷⁶. It was identified by Im and colleagues that many websites use the terms “site disclaimer” or “privacy” to describe user information on “confidentiality” issues⁸⁰. However, very few of these statements were aimed at preserving the confidentiality and anonymity of members. Instead, these statements tended to state that the online facilities were not to replace professional treatment and were to be used only for educational purposes.

Throughout this feminist analysis of online support groups, only one site out of 546 was found to warn its users not to post anything of a confidential nature⁸⁰.

Fundamentally, when confidentiality is assured by an online intervention there are some immediate technical matters to consider. Harris and Birnbaum highlight the need to regularly update online security software, as the provision of online support remains an ever evolving field⁴⁷. They also describe how breaches in online security may occur, as unauthorized individuals intercept wireless signals and compromise what is thought to be confidential information. Hair and Clark add that with the existence of search engines, archiving software and the retrieval of verbatim quotes, seemingly private and deleted posts may be recorded technically, without user knowledge⁷⁷.

The provision of online confidentiality also has practical implications where the collection and tracking of data would usually occur through the use of website 'cookies' and mailing lists. In this regard, Damster and Williams refer to the difficulties in obtaining consent for obtaining and sharing personal data without invading the provision of confidentiality⁷⁶. In order to address some of these ethical considerations, Sharkey, Humphreys and colleagues suggested that their participants created new email accounts upon joining the online community, as well as unique pseudonyms⁷⁸,

83 .

Anonymity

Damster and Williams report that the internet has a long standing legacy and reputation for facilitating anonymity⁷⁶. Sharkey and colleagues concur with this statement, and report how young people who self-harm expect anonymity and enjoy its protective nature⁸³. Harris and Birnbaum also highlight the safety that anonymity can offer those seeking support, as it more readily allows for open and disinhibited disclosures⁴⁷. In this case they suppose that an online intervention may be the safest place to discuss the most challenging and emotional issues. Yet they also report that anonymity can encourage roleplay and misrepresentation. Damster and Williams agree by suggesting that anonymous communication can encourage verbal violence⁷⁶. Nevertheless, during a self-harm discussion forum study, Sharkey and colleagues stressed that without anonymity, online users of interventions can be reluctant to engage⁸³. As a result, this particular study rejected any alternatives to providing anonymity as discouraging to potential participants.

Reir explores the ethical dynamics of an HIV/AIDS online support group, and the moral suasions of its members through two content analyses^{81, 82}. Anonymity is of great importance within this online support group, as group members often wanted to conceal the nature of their illness and, in some instances, their homosexuality. Face-to-face disclosures within this population are sometimes avoided, as disclosing their

HIV status is often tantamount to admitting stigmatised behaviours or lifestyle choices. Within this online group, Rier describes how the group displayed an authentic mix of opinion, yet the most common position regarding disclosure ethics is full disclosure⁸². As members of the group admit to disclosure avoidance, other members of the community make frequent and persuasive calls for disclosure. Ultimately, the provision of anonymity within this group enabled honest moral debates, open disclosures and personal reflections within the group⁸².

Reir goes on to explore how these frequent calls for disclosure within the same HIV/AIDS online support group may translate into moral suasion within its community via a second content analysis of online group discussion⁸¹. As in the example given, one member openly disclosed how they had been engaging frequently in unprotected sex without disclosing their HIV status. Following a series of comments which debated this as a moral issue, the member reflected upon their behaviour and decided to then disclose their acts and name those now at risk anonymously via their physician. The paper then goes on to highlight other instances where a group member is initially unsure about what to do but is willing to make anonymous disclosures online in order to seek advice. Some other individual members under scrutiny are described as initially offering resistance to the dominant discourse, but then eventually become prepared

to declare real world behaviour change either anonymously or otherwise, having been swayed by group discussion⁸¹.

Online anonymity is important for those who wish to conceal any individual circumstances or behaviours they consider to be shameful⁸². Humphreys and colleagues recognise that health care professionals sometimes participate in Internet-based groups anonymously to address their own psychological and behavioural problems⁷⁸. Humphreys and colleagues recommend that the health care professional should maintain clear and consistent role definition as they switch between the roles of both therapist and casual member of the online community⁷⁸. Rier suggests that online participants can regard positive and moral persuasion as part of their ethical responsibilities, duty and function⁸¹. Conversely, Sharkey and colleagues purport that those who are vulnerable online, may be at risk of coercion rather than positive influence⁸³. Hair and Clark add that should names be associated with 'public' posts online, unsolicited contact and harassment may occur outside of the virtual community space⁷⁷. The use of pseudonyms is suggested in order to uphold ethical practice in this case.

When users refuse to disclose misdeeds in a real world context, flaming behaviours can also occur in protest to any perceived injustice online⁸². In seeking a balance between anonymity and accountability in online discourse, Damster and Williams⁷⁶

suggest a compromise of requiring users to initially register their identity with a moderator as they join the virtual community. Moderators may be health professionals or peer group members. The user may then choose to use their real name, or a pseudonym for any interactions they then make. In this case, anonymity remains a choice, and only the moderator can delete, report and remove inappropriate content or users. Additionally, Hair and Clark maintain that it must be decided whether the online community offers anonymity to all members, just primary posters, certain individuals or only those who respond to open posts⁷⁷.

Within the findings of an online forum study, Sharkey and colleagues reported that moderators were needed to ensure that anonymous online safety can be maintained, and a strong consensus that moderators ought to get involved in providing support⁸³. Contrary to this finding, Humphreys and colleagues recommend that health professionals should not imply a therapeutic relationship online, when the ethical responsibilities in doing so cannot be met, as may be the case where users remain anonymous online⁷⁸. In order to support online moderators in their task, Sharkey and colleagues suggest that online interventions issue forum rules and employ private messaging facilities, links to other online support, a discussion room for forum moderators and a 'report' button for users⁸³.

It was suggested by Humphreys and colleagues that, should an online intervention allow individuals to anonymously seek support, a potentially important avenue of assistance may be opened to professionals who need help but fear being identified⁷⁸. Yet they also identify that concerns may arise where users remain anonymous in a time of crisis, as there lies a consequent inability to intervene. Nevertheless, some online interventions such as 'Sharp Talk', explored by Sharkey and colleagues have rejected the alternatives to total anonymity, as they have placed more value upon encouraged participation and the protective nature of anonymity in pursuit of a utilitarian approach to support⁸³. Yet should the focus of conversation turn toward suicidal thoughts, or self-harm, Sharkey and colleagues also highlight that this may increase the vulnerability of users⁸³.

Harris and Birnbaum⁴⁷ assert that online interventions provide a natural and therapeutic sense of anonymity for users, and explore how this conflicts with the need to verify a user's identity. They go on to state that it is difficult, if not impossible, to acquire accurate and valid information on a user's identity, and question whether this acquisition may be of benefit to the user in any event. In the context of extreme risk and serious clinical issues, they also recognise the ethical obligations and duties of care in relation to the need to report those at risk for appropriate intervention⁴⁷. In these cases, they propose that face-to-face services may be more swift in providing

immediate emergency care. Additionally, we are reminded that some methods of online support may not be able to express timely, and much needed, empathy to those in severe distress. In order to improve upon the lack of demonstrable empathy to those in distress online, the use of emoticons is suggested⁴⁷.

Communication on the Internet can make issues of privacy, confidentiality, and personal relationships confusing⁷⁸. When exploring the therapeutic properties of an online community, Damster and Williams⁷⁶ highlight the conflicts between promoting the principles of anonymity and confidentiality, whilst also encouraging openness and freedom and ensuring the safety of participants. Harris and Birnbaum⁴⁷ highlight the legal and ethical dilemmas where face-to-face contact remains absent and the provision of anonymity is upheld. They draw attention towards the inability to assert clinical judgement, gain informed consent, report accurate concerns in a timely manner, and establish the mental or physical capacity of the user online.

Nevertheless, Harris and Birnbaum insist that online interventions must always conform to duty-to-report or duty-to-protect statutes⁴⁷. However, Humphreys and colleagues purport that because online users may come from a broad geographical area, it would be unlikely that any ethical responsibilities in the event of an emergency would be able to be executed completely in any case⁷⁸. In addition to this, Harris and Birnbaum assert that any statutes may vary from place to place, and that the online

user may reside in a separate jurisdiction to that of the online community. In order to mitigate risk, Harris and Birnbaum endorse the creation of emergency contact lists and details of supportive services within the user's community to enable swift self-referral to localised face-to-face support during emergencies ⁴⁷.

Amnesty

Hair and Clark describe both confidentiality and anonymity as the 'starting point' for defining themes to be interpreted as 'ethical canons' or 'codes' ⁷⁷. Yet with total confidentiality and anonymity in place, their corollary, amnesty becomes inevitable. Within the retrieved literature there were no explicit references to amnesties within online interventions. However, the concept of amnesty became implicit within some of the papers, as some described the importance of total anonymity and/or confidentiality ^{47, 76, 78, 80, 83}.

In the online discussion forums of an HIV/AIDS support group, one episode of amnesty is highlighted where an online user modifies their undesirable offline behaviour as a result of anonymous online disclosure ⁸¹. This was done with the understanding that there would be no negative consequences in doing so. In this case, the user experienced the support of the online community, the development of insight and a real world behaviour change.

To illustrate how online interventions may present extreme ethical dilemmas, Humphreys and colleagues⁷⁸ describe a case study in which the father of a five-year-old girl confesses to her murder within an online support group. Within this scenario, some members of the community reported the crime to the authorities, and yet the health care professionals involved did not. In effect, the health care professionals respected the confidentiality of the disclosure and afforded the perpetrator amnesty. This ignited debate as to what the purpose, roles and responsibilities of an online support group may be, although no conclusions are presented in this case.

Some users within online communities have been seen to assume the role of a moral agent, and attempt to influence fellow users to exercise 'responsibility' by disclosing and acting upon their compromising predicaments to the appropriate authorities⁸². In this sense, users of an online intervention look to guide both the online and offline behaviours of other users in order to achieve the most desirable outcome. Rier highlights these episodes during online egalitarian moral debates, where an inherent amnesty enabled those in distress to be persuaded to 'do the right thing' whilst maintaining a private identity. Reir concludes by suggesting that such online communities are a mechanism for engaging in support and moral suasion, where users both seek help and to enforce what the community defines as 'ethical conduct' within a real world scenario⁸².

Discussion

Summary of Findings

This realist review has identified nine papers that explore key themes of confidentiality, anonymity and amnesty in relation to online interventions designed to provide support. Findings suggest that confidentiality, anonymity, and their corollary, amnesty, are important in the optimization of open disclosure, trust, real world behaviour change, engagement and help seeking online. These findings can also be mapped against the pathway to disclosures model, where anonymous participation online can lead to open disclosures and help seeking offline²³. However, ethical dilemmas remain where there is a legal duty to report, disclose and act upon concerns which may put both the online user and the public at risk. Ethical considerations were also highlighted, as obligations to ensure that appropriate and real world care is given to the online user may not be met should both anonymity and confidentiality be guaranteed in full.

Through this review, we find that there are a range of ethical considerations to consider in the development of online interventions to support midwives. In order to develop insights into the influence of context, these findings must be mapped against the ethical and legal considerations pertaining to midwives in distress.

Strengths and limitations

Due to this being a theory driven approach, this realist methodology enabled the researchers to make use of any 'grey literature' rather than relying solely upon formal research in the exploration of complex ethical considerations. This literature has the ability to add to the synthesis, often providing contextual information which would otherwise be omitted.

The realist synthesis review methodology employs iterative searching techniques in favour of systematic searches. We recognise this as a limitation because such searches cannot be replicated. However, because searching is initially broad in scope and is refined through progressive focusing, this review was also able to respond flexibly to new findings as they emerged⁷².

The search terms, selection procedures and processes of analysis prescribed by the realist review methodology also favour a flexible and unsystematic approach. Although this enables a direct approach to synthesising the literature, we also recognise that significant papers may have avoided retrieval.

Unfortunately, this review did not retrieve any papers that directly addressed the subject of midwives using online interventions, therefore it has been necessary to extrapolate from other groups to midwives.

Legal and ethical considerations associated with online interventions

Developers of online interventions designed to support those in distress can follow the e-Health Code of Ethics, which ensures that people worldwide can confidently and with full understanding of known risks realise the potential of the Internet in managing their own health and the health of those in their care ⁸⁴. However, this guidance does not cover the development of unique online sources for the provision of support to health care professionals ⁸⁵. Midwives in the United Kingdom must maintain public confidence in the nursing professions and uphold standards and professional behaviour ⁸⁶. These midwives have a duty to escalate any professional concerns pertaining to both themselves and their colleagues, yet if a concern arises within an online platform, a midwife may be left unable to identify the perpetrator or escalate concerns.

Midwives in the United Kingdom are duty bound to ensure that any support that they give to colleagues must not compromise or be at the expense of patient or public safety ⁸⁶. Midwives in distress may disclose episodes of impairment, medical error or display unprofessional behaviour within an online intervention designed to support them. These episodes of impairment may put patients at immediate risk of harm, and may ordinarily prompt a referral to the regulators and further investigation for the immediate protection of the public. Yet the issues highlighted here may prompt the

question whether a midwife in distress has the same rights to confidentiality as the 'typical' online user in distress.

Midwives who seek out an online platform for support may be psychologically vulnerable. Elsewhere, it has also been argued that those providing online therapies should know the location and identity of those users at risk of suicide in the event of a psychological emergency⁸⁷. This may not be possible for an online intervention offering total anonymity to its users. Despite this, it has also been argued that the benefits of providing online therapies far outweigh these risks⁸⁸. Moreover, the challenge to locate a suicidal online user has been found to be no more difficult than locating an 'at risk' individual engaging with telephone therapy⁸⁹. As such, in signposting the anonymous midwives who engage with an online platform towards outside sources of support, an online intervention may offer a portal for knowledge exchange and ongoing care in the absence of immediate professional support.

Although the literature rarely highlights the legal considerations of providing support via online interventions, we recognise that midwives currently have a legal obligation and duty of care to maintain confidentiality and report concerns in line with their professional codes of conduct for the protection of the public. However, in the context of online interventions, the legal regulations that apply to online clinician-patient interaction may mean that the dissemination of concerns to any third party becomes

prohibited⁹⁰. Additionally, as internet access becomes global, users and facilitators will need to consider their legal jurisdiction and authority to practice in areas beyond both their professional or geographical territory.

In relying on the process of moral peer review and culture setting, online interventions may sacrifice immediate public protection in pursuit of wider and more sustainable advances in public safety and protection. Additionally, it is of note that anonymity may become less appropriate for serious cases, where there may be an ethical obligation of duty to report a user for further intervention. In these cases, we are reminded of the requirement to follow duty to report and protect statutes. These questions, related to jurisdictional challenges may require further dialogue with professional associations and regulatory bodies⁴⁷.

Legal and ethical issues endure where there remains an inability to assert clinical judgement, gain informed consent and establish mental capacity whilst users remain unidentifiable online⁴⁷. In order to address legal and ethical considerations, some online interventions have used disclaimers and privacy statements as a means of either protecting the intervention against its own accountabilities or to instruct its users upon how they may or may not expect their privacy to be upheld⁸⁰. Legal obligations vary geographically and nationally, from one country to the next. In England for example, the law is the same whether you work in the south of England or

the north of England, yet in many states of America, there may be conflicting legal obligations in force. In this context, a global online intervention for midwives could establish its own codes of conduct and level of accountability, guided by the level of accountability set by regulators around the world.

Facilitators of an online intervention designed to support midwives could be specialist health care professionals or individual midwives proficient in restorative supervision and peer support. However, these professionals would still be legally obligated to report impaired midwives to their regulatory body. As such, strong privacy statements and usage policy agreements may be required.

Confidentiality, anonymity and amnesty

Online interventions which promote the principles of both anonymity and confidentiality, also permit their corollary, amnesty. If online interventions were adapted to support midwives in psychological distress, there lies the risk of non-disclosure of poor clinical practice, as midwives may look to seek anonymous support in order to avoid accountability. Without being able to identify the users of an online intervention, no real world interventions, referrals or accountability can reliably be pursued. Therefore, it may be that society is only willing to permit an amnesty in the cases of relatively trivial matters, rather than in severe cases. However, any attempt to

measure the degrees of severity may result in some episodes not being perceived as objectively severe in nature.

For an online intervention to support midwives, it will be important to decide which control measures should be employed to discourage undesirable behaviours such as those which may undermine public confidence in the profession, bullying or 'flaming'. The online inhibition effect in these cases can be toxic⁴⁵. Other online communities hold a 'real name' policy in order to hold users to account, however these have previously led to nontrivial, ongoing disputes, which may inhibit the development of productive online communities⁹¹. In this case, midwives who are reluctant to speak openly may not engage with an intervention where they may be further held to account.

Moderators of online support groups have noted that trust in confidentiality and anonymity is an essential part of maintaining a successful health-related online support group⁹²⁻⁹⁴. The provision of anonymity and confidentiality may also appeal to those who would ordinarily feel unable to disclose a sensitive issue. As confidentiality and anonymity have been cited as two of the most important features of an online peer support forum, these two principles may be key features in online interventions to support midwives in work-related psychological distress⁹⁵. In order to mitigate risk,

users may require ethical guidance in relation to the maintenance of confidentiality in the context of any work-related discussions.

When a user is grappling with a moral issue, they may be more likely to disclose in an online environment that allows for anonymity for the purpose of help seeking. In an online environment, where morality can be debated, users can also be persuaded by the community to modify their behaviours and eventually make real world disclosures.

In this context, an online intervention may have the ability to change any reticent behaviour seen in some midwives, which would in turn aid help seeking and increase public protection. As such, the serious risks involved with the provision of amnesty online may be mitigated somewhat by the possibility of encouraging a larger number of midwives to seek help, modify any risky behaviours and move towards a real world disclosure and self-referral in line with the pathways to disclosure model ²³.

Ethical decision making

Ethicists are largely concerned with doing right, following the principles of justice, beneficence through identifying risk; and preventing harm through protecting privacy, being honest, obtaining consent and respecting a person's inherent value as a human being⁷⁷. Ethical decision making within the creation of electronic communities can be derived from two main philosophical approaches. These have been described by Hair

and Clark as deontology, which is focussed upon using codes of conduct in decision making, and teleontology, which advocates achieving the greatest good for the greatest number of people⁷⁷. As such, hosts of online communities must balance the effects upon the entire community with the individual risks that may arise⁷⁷.

It has been suggested that individuals progress through three different levels as they make moral judgements: (a) the pre-conventional level, when moral decisions are based on rewards and punishments and obedience to authority; (b) the conventional level, when individuals recognize societal laws and rules and are concerned regarding collective welfare and (c) the post-conventional level, when moral decisions are based on internalised moral values and abstract principles⁹⁶. At the peak stage of moral decision development, a concern for wider social justice and human rights becomes evident⁹⁶.

Ethical dilemmas such as those presented within this paper are often complex and ambiguous. Many ethical decision-making frameworks exist to assist nursing populations in making ethical choices⁹⁷. These often focus upon the alleviation of suffering, responsibilities to the public and professional accountability, where the nurse or midwife's primary commitment is to the patient. Midwives who use an online intervention could be analogous to patient users if the work of Damster and Williams is applied to the present issue⁷⁶. In any case, within these ethical frameworks there is

also a focus on personal health and wellbeing, collegial support, competency maintenance and professional growth, as it is widely recognised that both patients and the public are safest whilst nurses and midwives remain in optimal mental and physical health.

Generally, ethical decision-making within the nursing professions leans toward a favourable risk-benefit ratio^{97, 98}. Teleological approaches focus upon the final effects of human action⁹⁹. Conversely, the wider philosophical approach of utilitarianism is founded upon the premise that an action is ethical if the outcomes of the action lead to the greatest benefits for society at large with the fewest possible negative consequences¹⁰⁰. In this context, society may gain the greatest benefit from supporting the midwifery workforce to remain psychologically safe. Yet if midwives are to be supported via an online intervention, society may also have to accept that midwives need confidentiality, anonymity and amnesty to do so.

Conclusion and recommendations

Many practitioner health programmes exist to support physicians and afford those in distress identity privacy for the purpose of help seeking and recovery^{66, 101, 102}.

Midwives, along with other health care professionals, may require specialist support amongst their own kind, away from other health service users^{66, 103}. This specialist

support may need to embody the principles of confidentiality, anonymity and a resulting amnesty. This realist synthesis review has considered these principles in the context of online interventions to support midwives in work-related psychological distress.

The principles of confidentiality, anonymity and amnesty online may appeal to midwives in work-related psychological distress who feel stigmatised, are pressured for time, fear retribution and/or frequently access the internet^{12, 104, 105}. However, in deciding whether this provision may be ethically justifiable, online intervention providers must weigh up the risk/benefit ratio to both patients, midwives and the wider general public¹⁰⁶. We have discussed and characterised the most morally justifiable and ethical decision from a utilitarian perspective as, the greatest good for the greatest number¹⁰⁷.

Online interventions may offer an opportunity to improve the help seeking behaviours, rates of disclosure, and provision of therapeutic support of midwifery populations when they allow for confidentiality, anonymity and amnesty^{59, 108-110}. The consequences of failing to adequately support midwives in work-related psychological distress may mean that our maternity services experience a less compassionate workforce, reduced productivity, reduced standards of care and increased rates of error^{7, 12, 111-113}. we argue that the morally justifiable decision may be to provide an

opportunity for midwives to privately manage their emotional fears, improve their emotional well-being, optimism, mental health literacy and openly engage with emotional support via an online intervention, as this may outweigh any potentially damaging processes¹¹⁴. Additionally, midwives are entitled to a psychologically safe professional journey as they work in equal partnership with childbearing women.

International codes of conduct promote that midwives should 'support and sustain each other in their professional roles, and actively nurture their own and others' sense of self-worth'¹¹⁵. The Nursing and Midwifery Council also recognise the importance of the need for their registrants to 'be supportive of colleagues who are encountering health or performance problems'⁸⁶. Yet the caveat associated with this support is that it must never compromise or be at the expense of patient or public safety. We argue that in effectively supporting midwives anonymously online, we may be able to protect both patients and the public via more sustainable means. As such, the benefits of allowing anonymous free speech for the purpose of supporting midwives in distress may outweigh the need for the immediate identification and reporting of episodes of impairment for the purpose of instant accountability.

The risks associated with providing online interventions to support midwives in psychological distress may be somewhat mitigated by the ethos of the support group,

which may preclude confrontations' over risky and/or immoral behaviour¹¹⁶. Users may also embrace a collective philosophy that promotes adages such as, 'honesty is the best policy' and 'do unto others'⁸². Therefore, in influencing positive group behaviours, midwives may exercise their own responsibilities to disclose issues to regulatory bodies where appropriate with the support of others in line with the pathways to disclosure model²³. We consider this to be the preferred outcome for online support interventions, where midwives receive support and yet moral accountability is respected.

Additionally, we consider that in line with other populations accessing online interventions for support and practical advice, midwives may not necessarily reject their existing moral frameworks at the same time⁸². Therefore, the morally justifiable and ethical decision, promoting the greatest good for the greatest number may be to permit anonymity, confidentiality and amnesty in pursuit of healthier midwives for safer maternity services overall.

This paper has explored the ethical, legal and moral issues associated with online interventions to support midwives in work-related psychological distress. Although we argue that the principles of confidentiality, anonymity and amnesty should be upheld in the pursuit of the greatest benefit for the greatest number of people, we also call for a further dialogue in relation to this matter in pursuit of robust ethical stability.

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