The potential of peer support to extend the reach of digital health

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Review

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Abstract

Background

Peer support groups have proliferated since the 1960s, providing safe, informal environments where peers share experiences and information. A common model is for those who have progressed further along a care pathway or in dealing with a particular medical condition or psycho-social problem, to encourage those at an earlier stage of recovery, either within a group or one to one. Online support now co-exists with face to face models, providing an additional resource for those with digital access and competence.

The paradigm of health care has moved towards the incorporation of health promotion, patient empowerment, self-management and community engagement. This has led to a broadening of activities and roles within health systems. The role of peer supporter has been incorporated in a range of behaviour change interventions promoting engagement and adherence. Increasingly these are delivered online. While this aims to extend their reach, it leaves those without digital access at a disadvantage in terms of the ability to make use of online health resources.

Main text

Though peer support has been used to maintain adherence to online programmes, its potential in assisting with access and thus widening participation has remained unknown.

We successfully piloted the use of a paid peer supporter to help men without experience of IT to take part in an online intervention involving a prostate specific holistic needs assessment. Lessons were learnt in relation to training needs and support for the supporter and around data security, confidentiality and safeguarding.

Alternative models of voluntary peer support maybe appropriate, particularly in the implementation phase of an intervention and require exploration. A framework for best practice in relation to Digital Health interventions is needed to guide future development of the role.

Conclusion

Health services are predicted to increasingly rely on digital technologies over the next decade. Research into the impact of these technologies must include participants’ representative of the entire population. Efforts are needed to include those who are currently underrepresented in research such as the elderly and other disadvantaged groups. Innovative designs involving peer support in a research project may be valuable in addressing the current barriers to participation.

Background

The development of peer support

The origin of peer support has been traced back to a psychiatric hospital in late 18th century France where the hospital governor recognised the benefit of employing former patients as staff. Little documentation of further development appears until the mid-1960s, when the support group, much as it is known today is first described as a therapeutic resource.

Since the 1960s, condition or problem-based support groups have proliferated and provide safe, informal environments where peers can share experiences and information. Conceptual as well as applied aspects of the role have attracted academic interest since the 1970s. A recent exploration of peer support broadly defines its purpose "to encompass the provision of emotional and informational assistance by a created social network member who possesses experiential knowledge of a specific behaviour or stressor and similar characteristics as the target population."

Support groups or associations are established in response to a perceived need by individuals experiencing a particular issue or are initiated by partners, friends or clinicians. A common model for the peer support group is for those who have progressed further, in terms of a care pathway or in dealing with a particular medical condition or psycho-social problem such as gambling or...
alcohol addiction, to encourage those at an earlier stage of recovery. This interaction may take place either within a group setting or on a one to one basis. Online support groups originating in the 1980s now co-exist with face to face models, so providing a complementary or alternative resource for those with digital access and competence.  

The paradigm of health care has shifted from a paternalistic medical model of treatment to one incorporating health promotion, patient empowerment, self-management and community engagement. At the same time there has been a broadening of activities and expansion of roles within established health systems, including the emergence of the lay (i.e. non-professional) paid or unpaid health care worker. Peer support, traditionally outside formalised health care provision, has been incorporated within and defined as a sub group within this widening workforce.

Peer support has been introduced into the design of a range of behaviour change interventions. In the main these involve some form of lifestyle reorientation, with the goal of improving health. The peer supporter, with similar health-related experience, provides the opportunity for vicarious learning and modelling and is able to encourage and motivate the participant by helping to maintain engagement with the programme and improve long-term compliance. With the general expansion of digital health, these interventions, both one to one and group based, are moving to online delivery systems that potentially extend their reach and reduce costs to the health service and to participants. Reviews of the effectiveness of the incorporation of peer support into behavioural interventions, both face to face and online, have been limited by heterogeneity of study designs. However, in the areas of mental health, lifestyle and cardiovascular risk, a positive impact in specific domains including hope, sense of empowerment, quality of life, dietary behaviour and systolic blood pressure has been demonstrated.

Main Text

Digital health and peer support

Digital health technologies offer limitless possibilities for improvements in patient care and since 2012 have gained a central place in United Kingdom (UK) national health policy. However, at present their reach is restricted to those able and willing to access and use information technology. A variety of factors such as lack of IT literacy among older people, language related barriers and physical disabilities exclude sections of the population. As access to digital systems widens, it is anticipated that in time this disparity will diminish. While this may occur, it currently leaves those without access or ability to use an internet-enabled device, at a disadvantage in terms of what is on offer to help improve their health.

Local projects and national programmes have aimed to improve digital access and literacy through voluntary initiatives such as the Digital Champion Programme lead by Age UK, a major third sector organisation. More specifically focussed peer support in the digital domain has largely remained limited to encouraging compliance with online programmes. Potential benefit may be gained, however, through the involvement of peers in enabling access to and participation in a range of digital health innovations such as online platforms and apps that provide information, help with decision making, or aid self-management and self-monitoring.

Peer support in a digital health intervention

To address the issue of access to digital health among older people and other underrepresented groups, we have been piloting a support role for peers which makes use of their skills, experience and empathy within the context of a research study. In designing our primary care-based feasibility study of an online cancer specific holistic needs assessment (csHNA) in prostate cancer (Integrated Care in Prostate Cancer, ICARE-P) we were conscious of the need to encourage older men to take part and use the online system. To meet this need we developed the concept of an ITmate: a peer supporter with personal experience of prostate cancer who had sufficient confidence in using IT to allow him to assist others in taking part in the intervention. Set in a large conurbation in the West Midlands in the UK, the involvement of the ITmate proved invaluable in recruiting and engaging men in their mid-seventies and eighties.

The csHNA allows men to self-assess a range of physical and psychosocial concerns that commonly occur in association with prostate cancer. In planning the study, we had anticipated that participants would vary in their approach to the online system and
that not all would require the same level of assistance. We envisaged that the ITmate would initially demonstrate the csHNA and that men would become increasingly independent users. However, in all instances he was asked to return to help participants undertake subsequent assessments. This may be un-surprising given the age and the degree of social isolation of the majority of participating men. The time lag between assessment time-points (generally over 3 months) also limited the potential for observational learning that would enable men to navigate the system independently, an important learning point for the development of comparable programmes.

For the ITmate himself, involvement in the study was demanding due to technical and logistical issues (e.g. arranging and attending study appointments at the required times), but enjoyable and rewarding to the extent that he continues to be involved in our programme of research.

**Challenges and lessons**

Initial challenges involved developing a role description that clearly defined its scope and limits. Subsequently, it was important to work with an established charity that already had an ongoing volunteer programme to help with advertising, screening and recruitment. As well as providing access to a wide range of potential candidates, this offered valuable safeguards to all involved.

Involving a peer supporter in a research study, particularly one in which participants are asked to disclose sensitive information, necessitate police disclosure and barring (DBS) checks are undertaken. Attention to issues of confidentiality and data security during the supporter training are also essential. A half-day session delivered by the research team addressed these issues as well as preparing the ITmate to introduce the csHNA to participants.

Valuable lessons for research and implementation were learnt during the study: a peer supporter involved in promoting participation in an online intervention must be confident in dealing with any problems that arise. Potentially, these may range from participant distress through to technical difficulties. Telephone access to a member of the project team for guidance and support during visits is critical. As well as a clear definition of the scope and limits of the role, peer supporters require guidance in the event of encountering a concerning situation such as a participant not answering the door when a home visit has been arranged, or when worrying information is disclosed. A lone worker policy is needed to ensure peer supporter safety. In addition, appropriate personal and vehicle insurance should be arranged during set up.

**Peer support: lay health workers, voluntary workers and volunteers**

Peer support has its roots in volunteerism and many organisations continue to rely on the large reserve of goodwill and experience of volunteers for its provision. With the development of peer roles that are more complex and demanding in terms of time commitment, training requirements and level of responsibility, payment is becoming a more common practice.

In the UK, paid peer supporters typically earn between £10-£12 per hour plus travelling expenses. Our ITmate was paid £10 per visit and travel costs were reimbursed. This is similar to the average paid in the USA for a ‘specialist’ peer supporter ($13.45 per hour).

Health Services have increasingly incorporated paid roles for peers and other lay workers and extended their scope, particularly with regard to the provision of support for those with long term conditions. Distinctions between this group of workers and the category of health care professional exist on a number of dimensions. These primarily include types of role (specific versus broad), training (specific versus broad training to a national standard), type of contract (short versus long term) and in opportunities for promotion or career development.

At the same time, health service policy both in the UK and internationally, is to encourage and capture the enthusiasm of the large body of potential volunteers – a group that has become ever more apparent during the COVID-19 pandemic. Peer volunteers are frequently motivated by the desire to ‘give something back’. Moreover, benefits of volunteering to the volunteer have been identified in a range of settings. Studies of the health of volunteer peer supporters who assist others with ongoing physical and mental conditions, have shown benefits in symptom reduction and improvements in aspects of quality of life. In addition, a high proportion of volunteers are retired and financial reward may not be a priority.
The UK National Health Service (NHS) itself offers opportunities for volunteering. In addition it has recognised the value and importance of voluntary or third sector organisations and has committed to increased collaboration. These organisations, employ paid staff but operate through a network of voluntary workers and volunteers both of which include peers. Voluntary workers are under a contractual obligation to provide the services for which he or she is engaged and enjoy certain protections under law. A volunteer provides their services voluntarily i.e. they have no contract and are not protected by the 2010 Equality Act. Importantly, no automatic safeguards apply to the volunteer or to the organisation which their activities support. However, codes of practice for guiding volunteer activity exist for volunteers within the NHS and have been widely adopted by national charities.

In terms of broadening digital access, various models of peer support are possible and require exploration. For example, as part of another current digital intervention project led by a member of our study team, peers with varying levels of IT experience have been recruited via a local support group overseen by a national umbrella organisation. The group members are involved on a voluntary basis in introducing potential users to an online platform to support informal carers.

A volunteer based model appears more sustainable in terms of cost, particularly when individuals require ongoing assistance. It may be that paid peer support is most valuable in the intervention phase of a research study where there are likely to be additional requirements such as record keeping and attending study meetings. Volunteer-based peer support schemes may be best undertaken in the phase of wider implementation. Research is needed to clarify costs and benefits of both approaches in different contexts.

A framework for best practice

Whatever the particular model, there is a need for a framework for best practice for digital health interventions that involve peers. Safeguards are essential in the context of involvement in intervention delivery to protect both the peer and the participant. The need to establish some guiding principles has recently been identified by a group of international experts and in 2018 led to the publication of a consensus statement. This statement, included a charter of overarching principles as well as allowing for cultural differences and health care contexts. While these are specific to peer support in the field of mental health, many of the principles laid out may have wider application and provide a framework on which more detailed and relevant guidelines may be developed. There is a need for a standard based protocol that relates specifically to digital technology.

Conclusion

Peer support in digital health: research and implementation

The future of healthcare is projected to rely increasingly on the use of digital technology at the point of care as well as in terms of information management. The COVID-19 pandemic has led to a major acceleration in the implementation of online provision. Older people as well as disadvantaged minority groups are under-represented both in the use of health related technology and in digital intervention studies. We are currently extending our csHNA to cover the needs of patients with other cancers and we will incorporate a peer supporter role in the design of future studies based on the extended version of the csHNA. Research on digital health interventions must include older people and other digitally excluded groups if it is to be relevant and broadly applicable. Researchers must use imaginative ways of attracting their interest and creating and sustaining engagement. Health care has evolved in mode of delivery as well as content with the introduction and advance of digital technology. Through innovative research designs, models of peer support and roles of peer supporters can be developed and tested to ensure that the impact of technology has the widest possible reach and benefit across the population.

Declarations

Ethics approval and consent to participate

This study was approved by the East Midlands - Nottingham 2 Research Ethics Committee (REC reference: 15/EM/0534). Written consent to participate was obtained from all participants.
Not applicable

Availability of data and materials

Not applicable

Competing interests

The authors declare they have no competing interests

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Authors’ contributions

VN wrote the first draft, JR, RA, AC and JD critically commented on and amended each further draft. All authors give final approval for this version to be published and agree to be held accountable for all aspects of the work.

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