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Rachel L. Ward & Paul K. Miller

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RESEARCH REPORTS

Depression, physical activity and mental health: An interpretative phenomenological analysis of general practitioners' experiences of exercise referral schemes in the North West

Rachel L. Ward & Paul K. Miller

Abstract

While there is compelling evidence which demonstrates that physical exercise can have beneficial impacts on mild-to-moderate cases of depression, and strong beneficial impacts on subthreshold depressive symptoms, rates of referral to exercise-based programmes in the UK remains low, particularly when compared to the use of other avenues of treatment. This paper reports findings from an interpretative phenomenological study of semi-structured interviews with a small sample (N=4) of General Practitioners (GPs) in the North West, exploring their experience-based attitudes and assumptions pertaining to the status and value of formal exercise referral schemes.

Keywords

depression; exercise referral; professional attitudes; interpretative phenomenological analysis

Introduction

Depression is, today more than ever, a profoundly serious public health concern in the UK, impacting upon the lives of individuals from all social backgrounds and strata (NICE, 2009; Tylee & Jones, 2005). The national statistics are striking. The percentage of individuals aged 18+ suffering from any form of depression (bar postpartum) in 2009-2010 (see British Medical Association (BMA), 2009, pp.94-100) was an estimated 12.82% in the North West of England, above the national average of 11.19% (NEPHO, 2012a; NEPHO, 2012b), with Cumbria experiencing a rate of 12.87% (NEPHO, 2012a), and Lancashire faring slightly worse at 13.67% (NEPHO, 2012b). Moreover, according to the BMA's Quality and Outcomes Framework "*The total annual cost of adult depression in England has been estimated at over £9 billion, of which £370 million represents direct treatment costs.*" (BMA, 2009, p.94). Consequently, a number of commentators argue for the more concerted exploration of a variety of prevention, treatment, and rehabilitation strategies to address this widespread and multifaceted problem, at both local and national levels.

Although recent studies suggest that exercise (structured or otherwise) has minimal impact on more severe forms of depression (Chalder *et al.*, 2012), there is a growing body of evidence which indicates that structured physical activity can be effective in the rehabilitation of many individuals with mild-to-moderate depression (Callaghan *et al.*, 2011; Carter *et al.*, 2012), not least in terms of enhancing happiness with physical appearance and providing venues for positive social interaction (Daley *et al.*, 2007;

Johnson & Taliaferro, 2011). Even the traditionally (and necessarily) conservative NICE guideline on the treatment and management of depression in primary care summarises findings in this domain affirmatively: *Taken together, these studies suggest a benefit for physical activity in the treatment of subthreshold depressive symptoms and mild to moderate depression, and, more specifically, a benefit for group-based physical activity. Physical activity also has the advantage of bringing other health gains beyond just improvement in depressive symptoms.* (NICE, 2009, p.211.)

As a corollary of widened academic interest in the efficacy of exercise for the treatment of a range of health complaints, formal Exercise Referral Schemes (ERSs) have been developed throughout the UK to provide access to tailored programmes of physical activity (Carter *et al.*, 2012): "*many of which include depression as a referral criterion*" (Lawlor & Hopker, 2001, p.1).

This paper, following the call from Moore *et al.* (2011) for greater qualitative investigation of the views of healthcare professionals on ERSs, uses interpretative phenomenological analysis (Pringle *et al.*, 2011; Smith *et al.*, 2009) to explore the experiences of a small sample of GPs in the North West of England. It should be noted at this point that the authors do not claim a study of this form can evidence - in anything other than an anecdotal manner - the propositional 'effectiveness' of ERS use as a rehabilitative strategy for depression. Rather, through the inductive examination of the experience of four GPs with practical knowledge of the schemes, it is intended to explore concomitant

issues as they are conceptualised, connected, and rationalised by the participants themselves. This can help add additional dimensions to the understanding of existing concepts, and also sketch new ones for further exploration (Smith *et al.*, 2009; Vachon *et al.*, 2011).

Method

Framework

Interpretative phenomenological analysis (IPA) is a relatively new methodology within the arsenal of qualitative research, providing a structured means of exploring in detail "how participants are making sense of their personal and social world, and the main currency for an IPA study is the meanings particular experiences, events, states hold for participants" (Smith & Osborn, 2008, p.51). IPA has, in recent years, found a broad array of applications in healthcare contexts, predominantly in terms of mapping service users' experiences of a variety of conditions (Hamill *et al.*, 2010; Todd *et al.*, 2010), including the experience of depression itself (Rhodes & Smith, 2010). There is, however, a growing body of work in the field dedicated to exploring the experiences of healthcare professionals (Arvinen-Barrow *et al.*, 2010; Vachon *et al.*, 2011).

Participants

IPA studies typically use small samples to facilitate higher definition investigation of the particular, with some commentators actually advocating a single-case method (Smith *et al.*, 2009). In this paper, and following procedures in line with institutional ethical guidelines, a small sample (N=4) of GPs was

Table 1: Subordinate themes

| Themes. | Themes. |
|--|---|
| 1 GPs are not always made aware of ERSs in the area. | 2 GPs have limited information on referral criteria or changes to ERSs themselves |
| 3 There is limited feedback on the impacts of referrals, so efficacy is hard to judge. | 4 What feedback is obtained is always positive. |
| 5 Exercise is often advised but not actually prescribed. | 6 Exercise seems valuable in the short and long term rehabilitation of depression. |
| 7 Patients with depression can struggle to motivate themselves to begin exercise. | 8 Patients can struggle to sustain exercise in the long-term without formal supervision. |
| 9 Patients with depression can be averse to public or group activities. | 10 There are fiscal constraints on many patients that preclude long-term engagement with structured exercise. |
| 11 Counselling can facilitate a willingness to exercise. | 12 Counselling can be counter-productive as a preparatory step. |
| 13 Patients may not believe that ERSs work, they need evidence that makes sense to them. | 14 The institutional need for 'Quick Fix' strategies constrains GPs in prescribing ERSs. |
| 15 There are time constraints on GPs that can inhibit patient involvement in ERSs. | 16 Exercise is still a 'fledgling' therapy for depression. |

purposely recruited. All participants, at time of writing, were practicing in the North West of England and had practical experience in the use of exercise referral schemes.

Procedure

As recommended by Smith and Osborn (2008) data were collected using semi-structured interviews, and largely open questioning, either in person (at a venue of the participant's choosing) or via the telephone. All interviews, with participant consent, were digitally recorded and transcribed in full. Data were anonymised at the point of transcription. The average interview duration was 25 minutes.

Data analysis

Analysis proceeded in line with the standard idiographic techniques of IPA, in which an initial free textual analysis is condensed into linked (subordinate) themes, and finally into a smaller number of master (superordinate) themes that hold across the data corpus (see Smith & Osborn, 2008; Smith *et al.*, 2009). Analytic themes were initially developed by the first author, revised by the second, and reviewed by a third academic with strong qualitative analysis experience, in a process of triangular consensus validation (Patton, 1990).

Results and discussion

Analysis revealed 16 subordinate themes, as displayed in Table 1 (below).

The overlapping, cross-cutting nature of these subordinate themes gives rise to three superordinate themes, outlined below.

Superordinate theme 1: **I believe that exercise helps treat depression, but better systems of information are needed around the schemes themselves.**

Sample Evidence

GP3: "...I'd say [in] both the acute and long term setting it's a valuable therapy for helping them."

GP2: "I can think of cases where people have...adapted exercise as part of their depression plan to...maintain things in the long term with good effect."

GP4: "I think these alternative therapies like psychological interventions or exercise [are] probably better in the long term as well."

In terms of the use of formal ERSs, however, several key problems were identified in terms of practically available information. These were:

- A lack of information provided to GPs pertaining to the existence of local ERSs, and changes in local schemes, i.e., "The information is often absent or out of date."
- A lack of formal information provided to GPs pertaining to the exercise referral process itself, i.e., "The systems for referral are not always made clear to GPs."
- A lack of formal survey feedback from ERSs and

Mirroring the broader medical aspect upon exercise (NICE, 2009) the general experience of the participants was that it has clear and positive outcomes for people with milder forms of depression in both the short and longer terms. For example:

the patients who have taken part in them, i.e., "There is little way of knowing if and/or how the referral has benefited the patient."

d) A lack of information suitable for patients themselves, to help convince them that an ERS is a suitable therapeutic method, i.e., "Patients may not see exercise as proper treatment." It was strongly acknowledged, regarding point (c), that the little feedback that had actually been received had been very positive, but that a formalised system for its collection was imperative for both GPs and prospective users of the schemes:

Sample Evidence

GP2: "I mean we do occasionally get feedback...[exercise referral] seems to have been pretty beneficial...[but we could use] some sort of survey that goes to people who might actually be attending the programme...to get feedback on how useful they found it."

Regarding the corollary point (d), meanwhile, it was argued that more compelling, patient-focused research and evidence needed to be produced, ideally "case studies and examples" (GP1) showing successful interventions. This raises the broader issue of difficulties promoting patient engagement with exercise referral schemes. While there is to date very little robust research that investigates issues specifically pertinent to points (a)-(d) above, engagement is a commonly occurring topic throughout the broader literature on ERSs (see Carter *et al.*, 2012; James *et al.*, 2008; Moore *et al.*, 2011; Morgan, 2005), and is further addressed by participating GPs in terms of

superordinate theme 2 (below).

Superordinate theme 2: **While exercise referral schemes are likely to be of benefit to patients with depression, the patients themselves experience personal and social obstacles to participation.**

Despite the generally positive attitude towards ERSs held by the participants, there were some further issues that were conceptualised as likely reasons that patients with depression would themselves resist exercise referral which, in turn, were viewed as obstacles to referral itself.

Sample Evidence

GP1: "So the problem can be is if they have anxiety with low mood, then they've got agoraphobia, and fear of unknown places and that can be a problem then they don't want to be a part of a group."

GP3: "...it depends what they are feeling anxious about. It could be meeting new people..."

GP4: "Motivation is normally a big problem...because often they don't feel like going out of the house."

As noted by Moore *et al.* (2011) the motivation of many patients, including those with depression, to join a public and/or social activity such as an ERS can be coloured by serious and obstructive anxieties. These can be exacerbated by potentially unfamiliar environments such as gyms and leisure centres (Wormald & Ingle, 2004). To similar ends, and conversant with the findings of Carter *et al.* (2012), James *et al.* (2008) and Callaghan *et al.* (2011)

participants in the current study spoke extensively of the barriers to motivation that depression *itself* can erect with regards to such involvement (see sample evidence above).

Strikingly, however, while counselling was seen as a potentially effective strategy in facilitating initial motivation to exercise and socially engage, and for overcoming more general social anxieties, it was also seen as a latent 'double-edged sword':

Sample Evidence

GP3: "Patients have gone to counselling sessions and they've come back saying, it's like opening a Pandora's box, it's...made things worse."

Moreover, motivation was viewed not only as an obstacle to initial entry into an ERS (as described above), but also to participating patients sustaining independent involvement in exercise itself once structured supervision (i.e., the formal scheme) was no longer available (see also Moore *et al.*, 2011). This was, in part, attributed to a need among depressed

individuals for external regulation to supplement their own motivational difficulties. However, given that ERSs are often free or heavily discounted to patients only in the earlier stages of their involvement, financial barriers were deemed to be significant issues in maintaining adherence to the supervised phase of physical activity itself.

Sample Evidence

GP1: "A lot of people have started on [name of local initiative] and then decided they'd pay and keep it on, and now they just can't afford to."

In short, finances often obstructed long-term use of the scheme and, without the scheme, motivation often obstructed independent exercise. As also evidenced by James *et al.* (2008), the former was partially explicated by participants as being due to many patients from poorer socio-economic backgrounds simply not being able to afford to participate in formal initiatives once subsidies were no longer available. However, it was

further observed that many persons with depression are often either signed off from work in the long term, or unable to work in a full-time capacity, thus compounding their own financial restrictions.

Superordinate theme 3: Obstacles in the contemporary culture of medicine itself can inhibit my referring patients with depression to exercise schemes."

Perhaps the most striking of the meta-themes to emerge from the interviews related to the manner in which participants experienced a 'cultural' pressure to use particular kinds of strategies in treating depression. Reflecting concerns endemic in medical literature on the topic (see Hyde *et al.*, 2005), this pressure was taken to manifest in two key ways. The first related

to the notion of bucking medical trends, i.e., the experienced difficulty in prescribing treatments that are not as yet regarded "mainstream" (which is to say not fully "clinically proven") when there are more conventional approaches (usually antidepressant medications) available:

Sample Evidence

GP3: "I think that...it's often it's easier to try and stick somebody on a medication when there are probably more effective strategies for [a] proportion of the people that have mood disorders."

The second, and closely related to the first, was a perceived and ongoing lack of institutional support (generally fiscal) for the use of therapies that do not

provide a 'quick fix', even when those therapies may save money overall:

Sample Evidence

GP1: "...but then if...the government want to...you know...manage health better to decrease the health bill in the future, they have to put [money] in these sorts of areas where perhaps you don't see the immediate benefit."

Since exercise referral was neither seen as a quick fix, nor as a mainstream approach in the treatment of depression (despite having been in use for over a decade), participants thus felt a particular constraint in using it (despite their own stated positive experiences).

These putatively contradictory attitudes, in particular, highlight an issue of circularity stemming from entrenched proof procedures in medical science itself. Across a range of quantitative studies, the efficacy of ERSs for a variety of interventions is deemed largely ambiguous, not due to a lack of evidence *per se*, but a lack of a very particular *type* of evidence - that emergent of randomised controlled trials (Lawlor & Hopker, 2001, p.6). However, while randomised controlled trials (RCTs) provide evidence *par excellence* for the monitored assessment of pharmacological treatments, they are rather less appropriate for investigating interventions such as exercise where issues of effect are inextricably bound up with sociological and psychological questions pertaining to uptake, adherence, and interaction. RCTs are, simply, "not designed to answer such questions as they lack the external validity necessary to faithfully replicate practice" (James *et al.*, 2008, p.218). The upholding of RCTs as the singular gold standard of research by medical culture effectively obviates the possibility that a community-oriented treatment for depression - such as an ERS - could attain a truly 'proven' status within that medical culture. This, in turn, has the potential to cyclically perpetuate (a) the difficulties in referring for

individual healthcare professionals described above; (b) the corollary tokenistic funding also described; and (c) ultimately, still fewer robust academic investigations. As originally recommended by the Department of Health (2001), formal academic evaluation of exercise referral schemes should not confine itself to use of the RCT format; to these ends, a much wider array of research forms should be considered if more three-dimensional understandings of impact in this domain are to be generated (Carter *et al.*, 2012; James *et al.*, 2008; Moore *et al.*, 2011).

Conclusions and recommendations

In the inductive analysis above, participants can be seen to raise a number of issues closely allied to those arising in extant literature, but also some hitherto given limited attention. The primary novelty to emerge relates to the links between research, information, culture, and attitude. At the level of broader academic research, and as discussed above, it has for some time been noted that the use of particular quantitative methods alone may prove something of a blunt instrument for the investigation of ERSs on the grand scale (James *et al.*, 2008). However, the manner in which the participants weave together key matters relating to ERSs and depression rehabilitation both implies and directly calls for attention to the character of research and dissemination at the local level:

1. Formalised systems of structured feedback from patients with depression who have taken part in ERSs - ideally in survey form - would provide GPs

with more robust and systematic evidence with which to inform their own future treatment decisions, and potentially improve their confidence in local decision-making by making available local (rather than general) data.

2. For cases in which referral to an ERS is deemed suitable by a GP, the production of qualitative case-study data could prove invaluable in allaying patient scepticism and also patient anxiety. 'Humanising' the schemes through the dissemination of previous participants' own stories, giving a voice to others 'in the same boat', may help form a valuable bridge between knowing about a scheme and actually feeling ready to take part in it.

Such observations further speak to the production of foundational knowledge bases upon which the grander, multi-method assessments of ERSs called for by the Department of Health (2001) can be constructed.

Affiliations

Rachel L. Ward & Dr Paul K. Miller, University of Cumbria

Contact information

Dr Paul K. Miller, paul.miller@cumbria.ac.uk

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