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Synthetic Social Support: theorizing lay health worker interventions

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Synthetic social support: theorizing lay health worker interventions

Abstract

Levels of social support are strongly associated with health outcomes and inequalities. The use of lay health workers (LHWs) has been suggested by policy makers across the world as an intervention to identify risks to health and to promote health, particularly in disadvantaged communities. However, there have been few attempts to theorize the work undertaken by LHWs to understand how interventions work. In this article, the authors present the concept of ‘synthetic social support’ and distinguish it from the work of health professionals or the spontaneous social support received from friends and family. The authors provide new empirical data to illustrate the concept based on qualitative, observational research, using a novel shadowing method involving clinical and non-clinical researchers, on the everyday work of ‘pregnancy outreach workers’ (POWs) in Birmingham, UK. The service was being evaluated as part of a randomized controlled trial. These LHWs provided instrumental, informational, emotional and appraisal support to the women they worked with, which are all key components of social support. The social support was ‘synthetic’ because it was distinct from the support embedded in spontaneous social networks: it was non-reciprocal; it was offered on a strictly time-limited basis; the LHWs were accountable for the relationship, and the social networks produced were targeted rather than spontaneous. The latter two qualities of this synthetic form of social support may have benefits over spontaneous networks by improving the opportunities for the cultivation of new relationships (both strong and weak ties) outside the women’s existing spontaneous networks that can have a positive impact on them and by offering a reliable source of health information and support in a chaotic environment. The concept of SSS can help inform policy makers about how deploying lay workers may enable them to achieve desired outcomes, specify their programme theories and evaluate accordingly.
Key words:

Social Support, Risk Work, lay health workers, health policy, pregnancy, postnatal depression
In this article, we present the concept of ‘synthetic social support’ (SSS) and critically appraise its value within healthcare systems. We illustrate the concept by documenting and theorising the work done by lay health workers (LHWs) in maternity care (trained, but not professionally qualified, people known locally as ‘Pregnancy Outreach Workers’ or POWs) in the city of Birmingham in the UK. This intervention can be seen as part of a broader trend internationally to employ trained, lay (non-professional) people to support the achievement of health and other public policy goals, such as within housing, families and communities or security policy (Singh and Chokshi 2013). The POW service was evaluated using a randomized controlled trial (RCT) to explore whether the introduction of a POW intervention in addition to usual maternity care would have an impact on attendance at antenatal clinics or on postnatal depression. However, interpreting the results of the trial and what the policy implications of it were was more challenging because of the lack of a defined programme theory on the part of the commissioners or providers of the service. It is common – and problematic - that complex interventions such as this remain a ‘black box’ (i.e. with unknown mechanisms) in effectiveness studies. Therefore, as part of the programme of research, we conducted a theoretically-informed qualitative investigation into the everyday work that the POWs undertook and have developed the concept of SSS to theorize lay health work. We discuss the potential value of providing ‘synthetic social support’ as an intervention to address poor health outcomes in (deprived) communities and invite future research to test and extend this middle range theory.

Background

The rise of lay/community health workers to deal with health risks and health inequalities

There have been calls to widen the public health workforce beyond health professionals (RSPH 2015) and, internationally, there has been a rise in the number of interventions that utilise LHWs to support people with poor health outcomes (Department of Health 2004; Singh and Sachs 2013). At the heart of many of these interventions are attempts to operationalise epidemiological knowledge
about health risks, by identifying ‘at risk’ individuals or communities and attempting to reduce health inequalities, improve health outcomes or both, preferably at low cost (Singh and Chokshi 2013). While a decade ago evidence of effectiveness of LHWs was considered ‘promising’ but low quality (Lewin, et al. 2005; Rhodes, et al. 2007), the evidence is now much stronger for ‘childhood undernutrition, improving maternal and child health, expanding access to family-planning services, and contributing to the control of HIV, malaria, and tuberculosis infections’ (Perry, et al. 2014: 399) although there still many question unanswered about their role, effectiveness (Gilmore and McAuliffe 2013) and cost-effectiveness (Jack, et al. 2017).

Social support and health outcomes

It is well established in the literature that there is a relationship between social support and mental and physical health outcomes, including both self-reported and objective health measures (Berkman, et al. 2000; Christakis and Fowler 2007; Cohen 1988; Durkheim 1951; White, et al. 2009), although the mechanisms are still being explored (Uchino, et al. 2012). The link has also been identified in studies related to childbearing and childrearing, with particular emphasis on the support a woman receives from her partner and family (Collins, et al. 1993; Ma, et al. 2015; Mirabzadeh, et al. 2013; Morikawa, et al. 2015; Oakley 1992), although there is still much work to be done around specific outcomes, such as pre-term birth (Hetherington, et al. 2015). Generally the literature cites the positive effects of social relationships and social integration, although there is also potential for negative social relationships (abuse, neglect, prejudice) and excessive social control (over-regulation and surveillance of individuals). It is not a straightforward process to measure social support, not least because there is a distinction between the subjective perception of social support and levels of ‘objective’ enacted support (Hogan, et al. 2002). Decisions about what and when to measure social support may depend on whether the focus of the study is on proximate and psychological pathways to health or on the social-structural influences on health. During
pregnancy, greater latent, perceived and received social support have been linked to better birth outcomes (Collins, et al. 1993; Feldman, et al. 2000) and so professional care is particularly valuable when community and family networks are poor (Perry, et al. 2016). Most studies focus on embedded social networks, or ‘social capital’, theorising social support (or lack of it) as something largely durable (Alvarez, et al. 2017). It is much less clear from the literature whether providing additional social support (rather than professional care) as a time-bound ‘intervention’ can improve health outcomes and, if so, how and at what cost (Johnson, et al. 2000; Rowe, et al. 2005).

Risk society and the everyday practices of lay health workers

The guiding theoretical framework that we adopted for this study enables us to explore non-professionalized work in a medically-dominated field of practice (i.e. public health in a high-income, Western society). Risk logics now dominate much of public policy (Beck 1992; Beck 2000; Giddens 1991), including the public health system where prevention strategies based on epidemiological knowledge and evidence-based medicine prevail (Petersen and Lupton 1996) and where notions of professional discretion have been replaced with administrative notions of control, efficiency and guidelines for practice. However ‘risk’ is a complex concept to grasp for both professionals and lay people (Adam, et al. 2000; Lupton and Tulloch 2002), and there is only limited theorisation of the practice and tensions of real-life work that is shaped by the risk society, or ‘risk work’, (Horlick-Jones 2005; Power 2016; Veltkamp and Brown 2017) and particularly how the disjunctions between population-based knowledge of health risk and the individual facing an uncertain future are managed by street-level workers (anonymized_ref).

Where there have been qualitative evaluations of social support interventions, these tend to focus on patient experience (e.g. Dadich, et al. 2013; Finn, et al. 2008; Kozhimannil, et al. 2016), and there have been few studies that explicitly attempt to describe or theorize the nature of the work undertaken, despite policy calls for greater understanding of ‘competencies’ (Malcarney, et al.
2017). Conducting this kind of research requires in-depth studies of practice in context and the development of middle range or substantive theories (Glaser and Strauss 1967; Merton 1968: 39) to help explain practices (anonymized_ref).

The terms ‘lay’, ‘peer’, ‘community’, ‘outreach’ are often used interchangeably to describe non-professionally trained health workers. LHWs occupy a liminal space between professional and peer. The perceived ‘closeness’ or ‘identification’ with the local community is often part of the characteristics desired for employment (DH 2004), making them better placed, it is argued, to mediate between ‘the community’ and health professionals (anonymized_ref). Nevertheless, there is a distinction between paid work, and volunteer self-help or ‘befriending’ projects (Gray 2002). Their closeness to the community raises questions about the scope of their work if it moves beyond the tight boundaries of implementing medical guidelines (Mathers, et al. 2016)

In mental health, ‘case management’ has become a popular concept, that emphasizes the importance and challenge of proactive attempts by the case manager to *co-ordinate* the support from multiple professionals as well as family and community networks (Perry, et al. 2016; Pescosolido, et al. 1995). However, although there are a number of different models of case management, it is usually based around managing long-term conditions (Ross, et al. 2011), rather than primary prevention.

Another important concept in this discussion is social capital, which has been used to frame interventions, and is often used as an:

‘umbrella concept, in which social resources (social capital components) are grouped into dimensions: social networks, social contacts and participation belonging to the structural or objective aspects; and social support, sense of belonging and trust corresponding to the cognitive or subjective aspects. Moreover, depending on the directions of social ties, social capital is defined as bonding (intragroup ties between members sharing common characteristics), bridging (ties between heterogeneous groups) or linking (relationship

However, this concept is too broad for our purposes and we felt that the concept of social support was more helpful for explaining tangible everyday practices. While we explore and critique the concept of social support in the findings below, it is useful to highlight that we drew on existing conceptual literature on social support, in particular its components (instrumental, emotional, appraisal and informational support) and its context (the social structure and climate), to direct our analysis (see below).

Our use of the adjective ‘synthetic’ to describe the type of social support practised by LHWs has a useful double meaning for our new concept. The meaning of a ‘synthetic’ product, substance or action is one that is not genuine but is made to imitate a natural product, but synthetic also means something that has taken components from elsewhere that have then been synthesized to create something new and more appropriate for the purpose required. In our study, we established that to a large extent the work that the POWs were being paid to do was ‘social support’ in a harsh social environment characterised by health inequalities but that this was different from the social support women received from their spontaneous and embedded networks of family and friends in important ways. We must be clear that we do not mean to imply by the term ‘synthetic’ that it is the opposite of ‘authentic’ and that there was no emotional commitment by the POWs for the women. On the contrary, all stages of the relationships between the POW and the women they support can be stressful or rewarding for the POWs and, although it is beyond the scope of this article to consider this in depth, may require emotional labour (Hochschild 1983).

Study Context and Purpose

The POW service was commissioned to provide support to pregnant women with ‘high social risk’ in Birmingham, with the broad aim of addressing the high levels of inequality in maternal and child
outcomes identified within this group. The service was commissioned (i.e. planning, agreeing and
monitoring services) by local primary care organisations (known at that time as Primary Care Trusts)
from a third sector (non-profit) organisation. All care was delivered to women free at the point of
use, via the National Health Service (NHS). To evaluate whether the POW service was effective an
RCT was conducted to assess the impact of the addition of referral to the POW service compared to
standard maternity care for women having their first baby. Engagement with antenatal care
(number of visits) and maternal depression (using the Edinburgh Post-Natal Depression score) were
selected by the research team as the primary outcomes: mortality or major morbidity outcomes
would have required a much larger sample than was feasible (anonymized_ref). The study showed
no significant difference between women receiving standard maternity care and those additionally
referred to the POW service with respect to antenatal care engagement. For maternal depression,
however, there was a significant difference in the powered sub-group of women with two or more
social risk factors for those referred to the POW service (anonymized_ref). Additionally, mother-to-
infant bonding scores were better overall for those referred to the POW service than those who
were not (anonymized_ref). To aid understanding of the work undertaken by the POW, quantitative
data were also collected on the intervention itself: process information about the components of
their work, including the frequency, venue, duration, type of support offered, additional social risk
disclosure and referrals to other agencies.

One of the problems that we expected to face in interpreting the findings of the RCT was that the
theoretical basis of the intervention was not clearly articulated by either the commissioners of the
service or the providers. This would make it more difficult for us to understand what was effective,
or not, about the intervention and for policy-makers to design similar interventions adapted to their
context as needed. The purpose of the POW service was variously described by commissioners as
encouraging engagement with the health services, education for healthy lifestyles, providing social
support around issues such as benefits, housing, mental health problems and well-being, and as an
intervention to enhance self-efficacy. The providers described the service as supporting pregnant women, alongside other health and social care workers, with the aim of reducing factors that can cause infant mortality. The service was originally commissioned in 2006 and the research team became involved in 2007 when funding for an evaluation was being obtained as part of a larger national project, the UK National Institute for Health Research’s Collaborations for Leadership in Applied Health Research and Care (CLAHRC), which aimed to reduce the second translational gap between applied research and implementation. We waited to publish this article until after the results of the RCT had been published (anonymized_ref)

We set out with a broad research question: ‘What is the nature of the work that the POWs do?’ in line with our guiding theory of risk work. Given that there was no clear programme theory for the intervention, we wanted to find out if a post hoc theory could be identified based on our empirical data (Dixon-Woods, et al. 2011). Once we had analysed the data to describe the everyday work of the POWs, we interpreted our findings to ask what kind of ‘social support’ was being provided and thus whether it was theoretically plausible for this kind of intervention to have an effect on (maternity-related) health outcomes.

Study Design and Methods

**Design:** To understand the nature and context of the POWs’ everyday work, we adopted a qualitative approach, with the explicit aim of developing a substantive, middle range theory, which we could then compare to and refine using existing theoretical literature (Charmaz 2006; Goldkuhl and Cronholm 2010). Commentators have called for a ‘qualitative and contextual approach to the definition of social support’, recommending qualitative methods ‘to identify what is socially supportive in what circumstances’ (Williams, et al. 2004: 957) and the focus of this study was on ‘social support’ when it is used as a healthcare intervention. While the POWs’ perspectives and
subjectivity were of primary importance (Popay, et al. 1998), we chose to avoid formal interviews because of the tendency in oral accounts of work to reproduce the ‘theory’ about the role, idealised accounts and retrospective explanations about action (Diefenbach 2009; Pope 2005). We wanted to investigate not what the POW role formally required of them, but what their work actually consisted of. In May/June 2011, we collected data using ‘shadowing’ techniques (McDonald 2005; Quinlan 2008) to study action-in-context and enable a more hermeneutic understanding of the POWs work. We were explicitly interested not only in the nature of the work, but also the nature of the workplace (Wibberley 2013), including the way that physical and social spaces enabled or constrained them in their purpose. Figure 1 provides an overview of our analysis (Pratt 2009). Figure 2 provides an overview of the women’s journey through the service. Figure 3 provides a list of the risk factors that midwives assessed the women for; the presence of any risk factor made them potentially eligible for the POW service.

Research team: The shadowing was carried out by XX, a sociologist (non-clinical) and an experienced qualitative researcher and XX, a clinical (midwifery) researcher. The team also consisted of XX, a professor of evidence-based maternity care (clinical), XX a professor of public health (clinical) and XX a professor of maternal and child epidemiology (non-clinical) all of whom had both qualitative and quantitative research skills. All researchers had been undertaking research or clinical practice in the city for a number of years and so had some familiarity with the communities under study.

Setting: The POW service was originally commissioned in Birmingham, UK in 2006. A review of perinatal morality at the time showed high deprivation, high ethnic diversity and many recently arrived mothers, refugees and asylum seekers in the area (WMPI 2007). We obtained ethical approval from South Birmingham Ethics Committee (10/H1207/23).
Access and Recruitment: Access to the POW team had previously been secured via the trial and POWs were filling in trial forms (detailing their activity) on a daily basis. POWs were recruited to the shadowing study through XX and XX attending team meetings, explaining the study and asking for volunteers. Written informed consent was obtained from each of the POWs that participated. All their current clients (women receiving the POW service) received a letter informing them that their POW may be accompanied by a researcher during a specific period of time and that they could opt out of these observations without giving a reason or it affecting the service that they received. Once the dates and times of our shadowing was confirmed, each POW verbally confirmed with the client that they had received the letter and that they consented to the researcher being present. A few clients declined during the time we were shadowing so we simply did not attend those meetings.

Sampling: From the volunteers, we selected two POWs from each of the three localities (parts of the city) where the POW service was operating. Each locality had different characteristics of deprivation: POW#1 and POW#2 were working in an inner city community with a large migrant population, POW#3 and POW#4 were working in a suburban area of the city, adjacent to a rural area, with a predominantly white working class population and POW#5 and POW#6 were working in an inner city community, with a more established multi-ethnic community. Three of the POWs were White British, and three were from Black and Minority Ethnic (BME) groups. We spent 3 days with each of the 6 POWs, which amounted to 100 hours of observation. We ceased data collection once we were satisfied, based on our experience (see above for details of the research team) and discussions within the team that we had got an in-depth insight into the POWs’ work, which we confirmed during the member check (see below for more detail on the analysis process).
Data collection: During the shadowing, XX and XX took fieldnotes recording (1) action-in-context, what was happening and in what social and physical environment; (2) the content of informal conversations with the POW we were shadowing and other POWs during ‘down time’ (Bartkowiak-Theron and Sappey 2012) from contact with clients, such as when driving to meetings or over cups of tea, including asking the POW for her reflections on client meetings, or asking her to explain why she did something in a particular way, and (3) reflexive notes about our own impressions of the setting or events and our role and influence on any happenings. At the end of each day, we wrote up full, reflexive fieldnotes and shared them with each other. At the end of data collection at each location, we had a debrief meeting with XX and recorded additional reflexive notes. Although there was a great deal of ethnic and linguistic diversity in the community, all the POWs spoke English and usually communicated in English with their clients. We did not observe any cases of POWs speaking to a woman in her first (non-English) language, although the POWs reported that they occasionally did so.

Analysis: We adopted the Framework method (Gale, et al. 2013) to conduct descriptive qualitative content analysis on our data. After familiarizing ourselves with each other’s fieldnotes, XX and XX independently conducted open coding (Saldaña 2009). We discussed our codes and through a process of merging and rationalizing them, developed a descriptive analytical framework of 69 codes, arranged in eight categories: characteristics of the POW; characteristics of the woman; nature of the POW/woman relationship; job role; the community interest company that delivers the service; working environment; context/the system; methodological issues [full analytical framework available on request]. A summary of this analysis was presented to the POWs and their managers. This ‘member check’ (Lincoln and Guba 1985) worked well because of the rapport and trust that the research team had built over a considerable time with the POWs (the RCT had been underway for many months before the shadowing commenced and continued while the qualitative data were analysed); they received the interpretations warmly and debated the codes we had applied. As a
result, some modifications were made to this first phase of analysis based on clarifications they made about aspects of their work. This stage was also important for ethical and reflexive reasons. LHWs occupy a tenuous position in the healthcare division of labour – they are not professional workers, with the associated power and authority but any new role has the potential to generate tensions about expertise with the division of healthcare labour (Bonner and Walker 2004). In addition, this study was nested within an RCT evaluating their effectiveness – meaning the outcomes of the research could have a material effect on their continued employment. The member check ensured the trustworthiness of our descriptive data from the perspective of our participants, before we moved on to interpretation and theorization.

The full team then had a brainstorming session about potential theoretical frameworks to help refine our analysis. We conducted a second cycle of coding using an analytic framework [available on request] that we developed around the concept of social support drawing on the literature and our emerging interpretation. Based on the interpretation of our data, we developed the new concept of ‘synthetic social support’ (SSS). We then searched the literature and found that only once had a similar concept been used previously (to our knowledge): ‘synthetic, professionally-based set of social network ties for individuals’ (Pescosolido, et al. 1995) in relation to case management models in mental health (see above). While our study has some unique characteristics, based on location, maternity care and length of SSS offered, we argue in the discussion that it is likely that this concept could be generalized to other LHWs, i.e. analytic generalisation (Polit and Beck 2010), and would invite further research to validate it and explore the variation in how synthetic social support has been used. We would also argue that the concept could be used as the basis for designing an intervention or providing training for LHWs.

Findings
A woman having her first baby was referred to the POW service if her midwife identified her, through a systematic assessment, as having at least one risk factor (see Figure 3), although in many cases multiple risks were present. In the trial, the women who were eligible for the service and consented to participate were randomised into the intervention or ‘usual care’ arms.

The POWs came from a range of backgrounds and have various career routes prior to applying for this role: all except one were women; they were from a range of ethnic backgrounds, they ranged in age from 20s to 40s. One POW explained, ‘We reflect our communities’. She then looked around the room and indicated where the other POWs were sitting, ‘Pakistani, Bangladeshi, Dominican. It makes a difference’ (POW#1). For some it was their first job, for others they had previously worked for other community interest organisations, or in other sectors. They were paid modestly but above the living wage in the UK. Most were also mothers and some had previously experienced some of these ‘risks’ in their own lives, including domestic violence, being a teenage parent or being newly arrived in the UK. The POWs described the importance of ‘engaging’ the women and the first step involved making contact and arranging a meeting to introduce themselves and explain the service, then ‘building trust over time’ (POW#4). Not all women remained engaged, for instance POW#1 described a woman who disengaged once she realised that the POW had no influence over where she would be rehoused, and POW#6 noted that one woman stopped making contact after her mother-in-law became more involved.

The relationship was mediated through the POW documentation. This included a ‘contract’ for both the POW and the women to sign at the beginning, and forms for each meeting documenting their agreed respective tasks each time they met. The purpose of the documentation was for the trial team to understand more about what the POWs did in case people wanted to replicate the service, and for the management team to be able to record the activities POWs did to report to the
commissioners. While there is not scope within this article to explore issues of an ‘audit culture’ in depth, it is important to recognise that issues of accountability are mediated through the local hierarchies of the organisation (Hull 2012), that targets can produce certain forms of ‘gaming’ (Bevan and Hood 2006; Chamberlain 2010), and in the non-profit sector this can hold particular challenges (Owczarzak, et al. 2016), such as the need to renew contracts on a regular basis as the POW service did. This situation made the POW service’s involvement in the formal evaluation (via RCT) in collaboration with a prestigious local university, particularly valuable (especially when the results were positive), and reinforced the dominance of a biomedical science framing for the service.

Types of support

Emotional support ‘involves the provision of caring, empathy, love and trust’ (Langford, et al. 1997: 96). The POWs took time on a regular basis to listen to the women about the things that were going on in their lives, ‘having a good moan about the situation’ (POW#5), laughing and joking to diffuse stressful situations, or talking to women about things they cannot talk to others about: ‘one girl’s nan died and she saw the midwife just before, but didn’t tell her, then it was the first thing she said to me’ (POW#3). The POWs talked about ‘active listening’ (POW#3) and being ‘non-judgemental’ (POW#2). Another tool is what the POWs referred to as ‘wellbeing calls’ where they call or text, sometimes daily, to check in with the woman to see how she is, rather than with a particular task in mind. One client said about POW#5: ‘someone to talk to, she is there when I need her ... If I call her about something or just want someone to talk to, she comes’. Of course, sometimes the women can disengage if they are struggling emotionally; POW#6 described a woman who she had had a lot of contact with during the pregnancy then the woman disengaged after a stillbirth, but then got back in contact weeks later to talk it through with her POW. POWs offered everyday reassurance to the women, who often lacked self-esteem and could be extremely anxious about the challenges they
faced: ‘tell me how it goes’ (POW#1), or ‘general upset is normal [when you don’t know where you’ll be living]’ (POW#4). POWs were a confidential ear when the women were experiencing emotional issues related to their partners, family, friends, as well as health professionals or social services, thereby buffering some of the effects of negative social ties.

*Appraisal support* is the ‘communication of information relevant to self-evaluation, rather than problem solving’ (Langford, et al. 1997: 97). It ‘relates to help in decision-making, giving appropriate feedback, or help deciding which course of action to take’ (Berkman, et al. 2000: 848). The POWs provided this sort of support regularly by asking women about progress with certain goals, whether they had submitted forms, or if they had remembered they had antenatal appointments coming up. POW#5 explained that it was important not to tell people what to do, but to discuss it with them; ‘the moment you start telling people what to do, they aren’t going to want to know you’. The POWS congratulated their women on making small and big steps. For instance, one of POW#3’s clients had agoraphobia, for which the POW had been giving her support. The woman said that she was doing OK and managing to get out with the pram [UK term: four-wheeled carriage for a baby, pushed by a person on foot] and her dog. She reported ‘I’ve been shopping on my Jack Jones [UK slang: on my own]’, and the POW asked ‘What’s changed?’, the woman said ‘Maybe its him [baby]’, the POW responded, ‘Maybe it’s you’, and when she was getting in the car to leave, said, ‘You’re doing really well, I’m not just saying that’. POW#2 described offering a woman assurances that the woman did not have to be ‘like her mother’, with whom the woman had a difficult relationship; the POW said that the ‘cycle did not have to repeat’. The POWs at the member check event explained that they felt that they offered ‘moral support’ and differentiated it from emotional support, on lines that were similar to the definition of appraisal support we use here.
**Instrumental support** is the provision of financial aid, or tangible goods or services (Berkman et al. 2000) and involves the POW doing something so that the woman did not have to do it herself. This included practical tasks, such as making phone calls to the housing office (POW#2) or to Shelter [a homeless charity] (POW#1), doing research about tax credits outside of face-to-face contact with the woman (POW#3), faxing letters for a woman who was going through an immigration hearing (POW#1), writing a letter of support to the housing office (POW#3), helping a woman write her birth plan (POW#3), making shopping lists with a woman to help her spend her maternity grant and then going shopping with her (POW#4), going online to Gumtree/Freecycle [exchange websites] to advertise for cots or Moses baskets to give to the women (POW#4), or going to the police station with a woman whose family had been threatening and intimidating her since she announced her pregnancy (POW#6). The POWs recognised that although doing things for a woman or speaking in her behalf was sometimes necessary, there was a limit to the usefulness of this kind of support because it did not promote self-reliance: ‘I want to empower her, but sometimes I need to speak on her behalf too’ (POW#1); ‘We given them little tasks, so they don’t rely on you too much’ (POW#5).

**Informational support** is information provided during times of stress (Langford et al. 1997) and we identified four different types. The first was signposting, which involves identifying other agencies or individuals who can give the woman support. POW#1 said, ‘This phone can make a difference ... make links, make partnerships, do something where others don’t bother’. The second was navigating, which was using their knowledge of, often chaotic, public systems, such as housing and benefits, to help the women find their way through them and to chase up unresponsive organisations. The POWs developed familiarity with the systems through experience and sometimes coached the women about how to manage meetings: ‘remember to say you won’t have a place to live in less than 28 days’ (POW#3). The third was knowledge of the community, developed through time spent living and/or working in the local area, such as local media, reduced price furniture shops, churches and community groups. POW#1 told a newly arrived Christian client about a local church
and explained, ‘I understand how much community matters’. Fourth, POWs provided education/information to the women, such as entitlements to free milk, child tax credits, drug or alcohol use and specific training about weaning, healthy eating or parent craft. POW#4 described their role as ‘myth-busters’.

Context of support

Each woman was embedded in her spontaneous social network of family, friends and other contacts that she had developed over time (Antonucci and Akiyama 1987). The structure, content and connectedness of this network varied, but significant ties during the pregnancy rarely extended far beyond her home or the home of her parents or partner’s parents. One POW commented that, ‘it’s the newly arrived ones in the country that really engage, the ones that are born here have a network of support’ (POW#1). However, social ties are not always positive, and even those apparently surrounded by a partner (all cis-men within our observations), family and in-laws, could still be unsupported. There were cases of domestic violence (POW#1), bullying and intimidation by their own (POW#6) or their partner’s family (POW#3). Some partners were unhelpful and obstructive: we observed one man who kept turning the volume on the television up while his girlfriend, who was eight and a half months pregnant, was trying to make a phone call to housing because they were sleeping on the floor at a friend’s house (POW#1). Another who had been given a restraining order was harassing his ex-girlfriend with texts (POW#4). Others were abusive or had problematic relationships with family and in all these cases, there was significant isolation. POW#5 arranged to go shopping with a young woman to help her get used to the buggy and the woman commented, simply, that it was ‘nice to have the company’. There were also more positive examples of networks and, in general, working mothers tended to have much more extensive and supportive spontaneous social networks.
Social climate is the ‘character’ of the social environment (Holahan and Moos 1982). It fosters ‘social comparison, competence and the exchange of ... social support’ (Langford et al. 1997). Many of the women’s lives were chaotic and unstructured and the POWs had to be flexible. All the POWs would phone to confirm appointments with the women they supported because things would often change at the last minute. POW#1 explained ‘In this community our support is needed ... there is a gap, it is poverty, it means everything’. She gave the example of diet: ‘it is fine to say 5 a day but a handful of grapes, how much does that cost? They are sleeping on the floor. That is not their priority’. The social climate also influenced social practices, such as breastfeeding: ‘Women tend to do what their parents did’ (POW#3). POW#5 noted that there were strong cultural norms around not breastfeeding in her local area, which was predominantly White and poor; she found that breastfeeding was much higher in the South Asian populations.

Social structures include wider macro-political structures, such as class, patriarchy or racism, and institutional structures, such as the welfare or health systems. The POWs did not talk explicitly about the former very often, although they were implicit in many of the discussions of violence, family dynamics and poverty. Institutional structures, however, were immediate and central to the experiences of the women and the POWs that supported them and the benefits and housing systems particularly were very confusing (hence the need for informational support to navigate them). Access was constrained by poverty: one near-term pregnant woman was at risk of losing her chance for a house because she had to ‘bid’ on at least 3 properties a week but did not have internet access at home (POW#3). Another POW commented that although there were free phones at the Job Centre, if the women had not been paid, they did not have the bus fare to get there (POW#1). While the women were often dependent on the social care system (e.g. housing, tax credits and benefits available to low income and vulnerable groups) to pay for their homes, food and basic living
costs, they were relatively powerless within the system; POW#5 explained that it was good to be a ‘witness’ sometimes to meeting with agencies such as housing offices. For instance, one young woman she supported was dealing with someone at an agency who said that she had given the wrong National Insurance number, and ‘was all ready to accuse her of fraud’. POW#5 intervened and said, ‘No, I was in the room with her when she made that call and I know she gave the right number’; ‘Maybe it was the accent’, they agreed. The POW hinted at elements of racism and ageism in the interaction too.

*The ‘synthetic’ nature of the social support*

There were four characteristics to the social support given to the women that were ‘synthetic’ (i.e. different from more spontaneous, embedded forms of social support within women’s existing networks and had been constructed within the intervention): (i) it was non-reciprocal, (ii) it was strictly time-limited, (iii) POWs were accountable for the relationship and (iv) the social networks were targeted (rather than spontaneous). Reciprocity is an important element of social support (Langford et al. 1997) and providing support, as well as receiving it, has been shown to be beneficial for health (Brown, et al. 2003; Hether, et al. 2014). In the SSS provided by the POWs, there is little or no reciprocal element; the support flows in one direction (a directed tie), from POW to woman. This is not to say that the relationship did not have a positive impact on the POW: they were paid for the work; they described it as rewarding (‘It's about the women and I found it much more rewarding than I expected’ (POW#2)); and it was a chance to give something back to their communities (POW#1 had experienced depression and domestic violence in the past and commented when she was at the Children’s Centre, ‘they know me really well here ... I am who I am because of them’). However, during the observations we did not see any examples of the women providing support back to their POWs directly.
Social support within the context of a long-term social relationship is powerful: ‘Perhaps even deeper than support are the ways in which social relationships provide a basis for intimacy and attachment’ (Berkman, et al. 2000: 848). However, the relationship was time-limited due to the structure of the service and commissioning arrangements. They were able to contact the women only after they had been referred by a midwife, and they kept contact until six weeks after the baby had been born. Over the nine months that the POW relationship lasts, there is some opportunity for development of understanding and deepening of trust. The POWs get to know the women and are able to observe changes over time (POW#3, for instance, noted how a woman’s relationship with her partner had significantly improved since he had got a job). This potentially enables the POWs to provide more effective emotional and appraisal support and to have a better understanding of instrumental/informational support needs. The length of the relationship gives them more authority in intervening on behalf of the women. POW#1 was speaking to a housing charity and said, ‘[what] if the baby is born here on the floor... They can’t rent ... I know them, I’ve spoken to them almost every day, I know they aren’t working, they don’t have any money’. However, the end of the relationship can be stressful especially when the POW perceives that the woman is in need of continued support (POW#3).

The POWs were accountable for the relationship to their managers and ultimately the commissioner of the service, therefore a reliable source of support for the women even if other aspects of their lives were more ‘chaotic’. The POWs were closely managed and required to fill in paperwork, described above, at every contact with the woman and for every task they carried out in relation to that woman. Each POW had to undertake data entry in the office after meeting with the women they supported and these records were checked regularly by their managers (and the trial team). The POWs largely accepted that this was a reasonable part of their job, although during our observations
the POWs often show some resistance by mentioning the pressures of meeting their ‘targets’ and asserting even at the early stages of the design of the qualitative study that their everyday work involved more than could be captured in the documentation. POW#2 explained that it was important to remember ‘these are not your friends’ and that ‘we’re here to offer a good service’. She tellingly noted that, ‘people only help other people that they like in life, but that is not the situation here’ (POW#2). Whatever else is going on in the woman’s life, the support of the POW can be counted on and even if a woman disengages, she can re-engage with the service at any time. These sorts of guarantees are not available in spontaneous friendships.

The POWs themselves were a key part of the women’s social network during the pregnancy and often attempted to offer balance or an outlet for the women whose spontaneous social networks were having a negative impact on them. In some cases they tried to arrange to meet some of the women outside their home (POW#5), or offered appraisal support (see above) in an attempt to reconfigure social ‘norms’ for them and raise their expectations. POW#5 reflected, ‘there is only so much you can do for people, you can see the potential, but the environment they are in...’ In a few cases, we observed attempts to build new, more positive social networks for the women. POW#5 for instance took one of her clients to a local ‘Bumps-to-Babies’ group and introduced her to another client, attending herself a few times to ‘make sure she is engaged with it’. The POWs also ran group sessions, on healthy eating, smoking cessation and parentcraft, where women had the opportunity to meet others in their local area.

**Discussion: the promise and limits of synthetic social support**

We have documented and analysed the ways in which synthetic social support is provided in the context of maternity care. First, we sub-divided SSS into emotional, appraisal, instrumental and informational support for analytic clarity in line with the existing literature, although these groupings
are not intended to be seen as mutually exclusive. Emotional support is valuable in all healthcare, including maternity (Tarkka and Paunonen 1996) and the existence of emotional support appears to have a protective effect for postnatal depression (Milgrom, et al. 2008). Appraisal support may nurture one’s ability to cope (Cohen and McKay 1984) and is related to self-efficacy because it can aid someone in doing something for themselves or deciding their own next steps, rather than simply being told what to do, or having someone do it for them. Instrumental support can secure resources for an individual, when they are unable to do it for themselves (Bloom 1990). Dennis (2003) notes that in peer support interventions instrumental support is rarely present, so this may be a key difference between peer support and that of trained lay workers. It has been shown that non-professionals can deliver health promotion information although it is not clear whether they do more or less effectively than health professionals (Johnson, et al. 2000). Other concepts may link into SSS, and this deserves further research attention. For instance, the POWs talked a lot about ‘empowerment’. They saw instrumental support as counterproductive in attempts to empower their clients, but appraisal support could be helpful to help women articulate their goals and regularly review them.

Second, we explored the ways in which social support in this context (as an ‘intervention’) is different from spontaneous or natural forms of social support that are predominantly documented in the literature. We conceptualised this as ‘synthetic’ social support and highlighted its limitations and potential benefits for achieving policy outcomes (such as reducing poor maternity outcomes in deprived communities). The women do not get the psychological benefit of supporting the POW reciprocally (Brown, et al. 2003; Hogan, et al. 2002; Schwartz and Sendor 1999) and the time-limited nature of the intervention means that the support is not enduring. The reciprocity in social support is important because it means that the ‘receiver’ of support can also sometimes be the ‘giver’, which builds self-esteem and a sense of worth and powerfulness (Cohen 1988). Lifecourse models of social
networks have demonstrated the benefits of support that endures over time (Antonucci and Akiyama 1987).

The two other ‘synthetic’ characteristics of the support are more promising in terms of their potential health effects, and it has been shown that quality/function is important as well as quantity/structure when it comes to the health benefits of social networks (Aartsen, et al. 2017; Windsor, et al. 2015). First, POWs were accountable for the relationship to their managers and ultimately the commissioners of the service which meant that the women had a reliable source of social support and information throughout their pregnancy whatever happens in their lives. Second, the POWs were able to introduce the women in a targeted way to others that they may not have encountered without the intervention. This may lead to strong ties (close relationships with frequent contact), such as other mothers with whom they might build lasting friendships outside their family networks, or weak ties (more distant connections with infrequent contact), such as people in local services who may be able to offer support or advice after the intervention had finished. Weak ties (Granovetter 1973) give access to information and insights from different fields of practice and so are crucial to enabling change. We did not observe this happening particularly frequently in our study as most of the support was provided one-to-one; however, a service may be more effective if it could work to develop these new networks (Dennis 2003) so that when the service is withdrawn, the women still have more support than they did before.

To further understand the potential value of synthetic social support as a policy intervention, it is vital to understand that its deployment through the everyday practice of LHWs is embedded in social networks, and the social context and the structure of those networks matter as well as their support function. Infant and maternal health outcomes are linked to deprivation, migration, age, ethnicity and other social factors (Arntzen and Andersen 2004; Hertz, et al. 1994; Hummer 1993). In the full
sociological picture, lack of social support is a ‘downstream’ (Berkman, et al. 2000) aspect of what is going on for pregnant women with ‘social risk’. Providing SSS does not have any significant impact on the ‘upstream’ inequalities and structures that are causing the problem in the first place (Marmot 2010). It is likely that, at best, SSS could have a protective effect on the individuals that received it, but it is unlikely to significantly influence health inequalities (Netherwood 2007; Trayers and Lawlor 2007). In short, SSS as a solution to poor health outcomes can only tackle structural inequality in a partial way.

Interventions must be matched to need (Hogan et al. 2002), but perceived need depends on the perspective of the analyst. Mismatch between the goals of LHW interventions and their actual likely effect can partly be explained through the political dominance of neo-liberal policies, that emphasize individual responsibility and targeting rather than structural change, and the dominance of the biomedical model in commissioning for health and wellbeing even at a community/population level (Starr 2009; Teutsch and Fielding 2013; Watt 2007). The POW service was partly evaluated on the basis of whether it improved antenatal attendance which in turn was expected to improve maternal/infant outcomes. While it is widely accepted that there is a relationship between attendance and maternal/infant outcomes (although not universally (Oakley 1992)), to perceive the attendance in itself as crucial is very medico-centric. It is likely to be an indicator of other social inequalities, such as poor housing, low income, harmful social relationships (e.g. prejudice, isolation, abuse) or poor psychological states (Allen, et al. 2014; Exworthy, et al. 2003; Marmot, et al. 2012).

In this study, we have documented and analysed the kind of social support given to women with high social risk expecting their first baby, by paid LHWs. Rather than relying on workers’ accounts of their daily activities, we chose to collect observational data of action-in-context. During analysis we engaged with existing literature to improve analytic generalisation. We have demonstrated that,
using (qualitative) methods that focus on close examination of everyday practices, is possible to move beyond identifying complex interventions as ‘black boxes’ in effectiveness studies and to be able to theorize them.

However, there are limits to the study. Methodologically, we did not explore what the social support meant to the women who received it because our focus was on the ‘work’ of the POWs, but this would be a useful complement to help understand the potential impact of the intervention. Related to this, it is possible that our use of observational methods may have meant we missed cases of difficult, unhelpful or judgemental interactions between women and their POWs as our presence may have influenced behaviour. There are also methodological limitations from the use of volunteer POWs who may differ from their peers who did not volunteer to be shadowed.

Conceptually, it would be useful to test the validity of SSS as an explanatory concept for everyday working practices in other lay social support interventions, such as youth or drug and alcohol services. Social support interventions can be (1) group vs. individual, (2) professionally-led vs. peer-provided, (3) focused on increasing network size vs. building social skills to facilitate support creation (Hogan et al. 2002) and so there may be elements which are not transferable (Polit and Beck 2010). It may be that there are degrees to which social support is ‘synthetic’.

**Concluding remarks**

The ‘promise’ of lay health workers to deliver improvements in health outcomes and reduction in health inequalities at low cost may be unrealistic, but that does not mean that they are without value in the system. Synthetic social support is not durable or reciprocal and therefore may not have the same health protecting effects as forms of social support embedded in spontaneous social networks. SSS is also a ‘downstream’ intervention that even if it has some health protective or promoting effect, does not tackle the underlying causes of inequality in health outcomes. The data
clearly showed that women’s social circumstances and poverty exerted huge constraints on their
daily lives in ways that were beyond the gift of the POWs to ameliorate. However, from our
observations many of the women seemed to value their relationship with their POW and the POWs
worked hard to support those women, where often they had few other sources of social support.
The accountability of the POWs in the relationship, their ability to provide reliable information, and
the potential for them to introduce the women to new relationships outside their spontaneous
social networks (both in terms of strong and weak ties) could potentially have important beneficial
effects. Policy makers and commissioners should (a) be clear about the outcomes they want to
achieve by using LHWs, (b) ensure an appropriate balance of the different types of support to meet
the identified needs of the target population and the flexibility to adapt this for individuals, (c)
enhance the potentially positive ‘synthetic’ effects of SSS (building new positive networks to
enhance social climate and ensuring accountability and reliability of support) and (d) should evaluate
accordingly considering context, process and outcomes.

References

Aartsen, Marja, Marijke Veenstra, and Thomas Hansen
2017 Social pathways to health: On the mediating role of the social network in the
Adam, Barbara, Ulrich Beck, and Joost Van Loon
Allen, Jessica, et al.
2014 Social determinants of mental health. International Review of Psychiatry 26(4):392-
407.
Alvarez, Elena Carrillo, Ichiro Kawachi, and Jordi Riera Romani
2017 Family social capital and health – a systematic review and redirection. Sociology of
Health & Illness 39(1):5-29.
Antonucci, Toni C, and Hiroko Akiyama
1987 Social networks in adult life and a preliminary examination of the convoy model.
Journal of Gerontology 42(S):519-527.
Arntzen, Annett, and Anne Marie Nybo Andersen

Bartkowiak-Theron, Isabelle, and Jennifer Robyn Sappey


Beck, Ulrich


—


Berkman, Lisa F., et al.


Bevan, Gwyn, and Christopher Hood


Bloom, Joan R


Bonner, Ann, and Annette Walker


Brown, Stephanie L, et al.


Chamberlain, John Martyn


Charmaz, Kathy


Christakis, Nicholas A., and James H. Fowler


Cohen, Sheldon

1988 Psychosocial models of the role of social support in the etiology of physical disease. Health Psychology 7(3):269.

Cohen, Sheldon, and Garth McKay


Coll-Planas, Laura, et al.


Collins, Nancy L, et al.
Dadich, Ann, Karen R Fisher, and Kristy Muir

2013 How can non-clinical case management complement clinical support for people with chronic mental illness residing in the community? Psychology, health & medicine 18(4):482-489.
Dennis, Cindy-Lee

Department of Health

2004 Choosing health: Making healthy choices easier. London: HMSO.,
DH

Diefenbach, Thomas

2009 Are case studies more than sophisticated storytelling?: Methodological problems of qualitative empirical research mainly based on semi-structured interviews. Quality & Quantity 43(6):875-894.

Durkheim, Emile

Exworthy, Mark, David Blane, and Michael Marmot

Feldman, Pamela J, et al.

Finn, L, et al.

Gale, Nicola, et al.

Giddens, Anthony

Gilmore, Brynne, and Eilish McAuliffe

Glaser, Barney G, and Anselm L. Strauss

Goldkuhl, Göran, and Stefan Cronholm  
2010  Adding Theoretical Grounding to Grounded Theory: Toward Multi-Grounded Theory.  
International journal of qualitative methods 9(2).

Granovetter, Mark  

Gray, Benjamin  

Hertz, Erica, James R Hebert, and Joan Landon  

Hether, Heather J., Sheila T. Murphy, and Thomas W. Valente  

Hetherington, Erin, et al.  

Hochschild, Arlie Russell  
1983  The Managed Heart: Commercialization of Human Feeling.

Hogan, Brenda E, Wolfgang Linden, and Bahman Najarian  

Holahan, Charles J., and Rudolf H Moos  

Horlick-Jones, Tom  

Hull, Elizabeth  

Hummer, Robert A  

Jack, Helen E, et al.  

Johnson, Zac, et al.  

Kozhimannil, Katy B., et al.

Langford, Catherine Penny Hinson, et al.


Lewin, SA, et al.


Lincoln, Y.S., and E.G. Guba


Lupton, Deborah, and John Tulloch


Ma, Jian, et al.


Malcarney, Mary-Beth, et al.


Marmot, Michael


Marmot, Michael, et al.


Mathers, Jonathan, Rebecca Taylor, and Jayne Parry

2016 Measuring the impact of Health Trainers Services on health and health inequalities: does the service’s data collection and reporting system provide reliable information? Journal of Public Health.

McDonald, Seonaidh


Merton, Robert K.


Milgrom, Jeannette, et al.


Mirabzadeh, Arash, et al.


Morikawa, Mako, et al.


Netherwood, Maggie
Oakley, Ann

Owczarzak, Jill, Michelle Broaddus, and Steven Pinkerton

Perry, B. L., E. Pullen, and B. A. Pescosolido

2016  At the intersection of lay and professional social networks: how community ties shape perceptions of mental health treatment providers. Global Mental Health 3.
Perry, Henry B, Rose Zulliger, and Michael M Rogers

Pescosolido, Bernice A, Eric R Wright, and William Patrick Sullivan

Petersen, Alan, and Deborah Lupton

Polit, DF, and CT Beck

Popay, Jennie, Anne Rogers, and Gareth Williams

1998  Rationale and standards for the systematic review of qualitative literature in health services research. Qualitative Health Research 8(3):341-351.
Pope, Catherine

Power, Michael, ed.

Pratt, Michael G

2009  From the editors: For the lack of a boilerplate: Tips on writing up (and reviewing) qualitative research. Academy of management journal 52(5):856-862.
Quinlan, Elizabeth

Rhodes, Scott D, et al.

Ross, Shilpa, Natasha Curry, and Nick Goodwin

2011  Case management: what it is and how it can best be implemented. The King’s Fund.
Rowe, Alexander K, et al.

RSPH

32
Rethinking the Public Health Workforce. Royal Society for Public Health.
Saldaña, Johnny

Schwartz, Carolyn E, and Rabbi Meir Sendor

Singh, Prabhjot, and Dave A Chokshi

Singh, Prabhjot, and Jeffrey D Sachs

Starr, Paul

Tarkka, Marja-Terttu, and Manta Paunonen

Teutsch, Steven M, and Jonathan E Fielding

Trayers, Tanya, and Debbie A. Lawlor

Uchino, Bert N., et al.

2012 Psychological pathways linking social support to health outcomes: A visit with the “ghosts” of research past, present, and future. Social Science & Medicine 74(7):949-957.
Veltkamp, Gerlieke, and Patrick Brown

2017 The everyday risk work of Dutch child-healthcare professionals: Inferring ‘safe’ and ‘good’ parenting through trust, as mediated by a lens of gender and class. Sociology of Health & Illness:n/a-n/a.
Watt, Richard Geddie

White, Ann Marie, et al.

Wibberley, Gemma

2013 The problems of a ‘dirty workplace’in domiciliary care. Health & place.
Williams, Philippa, Lesley Barclay, and Virginia Schmied

Windsor, Tim D., et al.

WMPI

2007 Reducing Perinatal Mortality Project (HOB PCT data) [http://www.perinatal.nhs.uk].
West Midlands Perinatal Institute.
Analysis during data collection

- On-site fieldnotes (of observation and informal conversations)
- Detailed fieldnotes with reflection, off-site, immediately after observations
- Notes from debrief meetings, off-site
- Informal discussions on emerging ideas with participants, on-site

Description of data

- Independent, open, descriptive (1st cycle) coding of all detailed field notes by two researchers
- Coding compared and contrasted and single analytical framework (of 69 codes in 8 categories) designed [analytic framework available on request]
- All data indexed using this framework
- Data summarized and charted into a Framework matrix

Member check

- Summary of data collected presented to a group of some of the study participants, their managers and other members of their team who had not directly participated in the study for their comment and feedback
- Minor changes made to the analytical framework and descriptive analysis

Interpretation of data

- Brainstorming session with full research team to revisit original research aim and to identify potentially useful theoretical literature
- Development of an analytic framework drawing on theoretical and empirical literature on ‘social support’ (2nd cycle coding) [available on request]
- Indexing of all data using this framework and charting summaries of data into a matrix
- Discussion and debate about these data; provisional concept of ‘synthetic social support’ (SSS) coined

Final analysis

- Search of the literature to identify if any similar concepts already existed
- Writing analytic memos around components of SSS, illustrating it with indicative data from the study
- Consideration of the analytic generalisability of SSS

Figure 1: An overview of data analysis
At first antenatal appointment, midwife assesses for presence of risk factors.

Yes: Research midwife informs woman of trial and requests consent to participate in the trial.

No: Woman receives standard maternity care.

Yes: Woman is randomized to intervention arm or standard maternity care.

No: Woman is referred to the POW service and allocated a POW in addition to standard care.

Figure 2: Women’s pathway to Pregnancy Outreach Service
### Social Risks
- UK resident for under a year
- Difficulty with the English language, both spoken and written
- No support from either partner or family or friends
- Woman/household member in receipt of social services support, including child protection
- Identified benefit problem
- Teen parent (under 20 years old)
- Domestic abuse
- Housing problems, such as rent arrears, temporary accommodation, registered with National Asylum Support Service (NASS) or of No Fixed Abode (NFA)

### Health Risks
- Smoking
- Drug misuse, including others in the household
- Alcohol misuse
- Clinical diagnosis of past or present mental illness
- BMI ≤18 or ≥35
- Late booking (defined as booking after 18 weeks gestation)
- DNA (Did Not Attend) 2 or more antenatal appointments (under 28 weeks gestation)

Figure 3: List of risk factors that would trigger a referral by the midwife to the POW service
Research highlights

- Lay health workers (LHW) are an increasing important part of international health systems
- Theorizing their work as synthetic social support (SSS) helps to critically evaluate them
- SSS is a downstream intervention and the support is non-reciprocal and time-limited
- Theoretically SSS has potential benefits in managing health risk in communities
- SSS is targeted and LHWs are accountable offering benefits over spontaneous networks