OPEN LETTER

Social prescribing for autistic people: A framework for service provision [version 1; peer review: 2 approved with reservations]

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Abstract
Social Prescribing (SP) is the referral of patients to non-clinical services for practical, physical or psychosocial support. Recent guidelines from the National Health Service England mean that SP will become commonplace for people with complex healthcare needs. Autistic adults make up 1% of the population and commonly have co-existing physical and mental health conditions, therefore they are likely to be referred to SP services. As yet, no studies have examined the efficacy of SP for autistic adults. In this letter, we review the existing literature examining the efficacy of SP in the general population. We further examine the factors that should be considered when offering SP to autistic adults in order to optimise outcomes.

Keywords
Social prescribing, autism, complex health, personalised care

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Competing interests: Amanda Roestorf is founder and director of Autism Awareness Ltd, a private organisation that provides CPD certified autism training for professionals and service providers who support autistic people. Chris Torry is a founding member of Autistic Community Brighton, who are a peer led group who organise events for autistic people, led by autistic people.

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Introduction
General statement
In January 2019, the National Health Service England (NHSE) launched a long-term plan for Universal Personalised Care (NHSE, 2019a; NHS England, 2019b; NHS England, 2019c). Universal Personalised Care aims to give people choices regarding their care, focusing on individual priorities and integrated approaches to better support individuals with multiple or complex health conditions. Social Prescribing (SP) is one crucial aspect of The Comprehensive Model of Universal Personalised Care that has been emphasised both by NHSE and by the Royal College of General Practitioners (NHSE, 2019a; Royal College of General Practitioners, 2018).

SP is the process by which health professionals refer patients to a range of non-clinical, community services. SP services and activities can include advocacy (support to access services such as housing or debt advice or to organise everyday activities), hobby activities (e.g. art, music or DIY), physical exercise, or psychosocial support groups. SP is intended to support but not replace formal healthcare resources such as psychiatric support and medical treatment. Under NHSE guidelines, SP is coordinated by a Link Worker. Usually, Link Workers are attached to general practice and may receive referrals from both the general practice and other external agencies. Their role is to connect people to community groups and agencies for practical and emotional support, and healthcare professionals when required (NHS England, 2019a). One study suggested that the Link Worker role is crucial to SP success, to help service users develop greater resilience, self-confidence and overall improved physical and mental health, whilst also reducing social isolation and risk of health-related relapse (Moffatt et al., 2017). In 2019, NHSE committed to recruiting 1,000 Link Workers by 2020/21 to support SP in primary healthcare settings (NHSE, 2019b, p. 25).

This paper will examine the factors affecting service provision for autistic1 people, describe potential barriers and gateways, and provide recommendations for supporting SP for autistic adults.

Importance and thesis statement
At least 1% of the general population is autistic (Baird et al., 2006; Brugha et al., 2016), meaning that in 2019, there are an estimated 660,000 autistic people in the UK. Autism is a lifelong condition often identified in childhood, although a diagnosis can occur later in the life-course ( Happé & Charlton, 2012). The core diagnostic criteria of autism include difficulties with social communication and repetitive behaviours and restricted interests (American Psychiatric Association, 2013). Social communication broadly describes how individuals interact with one another.

Generally speaking, autistic people may have difficulties in processing verbal and non-verbal social communication, and in initiating, maintaining and navigating social communication. Executive function difficulties and sensory sensitivities are also common (Kenny et al., 2019; Lane et al., 2010).

Autism is a complex multi-faceted condition, with commonly co-occurring psychiatric, neurological and physical conditions (Bishop-Fitzpatrick & Rubenstein, 2019; Joshi et al., 2013; Lever & Geurts, 2016). Notably, rates of anxiety and depression are higher amongst autistic people than in the general population (Hudson et al., 2019; Lai et al., 2020). Recent research suggests that autistic people are at increased risk for many physical health conditions including cardiovascular disease, metabolic disorders, endocrine and immune conditions, and gastrointestinal disorders (Croen et al., 2015; Jones et al., 2015). Moreover, comorbid mental and physical health conditions have been shown to impact the quality of life of autistic people (Mason et al., 2018).

As autistic people often have multiple co-occurring physical and mental health conditions, they are likely to be amongst those referred to SP. However, very little is known about SP for autistic people - for example, it is unclear whether autistic people will benefit from such services, and what service characteristics might promote engagement and eventual “good outcomes”. Further, we do not know whether services can self-monitor and adapt to the needs of autistic service users, and how they might incrementally improve the outcomes achieved.

SP in the general population: evaluations and access
There is anecdotal evidence that SP may be successful for a diverse range of (non-autistic) individuals but as yet there are few large scale independently-monitored trials that provide robust evidence for its efficacy. One randomised controlled trial of patients identified by their General Practitioner (GP) as having psychosocial problems demonstrated significant improvements in client levels of anxiety, general health, quality of life, and their ability to carry out everyday activities, but found no significant changes in depression or perceived social support (Grant et al., 2000). Two further qualitative studies describe widespread benefits to clients with long-term health conditions (Moffatt et al., 2017) and with mental health problems (Stickley & Hui, 2012). However, a recent systematic review of SP states that while there is no clear evidence that SP is ineffective, there is also little evidence for its efficacy (Bickerdike et al., 2017). The lack of clear conclusions in that review is due to both the small number of systematic studies published and the diversity of outcome measures reported (Bickerdike et al., 2017).

There is some evidence for efficacy. A scoping review suggests that SP is effective for improving patient outcomes (Thomson et al., 2015), and studies suggest it is cost-effective (Kimberlee, 2016; Polley et al., 2017). Additionally, several service evaluations have been performed utilising both quantitative and qualitative data and describe generally positive responses to SP (Dayson & Bennett, 2016a; Dayson & Bennett, 2016b; Dayson et al., 2016; Kimberlee, 2013; Rose et al., 2018). These evaluations describe beneficial outcomes in social, psychological, and employment domains, and improvements in physical health.

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1 In this article, we use ‘identify-first’ language (i.e. ‘autistic person’) rather than person-first language (i.e. ‘person with autism’), because it is the preferred term of autistic activists (e.g., Sinclair, 1999) and many autistic people and their families (Kenny et al., 2016) and is less associated with stigma (Gernsbacher, 2017).
behaviours; however, the mechanisms underlying the positive effects of SP are unclear. See Rates of uptake section below for evaluation details. However, the scoping review also identified diverse measures of outcomes following SP, including anxiety, depression, social isolation, exercise level and cost (Thomson et al., 2015). This diversity reflects the aims of SP services, the conditions or characteristics of individuals or client groups, and individual differences in desired outcomes. The most commonly assessed outcomes across 35 schemes were based on well-being (including mental well-being, n=4; and psychological well-being, which reflects anxiety and depression symptoms, n=4). The lack of a holistic or consistent measure of wellbeing, participation, or quality of life limits comparisons across studies. An appropriate way of measuring outcomes which will be comparable across individuals and services, may be to measure how well people feel they have moved towards their goals, thus enabling us to reflect individual differences in goal setting.

Despite there being relatively little research evaluating SP, many of the activities under this banner have long been used as interventions by charities and community organisations. Gardening clubs, exercise groups, art classes and choirs are often used to increase individual well-being, community engagement and social support. Such activities are often designed for specific groups by organisations aiming to support those groups; for example, older adults, people with addiction and/or mental health problems, carers, new mothers, etc. (Wilson & Booth, 2015). While there is some research examining the efficacy of these individual activities (Clatworthy et al., 2013; Dingle et al., 2013), there are key differences between individual activities and SP more broadly. Firstly, routes to accessing these services might be formalised under SP and the effect of having a “prescription” for a defined activity, for a specified duration may impact uptake and maintenance. Secondly, a broader range of activities may be available via NHS SP, perhaps providing a better “fit” between patient and activity (for example, some organisations may specifically consider the impact of involvement in music but not offer support with functional skills, such as organising bills). Thirdly, activities may currently be offered to individuals with a certain characteristic (e.g., people with dementia, autistic people, etc.), whereas Link Workers may identify suitable services more generally. So far, current funding for SP seems focused on the recruitment of Link Workers to direct patients to appropriate existing services, impacting referral routes without funding for services themselves. The potential impact of increased referrals and more diverse patients to specific services is likely to affect existing service providers’ ability to meet the needs of referred people, the availability of services offered and may raise issues related to staffing and resources.

Despite a broadly positive view from the small number of published papers and organisational reports, important limitations should also be noted. A recent systematic review of SP highlights that there is currently insufficient evidence to judge the success or value for money of SP (Bickerdike et al., 2017). The lack of clear conclusions from the review is due to the small number of systematic studies published and the heterogeneity of outcome measures reported (Bickerdike et al., 2017). Furthermore, it is unclear what SP “dose” (frequency, duration and total number of sessions) will be effective. Any evidence produced must be compelling for those commissioning SP and be seen to meet their goals (Baker & Irving, 2016). Further issues are described below.

Rates of uptake
Although SP has the potential to be beneficial for a wide range of people, successful implementation requires high levels of uptake and adherence among those who are prescribed social activities. There is no guarantee that individuals will be receptive to the services being offered for a variety of reasons, including the content of the activity, the practicalities of how and where it is delivered and how accessible it is to people with differing needs. The rates of uptake and adherence vary greatly across SP evaluations, as well as between clinical populations and providers. Among the general population (i.e., those with non-specific health difficulties), an evaluation in Doncaster reported uptake by 56% of those offered SP, whereas a similar service in Bristol reported uptake rates of 63–88% (Dayson & Bennett, 2016b; Kimberlee, 2013). Although differences in these rates may reflect the options available at each location, they are also likely to reflect differences in characteristics of those being referred to services (Bickerdike et al., 2017; Natural England, 2017). Evidence for the importance of the individual’s needs can be seen in evaluations from Rotherham, where uptake rates were 36% for individuals with long-term health conditions but 78% for individuals with secondary mental health problems (Dayson & Bennett, 2016a; Dayson et al., 2016). It is important to note that the metric describing success or engagement in SP differs across studies, making comparisons difficult. Engagement figures often only reflect the individuals who agree to the initial referral, and rates may be lower if metrics include all individuals considered for SP but either not referred or not attending initial appointments (Bickerdike et al., 2017).

General access issues
The factors that influence engagement are not clear and are likely to reflect both differences in service characteristics (what is available), provisions for access (physical location, accessibility, direct and indirect costs), as well as differences in client characteristics, interests, and needs. Many of these issues are similar for autistic people and a general population sample, therefore access issues will be described in detail in the subsequent section.

Service provision of SP for autistic adults
Service providers who work with autistic people need to demonstrate an understanding of the complexities of autism in everyday life and individual differences in interests, functional abilities and strengths/difficulties (Lai et al., 2020). Although some issues overlap with SP for the general population, some are specific to autism. It is therefore crucial that a basic level of autism awareness training is undertaken by Link Workers and services who provide for the needs of autistic service users (at least tier one of the Autism Capabilities Framework, Health Education England, 2019). Staff need to understand the wide range of autism symptoms and behaviour, that autistic people vary in their symptoms and needs, and to understand the
everyday impact of additional demands relating to common co-occurring conditions. Understanding the diverse sociality of autistic people, and how social relationships are built and sustained by autistic people must be taken into account within SP settings. Successful SP services are likely to be those which enable autistic people to feel empowered, communicate their needs, and establish and maintain social relationships at their level of preference. SP services that take account of individual strengths and difficulties are more likely to effectively support autistic people across the lifespan and, therefore, deliver more long-term benefit (NICE, 2019). A factor to be considered will be the availability of SP provision. Autistic adults are most likely to be referred to existing services that support a wide range of people (e.g. a general walking group) or target people with a specific need (e.g. singing for older adults), rather than autism-specific services. However, services unfamiliar with autistic people may need to make adjustments in order to succeed.

Common co-occurring factors that impact daily life for autistic people are sensory sensitivities (Lane et al., 2010), anxiety and depression (Hudson et al., 2019; La et al., 2020), and difficulties in some aspects of executive function (Kenny et al., 2019). Executive function is an umbrella term that describes goal-orientated behaviours such as planning, organisation and flexible thinking (Gioia et al., 2002). Executive function difficulties impact a range of everyday abilities, such as structuring activities and completing everyday tasks (e.g. planning and organising time, switching attention between tasks, etc). Moreover, executive function difficulties related to differences in processing information are often related to patterns of repetitive behaviours in autism. Hypo- or hyper-sensitivity (arousal) to sensory input (e.g. stark lighting, loud noise, etc) may manifest as an aversion to or avoidance of overwhelming sensory stimuli, or sensory-seeking behaviours, such as hand-rubbing or tapping. In social situations, autistic people may use compensatory strategies to mask these sensory-related repetitive behaviours (Livingston & Happe, 2017). “Masking” of autistic behaviours is related to significant mental distress, including depression (Cage et al., 2018) and suicidality (Cassidy et al., 2018) which may exacerbate existing high rates of co-occurring mental health conditions in autism (Hull et al., 2017).

Referral
A complex interplay of individual- and systemic-level barriers currently significantly reduce healthcare access for autistic people, which in turn could negatively impact access to SP (Nicolaidis et al., 2015). For instance, complex planning and communication are required to make appointments and navigate the healthcare system. Even making an appointment may present a barrier to autistic people due to difficulties using the phone (Benford & Standen, 2009), and appointments are often too short to accommodate communication needs (Raymaker et al., 2017). Executive function difficulties are likely to further increase functional difficulties in planning, understanding and following complex instructions, and translating medical information into practical, achievable goals (Landa & Goldberg, 2005; Raymaker et al., 2017). The sensory environment of clinics may cause significant discomfort to autistic people and impact their ability to communicate well or make tests and screenings difficult (Raymaker et al., 2017). Autistic adults may have difficulty in communicating their concerns to clinicians. However, clinician knowledge of autism, particularly in adulthood and for those with co-occurring mental health conditions, is generally low (Camm-Croesbie et al., 2019; Dern & Sappock, 2016; Raymaker et al., 2017). Moreover, the stigma associated with autism (Nicolaidis et al., 2015) and incorrect assumptions that autistic people do not want social interaction with others (Jaswal & Akhtar, 2019) may result in clinicians assuming that autistic adults may not benefit from SP, directly impacting SP referral options.

Whilst SP is a promising intervention for autistic people, providers should take account of all we have learnt from the challenges autistic people experience when accessing a ‘one size fits all’ model of health care. Due to previous negative experiences in healthcare settings, some autistic adults may not seek referral or support via their GP, and therefore SP for autistic people may be best provided through existing autism support services. Autism training for healthcare staff, including Link Workers should focus on the attitudes, skills and environment required to provide effective healthcare to autistic people (Nicolaidis et al., 2015), and should adhere to at least tier one of the Autism Capabilities Framework (Health Education England, 2019). Autism-knowledgeable Link Workers should manage a referral that fits the need of the autistic person and enables them to access SP services prescribed by overcoming practical or communicative barriers. There is a growing awareness that autistic-led organisations and groups can provide exceptional support in an environment that many autistic individuals find comfortable. Where possible, signposting to or integrating with an existing advocacy service (whether specific to autistic individuals or related to a specific mental health issue) may provide the best outcomes and cost-benefit scenarios.

Identifying a regular or routine activity or type of support that an individual can engage with positively is a vital initial step. For an autistic person, selecting an activity may require additional consideration of sensory or physical issues; for example, it may be unsuitable to refer someone highly sensitive to sounds to an orchestra programme. An open discussion with each individual about their likes, dislikes and sensory issues before referrals may reduce attrition. Good practice would be to systematically ask people about any sensory issues or routinely utilise an existing sensory questionnaire (e.g., The Glasgow Sensory Questionnaire is freely available; see Robertson & Simmons, 2013).

An effective referral could be facilitated by a ‘service passport’, which may be especially useful for autistic people with complex health profiles. This could be a simple document designed to support autistic individuals when accessing health and social care services who have difficulties advocating for themselves. The resulting information would provide a summary of co-existing diagnoses and related conditions or difficulties associated with autism, such as sensory sensitivities, motor function limitations, basic cognitive difficulties and issues related to social communication. A service passport could help customise SP referrals.
to services that are appropriate to the autistic person, in line with their individual needs. It would also potentially facilitate a method of reviewing the efficacy of services provided or highlight the need for referrals back into primary care settings, as required. Guidelines for service assessments exist such as those by the South-West Yorkshire NHS Trust. Although the checklists referred to here suggest that they should be completed individually and with pen and paper, it is important to be flexible in how information is collected and to cater to the preference of individual clients. These checklists can be administered as interviews in person or over the phone, or through a pen and paper response.

What is not yet clear, is how potential issues relating to successful or unsuccessful interventions will be managed in the early and later stages of SP provision. How many options will an individual have to choose from? How many attempts to find an appropriate intervention are acceptable? An additional issue may be if a person refuses SP due to either dissatisfaction with resources offered or difficulty engaging in a group activity. Many autistic people find group situations difficult, and the prospect of attending a group activity may be initially overwhelming even if over time activities become positive. One can easily imagine a scenario where an initial SP activity is unsuccessful for a range of reasons, due to physical or environmental demands being too great for an individual or group dynamics. In this scenario, the process for a change to the referred activity or the number of “attempts” an individual has to find a suitable intervention is not clear. A realistic view of NHS services suggests that opportunities will be limited, therefore there may be a punitive element associated with an unsuccessful referral, although those individuals most at risk for unsuccessful initial referrals may be those whose need is greatest.

Access
Understanding the potential environmental and individual factors that may make it difficult for autistic people to attend SP activities is vital to successful service provision. Difficulties with novel social interactions and anxiety when facing an unfamiliar environment and people may reduce the likelihood of attending initial contact visits. Initial appointments for accessing SP activities require executive function abilities (to prepare for and initiate attendance), social communication (interacting with new people), and overcoming anxiety to both attend and continue attending.

Prior to the first visit to any activity, clear guidelines about what to expect may help to reduce anxiety. Pre-visit support by the Link Worker should include a plain language information leaflet detailing what to expect, the schedule of events, and expectations about appointments. A description of the physical location of the session including photographs and a map or schematic of the location may also be included. It may be helpful for someone who knows the individual, either the SP Link Worker or a friend to accompany the referee for the first visit to help reduce anxiety and offer support if required. Additional information about the timeline of visits, number and frequency of sessions, planned interruptions (i.e. during holidays etc.), any transitions to new environments, activities or staff changes, or the end of the visits should be provided as soon as possible.

Once in attendance, the physical environment (lighting, noise, smell or other environmental factors) will be an obstacle for some autistic people due to common sensory sensitivities. Differences in sensory processing are commonly associated with autism, but the degree of sensitivity varies widely between autistic people. Specific difficulties can lead to ‘hyper-focusing’ or difficulties responding to relevant information, as well as avoidance behaviours, increased inflexibility, and ‘meltdown’ or ‘shutdown’ responses (Ashburner et al., 2013). Coping mechanisms for dealing with sensory difficulties are personal to the individual, but these difficulties can affect how the individual interacts with unpredictable environments (Ashburner et al., 2013). SP activities often occur in community settings where organisers have little control over the physical environment. Even within a setting with low sensory distractions, group activities may temporarily change the environment (e.g., increase noise-levels) leading to people becoming overwhelmed. Where possible, lighting should be adjustable and strip-lighting should be avoided. When this is not possible individual adjustments (e.g., use of shaded spectacles or sunglasses) should be encouraged and accepted. Likewise, the use of noise-cancelling headphones and other individual adjustments should be accommodated. Where possible, a quiet room or breakout room should be available. This does not need to be a large space but should simply be a room where individuals can take some time on their own to relax should an appointment become overwhelming.

Fellow clients in SP settings may be unfamiliar with autism, therefore acceptance of individual differences needs to be embedded within SP. One can easily imagine a scenario where an initial SP activity is unsuccessful due to group dynamics making an individual feel unwelcome despite efforts by staff. If autistic people feel that they must “mask” their true-selves or behaviours (e.g. repetitive behaviours) to blend into a social group, this may lead to heightened anxiety and reduce meaningful social interactions. Further, autistic people may want to be sociable but find it difficult to initiate interactions due to anxiety, social communication or executive function difficulties. Autistic self-advocates, autism charities and organisations working with autistic individuals can provide advice about developing and running services. Link workers and SP services can benefit by partnering with existing organisations who may have experience working with autistic adults and incorporating their advice and expertise. This partnering may lead to the most successful outcomes for minimal expenditure.

Setting goals and measuring outcomes
There is a lack of clarity in the optimum measure for achieving goals or SP “success”. What are the expectations of a Socially Prescribed activity (for the referrer or participant), and are these the same for all individuals? “Success” will likely differ for each individual, depending on the reason for initial referral. Well-being has been the most commonly assessed measure of SP success, but may not always be appropriate, either for the activity or the primary goal.
Due to this variability, it may be reasonable for each individual to set their own (realistic) goals with a Link Worker before referral, and to assess to what extent they have been achieved at set periods. Where longer-term goals are set, they may be achieved outside the timeframe of the SP and goals will need careful monitoring as they may change over time or follow a non-linear trajectory. Although this approach will lead to individual differences in goals themselves, there will be consistency in “achievement” ratings which may allow comparison across individuals, groups, and activities. This may also overcome limitations of measures not being suitable for use with autistic people. Of course, individuals are likely to differ in their rates of change or timeline for achieving their goals, and it will be important to allow for these differences in any measures of “success”.

There are also potential issues relating to the “success” of an activity or intervention. Presuming that an individual has achieved their goals, the NHS model would be to discharge an individual from accessing services. Indeed, discharge from services has been used as an outcome measure in previous evaluations (Dayson & Bennett, 2016a). SP activities are likely to support an individual in multiple ways, i.e., skill development, social support, assistance with physical and mental health, therefore the impact of removing this support by discharging from services is not clear. For autistic people in particular who may have a strong need for routines and structure, a sudden discharge from a regular service providing support may be detrimental to well-being and long-term outcomes. However, it is unrealistic to expect SP activities, many run by charities and community organisations, to be sustained without guaranteed financial support. There is a risk therefore, that successful SP may also create risks for its long-term viability.

Discussion
The provisions of NHSE’s Comprehensive Universal Person-alised Care will make SP a realistic and potential option for primary healthcare providers. There is some evidence that SP is effective for those with complex medical and psychiatric needs. However, there have been no systematic evaluations of the suitability of services for autistic people. Given that autistic people often experience multiple co-occurring physical and mental conditions, they are likely to be referred to SP services. For SP to have a meaningful impact for autistic people it needs to be effective, accessible, and acceptable. Autistic people have specific needs that may be difficult to incorporate into SP but could be accommodated with small and low-cost person-centred adjustments.

With SP being integrated into every General Practice in England, more robust and systematic measures of outcomes will be necessary for effective service evaluation. The way that the efficacy of SP is measured for autistic people may require additional consideration in line with autistic experience. Qualitative studies can explore the experiences of SP for autistic people and interrogate both barriers and facilitators for success. Using measures that are flexible to different individual goals, rather than an arbitrarily selected measure that is designed for use in the general population, will allow meaningful evaluation across different services and autistic people (Polley et al., 2017).

SP provides a real opportunity for positive impact with the autistic population. Social interaction may improve autistic people’s mental health (Cage et al., 2018; Mazurek, 2014) and facilitate physical activity (Pan, 2009). SP can provide a daily or weekly routine which may be beneficial for autistic people who may find this structure helpful. To make SP effective for autistic people, it must be tailored to their individual needs and incorporate their strengths. Systematic barriers for autistic people to routine healthcare need to be addressed, as do barriers to SP providers in order to maximise the equitability of these services and SP options. As SP becomes widespread across NHSE, research is required to evaluate the efficacy of SP generally and for autistic people specifically. As evidence accumulates it will be possible to develop guidelines for best practice for supporting autistic people to achieve their self-identified goals.

Data availability
No data are associated with this article.

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Kenneth Larsen
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Thank you for the opportunity to review this letter on Social prescribing for adults with Autism Spectrum Disorder. This is an important area of service provision were the scientific study is scarce (if any), and I commend the authors for bringing this topic to the scientific discussion.

The letter is clearly and accurately presented, and cite relevant literature as far as the topics discussed.

I have some comments that may be useful for the authors in further discussing this topic.

The autism-focus
The letter uses a large portion on discussing the efficacy of social prescribing in the general population, as stated later social prescribing needs to be tailored to the challenges of people with autism spectrum disorder. This makes me question whether this thorough review is necessary for this letter.

Autism Spectrum Disorders are as mentioned a heterogeneous condition, and I think the letter should in greater depth especially discuss the variation in adaptive behavior and cognitive level, and how this variation may be related to social prescribing.

The recommendation
The letter discusses challenges that may affect people with Autism Spectrum Disorders, and possible measures that may facilitate social prescribing. However this could preferable be more specific and detailed.

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Autism Spectrum Disorders, education, service delivery, early identification
I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

Reviewer Report 19 May 2020

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Laura Crane
Institute of Education, University College London, London, UK

Thank you for the opportunity to review this crucially important letter on social prescribing for autistic adults. I would like to commend the authors for submitting (what I believe to be) the first-ever academic publication on this topic.

In terms of the review criteria, the authors have done exceptionally well to outline the rationale for the letter, write in clear and accessible language, and use existing evidence to support their statements (all of which appear factually accurate).

Below, I have outlined some aspects that I hope will be useful for the authors in further strengthening this valuable contribution to the literature. With reference to the review criteria, these centre on making recommendations and next steps clearer for others to follow and providing more in-depth discussions of differing views and opinions.

1) The need to make the letter more consistently autism-specific
Currently, this letter is structured around two aims: (1) “reviewing the existing literature examining the efficacy of social prescribing in the general population”, and (2) “examining the factors that should be considered when offering SP to autistic adults in order to optimise outcomes”. I was not totally convinced of the need for aim one. The authors reference a systematic review on social prescribing by Bickerdike et al. (2017)¹ and none of the studies referenced in this letter seem to post-date this review. It may be more useful for the authors to start their letter by giving a short definition of social prescribing, before structuring the letter around different aspects of social prescribing (e.g., referral, access). Within each section, they could provide a very brief overview of what we know generally (i.e., what standard/good practice is) before largely focusing on how social prescribing services might need to adapt to better accommodate the needs of autistic adults. This would make the letter more focused and impactful.

2) The need for deeper discussions around broader issues
The authors do a good job of explaining the ways in which social prescribing might need to be adapted for autistic people, but I felt two key points needed to be addressed before this was discussed.
First, based on what we know from the available literature, is it likely that social prescribing would be useful for autistic adults? The authors imply that this is the case (“...SP is a promising intervention for autistic people...”), but there needs to be an evidence-base cited to support this assertion. As one example from my own work, there is initial evidence on the benefits of psychosocial support groups for autistic people (Crane et al., 2020)

Second, should there be autism-specific/autistic-led social prescribing services? I appreciate the authors noting how autistic adults are most likely to be referred to existing social prescribing services (rather than those specifically designed for autistic adults), yet this doesn't mean that this shouldn't be discussed and debated. The fascinating work on autistic-autistic/autistic-neurotypical interactions by Crompton et al. (2020) would be very relevant here, and might imply that service provision should, indeed, be autism-specific. And the aforementioned work on psychosocial support groups (Crane et al., 2020) suggests that it could benefit from being autistic-led too.

3) The need for more explicit recommendations and next steps
I was very much in agreement with the majority of the authors' recommendations for adapting social prescribing services for autistic adults. However, I did wonder whether these needed to be clearer and more explicit; at the end of each section and/or in the final discussion. There is a lot of information presented in the article, so drawing out the key priorities is really important. I was also surprised that there wasn't greater mention of the need to involve autistic people themselves in discussions about social prescribing (especially about service design and delivery). Previous work (e.g., Crane et al., 2019) has identified this as crucially important with regards to healthcare.

4) Other, minor suggestions
a) I would recommend that the title is edited to refer to ‘autistic adults’ rather than ‘autistic people’ (as children are not addressed within the review).

b) In the first paragraph of ‘Importance and thesis statement’, I think the paragraph could be ended after the APA (2013) citation. It is unclear why, for example, executive function difficulties and sensory sensitivities are mentioned – there are a wide range of autistic characteristics that could be mentioned here, and it perhaps makes more sense to give the diagnostic criteria for autism rather than selecting some autistic characteristics but not others.

c) I was unsure of the relevance of the paragraph starting “Common co-occurring factors that impact daily life for autistic people are...”. This descriptive information may be useful for those unfamiliar with autism, but should be better integrated within recommendations for social prescribing for autistic adults. I'm not sure how useful it is as a standalone section.

d) The recommendation on sensory questionnaires was very specific and it is unclear why a questionnaire for sensory sensitivities is mentioned, rather than getting broader information about the strengths/challenges that the individual experiences in a range of areas (as per most service ‘passports’ or ‘toolkits’).

e) Service passports were recommended, and I was surprised that the healthcare toolkit of the AASPIRE team (Nicolaidis et al., 2016) was not mentioned, given that this is one of the few with an established evidence-base behind it.
Conclusion
To conclude, social prescribing for autistic adults is a crucially important topic, and I believe that this letter has the potential to be not only well-cited, but also an essential resource for service providers in designing accessible, respectful and person-centred social prescribing services for autistic adults. I hope the authors find these comments helpful and that, more importantly, this letter becomes a catalyst for the development of research and practice on effective social prescribing services for autistic adults.

References

Competing Interests: I have cited two of my own papers in my review. Whilst I do not expect the authors to cite these in any revision of their work, they do seem very relevant to the topic of their letter.

Reviewer Expertise: autism, education, healthcare (diagnosis, mental health), participatory research

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.