Homelessness and people with intellectual disabilities: A systematic review of the international research evidence: Homelessness and people with intellectual disabilities


Published in:
Journal of Applied Research in Intellectual Disabilities

Document Version:
Peer reviewed version

Queen's University Belfast - Research Portal:
Link to publication record in Queen's University Belfast Research Portal

Publisher rights
Copyright 2020 Wiley. This work is made available online in accordance with the publisher's policies. Please refer to any applicable terms of use of the publisher.

General rights
Copyright for the publications made accessible via the Queen's University Belfast Research Portal is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy
The Research Portal is Queen's institutional repository that provides access to Queen's research output. Every effort has been made to ensure that content in the Research Portal does not infringe any person's rights, or applicable UK laws. If you discover content in the Research Portal that you believe breaches copyright or violates any law, please contact openaccess@qub.ac.uk.

Open Access
This research has been made openly available by Queen's academics and its Open Research team. We would love to hear how access to this research benefits you. – Share your feedback with us: http://go.qub.ac.uk/oa-feedback

Download date:11. Sep. 2023
Homelessness and people with intellectual disabilities: A systematic review of the international evidence

Michael Brown PhD RGN RNLD FHEA FRCN
Professor of Nursing, School of Nursing and Midwifery, Queen's University Belfast, Northern Ireland, United Kingdom
Email: m.j.brown@qub.ac.uk

Edward McCann PhD RN RPN RNT FHEA
Assistant Professor, School of Nursing and Midwifery, University of Dublin, Trinity College, Dublin, Ireland.
Email: mccanned@tcd.ie
Tel: +353 1 896 4161
Abstract

Background

People with intellectual disabilities can experience homelessness and some of the reasons differ from the general homeless population. Specific policy and practice responses are required.

Method

A systematic review of studies examining homelessness among people with intellectual disabilities utilizing CINAHL, MEDLINE, PsycINFO and Sociological Abstracts databases from inception to November 2019.

Results

The search produced 259 papers and following screening a total of 13 papers were included in the review. The themes identified were (i) pathways into homelessness, (ii) experiencing homelessness, and (iii) routes out of homelessness.

Conclusions

People with ID become homeless due to multifactorial issues. The identification of people within homeless services and their care and support concerns remains challenging, impacting upon the provision of assessments, interventions, care and supports. Psychosocial assessments, interventions and supports are necessary to assist people with ID to leave homelessness.

Keywords:

Homelessness, intellectual disabilities, social exclusion, stigma, health needs, supports
Homelessness and people with intellectual disabilities: A systematic review of the international research evidence

1 INTRODUCTION

There is a growing global focus and concern regarding the issue of homelessness. Homelessness involves living between shelters, in the homes of friends, on the streets, in emergency accommodation and in boarding houses without a private bathroom and security of tenure (Crisis, 2018). The World Health Organisation defines homelessness as living in housing that is below the minimum standard or lacks secure tenure (World Health Organisation, 2018). It is estimated that 150 million people are homeless world-wide, however exact prevalence remains difficult to determine (Busch-Geertsema, Culhane & Fitzpatrick, 2016; Bainbridge & Carrizales, 2017; Wilson, McCloughen, Parr & Jackson, 2019). Homeless people across age cohorts have been identified as experiencing poor self-reported health, increased access to health services and significant health-related needs (van Dongen, van Straaten, Wolf, Onwuteaka-Philipsen, van der Heide, Rietjens, & van de Mheen, 2019). The pathways into homelessness are multifactorial and include poverty, conflict with the law, unemployment, low income, reduction in income, evictions, relationship breakdown, serious illness and natural disasters (Piat, Polvere, Kirst, Voronka, Zabkiewicz, Plante, Isaak, Nolin, Nelson, G. & Goering, 2015; Levine, Proulx & Schwartz, 2018; McCann & Brown, 2019; Phipps, Dalton, Maxwell & Cleary, 2019). It has been estimated that 30-40% of homeless adults have a cognitive impairment, including people with intellectual disabilities (ID) (Spence, Stevens & Parks, 2004). In a systematic review focusing on homelessness and people with a range of cognitive impairments, the homeless groups identified were people with traumatic brain injury, learning difficulties, ID, autism spectrum disorder and attention deficit hyperactivity disorder. The review identified that across the cognitively impaired groups, there is inadequate recognition of co-occurring disorders and therefore the full extent of the needs,
highlighting the necessity for additional resources and support (Stone, Dowling & Cameron, 2019). The exact prevalence of homelessness within the ID population remains unclear, however estimates range from 12-39% (Durbin, Isaacs, Mauer-Vakil, Connelly, Steer, Roy, & Stergiopoulos, 2018). In addition, the risk factors and pathways resulting in homelessness for people with ID need to be fully understood and it has been suggested that there is no single factor that results in homelessness (Stone et al., 2019).

Most people with ID live at home with their family, however, some individuals live in congregated institutional and other supported living settings (Salmon, Garcia Iriarte, Donohoe, Murray, Singleton, Barrett, & Dillon, 2019). In many countries across the world there have been significant changes and developments with moves away from institutional models of care to care and support being provided in the community, enabling people with ID to live independently. However, congregated care remains evident in some countries (Woodman, Mailick, Anderson, & Esbensen, 2014). As the ID population ages more people may require access to care and support from education, housing, social welfare and healthcare services (Cronin & Bourke 2017). Many people with ID are significantly disadvantaged in relation to education attainment, employment opportunities, dependence on state welfare and benefits and public housing (Ditchman, Kosyluk, Lee, & Jones, 2016; Hourigan, Fanaghan, & Caraiosa, 2018). Collectively these issues contribute to poverty, low social status and standing, limited employment opportunities and community participation (Park, Nam & Park, 2017; Maroto, Pettinicchio, Patterson, 2019).

From a health perspective, people with ID are further disadvantaged by their diverse physical and mental health conditions that contribute to their poor health and premature death (Cooper, McLean, Guthrie, McConnachie, Mercer, Sullivan, & Morrison, 2015; Hughes-McCormack, Rydzewska, Henderson, MacIntyre, Rintoul, & Cooper, 2018). Physical health conditions are particularly common and include for example, respiratory disorders, epilepsy,
gastrointestinal conditions, cardiovascular disease (Truesdale & Brown 2017). Mental ill health is common due to issues such as adverse life events and environmental stressors including sexual abuse, violence and poverty (Koswloski, Klein, Arnold, Koesters, Schuetzwohl, Salize, & Puschner, 2016). Diagnosing mental illness can be difficult due to communication deficits, physical health conditions, and diagnostic overshadowing (Whittle, Fisher, Reppermund, Lenroot, & Trollor, 2018). As a consequence of their physical and mental health conditions, people with ID require access to health assessment and screening that identifies their distinct needs and to provide evidence-based interventions, treatments and supports (Robertson, Hatton, Emerson, & Baines, 2014). Support is required to facilitate the care journey through the healthcare system, thereby ensuring that they have equality of access and improved health outcomes (Williamson, Contreras, Rodriguez, Smith, & Perkins, 2017). Significant gaps still exist in the full understanding of these pertinent issues upon homelessness. Therefore, the aims of this systematic review are to more fully understand the factors that lead to homelessness for people with ID, their experiences while homeless and their support needs out of homelessness.

2 METHOD

2.1 Review questions

The specific questions that the systematic review sought to address were:

1. What are the factors that lead into homelessness for people with ID?
2. What are the experiences of people with ID when homeless?
3. What are the necessary supports to enable people with ID to exit homelessness?

2.2 Search strategy
The systematic review included empirical studies that used quantitative, qualitative and mixed research methods. A subject librarian was consulted to help with the literature search process. The databases utilized in the search were CINAHL, MEDLINE, PsycINFO and Sociological Abstracts. The search terms included: homeless* AND intellectual disab* OR mental retard* OR developmental disab* OR mental handicap* OR learning disab*. The data were published from inception to November 2019. The inclusion criteria were limited to academic journals, peer reviewed empirical studies written in English and included homeless people with an intellectual disability. Papers that specifically focused on traumatic brain injury, mental illness, special educational needs and learning difficulties were excluded. Included studies had to focus on the homeless experiences of people with intellectual and developmental disabilities; those that did not meet the criteria were rejected. An example of the search strategy used in one electronic database is shown in Table 1.

***Insert Table 1 here***

2.3 Study selection

The PRISMA process for reporting the results of the searches was used (Moher, Shamseer, Clarke, Gherisa, Liberati & Pettigrew, 2015) (Figure 1). The searches revealed 259 cumulative hits across all of the databases. The computer programme Endnote was used in the management of the search results (Clarivate Analytics 2018). Two independent reviewers screened the titles for relevance and duplicates were removed leaving 68 papers. Following a review of the abstracts by the two reviewers, a total of 35 full text articles were assessed against the eligibility criteria and a further 23 excluded, leaving a total of 12 papers. Full text papers were screened independently by the reviewers and then jointly to resolve and disagreements. Studies were included if they specifically addressed factors leading to homelessness, the experiences of people with ID when homeless and the supports required to exit homelessness. The main
reasons for exclusion were that the study sample included homeless people with learning difficulties, mental illness or youth with special education needs. A further paper was identified by hand searching, leaving a total of 13 included in the full review and synthesis.

Figure 1: PRISMA flowchart of search strategy and outcome (Moher et al. 2015)
2.4 Study characteristics

The thirteen studies focused on the aims of the systematic review, as set out in Table 2. The studies were undertaken across a wide range of countries including Japan (n=3), Netherlands (n=3), United Kingdom (UK) (n=2), Canada (n=1), United States (US) (n=2), India (n=1) and Mozambique (n=1). Sample sizes ranged from 4 to 114 participants. Most studies (n=7) used a mixture of methods involving interviews and standardised scales (van Straaten, Schrijvers, Van der Laan, Boersma, Rodenburg, Wolf & Van de Mheen, 2014; Nishio, Yamamoto, Horita, Sado, Ueki, Watanabe, Uehara & Shioiri T, 2015a; Nishio, Yamamoto, Ueki, Watanabe, Matsuura, Tamura, Uehara & Shioiri, 2015b; Gouveia, Massanganhe, Mandlate, Mabunda, Fumo, Mocumbi & de Jesus Mari, 2017; Nishio, Horita, Sado, Mizutani, Watanabe, Uehara & Yamamoto, 2017; van Straaten, Rodenburg, van der Laan, Boersma, Wolf, van de Mheen, 2017; van der Laan, van Straaten, Boersma, Rodenburg, van de Mheen & Wolf, 2018). One study used case records, interviews and standardised scales (Oakes & Davies, 2008). Two studies used case records (Mercier & Picard, 2011; Gowda, Gopika, Kumar, Manjunatha, Yadav, Sriniv, Dawn, Math, 2017) and three studies used semi-structured interviews (Morton & Cunningham-Williams, 2009; Morton, Cunningham-Williams & Gardiner, 2010; McKenzie, Murray, Wilson & Delahunty, 2019).

***Insert Table 2 here***

2.5 Critical appraisal

The two reviewers jointly appraised the included studies utilising a recognized quality assessment tool, the Critical Appraisal Skills Programme (CASP), as an evidence-based framework (Critical Appraisal Skills Programme 2013). This approach was chosen to allow for the synthesis of both qualitative and quantitative data to produce a systematic review of
the research evidence. A range of questions were systematically applied to each of the studies (Table 3). Individual questions were scored zero, one or two from a possible overall score of twenty. Studies containing no information were given zero, a score of one for a limited amount of information and a score of two if the question was answered comprehensively (Rushbrooke, Murray & Townsend, 2014). A total of eight studies achieved scores of 17 and above, indicating good quality and relevant information (Morton & Cunningham-Williams 2009; van Straaten, Schrijvers, van der Laan, Boersma, Rodenburg, Wolf & van de Mheen, 2014; Nishio et al., 2015a; Nishio et al., 2015b; Nishio et al., 2017; van Straaten et al., 2017; van der Laan et al., 2018; McKenzie et al., 2019). Scores of between 14 to 16 were given to three studies thereby showing deficits related to clarity of aims, recruitment issues, data collection and analysis (Oakes & Davies, 2008; Morton et al. 2010; Gouveia et al. 2017). The remaining two studies had scores of thirteen or less indicating shortcomings on most questions (Mercier & Picard, 2011; Gowda et al., 2017). Any disagreements regarding the quality assessment were discussed by the reviewers and consensus reached. All of the studies identified addressed the objectives of the systematic review and were therefore deemed suitable for inclusion.

***Insert Table 3 here***

2.6 Data analysis and synthesis

An analysis of the data was undertaken by the reviewers using an inductive process whereby the emergent themes were systematically identified within and across all the studies and coded by the two researchers. The content was grouped into concepts to allow for contrasts and comparisons to be made between and across the studies and the identified themes. The emergent themes were identified independently and then discussed, verified and agreed by the reviewers (Caldwell, Henshaw & Taylor, 2011).
3 RESULTS

3.1 Following detailed analysis, the main themes identified were (i) pathways leading into homelessness, (ii) experiencing homelessness, and (iii) routes out of homelessness.

3.1.1 Pathways leading into homelessness

A total of 11 studies addressed pathways into homelessness for people with ID. People with ID who are homeless are a sub-population of an already difficult group to identify. Therefore, the exact prevalence of people with ID who are homeless remains inconclusive (Morton & Cunningham-Williams 2009; McKenzie et al., 2019). Three studies included in the current review attempted to identify prevalence rates (Oakes and Davies 2008; Mercier and Picard 2011; Van Straaten et al. 2014; Nishio et al. 2015a). The rates of homelessness among people with ID was 10% (Oakes and Davies 2008); 30% (Van Straaten et al. 2014); 34% (Mercier and Picard 2011); and 40% (Nishio et al. 2015a). People with ID are at greater risk of homelessness when compared with the non-ID population (Oakes and Davies 2008). In two studies, men with ID were more likely to become homeless and at an older age when compared to women with ID (Mercier and Picard 2011; Van Straaten et al. 2014). The identification of people with ID within the homeless population can be challenging. Different approaches were adopted across studies in an attempt to identify people with ID within homeless services. The most common approach adopted was self-report by potential study participants, following initial dentification by care staff. One study utilized a standardized screening by way of the Wechsler Adult Intelligence Scale (WAIS) (Nishio et al. 2015a). A further study sought to establish if the Learning Disability Screening Questionnaire would be an acceptable tool to identify homeless people with ID (McKenzie et al. 2019).
Multiple issues were identified across all the studies that contributed to and led to homelessness for people with ID. The most common factors identified were the presence of significant education deficits, active mental illness, substance misuse, challenging behaviours and relationship breakdown (Morton & Cunningham-Williams 2009, Mercier & Picard 2011, Morton et al. 2010, Nishio et al. 2017, Oakes & Davies 2008, van Straaten et al. 2014, van Straaten et al. 2017). Mental illness was identified in a number of the studies. In one study, 60% of the sample had mental illness and 56% had substance misuse issues (Mercier & Picard 2011). Higher rates of somatization and depression were identified with homeless people with ID twice as likely to experience substance misuse with alcohol being the most commonly used substance (van Straaten et al. 2014). In a Japanese study, over 70% of homeless people with ID had mental health conditions including depression, post-traumatic stress disorder (PTSD), mood disorder and alcohol dependence (Nishio et al. 2015a). In another study, 42% of all the participants had a mental illness and 16% experiencing co-occurring ID and mental illness by way of schizophrenia, mood disorder, anxiety disorder, personality disorder and substance use (Nishio et al. 2015b). In a further study conducted in the Netherlands, 33% of the study sample were utilizing mental health services (van Straaten et al. 2017). Several studies identified additional co-occurring health conditions including physical health issues (43%) (Mercier & Picard 2011), higher levels of smoking (Nishio et al. 2015b) and significant numbers accessing medical health care (69%) (Van Straaten et al. 2017). Family relationship breakdown and subsequent homelessness appears to be related to the death of a family member or main carer and is a potential risk factor (Mercier and Picard 2011; Gouvia et al. 2017; Gowda et al. 2017; Nishio et al, 2017).

The ideal situation is to prevent people with ID from becoming homeless. For this to be realized, there needs to be nationally coordinated strategic policy approaches to homelessness and the inclusion of the specific needs of the ID population (McKenzie et al. 2019). In some
studies, wider transcultural issues were identified as predetermining factors that may result in homelessness. For example, burden, shame and stigma due to having a family member with ID were identified as contributory factors leading to ejection from the family home (Gouvia et al. 2017; Gowda et al. 2017). Associated health co-morbidities, such as mental illness and challenging behavior, were also found to be negatively associated with homelessness (McKenzie et al. 2019), reducing the possibility of reintegration back into the family home (Gouvia et al. 2017; Gowda et al. 2017).

3.1.2 Experiencing homelessness

A total of 9 studies identified the experiences of people with ID when homeless. When people with ID become homeless a recurring issue is the estrangement from their families (Govia et al., 2017; Gowda et al., 2017). The factors leading to homelessness in the non-ID population, when compared to the ID population, appears to be related to mental illness and substance misuse leading to ejection from the family home. For the non-ID homeless, once treated, reintegration to the family home was achieved. However, reintegration back to the family home is in some cultures less likely for people with ID due to the enduring lifelong nature of the intellectual impairment and on-going dependence upon families for care and support (Govia et al. 2017; Gowda et al. 2017).

An important issue regarding supporting people with ID when homeless is the complexity of the decisions and options that need to be considered and addressed to facilitate the exit from homeless services. They include the range of community supports required, support to access to adult education, employment and workplace support and access to healthcare (Oakes & Davies 2008; Morton & Cunningham-Williams 2009; Gouvia et al. 2017). In one study undertaken in the United States (US) volunteering within the homeless agency was seen as beneficial to supporting reintegration back into the community by assisting with the
development of life skills necessary for daily living and build resilience and self-esteem (Morton et al. 2010). Given the evidence of the extent of the extent of the co-occurring physical and mental health conditions that many people with ID experience, there is a need for access to initial assessments and screening when entering homeless services to comprehensively identify care and support needs (Nishio et al. 2015a; Nishio et al. 2015b; McKenzie et al. 2019). A significant number of people with ID were found to have co-existing physical and mental health conditions that had not previously been identified and treated, thereby impacting on their health and well-being and quality of life (van Straaten et al. 2017; van der Laan et al. 2018). For example, the most common physical health conditions were musculoskeletal and connective tissue complaints (31%), dental conditions (24%), visual impairments (24%), respiratory disorders (20%), gastro-intestinal disorders (14%), podiatry complaints (13%), and cardiovascular disorders (11%) (van der Laan et al. 2018). Significant levels of smoking at 71% were identified in one study involving homeless people with ID (Nishio 2015b). Therefore, improved healthcare access and psychosocial supports specific to the needs of people with ID are indicated, including health screening, psychological therapies and treatments (van Straaten et al. 2017; van der Laan et al. 2018).

3.1.3 Routes out of homelessness

Of the 13 studies, a total of 9 addressed routes out of homelessness for people with ID. Integrated and well-coordinated support services are necessary to support people with ID out of homeless services due to their often-complex co-occurring needs (Nishio et al. 2015a, Nishio et al. 2015b; van Straaten et al., 2017; van der Laan et al., 2018). Central to this is access to housing supports, mental health treatment and interventions and assertive community-based treatment programmes (Nishio et al. 2017). In order to provide pathways out of homelessness,
appropriate and responsive physical and psychosocial interventions and supports need to be in place (van Straaten et al. 2017; van der Laan et al. 2018). A significant barrier that impacted upon the care and support provided to people with ID within homelessness services, and those exiting, related to the limited knowledge, skills and expertise of support staff regarding the specific needs and requirements of the population (McKenzie et al 2019). To help mitigate against these factors, wider policies and strategies need to include a focus on the needs of people with ID to ensure that education opportunities, discrimination, social exclusion, socio-economic disparities and equality of healthcare access provision are identified and resources and support targeted (van Straaten et al., 2014; Gowda et al. 2017; Nishio et al., 2017). Consequently, education and practice development programmes need to focus on increasing the awareness that people with ID become homeless and the identification and assessment of their subsequent support needs requires a specific attention (Oakes & Davies 2008, van Straaten et al. 2014; McKenzie et al. 2019). In terms of discharge from homelessness services and resettlement into the community, there is a need for effective inter-agency communication, information sharing and service collaboration thereby ensuring that care and support is coordinated and responsive in order to prevent a return to homelessness (van Straaten et al. 2014; Nishio et al. 2015a; Nishio et al. 2017; McKenzie et al. 2019).
 Important issues have emerged from this systematic review of the current evidence in relation to the experiences of homelessness people with ID. The key themes identified through this systematic review related to the factors that can lead to homelessness for people with ID, the unique experiences of people with ID when homeless and the range of supports necessary to enable them to exit homelessness and re-establish themselves within the community. The implications and relevance of the findings will be considered from the perspective of policy, practice development and education and future research developments.

4.1 Policy implications

Internationally and across many countries there is growing attention to the situation of people who are homeless (World Health Organization 2018). There is a need to recognize and respond effectively to the co-occurring factors that can lead to homelessness for people with ID and have in place preventative strategies. Some of the issues are similar to the non-ID population, while noting the distinct differences such as the impact and consequences of relationship breakdown, death of a family member or carer and risk of becoming homeless at an older age (McCann & Brown 2019; Phipps et al 2019). Therefore, policy needs to take account of the complex and interrelated circumstances that can lead to homelessness for people with ID; they are multifactorial. Addressing these concerns requires sustained investment and development of services and supports to minimise the risk factors that predispose people with ID to homelessness such as family bereavement, mental health issues and challenging behaviours (Mercier & Picard 2011; Nishio et al., 2015a, b; Gouda et al. 2017; McKenzie et al. 2019). Strategically, early intervention and prevention programmes are required, focusing on those most at risk, such as those experiencing a recent bereavement of a family member or carer with no or limited support Mericer & Picard 2011). Many people with ID experience
barriers when accessing healthcare and services appropriate to their needs (Pelleboer-Gunnink, van Oorsouw, van Weeghel, & Embregts, 2017; Williamson et al., 2017). Given the range of physical health problems experienced by many people with ID, primary health care policy and services need to recognize and responds to the needs of those who are homeless through appropriate assessment and health screening, treatment and healthcare support plans (Emerson et al., 2016). Furthermore, mental health policy needs to take account of the extent of mental ill health and, in particular, the specific requirements of people ID and mental illness who are homeless (Nishio et al. 2015a, b; Nishio et al. 2017; Whittle, Fisher, Reppermund, & Trollor, 2019). Investment and development are required to ensure that there is access to psychological treatments, interventions and social supports appropriate to the needs of individuals with ID who are homeless (Shankland, & Dagnan, 2015; van Straaten et al. 2017; van der Laan et al. 2018).

4.2 Implications for education and practice development

Practitioners in care agencies, such as housing, education, health and social care, need to recognise that some people with ID become homeless and that on initial presentation it may not be apparent that the person has intellectual and developmental impairments. Furthermore, some people with mild ID may be unaware of their intellectual and cognitive impairment, thereby being unable to disclose this important information to ensure effective access to relevant care and support (McKenzie et al. 2019). Therefore, simple screening is required at the time of reception into homeless services to ensure that the necessary assistance and supports are tailored to the specific needs of the individual with ID (Nishio et al. 2015a; McKenzie et al. 2019). The initial focus of services, such as, housing, social work, primary care and specialist intellectual disability services, needs to focus on early identification of people with ID at risk of homelessness.
As many people with ID live at home with their family, an important finding arising from this review is the significance of the bereavement of a family member or main carer. This major event may act as an early risk indicator that may be the precursor to a person with ID becoming homeless. Therefore, service planners and practitioners need to be aware of and alert to the potential significance and impact of such an event (Mercier & Picard 2011). In order to minimise the possibility of homelessness, it is necessary to ensure that there are co-ordinated support services in place. Such services may need to include psychiatrists, clinical psychologists, occupational therapists, nurses and social workers, to enable responsive interprofessional care and support.

Practitioners have an important role in facilitating and co-ordinating access to housing, employment, education, day care, primary care and mental health services. This is important as the current evidence highlights that practitioners can bring about improvements in health, well-being and social circumstances (van Straaten et al. 2017; van der Laan et al. 2018). There is therefore an opportunity to develop new models of practice whereby practitioners from specialist ID services are based within homeless services thus ensuring collaborative and co-ordinated services and supports (van Straaten 2014).

To develop the knowledge, skills, attitudes and understanding of the requirements of people with ID who are homeless, there is a need to bring together the key stakeholders involved in providing services and supports. Given the multifarious range of issues and needs, shared interagency and interprofessional education is required. This will enable the development of information sharing about the services provided by the different agencies and identify future collaborations and shared practice (Mercier & Picard 2011; Gouvia et al. 2017; Nishio et al. 2017). Ultimately, the purpose of interagency and interprofessional education and training is about improving practice that impacts positively on the care and support for people with ID who are homeless. Education programmes should prioritise early intervention and
prevention strategies as a means to reduce the possibility of people with ID becoming homeless. Within homeless services, there is an opportunity to bring together key agencies and services to understand the roles and range of services available and promote the effective coordination of care and support to assist people with ID out of homelessness (Nishio et al, 2015a; van der Laan et al. 2018). Following exits from homelessness, education needs to focus on how agencies and services work collaboratively to fully support people with ID to prevent their possible return to homelessness. Homelessness has significant implications for society, services, families and the individual. This needs to be reflected within undergraduate and postgraduate education programmes such as social work, nursing, medicine, occupational therapy, housing, social policy and criminal justice.

4.3 Implications for future Research

From the current research evidence, it is apparent that multi-factorial issues exist that lead to homelessness for people with ID. Further, there are issues around population identification within homeless groups and of gaining informed consent from people with ID that can present significant challenges (van Straaten 2014; Nishio et al. 2015a; McKenzie et al. 2019). The existing studies have predominantly adopted quantitative approaches to identify prevalence figures and care and support needs. There is an absence of qualitative studies investigating the unique views and experiences through the lens of homeless people with ID. This could include their perceptions of the issues that led to homelessness, the circumstances and experiences within homeless services, and the assistance and supports necessary to successfully exit homelessness. To date there have been no long-term studies following-up people with ID once they exited homeless services. Future studies could also investigate the factors that maintain newly establish housing and support situations and what works to maintain them. Given the apparent higher prevalence of mental illness, substance misuse, sexually transmitted infections
(STIs), human immuno-deficiency virus (HIV) and other vulnerabilities, it is important that people with ID are included in homelessness research (Williams & Bryant, 2018). An important further area for future research is to identify the impact of family bereavement or the loss of a main carer as a contributory factor leading into homelessness and the actions necessary to mitigate against this. Further, researchers also need to identify the range of factors that lead people into homelessness and whether they are amenable to preventative strategies, supports and interventions. They need to appreciate the issues and concerns once people with ID become homeless and to identify their specific support needs within homeless services and agencies. Leading out of homelessness, there is a need to conceptualise the needs and supports that may influence and impact upon the individual’s trajectory from homelessness and provide the necessary and appropriate service responses.

Future researchers need to ensure that the sub-population of people with ID are included within their study sample. To date, the existing research studies have understandably adopted convenience snowball sampling techniques with self-reporting, in an attempt to identify people with ID within homeless services. There is a need to undertake multi-centre research studies that incorporate larger samples of people with ID to inform policy and shape service developments and evidence-based practice.

4.4 Limitations of the current review

An important finding and strength of the current review is that family bereavement or loss of a main carer may be a significant contributory factor leading into homelessness for some people with ID. This review has several limitations which the authors acknowledge. The authors have been rigorous in the strict application of the review and analysis process. From a research perspective, there are no international multi-centre studies regarding homelessness and people with ID. Further, there are no longitudinal studies which identify the effectiveness, or not, of
the supports provided to help people with ID to exit homelessness. Therefore, future research studies should focus on developing more rigorous approaches to population identification thereby ensuring, as far as possible, that study participants do indeed have an ID.

5. CONCLUSIONS
This systematic review identifies that people with ID can and do become homeless and, with appropriate supports, can successfully exit homelessness. The current systematic review of the research evidence presents new and important insights that can help develop the understanding of significant issues related to factors that may contribute to and result in homelessness for people with ID. Whilst homeless, due to their cognitive and intellectual impairment and associated needs, particular consideration and responses are required. The factors that can lead into homelessness include, having an intellectual disability, experiencing a family bereavement and loss of a main carer and the presence of mental illness, substance use and challenging behaviours. Additionally, people with ID may become homeless at an older age when compared to people without ID, often as a consequence of family bereavement or loss of a carer. The identification of people within homeless services and their subsequent care and support remain a significant challenge. Effectively identifying the homeless ID population is necessary strategically and within homelessness services is required to ensure there is access to appropriate psychosocial assessments, interventions and supports. These strategies are needed to assist people with ID to effectively exit homeless services. The critical issue relates to ensuring that there are tailored and responsive services that provide the community-based structures and supports to enable independent and fulfilling lives outside homeless services for people with ID.
Conflict of Interest
There are no conflicts of interest.

Author contributions
MB and EMcC designed the study, conducted data retrieval and analysis, reported the findings and reviewed drafts and prepared and finalised the paper for publication.
REFERENCES


McKenzie, K., Murray, G., Wilson, H., & Delahunty, L. (2019). Homelessness-It will crumble men’: The views of staff and service users about facilitating the identification and support of people with an intellectual disability in homeless services. Health & Social Care in the Community. doi.org/10.1111/hsc.12750


### Table 1: CINAHL search strategy

<table>
<thead>
<tr>
<th>Search code</th>
<th>Query</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>Intellectual disab*</td>
<td>21,600</td>
</tr>
<tr>
<td>S2</td>
<td>Mental retard*</td>
<td>2,939</td>
</tr>
<tr>
<td>S3</td>
<td>Developmental disab*</td>
<td>10,030</td>
</tr>
<tr>
<td>S4</td>
<td>Mental handicap*</td>
<td>438</td>
</tr>
<tr>
<td>S5</td>
<td>Learning disab*</td>
<td>7,537</td>
</tr>
<tr>
<td>S6</td>
<td>Homeless*</td>
<td>9,488</td>
</tr>
<tr>
<td>S7</td>
<td>Homeless persons</td>
<td>4,907</td>
</tr>
<tr>
<td>S8</td>
<td>S1 OR S2 OR S3 OR S4 OR S5</td>
<td>35,355</td>
</tr>
<tr>
<td>S9</td>
<td>S6 OR S7</td>
<td>9,488</td>
</tr>
<tr>
<td>S10</td>
<td>S8 AND S9</td>
<td>59</td>
</tr>
<tr>
<td>S11</td>
<td>Limiters: English, peer reviewed articles</td>
<td></td>
</tr>
<tr>
<td>Study Citation and Country</td>
<td>Aims</td>
<td>Sample</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Oakes &amp; Davies (2008) UK</td>
<td>Identify the prevalence of ID within a homeless population.</td>
<td>Homeless people (n=50)</td>
</tr>
<tr>
<td>Morton &amp; Cunningham-Williams (2009) USA</td>
<td>Examine the capacity to consent in homeless people with ID using a capacity-to-consent screening tool</td>
<td>People with ID (n=62)</td>
</tr>
<tr>
<td>Study</td>
<td>Research Question</td>
<td>Sample</td>
</tr>
<tr>
<td>-------</td>
<td>------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Morton et al. (2010) USA</td>
<td>Identify whether volunteerism among homeless people in ID services supports community integration</td>
<td>People with ID (n=60)</td>
</tr>
<tr>
<td>Mercier &amp; Picard (2011) Canada</td>
<td>Identify the characteristics, history and current living situation of homeless people with ID.</td>
<td>People with ID (n=68)</td>
</tr>
</tbody>
</table>
Van Straaten et al. (2014)  
Netherlands  
Identify prevalence of homelessness in Dutch people with ID and the relationship with psychosocial issues

<p>| Homeless adults (n=387) | ID (n=114) | Cross-section design using interviews and standardized scales | More homeless males with ID and higher than the general population. Low education attainment. Higher somatization rates and depression in ID people, with more stress in older participants. Twice as likely to have substance misuse issues. Alcohol use most commonly used substance. Links between substance misuse and mental health issues. Greater vulnerability and risk factors among homeless ID. | Screening required to identify people with ID who are homeless. Need greater psychosocial treatments, supports, and special housing support. Require specialist ID professional input based within homeless services. Customised support programmes and specialist housing may be needed. |</p>
<table>
<thead>
<tr>
<th>Study</th>
<th>Country</th>
<th>Objective</th>
<th>Sample</th>
<th>Study Design</th>
<th>Findings</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nishio et al. (2015a)</td>
<td>Japan</td>
<td>Explore the prevalence of mental illness and ID among homeless people in Japan</td>
<td>Homeless men (n=18) ID (n=7)</td>
<td>Cross-section design using interviews and standardized scales</td>
<td>Men with ID became homeless on average at the age of 54 years compared to 59 years in the non-ID population. Over 70% of ID people also had mental health issues including alcohol dependence, depression, mood disorder and PTSD.</td>
<td>Increased support necessary, including psychological therapies and treatments to address homeless issues specific to people with ID.</td>
</tr>
<tr>
<td>Nishio et al. (2015b)</td>
<td>Japan</td>
<td>Investigate the prevalence of mental illness and ID in homeless people in Japan.</td>
<td>Homeless people (n=114) ID (n=39)</td>
<td>Cross-section design using interviews and standardized scales</td>
<td>42% of all participants had mental illness. 16% had mental illness and ID including schizophrenia, mood disorder, anxiety disorder, substance use and personality disorder. People with ID smoke more. Only people with ID reported wanting to remain homeless.</td>
<td>Need appropriate psychosocial strategies, interventions and supports specific to the needs of people with ID within homeless services to address their mental health and psychological issues and concerns.</td>
</tr>
<tr>
<td>Gouveia et al. (2017)</td>
<td>Mozambique</td>
<td>Explore mental health status of homeless people including people with an intellectual disability (ID).</td>
<td>Homeless people (n=71): ID (n=4)</td>
<td>Cross-section design using interviews and standardized scales</td>
<td>People with ID had less successful family re-integration. Burden, shame and stigma were possible influencing factors. Transcultural interpretations were significant.</td>
<td>Need integrated and well coordinated supports for people with ID who are homeless. Further research required to fully understand homelessness, support needs and possible psychosocial interventions.</td>
</tr>
<tr>
<td>Study</td>
<td>Country</td>
<td>Methodology</td>
<td>Results</td>
<td>Conclusion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gowda et al. (2017)</td>
<td>India</td>
<td>Examine case files of homeless mental ill patients, including people with ID, admitted to mental health services in India.</td>
<td>Case study design using case records. Patients with ID were negatively co-related with family reintegration. Unable to trace the fail in 55% of cases. People with ID may be unable to verbalise their original home address and therefore remain unintegrated back into the family home.</td>
<td>Need for national services strategy and plan for people with ID who are homeless to identify and address socioeconomic, health and human rights issues that result in homelessness.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nishio et al. (2017)</td>
<td>Japan</td>
<td>Investigate the relationship between homelessness and ID.</td>
<td>Cross-section design using interviews and standardized scales. 34% had an ID and 16% had ID and mental illness. Poor family relationships led to homelessness for people with ID. People with mental illness and poor relationships more prone to homelessness and get trapped. ID and homelessness linked to low educational attainment.</td>
<td>Improved access to supported housing appropriate to the needs of people with ID required. Access to mental health treatments and assertive community treatment programmes and employment needed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Van Straaten et al. (2017)</td>
<td>Netherlands</td>
<td>Identify self-report care needs of Dutch homeless people: Follow-up study.</td>
<td>Cross-section design using interviews and standardized scales. Mean age 41 years. 31% had a suspected ID. 85% male. 82% had low education attainment. 33% using mental health services. 69% needed access to medical care. 24% used housing support services. Care and support of homeless people with IDD requires to be ongoing with a desire to live independently after exiting homelessness. Becoming</td>
<td>There is a need for more psychosocial and physical interventions to address the increasing problems faced by people with ID who are homeless.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study</td>
<td>Country</td>
<td>Methodology</td>
<td>Participants</td>
<td>Findings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>-------------</td>
<td>--------------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Van der Laan et al. (2018)</td>
<td>Netherlands</td>
<td>Cross-sectional design using interviews and standardized scales</td>
<td>Homeless adults (n=344) ID (n=102)</td>
<td>31% if participants had a suspected ID. Improvements in health, income, work and social supports were identified. Decrease in unmet care needs, police arrests, alcohol and cannabis use and distress when supports provided. Greater psychosocial supports required by people with ID who are homeless to address psychological needs and substance use.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McKenzie et al. (2019)</td>
<td>United Kingdom</td>
<td>Cross-sectional design using interviews</td>
<td>People with ID (n=8) Support staff (n=16)</td>
<td>Using a screening tool may identify specialist assessment and support needs and provide evidence regarding prevalence of ID homelessness. Staff development programmes are required regarding the needs of people with ID. Further research is required using screening questionnaires to systematically identify prevalence and support needs to inform policy and service delivery.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 3: CASP quality scores (n=13)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Clear statement of aims</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2. Appropriate methodology</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3. Appropriate research design</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4. Appropriate recruitment strategy</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5. Appropriate data collection methods</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>6. Research relationships considered</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7. Consider ethical issues</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>8. Rigorous analysis</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>9. Clear findings</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>10. Value of the research</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total from a possible 20</td>
<td>15</td>
<td>17</td>
<td>16</td>
<td>13</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>15</td>
<td>13</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>