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An intersectional approach to understandings of mental health inequalities among men with disability

Tania L. Kinga,*, Marissa Shieldsa, Tom Shakespeareb, Allison Milnera, Anne Kavanagha

a Disability and Health Unit, Centre for Health Equity, Melbourne School of Population and Global Health, The University of Melbourne, Bourke St, Carlton, 3010, Australia
b International Centre for Evidence in Disability, London School of Hygiene and Tropical Medicine, UK

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ABSTRACT

Disability is a key social identity or social category that is associated with significant social disadvantage. For men, having a disability can be discordant with their masculine identity. Self-reliance is one component of masculinity that is known to be important to men with disabilities, however it is also known to be associated with adverse mental health outcomes in the broader adult male population. Intersectionality approaches offer a means of examining the way that the effect of self-reliance on mental health might vary between those with and without a disability. Among a sample of 12,052 men aged 18–55 years from the Ten-to-Men study, we used effect measure modification (EMM) to examine the way that self-reliance modifies the relationship between disability and depressive symptoms. Disability was assessed using the Washington Group Short Set of questions, which capture functional limitations. Results showed that men with disabilities who reported higher conformity to self-reliance norms had much worse mental health than non-disabled men with low conformity to self-reliance, as measured in terms of depressive symptoms (PRR: 9.40, 95%CI 7.88, 11.22, p-value < 0.001). We found evidence of positive EMM of depressive symptoms by conformity to self-reliance on the additive scale (RERI: 2.84, 95%CI 1.26, 4.42, p-value < 0.001). These results provide evidence that high conformity to self-reliance norms exerts a particularly damaging effect on the mental health of men with disabilities. Given that men with disabilities are more likely to rely on help and support from others, these results provide important insights for the delivery of services to men with disability.

1. Introduction

On almost every measure, we see health variations across different identities or social statuses such as race, class, gender and disability (Marmot, Friel, Bell, Houweling, & Taylor, 2008), and in almost every context we see that those who are of lower positions in these hierarchies have poorer health outcomes than those of more advantaged or higher positions (Wilkinson & Pickett, 2010). Examining the patterning of health and disease within society, and differences in vulnerabilities and susceptibilities, is fundamental to epidemiological and public health research (Bauer, 2014; Diderichsen, Hallqvist, & Whitehead, 2018).

Historically, examination of these health inequalities has been conducted with a focus on single categories of difference, for example differences by gender or ethnicity. However such approaches do not reflect the reality of the multiplicity of people's identities and social statuses, nor the multiple stratification systems that order these statuses and identities (Hancock, 2007). People are not contained discretely in terms of unitary categories and identities – some people identify with, and are disadvantaged on, more than one of these stratification systems (Hancock, 2007).

Approaches that treat social categories or identities as distinct entities, fail to capture the multiple and sometimes conflicting experiences of oppression and subordination that people in these social categories experience (McCall, 2005). Emerging from work of black feminist scholars (Crenshaw, 1989), intersectionality theory presents a means of understanding and interrogating the multiple axes of difference and disadvantage that different groups experience (Crenshaw, 1989; Hankivsky et al., 2010; Yuval-Davis, 2015).

While intersectionality theory has typically been applied in qualitative research, there is now a burgeoning literature discussing and using quantitative methods to examine the ways that different axes of power and difference intersect to affect health and wellbeing (Bauer,
McCall’s (2005) taxonomy of intersectional approaches distinguishes between anti-categorical; inter-categorical; and intra-categorical intersectionality. Inter-categorical approaches, typically favoured by quantitative methods, draw on existing categories to examine and document inequalities among groups, while anti-categorical approaches consider social life and context to be too irreducibly complex to be categorised. Intra-categorical intersectionality approaches, conceptually between anti- and inter-categorical approaches, focus on the margins of certain categories, and are typically deployed using qualitative methods.

Intersectionality theory has commonly been applied to examine two key structures of power and discrimination: racism and sexism. Rarely has intersectionality been applied to bring attention to other systems and structures of oppression and domination such as ableism. Ableism is one important system of marginalization that is relevant to the estimated 15% of the population worldwide who have some form of disability (World Health Organization, 2011). It is defined as “… prejudice and discrimination toward individuals simply because they are classified as disabled – regardless of whether their impairments are physical or mental, visible or invisible.” (Nario-Redmond, 2019, p. 6). Recognition of the ablest social structures and processes that impact on the lives of persons with disabilities is fundamental to conceptualisations of disability (Shakespeare, 2014). Given that disability is one key social identity or social category that is associated with significant social disadvantage (King et al., 2018; Kmjacki et al., 2018; Milner et al., 2017) research on disability could benefit from intersectional approaches. Of particular relevance to intersectionality methods, the social model approach to disability emphasises the role of societal barriers such as discrimination, attitudes, and inaccessible environments in the experience of disability (Oliver, 1990; Reeve, 2006; Thomas, 1999).

There is evidence that men with a disability differ to those without a disability in terms of their conformity to certain masculine norms - in particular, men with a disability report greater conformity to self-reliance norms (King, Shields et al., 2019). Self-reliance, the belief that one should be independent and solve their own problems (Labouliere, Kleinman, & Gould, 2015), has previously been associated with greater levels of suicidal ideation (Pirkis et al., 2017), and poorer mental health (Milner, Kavanagh, King, & Currier, 2018) in the broader adult male population.

The intersection of disability and masculinity presents a conflict or “status inconsistency” (Gerschick, 2000, p. 1265) for men with disabilities, whereby their perceived status as having a disability is dissonant with their perceived status as men. Men with disability must therefore negotiate this intersection of two competing and sometimes discordant social categories, and interpret and enact masculinities to construct their own identity (Barrett, 2014; Shuttleworth, Wedgwood, & Wilson, 2012). Qualitative evidence among specific groups of men with disabilities indicates that they do this by drawing on different elements of masculinity that can be attained or performed, and disavowing others that are either unattainable or incompatible (Coles, 2008; Gerschick & Miller, 1995). This process varies across individuals, and across type of disability, for example groups of wheelchair rugby players have been observed to align their identity with traditional masculine norms in displays of hyper-masculinity where physical contest, strength and aggression are repeatedly enacted and asserted (Lindemann & Cherney, 2008). Some men acquiring a disability have reported experiences of grief, as they come to understand the loss of their ability to physically embody certain masculine ideals such as athleticism (Wilson, 2004).

While, as noted, there is a relatively established literature examining associations between self-reliance and mental health, it is not known whether this relationship is different for men with and without a disability. The extent to which self-reliance is a positive or negative attribute among men with a disability is important to understand, and may highlight particular vulnerabilities or strengths that can be drawn on when considering service provision. It is certainly possible that a sense of being able to depend on one’s own resources may be advantageous to men with a disability, providing a sense of competence and autonomy in a group who are often reliant on others. Alternatively, high self-reliance may be disadvantageous for men with a disability: needing to depend on others to assist them in their daily lives may lead to internal conflict for men who endorse self-reliance norms. Identifying and understanding such differences is vital to meeting the needs of the considerable minority of the population of men who have a disability.

Intersectionality approaches offer particular utility in examining the intersection of disability and self-reliance. Effect measure modification (EMM) has been presented as one way to quantitatively apply intersectional approaches (Bauer, 2014), and Knol and VanderWeele (2012) have presented a recommended approach to interrogate EMM. We drew on the Ten to Men Study, a Longitudinal Cohort Study of over 15,000 Australian men and boys that represents the largest cohort of its kind in the world (Pirkis, Currier et al., 2017). We used EMM methods to examine the intersection of self-reliance and disability, and the effect of this on depressive symptoms. Disability was assessed using the Washington Group Short Set (WG SS), which is based on the International Classification of Functioning (ICF) Disability and Health framework (World Health Organization, 2013). The Washington Group Short Set are designed to capture common functional limitations, and identify those in the population at greatest risk of participation exclusions or restrictions (Madans, Loeb, & Altman, 2011). Given we were particularly interested in differences within the category of men with disabilities, our approach can be conceptually framed in terms of McCall’s (2005) intra-categorical approach.

Based on evidence that men with disabilities report greater conformity to self-reliance norms, and that self-reliance is damaging to the mental health of the broader population of men, we sought to examine whether the relationship between disability and depressive symptoms differs between men reporting high conformity to masculine norms of self-reliance, and men reporting low conformity.

2. Methods

2.1. Data source

This study used data from the Australian Longitudinal Study on Male Health (Ten to Men), a longitudinal cohort study established in 2011 to provide evidence to combat the preventable morbidity and premature mortality experienced by Australian men (Pirkis, Currier et al., 2017). The initial wave of data collection commenced in 2013–2014 and included 15,988 men and boys aged 10–55 years. Information was collected across five health domains, including physical health, mental health, health behaviours, social determinants of health, and health service usage. Further details of Ten to Men have been published elsewhere (Currier et al., 2016).

We elected to restrict the sample to the baseline adult cohort, as we were interested in understanding masculinity enacted in an adult population, rather than among a younger cohort where masculinity is still being trialled and established.

2.2. Exposure variable: Disability Status

Disability status was classified according to the Washington Group Short Set of questions, which ask about common functional limitations. These six questions ask individuals about any difficulty experienced in functional domains, including seeing, hearing, walking, cognition, communication, and self-care. The Washington Group questions are well-used, validated internationally, and allow for cross-national comparison of disability prevalence (Madans & Loeb, 2013). Responses were coded on a four-point severity scale: no difficulty, some difficulty, a lot of difficulty, cannot do at all. Disability was considered present if a respondent answered ‘a lot of difficulty’ or ‘cannot do at all’ on one or more functional domains (Madans & Loeb, 2013).
2.3. Outcome variable: Depressive symptoms

The Patient Health Questionnaire [PHQ-9] measures depressive symptoms by asking individuals if they have experienced any of nine problems within the past two weeks, including ‘little interest or pleasure in doing things,’ ‘feeling tired or having little energy,’ and ‘trouble concentrating on things.’ Response options were: not at all, several days, more than half the days, nearly every day. Responses for each question were scored from 0 (‘not at all’) to 3 (‘nearly every day’) and summed for a maximum total score of 27. The PHQ-9 total score may be used continuously, or broken into categories corresponding to severity of depressive symptoms. A score of 10 or above represents the clinically significant threshold of probable depression (Kroenke, Spitzer, Williams, & Löwe, 2010). The PHQ-9 has shown strong validity, good sensitivity, and reasonable specificity (Kroenke, Spitzer, & Williams, 2001).

For analysis, we derived a binary variable based on the threshold of probable depression: none/mild depressive symptoms (<10); and moderate/severe depressive symptoms (10+).

2.4. Effect modifier

Conformity to self-reliance was included in our models as an effect modifier. This measure is a subscale contained within the Conformity to Masculine Norms Inventory (CMNI-22). The CMNI-22 is an abbreviated version of the original 94-item scale (Owen, 2011). Pairs of statements correspond to eleven subscales, of which self-reliance is one.

Respondents were instructed to consider their actions, feelings, and beliefs in relation to two statements focussed on self-reliance, with items assessing the respondents behavioural and affective responses to help-seeking (e.g. ‘I never ask for help’). Response options range from “strongly disagree” (0) to “strongly agree” (3). We summed responses to provide a conformity score ranging from 0 to 6, with higher scores indicating greater conformity (Mahalik, Talmadge, Locke, & Scott, 2005). Conformity was dichotomized at the 75th percentile, reflecting low/moderate and high conformity.

2.5. Covariates

We also included confounding variables: age (18–24 years, 25–34 years, 35–44 years, 45–55 years); country of birth (Australian born, overseas born); Indigenous status (Aboriginal or Torres Strait Islander, non-Indigenous); education (completed Year 12 (High school), did not complete Year 12); and small area socio-economic disadvantage (categorised into quintiles based on the Index of Relative Socio-Economic Disadvantage (IRSD) (Wise & Mathews, 2011).

2.6. Analytic sample

Fig. 1 presents the analytic sample, which comprised 12,052 men aged 18–55 years (n = 806 men with disability; n = 11,246 men without disability). We conducted complete case analysis, retaining almost 90% of the eligible sample in our analyses.

2.7. Analytic strategy

All data were analysed in Stata using the ‘svy’ suite of commands to accommodate adjustment for sampling characteristics, such as survey weights and stratification (StataCorp, 2017). The weights used were calculated as the inverse of the individual probability of participation in the study (Spittal et al., 2016).

We firstly conducted descriptive analysis and obtained survey-weighted population proportion estimates for age, country of birth, Indigenous status, area disadvantage, education, and depressive symptoms by disability status. We then used survey-weighted adjusted Poisson regression to calculate the prevalence rate ratio (PRR) for having depressive symptoms by disability status within strata of conformity to self-reliance masculine norms. We used a single reference category of no disability/low conformity. We then calculated effect measure modification (EMM) on both the multiplicative and additive scales.

Interactions on the multiplicative scale were computed by using a cross product term; conformity to self-reliance norms×disability status. A PRR equal to 1 indicates a lack of evidence for EMM on the multiplicative scale.

Additive EMM was calculated using the relative excess risk of interaction (RERI) method detailed by VanderWeele and Knol (VanderWeele & Knol, 2014). RERI estimates the prevalence that exceeds what might be expected if the combined effects of self-reliance and disability were purely additive (Knol & VanderWeele, 2012). A RERI equal to 0 indicates no evidence of EMM on the additive scale.

3. Results

3.1. Summary characteristics

Table 1 shows the characteristics of the analytic sample. Compared to men without disability, a greater proportion of men with disability: were older (45–55 years), were born in Australia, were living in areas of greatest disadvantage, and identified as Aboriginal or Torres Strait Islander. A smaller proportion of men with disability had completed Year 12 (High School), compared to men without disability, while a greater proportion of men with disability experienced moderate or severe depressive symptoms.

3.2. Effect measure modification

Table 2 displays the prevalence risk ratios (PRRs) for results of the adjusted analysis of EMM. The non-disability/low self-reliance is the reference group.

Self-reliance was associated with an increased risk of depressive symptoms. However, regardless of conformity to the self-reliance norm, depressive symptoms were worse among men with a disability. Among men without a disability, heightened conformity to self-reliance was strongly associated with increased depressive symptoms (PRR: 2.64, 95% CI 2.25, 3.10, p-value < 0.001). For men with a disability, the risk of depressive symptoms was substantially greater among those
4. Discussion

This study is the first that we are aware of to apply an intersectional lens to examine axes of disadvantage among men with disability. Specifically, we sought to examine the way that conformity to the self-reliance masculinity norm might modify the relationship between disability and depressive symptoms. In doing this, we demonstrated that the intersection between disability and a specific dimension of masculinity, self-reliance, can exert a deleterious effect on the mental health of men with disabilities. While self-reliance is harmful to the mental health of the broad population of men, and having a disability has a negative effect on the mental health of men, the intersection of these identities and positions acts to amplify their effects on the mental health of men with disabilities.

4.1. The effect of disability

While we observed statistical evidence of EMM on the additive scale for this specific masculinity subscale in relation to disability and mental health, what is most notable in these results is the stark difference between those with and without a disability. Substantially more men with a disability were classified as having moderate or severe depressive symptoms than those without a disability. This pertained to men with both low and high conformity to the self-reliance subscale: regardless of the extent to which the self-reliance subscale was conformed to, men with a disability had an increased risk of having depressive symptoms compared to men without a disability.

These results are also concordant with previous research that has demonstrated significant associations between having a disability and poorer mental health (Emerson, Llewellyn, Honey, & Kariuki, 2012; King et al., 2018; World Health Organization, 2011). These associations have been observed across the life-course, including among adolescents reporting high conformity to self-reliance (PRR: 9.40, 95% CI 7.88, 11.22, p-value < 0.001). The stratum specific estimates convey the strong effect of disability on depressive symptoms: for men with low self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). Similarly, for men reporting high self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). The stratum specific estimates convey the strong effect of disability on depressive symptoms: for men with low self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). Similarly, for men reporting high self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). The stratum specific estimates convey the strong effect of disability on depressive symptoms: for men with low self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). Similarly, for men reporting high self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). The stratum specific estimates convey the strong effect of disability on depressive symptoms: for men with low self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001). Similarly, for men reporting high self-reliance, those with a disability had a higher risk of having depressive symptoms than those without a disability (4.92, 95% CI 3.86, 6.27, p < 0.001).
Studies among people acquiring a disability enable the assessment of the causal effect of disability on mental health, because the temporal sequencing between disability and mental health is clear. Such studies have demonstrated that the acquisition of disability is associated with a decline in mental health (Kavanagh et al., 2015; Lucas, 2007), however the effect of disability appears to be buffered by wealth (Kavanagh et al., 2015) and education (Mandemakers & Monden, 2010). This aligns with the social model of disability, which recognises that the way society is organised presents barriers that restrict participation and choices of people with disability (Oliver, 1990; Reeve, 2006; Thomas, 1999). This includes discrimination and attitudes: both of which are known to impose mental health burdens on those affected (Hatzenbuehler, Phelan, & Link, 2013; Krajacki et al., 2018). Furthermore, men with a disability may have a negative sense of self, owing to stigma and exclusion, or due to the difficulties of life with illness or impairment.

### 4.2. The effect of self-reliance

Stratum specific results indicate that regardless of disability status, high conformity to self-reliance masculine norms was associated with significantly poorer mental health. This is consistent with other research that has demonstrated associations between conformity to self-reliance masculine norms and suicidal ideation (Pirkis, Spittal et al., 2017) and poorer mental health (Milner et al., 2018). High conformity to self-reliance has also been shown to be related to risky health behaviours (and less health promoting behaviours) (Mahalik, Levi-Minzi, & Walker, 2007). Self-reliance is considered to be tied to masculine norms related to independence and stoicism – characteristics that, along with physical toughness and strength, are clearly valorised in certain masculine contexts and arenas such as sport (Addis & Mahalik, 2003). The self-reliance items in the CMNI-22 reflect attitudes to help-seeking, and indeed evidence suggests that high conformity to self-reliance inhibits help-seeking (Addis & Mahalik, 2003). While self-reliance may serve men well in certain contexts, feeling unable to seek help in times of need or crisis is likely disadvantageous to mental health. It is speculated that men who conform to masculine norms related to self-reliance and emotional control may find it difficult to have positive relationships with others, and may experience patterns of social isolation due to difficulties engaging in interpersonal relationships (Mahalik et al., 2005).

#### 4.3. The intersection of disability and self-reliance

The results of the EMM were somewhat contradictory: on the additive scale, there was evidence to support positive EMM, that is, that having a disability and strongly conforming to self-reliance was associated with greater risk of depressive symptoms than the sum of the estimated effect of disability alone, and the estimated effect of self-reliance alone. On the multiplicative scale, however, there was evidence of negative EMM: that is, the joint effect of disability and self-reliance was less than the product of the estimated effect of disability alone and the estimated effect of self-reliance alone. This however, is likely due to the substantial and detrimental effect of having a disability over-riding other axes of disadvantage. We also note that the additive scale is preferred for public health purposes, as it indicates the extent to which a risk factor exerts a greater effect on outcomes in one population compared with those of another population (Knol & VanderWeele, 2012). In terms of the results for EMM on the additive scale, it is clear that the detrimental mental health effects of conforming to self-reliance norms are greater for those men with a disability.

Applying intersectionality theory provides a useful framework upon which to view these results, as it enables assessment of the impact of simultaneous processes and systems of power and oppression, including ableism (Hankivsky et al., 2014). Notwithstanding the apparent detrimental mental health effect of conformity to self-reliance norms on all men, there are several possible reasons why the effects were particularly observed among men with disabilities. Ableism intersects with
hegemonic masculine ideals, and this is the backdrop against which this population of men establishes and views their identity. Within most societies and contexts, there is a ‘currently accepted’ masculine ideal that attains a hegemonic position (Connell, 2005). The constitution of this accepted or ideal masculinity, expressed in terms of earning and being the breadwinner, as well as physical competence and strength, may exclude men who cannot meet these aspects of masculinity, including men with disabilities (Connell, 2005). For men with disabilities, this dissonance between their masculine identity, and their disability identity may exert a detrimental effect on their mental health.

It has previously been speculated that high conformity to self-reliance observed among men with disabilities may indicate that self-reliance constitutes a dimension of masculinity that is attainable for men with disabilities, and that coheres with their own construction of masculinity (King, Shields et al., 2019). While these results do not contravene the postulated attainability or importance of self-reliance for men with a disability, they suggest that if self-reliance is attainable, it is disadvantageous to men with a disability.

Other research has documented powerlessness, and a sense of frustration at perceived dependence on others among men with disabilities (Joseph & Graham, 2007; Ostrander, 2008). A sense of agency, independence and self-reliance are fundamental to normative constructions of masculinity (Barrett, 2014; Joseph & Graham, 2007). It is therefore possible that the discordance between masculine ideals of self-reliance, and perceived powerlessness or dependence acts to exert a negative effect on the mental health of men with disabilities. These effects may be compounded by norms that prevent help-seeking. Alternatively, aligning with the social model, it is possible that trying hard to be independent and self-reliant in a world which excludes and disempowers you is stressful, and has a damaging effect on the mental health of men with disabilities. Further work, ideally using qualitative methods, is needed to understand the relationship between self-reliance and mental health among men with disabilities.

4.4. Strengths and limitations

There are several limitations to this analysis. Applications of quantitative methods to intersectionality remains inchoate. Other researchers have noted the need for an eco-epidemiologic approach that allows for the simultaneous investigation of between group variation and within group variation (Green et al., 2017): the effect measure modification methods used here cannot assess such variation.

Secondly, disability can be measured in multiple ways (Simeonsson et al., 2003), and it is possible that the measure used in this study inadequately captured disability. One criticism of the Washington Group questions (used in this study) is that they do not sufficiently capture mental health conditions (Sabarioe et al., 2015). However, in this analysis, this constitutes a strength as it means that potential conflation between the exposure and outcome was minimised.

Our measure of disability operationalised disability according to self-reported functioning on six domains in a way that assumes an equivalence of conditions that is unlikely to match reality. In other words, impaired functioning on one domain is not equivalent to impaired functioning on other domains. Secondly, as noted, masculinity is a contestable, shifting construct. We examined one posited construct of masculinity, self-reliance; however we note that the relationship between disability and masculinity is likely to vary by disability impairment type and domain of masculinity. There is some evidence that men who have intellectual disabilities may be less likely to conform to normative masculine ideals (Wilson, Parmenter, Stancliffe, & Shuttleworth, 2013). This research is unable to tease out the nuances of such associations. Experiences of masculinity and disability are also likely to vary depending on whether a disability is present at birth or acquired later in life—for men who acquire a disability later in life, their masculine identity precedes their disability, whereas for those born with a disability, their masculine identity is forged concurrent with their disability identity.

While the CMNI has demonstrated good psychometric properties (Mahalik et al., 2003), it was developed among white college students in the United States. There is evidence that masculinity is understood, experienced and expressed differently across different ethnic groups and cultural contexts (Griffith, Gunter, & Watkins, 2012). While our analyses controlled for Indigenousity and country of birth, the extent to which masculine norms developed to reflect mainstream American values, are applicable to Australian society, is not known.

As questionnaires for this research were self-completed it is possible that those with an intellectual disability or visual impairment may be under-represented in analyses.

We also note that the relationship between disability, masculinity and occupation is complex. While education, country of birth, Indigenous status, and age are all clearly confounders of the relationship between disability and masculinity, it is less clear that occupation is a confounder and for this reason, our regression models did not control for occupation. Disability could be a prior cause of occupation (in which case occupation is a mediator), and occupation could be a prior cause of disability (in which case it is a confounder).

We note several strengths of this paper. Firstly, the use of intersectional methods advances understanding of how different social processes and identities impact on the health and wellbeing of men with disabilities. Secondly, we used a large representative dataset. Thirdly, we used a validated measure of disability. While the Washington Group short set of questions on disability do not capture all experiences of disability, the questions have been validated in many countries, cover most common functional limitations, and permit cross-national comparisons (Madans & Loeb, 2013).

4.5. Conclusions

Taking an intersectional lens and using effect measure modification methods enabled us to extend existing knowledge and interrogate the way that disability intersects with the specific masculine norms of self-reliance, to affect mental health. Our results provide important new insights regarding this intersection of disability and self-reliance norms, and how this exerts effects on mental health. We found evidence of EMM of the relationship between disability and mental health by self-reliance, such that disabled men who reported higher conformity to self-reliance had much worse mental health, as measured in terms of depressive symptoms.

It was also clear however, that regardless of level of conformity to masculine ideals of self-reliance, men with disabilities had poorer mental health than those without.

These results have important implications for the delivery of services to men with disabilities, as they firstly highlight the mental health differences between men with and without disabilities, and further indicate that the intersection of disability and self-reliance norms exerts a particularly damaging effect on mental health. This suggests a role of practitioners and advocates in ensuring that men with disabilities have both the necessary assistive technologies, as well as enabling environments, to support them to be successfully self-reliant. A second priority for practitioners and advocates is to encourage men with disabilities to accept support where it is needed.

Given that men with disabilities are more likely to rely on help and support from others, it is important that training for disability carers, personal assistants, and support workers recognises that high conformity to self-reliance can be damaging, and that interventions respect, challenge and accommodate this.

Disclosures

Declarations of interest: none.
Ethics statement

Data for this study was drawn from the Ten to Men study, an Australian Longitudinal Study on Male Health (Pirkis, Currier et al., 2017). Ten to Men received approval from the University of Melbourne Human Research Ethics Committee and conformed to the principles embodied in the Declaration of Helsinki. Informed consent was obtained from all individual participants included in the study. Access and use of Ten to Men is available publicly. Researchers can apply to the Australian Institute of Family Studies (https://entomen.org.au/index.php/researchers.html).

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Appendix A. Supplementary data

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References

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