ABSTRACT

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2 Background

- 3 People with disabilities are socio-economically disadvantaged and have poorer
- 4 health than people without disabilities; however, little is known about the way in
- 5 which disadvantage is patterned by gender and type of impairment.

6 Objectives

- 7 1. To describe whether socio-economic circumstances vary according to type of
- 8 impairment (sensory and speech, intellectual, physical, psychological and acquired
- 9 brain injury)
- 2. To compare levels of socio-economic disadvantage for women and men with the
- 11 same impairment type

12 Methods

- We used a large population-based disability-focused survey of Australians, analysing
- data from 33,101 participants aged 25 to 64. Indicators of socio-economic
- disadvantage included education, income, employment, housing vulnerability, and
- multiple disadvantage. Stratified by impairment type, we estimated: the population
- weighted prevalence of socio-economic disadvantage; the relative odds of
- disadvantage compared to people without disabilities; and the relative odds of
- disadvantage between women and men.

Results

- 21 With few exceptions, people with disabilities fared worse for every indicator
- compared to people without disability; those with intellectual and psychological

impairments and acquired brain injuries were most disadvantaged. While overall women with disabilities were more disadvantaged than men, the magnitude of the relative differences was lower than the same comparisons between women and men without disabilities, and there were few differences between women and men with the same impairment types.

Conclusions

Crude comparisons between people with and without disabilities obscure how disadvantage is patterned according to impairment type and gender. The results emphasise the need to unpack how gender and disability intersect to shape socioeconomic disadvantage.

INTRODUCTION

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In Australia and internationally people with disabilities are socio-economically disadvantaged compared to people without disabilities (1, 2). From a health perspective, this is important as there is now a well-established evidence-base demonstrating a causal relationship between socio-economic circumstances and health, with health deteriorating with increasing disadvantage (3). Thus the disadvantaged circumstances in which people with disabilities live are likely to have flow on effects for their health. In Australia, and internationally, people with disabilities have poorer health than people without disabilities including a worse profile of risks factors and behaviours (e.g. obesity, participation in breast and cervical cancer screening) and health conditions (e.g. diabetes) (4, 5). While few studies have assessed the relative contribution of disadvantage to the poorer health of people with disabilities, research among young Australians suggests that it is likely to be substantive (6). International agencies including the World Health Organization (WHO), the World Bank and the United Nations have identified the need to improve educational, economic, social, and health outcomes for people with disabilities through policy reform and service development (2, 7). Similar recommendations have been made in the Australian National Disability Strategy (8). However, these international agencies and the Australian government recognise the limitations of current data for informing and monitoring interventions, as results are rarely disaggregated by demographic characteristics such as age, sex and ethnicity (2, 8-10). This paper addresses some of these gaps. First, we describe socio-economic inequalities (e.g. education, employment) between people with and without disabilities according to the type of impairment (e.g. physical, intellectual), and

second, to assess whether there are gender-based inequalities among people with disabilities, we compare the socio-economic circumstances of women and men with the same types of impairments.

Social and economic disadvantage and disability

Australians with disabilities have higher levels of socio-economic disadvantage than people with disabilities in economically similar countries. For example, adult Australians with a disability earn on average 68% of the income of those without disabilities - the lowest relative income of the 27 countries in the Organisation for Economic Cooperation and Development (OECD) (1).

Type of impairment and disadvantage

Previous research has paid scant attention to the ways in which socio-economic disadvantage (measured by indicators such as education, income, labour force participation and housing) varies for people with different impairments. In relation to education, one Australian study reported variation in secondary school completion rates by the type of impairment, with students with mental illness having the lowest rates and students with sensory impairments having the highest rates (but five percent lower than for students with no impairment) (11).

No Australian research that we are aware of has examined whether income varies for people with different types of impairments.

An analysis of the 2003 Australian Survey of Disability, Ageing and Carers (SDAC) showed large discrepancies in labour force participation rates according to impairment type, with people with a mental illness reporting the lowest overall labour force participation rates (12) - a finding that is consistent with other countries (13-15).

In terms of housing, people with disabilities are more likely to experience housing-related disadvantage, such as affordability problems (16) and housing insecurity (17), and are over-represented within Australia's welfare housing sector (18). People with psychological disabilities have the most housing problems, including prolonged periods of homelessness while those with sensory impairments have housing profiles similar to the general Australian population (17, 19).

There are many reasons why we might expect to observe differences in socioeconomic circumstances for people with different types of impairments. Differences
may arise because of limitations related to the impairment itself as well as
environmental barriers. For example, lack of wheelchair access to office buildings
precludes participation in the workforce for some people with physical impairments,
and endemic discriminatory attitudes towards people with mental illness may make it
difficult for people with psychological impairments to secure and retain jobs (20, 21).
Employment opportunities by impairment type may occur due to changes in
Australia's industrial base from a manufacturing-based economy to one focused on
services. There may be differences in the amenability of manufacturing compared to
service businesses in making work available for people with physical versus
psychological or intellectual disabilities.

Gender and disability

Although the overall prevalence of disabilities is similar for women and men in Australia (women 19%, men 18%) (22), disabilities are gendered in their acquisition and possibly their enactment (23). For example, dominant norms of masculinity, such as risk-taking, place men at higher risk of accidents that may result in physical impairments. Men are more likely to be employed in manual jobs and so have higher risk of exposure to physical and chemical hazards (24). Women have higher rates of depression and anxiety which has been attributed to a range of gender-related factors including experiences of gender-based discrimination and violence (25), the increased likelihood that women's work is unstable and low paid (26), poorer psychosocial working conditions (higher prevalence of job strain, sexual harassment, and low job control) (27-29), and the challenges of combining paid work and family roles (30-32).

Gender, disability and socio-economic disadvantage

Gender-based discrimination occurs across a number of levels - institutional, community, interpersonal relationships and family life, as well as intrapersonally (33). In Australia, women are less likely to be in parliament or have high level positions, receive lower incomes for the same work, are more likely to be employed in poorly-remunerated caring professions, have reduced access to economic resources within households, are more likely to live in poverty, and as a consequence live in insecure housing and experience food insecurity (34, 35). While there is clear evidence that women are more disadvantaged than men across a range of socio-economic indicators it is less clear whether these gender differences are found for people with disabilities. In the 2009 SDAC survey the unemployment rate for women with

disabilities was 7.8% compared to 7.3% for men with disabilities and labour force participation rates were lower (49.0% versus 58.9%) (22). However, data have not been sex-disaggregated in the reporting of other socio-economic outcomes.

The limited evidence on gender-based disadvantage among people with disabilities has been interpreted as the 'double disadvantage' that women with disabilities face on account of both their gender and disability (35-37). It has been argued that while men with disabilities experience discrimination due to their disability they are still able to access the privileges that arise from being a man, while women with disabilities are discriminated against on both fronts (35). However, there may be a much more complex interplay between gender and disability. First, differences in the prevalence of types of impairments may explain observed gender differences in disadvantage. For example, boys are more likely to have developmental impairments than girls(38) which are likely to be associated with poorer socio-economic outcomes than other types of impairments. Second, men with disabilities may not have the same access to male privilege as men without disabilities. Qualitative studies have shown that both women and men with disabilities may be construed as weak, dependent and childlike, potentially reducing the capacity of women and men to enact dominant forms of femininity and masculinity (37, 39, 40).

Gender may also play out differently for women and men with different impairment types. For example, it has been argued that for people with intellectual disabilities, which are usually lifelong, expectations regarding conformity to dominant gender norms may be less than for other types of impairments (40). By contrast, people who acquire a physical disability such as paraplegia later in life may have already

established gender practices and identities and will need to renegotiate these in the context of their acquired disability (40). Men who have physical impairments may be excluded from male-dominated blue-collar jobs, and women with physical disabilities may be less able to be employed in feminised caring professions such as nursing (41).

- In this paper, we use data from the Australian SDAC survey conducted in 2009, to address two questions:
 - 1. Does type of impairment (sensory and speech, intellectual, physical, psychological and acquired brain injury) affect the likelihood of living in socioeconomic disadvantage (using indicators including education, income, employment, housing vulnerability and multiple disadvantage)?
 - 2. Do gender-based socio-economic inequalities exist for people with disabilities and, if so, to what extent, for what types of impairment, and for which indicators?

METHODS

Data source

We analysed the Confidentialised Unit Record File (CURF) of the 2009 SDAC survey, a cross-sectional national survey conducted by the Australian Bureau of Statistics (ABS) from April to December 2009 (42). The primary objective of the survey was to collect data on people who had a disability or long-term health condition and people aged 60 years and over, through face-to-face interviews with trained interviewers. The SDAC was conducted using a stratified multi-stage sample of individuals living in both private and non-private dwellings. Non-private dwellings (including cared accommodation) were sampled separately to private dwellings to ensure they were adequately represented. The response rate of the survey was 89.9%.

The survey included 72,075 people, with a population weighted estimate of the prevalence of disability of 18.6%. We restricted our analysis to working-age adults, defined as 25 to 64 year olds (37,641 people excluded), and excluded 845 people living in cared accommodation as there were limited data collected on this subgroup). We also excluded 488 people who reported an impairment type classified as 'other' and no other impairment type.

Disability measures

The ABS uses the WHO International Classification of Functioning, Disability and Health (2001) to identify disability and the associated level of restriction (43).

Participants were defined as having a disability if they had a limitation, impairment or restriction in everyday activities that had lasted, or was likely to last, for six months or

more. One hundred and forty nine questions were used to identify whether a participant had a disability, and the underlying conditions causing the disability. The impairments were collapsed into six categories: sensory and speech (sight problems not corrected by glasses, hearing or speech problems); intellectual (difficultly learning or understanding things); physical (including problems such as blackouts, difficulty gripping things, limited use of legs or feet and chronic pain); psychological (mental illness or a nervous or emotional condition), acquired brain injury (head injury, stroke or other brain damage), and other impairment (health conditions such as migraines). Those classified as having no disability may have reported long-term health conditions (e.g. hypertension or asthma) that did not satisfy the definition of disability.

Socio-economic outcomes

Four individual indicators of socio-economic disadvantage were used: low education, low income, not in paid employment and a measure of housing vulnerability. All outcomes were categorised as binary variables. Low education was defined as not completing secondary education (year 12 in Australia). Participants were categorised as low income if their personal income was in the lowest 30% of the income distribution. Not being in paid employment included people who were either unemployed or not in the labour force. Housing vulnerability referred to low income private renters, defined as people who were in the private rental market and had a personal income in the lowest 30% of the income distribution. In the Australian housing market, where almost 70% of the population are home owners or mortgage holders, private rental housing represents a comparatively small proportion of the

223 market (~25%)(44), and low income private renters have been highlighted as a group 224 especially vulnerable to housing stress (45). 225 226 Multiple disadvantage was defined as people experiencing three or more of the individual indicators. For all analyses, the more advantaged category was used as 227 228 the reference category. 229 230 Statistical analysis 231 Descriptive analyses 232 First, we calculated population weighted estimates of the prevalence of overall 233 disability and each impairment type for women and men separately. We then 234 estimated the population weighted prevalence of each socio-economic indicator according to disability status, impairment type and gender. 235 236 237 Regression analyses We used population weighted unconditional univariate logistic regression models to 238 239 estimate associations between disability and each of the socio-economic indicators. 240 To assess the relative effects of different impairment types we conducted separate 241 regression analyses of the associations between each impairment type (where the 242 reference category was people without a disability) and each of the socio-economic 243 indicators. Because there was evidence of a statistically significant interaction 244 between gender and disability, analyses were conducted separately for women and 245 men.

We used the same approach to assess whether there were gender inequalities among people with disabilities, calculating the relative odds of socio-economic disadvantage comparing women to men, among all people with disabilities and within each impairment type. Finally, we provided the estimates of the relative odds of disadvantage for each indicator for women compared to men, among people without disabilities, as a point of comparison.

The results of the regression analyses are presented in graphs as odds ratios and 95% confidence intervals. Analyses were conducted in Stata 12.1 using survey commands, person weights and jackknife replicate weights (46).

RESULTS

The sample consisted of 33,101 people (16,533 women and 16,568 men).

Prevalence of disability and types of impairments

Nearly 16% of the population reported a disability and the prevalence was similar for women (15.7%) and men (15.4%). The most common types of impairments were physical impairments, followed by sensory and speech impairments, psychological impairments, intellectual impairments and acquired brain injuries. Women had a lower prevalence of sensory and speech and intellectual impairments and a higher prevalence of physical and psychological impairments than men (Table 1). The prevalence of multiple impairments in the population was estimated to be 4.2%.

--- Please insert Table 1 ---

Disability and socio-economic disadvantage

Figure 1 shows that people with disabilities had higher levels of disadvantage across all socio-economic indicators.

Impairment type and disadvantage

The prevalence of all indicators of disadvantage was higher for women and men with disabilities (for all impairment types) compared to their same-sex counterparts without disabilities (Table 2). Among people with disabilities, women and men with sensory and speech impairments tended to experience the lowest levels of socioeconomic disadvantage, followed by women and men with physical impairments, whereas women and men with intellectual impairments, psychological impairments and acquired brain injuries had the highest prevalence of disadvantage.

--- Please insert Table 2 ---

Figure 2 (columns 1 & 2) shows the results of the logistic regression analyses comparing the relative odds of socio-economic disadvantage between people with disabilities and people with no disability, by impairment type. This reaffirms the results described above, but additionally provides an estimate of the extent of the socio-economic inequalities. The odds of disadvantage were higher among people with a disability and, in general, appeared to be highest in those with psychological and intellectual impairments and acquired brain injuries. Of particular note were the low levels of paid employment. The odds ratios of not being in paid employment ranged from 4.0 (95% CI 3.3, 4.8) for women with sensory and speech impairments to 11.1 (95% CI 8.9, 13.9) for women with psychological impairments compared to women with no disability; and for men the odds ratios ranged from 7.0 (95% CI 5.9, 8.3) for men with sensory and speech impairments to 27.9 (95% CI 21.2, 36.7) for men with psychological impairments compared to men with no disability.

--- Please insert Figure 1 ---

With the exception of low education, the magnitude of the associations between impairment types and socio-economic disadvantage was greater in men than in women (higher odds ratios) (Figure 2). However, this is likely to be due to the fact that among people without disabilities, women are more likely to be disadvantaged than men (Table 2).

Gender, disability and socio-economic disadvantage

The odds ratios in Figure 2 (column 3) show the gender differences in socioeconomic outcomes among people with disabilities (and for each impairment type)
and, as a comparison, among people with no disability. Overall, women with
disabilities had slightly elevated odds of living on a low income, not being in paid
work and experiencing multiple disadvantage compared to men with disabilities, but
experienced similar levels of low education and housing vulnerability.

In general, women and men with the same impairment types experienced similar levels of socio-economic disadvantage, although there were some gender differences in not being in paid employment in which women fared worse than men. As a comparison, among people with no disability the gender gap was more pronounced. Women had higher odds of living on low income, not being in paid work, housing vulnerability and experiencing multiple disadvantage compared to men.

DISCUSSION

Statement of Principal Findings

People with disabilities fared worse for every indicator of socio-economic disadvantage compared to people without disability, with the exception of housing vulnerability for women and men with sensory and speech impairments, and low income for women with intellectual impairments. Women and men with intellectual and psychological impairments and acquired brain injuries were at particularly high risk of disadvantage. There were extremely high levels of inequality in paid employment; for example men with psychological impairments and acquired brain injuries had nearly 30 times the odds of not being in paid employment compared to men without disability. Another major concern is the high prevalence of multiple disadvantage for people with all types of impairments, ranging between 17.9% and 35.4%. The intersections between different domains of disadvantage may have multiplicative effects on the long-term health of people with disabilities (47).

With the exception of the indicators of low education and housing vulnerability, we replicate previous research showing that overall women with disabilities are more disadvantaged than men with disabilities. However, the magnitude of these relative differences was much lower than the same comparisons between women and men without disabilities. This suggests that gender may be operating in different ways when disability is present. This hypothesis is further supported by our findings that, in the main, gender differences in socio-economic outcomes were not evident when women and men with the same impairment types were compared.

Comparisons to other studies

Our findings are similar to other studies, with people with psychological impairments having higher prevalence of non-participation in paid employment than those with physical and sensory impairments (13, 15). Differences in levels of low income were less pronounced but showed a similar pattern, with those with intellectual impairments or acquired brain injuries faring the worst. This is most likely due to low rates of workforce participation as well as these groups having lower wages when employed (13, 15). With respect to completion of secondary education, we found similar patterns as have been observed previously, with people with physical or sensory and speech impairments having the highest completion rates and people with intellectual or psychological impairments having the lowest (11). As most intellectual impairments are lifelong the lower levels of educational achievement are perhaps not surprising. Psychological impairments tend to become manifest in youth and early adulthood potentially disrupting educational trajectories. In terms of housing vulnerability, our findings are consistent with those of Beer and Faulkner (17, 19) who also found those with psychological impairments had poor housing outcomes such as housing insecurity.

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Strengths and limitations

Our analysis has important strengths. We examined socio-economic indicators across several domains and a range of impairment types. For the first time that we are aware, we compare levels of disadvantage experienced by women and men with the same impairment types.

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There are also limitations. First, we excluded people who only reported an impairment which was categorised as 'other' as this was a heterogeneous category,

however this only constituted 1.5% of the population. Second, we use an indicator of personal income as household income was not available in the dataset. It is possible that people with disabilities have access to resources from other members of the household. However, despite this limitation, these indicators represent a person's access to their own socio-economic resources. Third, we use education as an indicator although it is likely to reflect childhood circumstances. However, education is also a marker of future labour market opportunities. Finally, the study is cross-sectional so it is not possible to determine the direction of the associations between socio-economic disadvantage and disability.

Interpretations

We consistently found that people with sensory and speech impairments had better outcomes than other impairment types. In Australia, people with vision impairments receive non-means tested income support (vision impairments make up approximately one fifth of this group). Additionally, most vision and hearing impairments are acquired later in life (48) when people are more likely to be financially secure.

The particularly low levels of participation in paid work for those with psychological impairments may be due to the lack of investment in finding employment for this group. It is also possible that jobs and workplaces are more easily adapted for people with sensory and speech and physical impairments than for those with psychological impairments, or that employers are more willing to make changes to the physical work environment rather than adapting jobs for people with intellectual or psychological impairments. With respect to discrimination, there is

evidence to show that in general people have the most favourable attitudes towards people with physical impairments, while those with psychological impairments are the most stigmatised (49-51). People with psychological impairments report experiencing discrimination at higher levels than people with other disabilities (52). Both employers and co-workers hold discriminatory attitudes towards people with psychological impairments in the workplace (51, 53, 54); employers are less likely to hire people with psychological impairments and are less likely to promote them to executive positions (55). These findings have led to the development of workplace-based mental health anti-stigma interventions (56).

Our findings with respect to gender-based inequalities potentially challenge current orthodoxy regarding the 'double disadvantage' that women with disabilities experience particularly when comparing women and men with the same impairment type. This finding requires further investigation. As highlighted in the introduction, men with disabilities may not be able access the same resources available to other men because of what Shuttleworth *et al.* (2012) describe as their 'disabled masculinity' (39, 40, 57). The fact that we report few gender differences in the patterning of socio-economic disadvantage among people with different impairment types does not negate the importance of gender. Access to male privilege *per se* does not naturally flow from being a man but requires the enactment of hegemonic forms of masculinity which may not available to men with disabilities who may experience more marginalised forms of gender identity and practice. While we do not find as many gender-based socio-economic inequalities among people with a disability as expected, women with disabilities do experience health consequences

on account of their gender including high levels of gender-based violence(58) and forced sterilisation (59).

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Implications for policy and future research

Improving participation in the paid workforce for people with disabilities provides the greatest opportunity for achieving better living conditions and the health and wellbeing of people of disabilities. The Australian Institute of Health and Welfare (AIHW) notes that the use of employment services by persons with a disability has grown by 75 percent since 2005-2006 (60). The revised Disability Employment Services (which aims to assist those with a disability, injury or health condition to find and keep a job) was introduced in 2010 after these data were collected, however based on the interim evaluation of these services, placement in employment is low (24% of service users remain in a job at 13 weeks) (61). The National Disability Insurance Scheme, introduced in July 2013 in four locations around Australia provides individual support packages for people with severe permanent disabilities up to 65 years of age. These packages provide access to a range of services (such as personal assistance). Because disabilities are more likely to be severe among people with intellectual and psychological impairments and acquired brain injuries (data not shown), it is possible that the very high levels of inequalities found in these groups will be reduced. However, people with severe and profound impairments make up less than one quarter of people with disabilities, therefore significant inequalities may remain.

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CONCLUSION

In sum, we found that levels of socio-economic disadvantage were high for people with all impairment types, with those with psychological and intellectual impairments and acquired brain injuries being most disadvantaged. The areas of most concern are education and employment, which have flow-on effects to income, housing and health. From a public health perspective, improving the socio-economic conditions of people with disabilities should reduce disability-based health inequalities and reduce the economic costs of the poor health of people with disabilities.

Our finding that there are few differences in socio-economic disadvantage for women and men with the same types of impairments needs to be examined in other studies. It does however emphasise the need to unpack how gender and disability intersect to shape socio-economic disadvantage.

ABBREVIATIONS

ABS, Australian Bureau of Statistics; AIHW, Australian Institute of Health and Welfare; CURF, Confidentialised Unit Record Files; OECD, Organisation for Economic Cooperation and Development; SDAC, Survey of Disability, Ageing and Carers; WHO, World Health Organization

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FIGURE CAPTIONS

Figure 1 Logistic regression analyses of the association between disability (by impairment type) and each indicator of socio-economic disadvantage and the association between gender and socio-economic disadvantage among people with and without disabilities (by impairment type)

Description: This figure shows the relative odds of each indicator of socio-economic disadvantage for people with a disability and each impairment type compared to those with no disability, for women (column 1) and men (column 2), and the relative odds of each indicator of socio-economic disadvantage for women compared to men within each impairment type (column 3).

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