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Cohort profile: workers’ compensation in a changing Australian labour market: the return to work (RTW) study

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ABSTRACT
Purpose Workers’ compensation claims for older workers and workers who have suffered psychological injury are increasing as a proportion of total claims in many jurisdictions. In the Australian state of Victoria, claims from both these groups are associated with higher than average wage replacement and healthcare expenditures. This cohort profile describes a longitudinal study which aims to investigate differences in the return to work (RTW) process for older workers compared with younger workers and claimants with musculoskeletal injuries compared with those with psychological injuries.

Participants This prospective cohort study involved interviewing workers’ compensation claimants at three time points. The cohort was restricted to psychological and musculoskeletal claimants. Only claimants aged 18 and over were recruited, with no upper age limit. A total of 869 claimants completed the baseline interview, representing 36% of the eligible claimant population. Fifty-one per cent of participants agreed at baseline to have their survey responses linked to administrative workers’ compensation data. Of the 869 claimants who participated at baseline, 632 (73%) took part in the 6-month follow-up interview, and 572 (66%) participated in the 12-month follow-up interview.

Findings to date Information on different aspects of the RTW process and important factors that may impact the RTW process was collected at the three survey time points. At baseline, participants and non-participants did not differ by injury type or age group, but were more likely to be female and from the healthcare and social assistance industry. The probability of non-participation at follow-up interviews showed younger age was a statistically significant predictor of non-participation.

Future plans Analysis of the longitudinal cohort will identify important factors in the RTW process and explore differences across age and injury type groups. Ongoing linkage to administrative workers’ compensation data will allow examination of wage replacement and healthcare service use prior to, and in between interviews, as well as longer term administrative follow-up of participants.

Strengths and limitations of this study
► This longitudinal cohort is one of the first designed to compare the return to work process of claimants with work-related musculoskeletal injuries and psychological injuries.
► The survey content included questions regarding the different aspects of the return to work process (eg, interactions with supervisors and claims agents) and any important factors that may impact the return to work process (eg, work characteristics, self-efficacy).
► Linkage to administrative workers’ compensation data will allow examination of wage replacement and healthcare service use prior to, and in between interviews, as well as longer term administrative follow-up of participants.
► As claimants were interviewed on average 3–4 months after their claim was accepted, recall of certain details such as preinjury work environment may be challenging.
► The overall baseline recruitment rate of 36% is also a potential limitation; however, a high retention rate was achieved at follow-up, with response rates of 73% at first follow-up and 66% at second follow-up.

INTRODUCTION
Workers’ compensation refers to a system with a central mandate of compensating workers who have sustained a work-related injury or illness1 for both loss of employment income (wage replacement) and the cost of healthcare and associated services related to the injury. Workers’ compensation systems are the primary system involved in the management of work-related injuries and illnesses in many jurisdictions, in countries such as Australia, New Zealand, Canada, Germany and the USA. In Australia, various state, territory and commonwealth workers’ compensation systems cover approximately 86% of the workforce, equating to approximately

1The term ‘injury’ and ‘injuries’ will be used to refer to both injury/injuries and illness/illnesses for the remainder of the paper.
10.5 million workers. In the 2011–2012 financial year, there were just over 128,000 workers’ compensation claims accepted that involved a week or more of incapacity from work, with the total expenditures of workers’ compensation agencies in Australia being $7.8 billion (AUD).1

A system of compulsory insurance was first introduced in New South Wales in 1926 and formed the model for most workers’ compensation systems in Australia.2 These systems were originally designed in a labour market where workplace hazards were easily identifiable, and the resulting workplace injuries were easily diagnosed, with relatively clear treatment guidelines in place.3 Since the development of workers’ compensation systems, there have been important changes in the composition of the Australian labour market, the types of injuries sustained and the demographic profile of injured workers and workers’ compensation claimants. In particular, compensation claims from older workers and workers who have suffered psychological injury are increasing in many Australian jurisdictions.4–6 Claims for psychological injury and claims from older workers are associated with above average wage replacement and healthcare expenditures.1,6–8 These changes are not limited to the Australian labour market, with an ageing workforce also observed in various European countries,5 Canada10 and the USA.11 In addition, concern regarding the rise of mental health problems and the associated impact on workers’ compensation claims is highlighted in numerous international studies.12–14 These changes have important consequences for the effectiveness of policies and programmes designed to prevent workplace injury and facilitate recovery and return to work (RTW).

Various studies show that RTW is influenced by factors at the system, workplace and healthcare provider levels15–17; however, much of this research has been generated from studies on work-related back problems and upper extremity musculoskeletal (MSK) conditions.18–23 The extent to which these findings are directly transferrable to other types of injuries is not known.24 Further, while age is often included as a covariate in research studies, few studies have specifically examined factors associated with age differences in the RTW process. As a result, it is not currently well understood whether factors that are important for RTW for people with MSK conditions are the same as those for workers with psychological conditions, and what differences exist in the RTW process between younger and older claimants.

The RTW study was established to identify factors that influence the RTW process at the individual, workplace and system levels, and how these factors impact disability, recovery expectations, self-efficacy to RTW and actual RTW and work productivity. Disability, recovery expectations, self-efficacy to RTW and actual RTW were each measured with a dedicated section in the questionnaire (named accordingly), and work productivity was measured using questions from the Work Limitations Questionnaire with some modifications to address specific aspects of psychological conditions.26 In particular, the study aims to investigate differences in the RTW process for older versus younger workers and for claimants with psychological versus MSK injuries. Important knowledge gaps will be addressed regarding the RTW process and whether specific strategies are required for older claimants or workers with psychological injury.

COHORT DESCRIPTION

Context

In Victoria, approximately 85% of the labour market has workers’ compensation coverage through WorkSafe Victoria (WSV).1 3 27 In addition to wage replacement and healthcare expenditure, WSV provides insurance for lump sum compensation payments where there is a significant permanent loss of income due to serious injury.2 Although compulsory insurance through WSV covers the majority of the labour market, workers who are self-employed, sole traders or independent contractors are exempt.1 In general, standard workers’ compensation claims in Victoria are those that have resulted in an absence from work for 10 or more days due to a workplace injury, with the first 10 days of absence being paid for by the employer. Injuries covered by workers’ compensation are not limited to physical injuries and include psychological (mental) injuries which are caused through the course of the worker’s employment or situations where a pre-existing mental condition reoccurs or is aggravated or accelerated due to work.28 It is important to note that mental conditions that result from reasonable grounds, such as appraisal of the worker’s performance, disciplinary action including dismissal, are excluded from coverage by workers’ compensation.29

Sample size considerations

A preliminary analysis of WSV administrative data indicated that 80% of claimants are no longer receiving wage replacement at 6 months and 90% of claimants are no longer receiving wage replacement at 12 months. Absolute differences across age groups in the proportion of claimants who are receiving wage replacement are approximately 15% at 6 months and 10% at 12 months between younger workers (less than 30 years) and older workers (55+ years), with similar differences also observed between physical and psychological injury claims. To ensure adequate statistical power to detect similar differences in RTW outcomes in our sample, 576 respondents were required to complete the 12-month interview, where 20% of the sample were older workers and 20% were workers with a psychological injury. This sample size would also allow detection of relative risk estimates of 1.7 and higher for outcomes with a 20% prevalence, and risk estimates of 1.9 and higher for outcomes with a 10% prevalence. Assuming 40% attrition over a 12-month period, a target sample of 960 respondents was required at baseline, with 192 (20%) psychological injury claimants and
192 (20%) claimants aged 55 and over, assuming similar rates of attrition over the study period.

Recruitment
The cohort includes workers compensation claimants in Victoria (covered by the WorkSafe Scheme), who were interviewed at three time points: as soon as possible after their claim was accepted (baseline), and again at 6 and 12 months after the baseline interview. To recruit this sample, each month WSV identified a random sample of claimants with psychological and MSK injuries using WSV’s internal system for classifying the nature of injury/disease (VCODE). Eligible MSK conditions included all soft-tissue injuries of the back or upper extremity. Injuries to nerves and spinal cord, arthropathies, osteopathies, chondropathies and acquired MSK deformities, fibromyalgia, cervicalgia and arthritic conditions were excluded. For psychological injuries, all injuries where the nature of injury classification (VCODE) indicated a mental disorder, including post-traumatic stress disorder, other reactions to stressors and other mental disorders, not elsewhere classified were considered eligible for inclusion. General exclusions included cases where less than 10 days of absence had occurred, where multiple injuries were sustained by the worker, or where the worker was less than 18 years of age.

The baseline sample was recruited over a 12-month period (June 2014–July 2015), with the first monthly sample from WSV consisting of 405 claimants, and the sample for each of the remaining 11 months consisting of 190 claimants, on average. Each sample member was sent a primary approach letter (PAL) with the option to opt out of the study over the following 3-week period by contacting WSV, by phone, email or surface mail. Contact details of claimants who did not opt out were then provided to an external interviewing agency, to approach each claimant to invite them to participate in the study.

A total of 2495 claimants were included in the sampling frame. Of the 2495 claimants that were sent a PAL, 321 (13%) opted out of the study. Attempts to contact the remaining 2174 claimants were made by the interviewing agency. Of the 2174 claimants where contact was attempted, 50 (2%) did not have a valid contact number (number disconnected, named person not known, etc), and 82 (4%) were ineligible to participate in the study (injury not in-scope, less than 18 years of age or less than 10 days of total absence from work). Of the remaining sample of 2042 claimants, no contact could be made with 271 claimants; 769 refused to participate in the study and 118 could not participate due to other circumstances (respondent away, ill health, etc). This left a final sample of 869 claimants (36% of the eligible sample and 49% of the sample where contact was made).

Figure 1 presents the distribution of the time between the first date of incapacity and date of the baseline interview. The majority of respondents were interviewed between 2 and 5 months after their first day of incapacity, with the most common time period being between 3 and 4 months. The median time between the first date of incapacity and the interview was 110 days, with the median time between the start of compensation eligibility and the interview date being 93 days. This relatively long time period between the first day of incapacity and the interview was 110 days, with the median time between the start of compensation eligibility and the interview date being 93 days. This relatively long time period between the first day of incapacity (and first day of compensation eligibility) and the baseline interview date can be explained as follows. The first date of incapacity marks the start of a work absence. After 10 working days of absence, a claim is submitted to WSV, at which point it becomes eligible for wage replacement from WSV. WSV has 28 days to...
Table 1  Comparison of participants to non-participants from a source population* of workers' compensation claimants in Victoria

|                  | Participants | Non-participants |
|------------------|--------------|------------------|
|                  | n  | %  | n  | %  |
| **Total**        | 869| 100| 1626| 100|
| **Sex**          |    |    |    |    |
| Males            | 471| 54 | 960| 59 |
| Female           | 398| 46 | 666| 41 |
| **Injury type**  |    |    |    |    |
| Musculoskeletal  | 678| 78 | 1296| 80 |
| Psychological    | 191| 22 | 330| 20 |
| **Age group**    |    |    |    |    |
| 18–24 years      | 54 | 6  | 104| 6  |
| 25–34 years      | 159| 18 | 309| 19 |
| 35–44 years      | 204| 23 | 389| 24 |
| 45–54 years      | 267| 31 | 466| 29 |
| 55+ years        | 185| 21 | 358| 22 |
| **Employment type** |    |    |    |    |
| Full time        | 577| 66 | 1144| 70 |
| Part time        | 184| 21 | 283| 17 |
| Other            | 108| 12 | 199| 12 |
| **Industry†**    |    |    |    |    |
| Accommodation, food, arts and recreation services | 47 | 6 | 97 | 6 |
| Admin, prof, scientific and tech | 42 | 5 | 105 | 6 |
| Construction     | 58 | 7  | 173| 11 |
| Other goods industries | 23 | 3 | 56 | 3 |
| Education and training | 39 | 5 | 71 | 4 |
| Financial and real estate | 16 | 2 | 23 | 1 |
| Healthcare and social assistance | 215 | 27 | 317 | 19 |
| Manufacturing    | 102| 13 | 263| 16 |
| Public administration and safety | 65 | 8 | 105 | 6 |
| Retail trade     | 45 | 6  | 104| 6  |
| Transport and warehousing | 62 | 8 | 166| 10 |
| Wholesale trade  | 45 | 6  | 101| 6  |
| Other service industries | 31 | 4 | 45 | 3 |

*Source population refers to a random sample of all relevant claims in line with the study criteria during the period of observation.
†For participants, industry information is only available for the 790 respondents (91%) who agreed to have their survey data linked to their administrative claim record.

Adjudicate a claim for workers’ compensation. At this point, if the claim is accepted, compensation is backdated to the day of eligibility, and the claim is eligible to be recruited into the cohort. As the selection of claims is only undertaken once a month, the time period between the claim acceptance and when the claim is selected for the cohort could be from a couple of days, to a month. It took approximately 1 week for the PALs to be sent to each claimant. Three weeks after this date attempts to contact the claimant were made from the interviewing company, with attempts continuing for up to 2 months, or until the claimant was contacted.

Participants

Descriptive data for the 869 claimants who participated in the study, compared with the non-participants (n=1626), from the total source population of 2495 claimants are shown in table 1. Due to privacy concerns regarding the level of detailed information that could be provided about the source population from WSV, comparisons between participants and non-participants are only possible by sex, age group, injury type, employment type and industry of employment. Focusing on our primary variables of interest (injury type and age), the sample...
recruited contained 191 (22%) participants who had a psychological injury and 185 (21%) participants aged 55 years and older. These proportions were not significantly different to those in the non-participant group. Statistically significant differences were noted between the sample recruited and non-participants across sex and industry of employment, with borderline differences also observed across employment type. Compared with the non-responders, the sample recruited contained more women and a greater proportion of workers in the healthcare and social assistance industry, and fewer workers in manufacturing and construction industries. Given the nature of the data available on non-responders, it was not possible to determine if industry differences were simply a function of different patterns of response for men and women or reflect differences in response according to specific industry context.

Participation and loss to follow-up in the cohort is presented in figure 2. Of the 869 claimants who participated at baseline, 632 (73%) took part in the 6-month follow-up interview (between January 2015 and January 2016), and 572 (66%) took part in the 12-month follow-up interview (between July 2015 and July 2016). Claimants who were not contactable at the 6-month follow-up interview were also invited to participate at the 12-month follow-up (ie, only participated at baseline and 12-month follow-up interview, with the 6-month follow-up interview missing). Of the 572 participants who completed a 12-month follow-up interview, 504 took part in all three surveys (58% of the baseline sample). The most common reason for non-participation at follow-up was that the claimant was not contactable (19%). A small proportion of claimants (3%) were excluded from follow-up as they were deemed unsuitable to participate further. A further 12% of claimants refused to participate in the follow-up interviews.

Of the 869 participants recruited at baseline, a total of 790 (91%) agreed to link their survey responses to WSV administrative data, which allows a passive follow-up of respondents using administrative data on payments and services received related to their injury.

Table 2 shows participant’s work characteristics at the time of injury (collected at baseline). The majority of participants (85%) had been working with the same employer for a year or more at the time of their injury. Participants were predominately permanent employees (87%), with 12% of participant’s temporary employees at the time of injury. Approximately, 38% of participants were shift workers and approximately 75% worked 35 hours or more per week at the time of injury.

**Questionnaire**

Table 3 describes the survey content at each data collection phase. The baseline questionnaire included a combination of questions adapted from previous cohort studies on RTW, as well as questions developed in consultation with stakeholders with experience in RTW. The survey content included work characteristics, demographic information, current working status, RTW arrangements and fairness of the RTW process. In addition, questions about perceptions of recovery and likelihood of RTW, information on current health status (both physical and psychological), preinjury work ability and chronic conditions, disability due to work injury, information on the
preinjury work environment, self-efficacy to RTW and motivation to work were included. Each participant was screened at the beginning of the baseline interview to ensure eligibility. Information on the type of injury, time since injury and number of days off work was collected during the screening process. The duration of the baseline survey was approximately 40 minutes.

As the follow-up surveys excluded various questions where responses would not change (eg, preinjury job), the duration was approximately 30 minutes. Additional questions were also added to the 6-month interview relating to general perceptions on the claim process, involvement of lawyers, disagreement in the claim process and sleep disturbance. The 12-month interview included additional questions regarding income and type of support/assistance received.

Participants were asked for consent to have their survey responses linked to their workers’ compensation administrative data. The datasets available for linkage included the WSV claims database (claimant, workplace and claim/injury information), payment database (payment information), services database (healthcare and non-health care services received that are related to the respondent’s injury) and Medical Certificate database. Linkage to WSV administrative data allows examination of wage replacement and healthcare service use prior to, and in between interviews, as well as longer term administrative follow-up of participants.

### FINDINGS TO DATE

Sociodemographic characteristics of the cohort at baseline and follow-up interviews are shown in table 4. Gender, injury type and country of birth proportions did not significantly change from baseline to follow-up interviews, with an identical proportion of participants in each group at all three time points. Between the baseline interview and the follow-up interviews, an increasing proportion of the sample was aged 55 years and older and a decreasing proportion was aged less than 35 years. These changes in the age distribution of the sample were a function of greater loss-to-follow-up of younger claimants. Participant’s current working status (modified or pre-injury duties) increased from the baseline interview to the 6-month follow-up interview; however, no significant change from the 6-month to 12-month follow-up interview was observed.

Logistic regression analysis was undertaken at baseline to examine the probability of non-participation at follow-up interviews (results not shown, but available on request). Gender, age, injury type and working status at baseline were included in the analysis as potential predictors of non-participation. Age was the only statistically significant predictor observed, with claimants aged between 18 and 34 almost half as likely to participate in the 6-month and 12-month follow-up, compared with the subgroup aged between 35 and 54. Claimants aged 55 and over were almost twice as likely to participate at the follow-up interviews, compared with the subgroup aged between 35 and 54.

Examination of whether particular types of respondents were more or less likely to agree to link their responses to their survey data was undertaken. The logistic regression analysis (results not shown, but available on request), including injury type, sex, age group and work status at the baseline interview found that male respondents were less likely to provide permission to link to their survey responses (88%), compared with female respondents (94%). No differences in agreement to link were found across injury type, age group or work status at baseline.

### STRENGTHS AND LIMITATIONS

The cohort is one of the first we are aware of that has been designed to compare RTW from work-related MSK and psychological injuries using a longitudinal study design and data linkage. As the study aims to collect data at three time points over a 12-month period, the data will provide insight into potential intervention points during the RTW process to reduce inequalities in RTW and other outcomes between psychological and physical injuries and across age groups. In addition, the longitudinal data collected will allow the examination of how these factors, as well as RTW status and recovery measures, change over time.

The final sample of respondents recruited totalled 869, which was 91 claimants short of our target, although slightly higher than expected samples of psychological claimants and claimants aged 55 years and older were recruited in the baseline survey. This should still enable adequate power to detect expected differences in RTW

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**Table 2** Participant work characteristics at time of injury

|                         | Participants |
|-------------------------|--------------|
|                         | n | %  |
| **Job tenure**           |   |    |
| <6 months               | 67 | 8  |
| 7 to <12 months         | 62 | 7  |
| ≥12 months              | 739 | 85 |
| **Hours per week**      |   |    |
| <35 hours               | 216 | 25 |
| ≥35 hours               | 647 | 74 |
| **Shift work**          |   |    |
| Yes                     | 332 | 38 |
| No                      | 527 | 61 |
| **Contract**            |   |    |
| Temporary               | 102 | 12 |
| Permanent               | 759 | 87 |

*Subsamples within groupings may not add up to 869 due to missing data on selected indicators.*
Table 3  Data collection of each phase

| Phase                          | Measurements                                                                 | Measurements                                                                 |
|-------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Baseline                      | ► Basic job information                                                     | ► Work environment and work ability preinjury                               |
|                               | ► Workplace reaction to injury                                              | ► Employment commitment and meaning of work                                 |
|                               | ► Current working status                                                    | ► General health                                                            |
|                               | ► Workplace contact                                                        | ► Physical function and disability                                           |
|                               | ► Recovery expectations                                                    | ► Mental health                                                             |
|                               | ► Healthcare provider interactions                                          | ► Self-efficacy to RTW                                                      |
|                               | ► Return to work (RTW) arrangements                                         | ► Workplace characteristics                                                  |
|                               | ► RTW coordinator interactions                                              | ► Demographics                                                              |
|                               | ► RTW case manager interactions                                             |                                                                             |
|                               | ► Fairness of the RTW process                                               |                                                                             |
|                               | ► Work functioning (work productivity)                                      |                                                                             |
| 6-month follow-up             | Baseline questionnaire, except:                                             | Additional questions:                                                       |
|                               | ► Basic job information                                                     | ► General perceptions on the claim process                                   |
|                               | ► Workplace reaction to injury                                              | ► Sleep disturbance                                                          |
|                               | ► Work environment and work ability preinjury                              |                                                                             |
|                               | ► Workplace characteristics                                                 |                                                                             |
| 12-month follow-up            | 6-month follow-up questionnaire, with the following additional questions:   |                                                                             |
|                               | ► Income information                                                       |                                                                             |
|                               | ► Type of support/assistance received                                       |                                                                             |
| Ongoing administrative follow-up | All participants that consent to linkage will have their details regularly linked to the WorkSafe Victoria claims database (includes claimant, workplace and claim/injury information), payment database (includes payment information), services database (includes information on services received postinjury) and Medical Certificate database. |                                                                             |
outcomes at the 12-month interview as the overall attri-

bution over the study period was lower than predicted.

The majority of respondents were interviewed between 
2 and 5 months after their first day of incapacity, with the 
most common time period being between 3 and 4 months. 
As claimants were interviewed on average 3–4 months 
after their claim was accepted, recall of certain details 
such as preinjury work environment may be challenging. 
The overall baseline recruitment rate of 36% is a poten-
tial limitation; however, a higher than expected retention 
rate was achieved at follow-up, with response rates of 73% 
at first follow-up and 66% at second follow-up.

WSV administrative data will allow a passive follow-up of 
respondents using payments, services and wage replace-
ment data into the future.

LESSONS LEARNT

While the assembly of this RTW cohort will provide 
important information on differences in the RTW process 
for older claimants, compared with younger claimants, as 
well as for psychological injury claims compared with MSK 
claims, there are also potential areas related to the recruit-
ment of a workers’ compensation sample that could be 
incorporated into future projects in this area. The first is 
to incorporate measures that might enable a more rapid 
recruitment of potential respondents following the initial 
claim for injury. While some of these features are struc-
tural to the workers’ compensation system in Victoria (eg, 
having to accumulate 10 days of absence from work before 
a claim is submitted), other features such as the time taken 
to adjudicate injury claims, and the timing when claims are 
identified for inclusion (eg, weekly vs monthly) are poten-
tially modifiable. The complexity of the adjudication of 
psychological injury claims often leads to the full 28 days 
(and sometimes longer) being taken before these claims are 
accepted. Future studies examining these more complex 
injury claims might attempt to recruit respondents earlier 
in the claim process (eg, after claim submission rather than 
claim acceptance). However, any approach like this would 
need to balance the acceptance rate of these injury claims, 
as well as the stressful and often overwhelming nature of 
the initial claim submission process. In this cohort, we used 
strategies (eg, contact in between surveys) to minimise loss-
to-follow-up over the 12-month study period. While our 
loss-to-follow-up was lower than expected, we did still have 
differential loss-to-follow-up among younger respondents. 
In many cases, this loss to follow-up was due to inability to 
contact the claimant. We do not know the extent to which 
our inability to contact these claimants was due to their 
contact details changing or active efforts of the respondent 
not to be contacted for future surveys. Future work should 
try to collect multiple mediums through which claim-
ants could be contacted for future surveys, to help reduce 
loss to follow-up due to non-contact.

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Collaborators The data are held at Monash University, Department of Epidemiology and Preventive Medicine, School of Public Health and Preventive

| Table 4  | Sociodemographic characteristics of return to work (RTW) cohort at baseline and 6 and 12 month follow-up |
|----------|--------------------------------------------------------------------------------------------------------|
|          | Baseline | 6 month follow-up | 12 month follow-up |
|----------|----------|-------------------|-------------------|
| Total    | n  | % | n  | % | n  | % |
| Sex      | Male  | 471 | 54  | 347 | 55  | 312 | 55 |
|          | Female | 398 | 46  | 285 | 45  | 260 | 45 |
| Injury type | Musculoskeletal | 678 | 78  | 495 | 78  | 443 | 77 |
|          | Psychological | 191 | 22  | 137 | 22  | 129 | 23 |
| Age group | <35 years | 213 | 25  | 132 | 21  | 106 | 19 |
|          | 35–54 years | 471 | 54  | 346 | 55  | 317 | 55 |
|          | ≥55  | 185 | 21  | 154 | 24  | 149 | 26 |
| Country of birth* | Australia | 636 | 73  | 458 | 72  | 425 | 74 |
|          | Other  | 232 | 27  | 174 | 28  | 147 | 26 |
| Working status | Currently working | 512 | 59  | 439 | 69  | 388 | 68 |
|          | Not currently working | 357 | 41  | 193 | 31  | 184 | 32 |

*Subsamples do not add up to 869 due to missing data.
Medicine. Procedures to access data from this study are available through contacting the lead author. Proposals for collaborative analyses will be considered by the study’s investigator team.

Contributors CD was involved in the coordination of the study and wrote the initial manuscript and approved the final manuscript as submitted. ADL, RL, SH, MS and PS were involved in the development of the study protocol and the acquisition of research funding for this project. They each revised the manuscript critically for important intellectual content and approved the final manuscript as submitted. PS is the principal investigator for the study. He led the conceptualisation, development and design of the study.

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Provenance and peer review Not commissioned; externally peer reviewed.

Data sharing statement Procedures to access data from this study are available through contacting the lead author (CD). Proposals for collaborative analyses will be considered by the study’s investigator team. The study questionnaire can be provided by contacting the lead author (CD).

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