Prevalence of mental illness among Aboriginal and Torres Strait Islander people in Queensland prisons

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Abstract

Objective: To estimate the prevalence of mental disorder in a representative sample of Aboriginal and Torres Strait Islander people in Queensland prisons.

Design, setting and participants: Cross-sectional assessment of mental health using the Composite International Diagnostic Interview (CIDI) and clinical interviews, conducted by Indigenous mental health clinicians who undertook specific training for this purpose, with support from forensic psychiatrists when indicated. We assessed adults who self-identified as Indigenous and were incarcerated in six of the nine major correctional centres across Queensland (housing 75% of all Indigenous men and 90% of all Indigenous women in Queensland prisons) between May and June 2008.

Main outcome measures: Diagnoses of anxiety, depressive and substance misuse disorders using the CIDI; diagnosis of psychotic illness determined through psychiatrist interviews supplemented by a diagnostic panel.

Results: We interviewed 25% of all Indigenous men (347/1381; mean age, 31.5 years) and 62% of all Indigenous women (72/116; mean age, 29.2 years) incarcerated at the time of our study. The recruitment fraction was 71% for men and 81% for women. Among the 396 individuals who completed both the interview and the CIDI, the 12-month prevalence of mental disorder was 73% among men and 86% among women. This comprised anxiety disorders (men, 20%; women, 51%); depressive disorders (men, 11%; women, 29%); psychotic disorders (men, 8%; women, 23%) and substance misuse disorders (men, 66%; women, 69%).

Conclusions: The prevalence of mental disorder among Indigenous adults in Queensland custody is very high compared with community estimates. There remains an urgent need to develop and resource culturally capable mental health services for Indigenous Australians in custody.

Methods

Design and participants

Participants were sampled from six of the nine high-security correctional centres across Queensland that included both sentenced and remanded prisoners and contained about 75% of the Indigenous men and 90% of the Indigenous women in Queensland prisons at the time. Surveys were conducted over an 8-week period in May and June 2008, and the time spent at each centre varied from 1 to 2 weeks. Before visiting the centres, Indigenous inmates were provided with information about the survey in verbal and written form, to ensure that participants understood the purpose and voluntary nature of participation.

Potential participants were identified from the nominal roll on the first day that the researchers visited that correctional centre. Of those who self-identified as Indigenous (Aboriginal, Torres Strait Islander or both Aboriginal and Torres Strait Islander), all
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women and every third man on the nominal roll were approached to participate in the study. Participants received A$10 for their time. Excluded from the sample were individuals who did not consent to participate and those judged to be unable to provide informed consent or considered too physically or mentally unwell to participate.

Procedure and measures

Data were collected by face-to-face interviews in confidential settings within the custodial centres. The questionnaire was administered by trained interviewers, contained both quantitative and qualitative domains, and included questions covering demographic, social, custodial, mental health, health care and cultural characteristics.

Interviewers also administered the Composite International Diagnostic Interview (CIDI), version 2.1, using a laptop computer to assess participants for depression and anxiety disorders during the previous 12 months. A modified version of the substance misuse disorder module was administered, with questions about substance use directed at the 12 months before incarceration to cater for the incarcerated population.

The CIDI is a comprehensive, well validated, fully standardised interview that can be used to assess mental health disorders according to the criteria in the International statistical classification of diseases and related health problems, 10th revision. Individuals can meet diagnostic criteria for more than one mental disorder; we anticipated that co-occurring disorders were likely. Although the CIDI has not been validated for an Australian Indigenous population, it was chosen because (i) the Indigenous mental health experts consulted in the design of our research judged that it was appropriate to diagnose depression, anxiety and substance misuse disorders in this population, and (ii) it has been widely used with Indigenous populations in other large prisoner studies and in major national mental health epidemiological surveys.

To prevent culturally congruent experiences being misinterpreted as psychotic experiences, the full CIDI interview was not used to identify psychotic disorders; instead, we adopted a three-step process. First, the sample was screened with the CIDI psychosis screener, included in the questionnaire, to identify potential cases. Second, those who screened positive underwent face-to-face interviews with a forensic psychiatrist, who used the interview and all available clinical data to determine the presence or absence of a diagnosis. Third, this information, recorded in a standardised format, was reviewed by a diagnostic panel comprised of two psychiatrists and a cultural adviser (an Indigenous mental health clinician) to reach a consensus diagnosis.

The members of the research team were predominantly Indigenous Australians and all were qualified mental health care professionals. They were trained in the use of the research tools, and ethical and emergency care procedures. They were provided with onsite cultural and health care supervision and had access to a psychiatrist and correctional centre health staff if required. The study involved Indigenous people in the design, implementation, data collection and interpretation of results. The research was supported, monitored and informed by a comprehensive consultation process with both Aboriginal and Torres Strait Islander community members.

Ethics approval

The study design and protocol were approved by the Queensland Health West Moreton Health Service District Human Research Ethics Committee and were consistent with guidelines for ethical conduct in Aboriginal and Torres Strait Islander health research.

Data analysis

Quantitative data were analysed using Stata, version 12.0 (StataCorp, College Station, Tex, USA); descriptive statistics were reported, and the relative risk of diagnosis by sex was determined.

Results

On 30 June 2008, there were 5544 adults in Queensland prisons, of whom 1381 men and 116 women identified as Indigenous. In the six centres surveyed, there were 1036 Indigenous men and 88 Indigenous women.

Of the 487 men approached to participate in the study, 347 (71.3%) were interviewed, 92 declined to participate, 45 were released, transferred or not available, and three were judged too unwell to be seen due to mental illness. The mean age of male participants was 31.5 years (SD, 9.4) and of the male non-participants was 28.8 years (SD, 8.18); this difference was
were more common among the 14.3% from a depressive disorder, 25.2% from an anxiety disorders (331 men and 65 women). Of the 419 individuals administered the CIDI psychosis screener, 71 (16.9%) screened positive. Of these, eight men and one woman were unable to be assessed by a psychiatrist as they were either released or transferred before the assessment. Of the remaining 62 individuals, 28 men and 18 women were found to have a psychotic disorder (Box 3).

The majority of both men and women had a substance misuse disorder (Box 5), most commonly alcohol dependence (48.2%) or cannabis dependence (21.0%). Most individuals who had a substance misuse disorder had the more severe form — dependence.

Discussion

Among the Indigenous inmates sampled, most men and women were diagnosed with at least one mental disorder, whereas the 12-month prevalence of mental disorder among adults in the Australian community is estimated at 20%.15 Given the vast overrepresentation of Indigenous people in prison, their frequent transition between prison and the community, and the high prevalence estimates of mental disorder in this group, the consequences of inadequate health care in prison5,16 must inevitably affect Indigenous communities. The prevalence of depression and anxiety disorders, especially post-traumatic stress disorder, was high in this sample, and is similar to prevalence estimates of general prison populations,14 highlighting the critical need for effective intervention.
need for adequate mental health services in prison settings. The high prevalence of diagnosed psychotic disorder, particularly among women, is of concern and is consistent with other Australian studies. Psychotic disorder is associated with significant morbidity and increased risk of reincarceration. These findings highlight a critical mental health need for these individuals, both in custody and during the transition back to their communities.

This study, like others before it, identified a high rate of substance use problems among Indigenous prisoners. However, most previous studies have relied exclusively on screening instruments to do this, whereas our study has, for the first time, robustly estimated the diagnostic prevalence of harmful levels of substance misuse and dependence among Indigenous prisoners. The National Indigenous Drug and Alcohol Committee recently highlighted the lack of opportunities that exist for Indigenous people to access appropriate treatment for these problems in custody. It suggested that, if available, culturally appropriate interventions are likely to be successful, and it provided clear recommendations about how to implement these services. Evaluation of such services, in a way that is both culturally sensitive and scientifically rigorous, is an essential next step.

Sampling is a challenge for any research with custodial populations, due to difficulties accessing all custodial centres and because of daily releases, transfers and receptions. However, given the centres that we sampled contained 75% of all Indigenous men and 90% of all Indigenous women in custody at that time, and the high recruitment fractions for both populations, it is likely that the risk of sampling bias was minimised. Similarly, the risk of recall bias is likely to have been reduced by using 12-month prevalence estimates for mental disorders. It is possible that such high estimates of psychotic disorder, particularly among women, might indicate measurement bias. However, given the comprehensive and culturally sensitive method used to make the diagnosis, we believe that these findings are accurate. Further, any measurement bias would be at least partially offset by likely underdetection of psychotic disorders, due to false-negative results on the psychosis screener and the loss from the sample of some individuals who screened positive but could not undergo diagnostic interviews due to their release.

The small age difference between participating and non-participating men (about 2.5 years) is unlikely to have substantially biased our prevalence estimates, given the size of the male sample and that the mean age of this sample (31.5 years) was similar to that of the total Indigenous male population in Queensland prisons at the time of the survey (30.6 years). A key strength of our research was the extensive consultation conducted with both Aboriginal and Torres Strait Islander communities and the involvement of Indigenous people in all aspects of the research process. Inevitably, cultural bias is a risk in this field of research. We aimed to ensure that any cultural bias or response bias was minimised through the use of a culturally informed research method and trained, culturally competent interviewers.

The information obtained from our research is crucial to the planning and implementation of adequate mental health services in prison settings. The high prevalence of psychotic disorder, particularly among women, is of concern and is consistent with other Australian studies. Psychotic disorder is associated with significant morbidity and increased risk of reincarceration. These findings highlight a critical mental health need for these individuals, both in custody and during the transition back to their communities. This study, like others before it, identified a high rate of substance use problems among Indigenous prisoners. However, most previous studies have relied exclusively on screening instruments to do this, whereas our study has, for the first time, robustly estimated the diagnostic prevalence of harmful levels of substance misuse and dependence among Indigenous prisoners. The National Indigenous Drug and Alcohol Committee recently highlighted the lack of opportunities that exist for Indigenous people to access appropriate treatment for these problems in custody. It suggested that, if available, culturally appropriate interventions are likely to be successful, and it provided clear recommendations about how to implement these services. Evaluation of such services, in a way that is both culturally sensitive and scientifically rigorous, is an essential next step.

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health services for Indigenous people in contact with and leaving the criminal justice system. For mental health services to be effective, they must be culturally capable, and accessible both in custody and in the community, with a focus on enabling continuity of care between the two. Such services can only be achieved through appropriate resourcing and stewardship. Their development is not only supported from a public health perspective, but also from human rights and ethical perspectives.\(^\text{24,25}\)

While the marked over-representation of Indigenous people in Australian prisons remains a significant concern, prisons provide an opportunity for health care for a population who underaccess health care in the community for health care for a population who underaccess health care in the community, particularly prisons remains a significant concern, prisons provide an opportunity for health care for a population who underaccess health care in the community, particularly from a public health perspective. Their development is not only supported from a public health perspective, but also from human rights and ethical perspectives.\(^\text{24,25}\)

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