Preface

This review provides an overview of health issues facing the Indigenous offender population, including some of the social and historical factors relevant to Indigenous health and incarceration. In doing so, it is important to first understand how Indigenous people conceptualise health. Health as it is understood in western society is a fairly discrete category, which differs from the traditional Indigenous perspective of health as holistic [1]. This is made explicit in the 1989 National Aboriginal health strategy that states ‘health to Aboriginal peoples is a matter of determining all aspects of their life, including control over their physical environment, of dignity, of community self-esteem, and of justice’ [1 p.ix]. For this reason, considering health in a justice context is of particular relevance to Indigenous people, as the restrictions imposed upon offenders represent a threat to individual and community health.

Acknowledgements

Special thanks are extended to:
- other staff of the Australian Indigenous HealthInfoNet, particularly to Leah Levitan and Andrea MacRae, for their assistance, support and encouragement in the preparation of this review
- the Office for Aboriginal and Torres Strait Islander Health (OATSIH) within the Australian Department of Health and Ageing for their ongoing support of the work of the HealthInfoNet.
Some of the sources referred to in this review originally used only the term Aboriginal, even though it is evident that in many, if not most, cases the reporting did not differentiate between Australian Aboriginal people and Torres Strait Islander people. Population figures reveal that substantial numbers of Torres Strait Islanders or people of both Aboriginal and Torres Strait Islander descent live in all jurisdictions, except the Australian Capital Territory (ACT). Therefore, the term Indigenous has been used throughout this review to refer to both the Aboriginal and the Torres Strait Islander populations.

This review is largely structured under key topic headings, such as chronic disease or the social determinants of health. Much of the general information about offenders refers to both men and women, and, in some instances, to some juveniles, but specific sections are also devoted to women and juveniles.

Introduction

The offender population is one of the most stigmatised and socially excluded groups in Australian society, and is characterised by extreme socio-economic and psychological disadvantage. Those exposed to the criminal justice system are typically poorly educated, unemployed, socially isolated, and financially dependent [2]. Epidemiological surveys of prisoners for instance, consistently find high levels of physical ill health, psychiatric illness, communicable diseases, and engagement in health risk behaviours (such as tobacco use, violence, increased alcohol consumption, and illicit drug use) [3, 4]. In the case of Indigenous offenders, disadvantage is further compounded. Indigenous Australians suffer more ill-health, die at much younger ages, have lower levels of educational attainment and income, higher rates of unemployment, and poorer housing conditions than the rest of the Australian population [5].

According to the June 2012 prison census, the prisoner population in Australia was 29,381, most of whom were men (93%) [6]. Indigenous prisoners accounted for 27% of the total prisoner population (Table 1). Indigenous people were 15 times more likely than non-Indigenous people to be imprisoned. The overall crude imprisonment rate for Australia in 2012 was 168 prisoners per 100,000 adult population (Table 2). In 2009 this figure was 175 prisoners per 100,000 [7]. The Northern Territory (NT) had by far the highest imprisonment rate in Australia and the ACT the lowest: 826 and 107 prisoners per 100,000 adult population respectively [6]. Indigenous imprisonment rates for 2012 vary significantly between the states and territories, ranging from 485 prisoners per 100,000 population for Tasmania (Tas) to 3,390 per 100,000 for Western Australia (WA) (Table 2).

The total number of prisoners from 2009 to 2012 appeared stable with only 0.2% increase [6, 7]. However, the number of Indigenous prisoners during this period increased by 8%, compared to a 1.3% decrease in non-Indigenous prisoners. Decreases in prison numbers in the state of New South Wales (NSW) occurred between 2009 and 2012 for both Indigenous (7.1%) and non-Indigenous (12.7%) populations. Age-adjusted rates between 2009 and 2012 show a small increase in indigenous prisoner rates by 1.2%. However, this national figure conceals substantial variability across jurisdictions. For example, while Indigenous prisoner rates decreased in NSW and Queensland (Qld) by 12.5% and 4.8% respectively, rates substantially increased in the ACT (63.9%), Victoria (Vic) (49.2%) and the NT (32.8%) (Table 2).

In the ten years between 2002 and 2012 imprisonment rates have increased in all states and territories, with the exception of NSW and Qld [6]. The NT recorded the largest increase (72%), followed by WA (37%). The imprisonment rate in Qld decreased by 6% and in NSW by 1%. From 2011 to 2012, the NT had the highest proportional increase in prisoner numbers (11%), followed by WA (7%), and the ACT (4%). There was a decrease in prisoner population in NSW (4%) and Tas (3%).

The offender population is even greater than the figures reported above if those in the wider criminal justice system are taken into consideration; these include people under arrest and held in lock-ups, those appearing before the courts, periodic detainees, juvenile offenders not in detention, and those serving community orders. For example, in 2008-09 an average of 56,972 offenders per day were serving community corrections orders [8].

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1 The term offender is used in this review to refer to sentenced offenders currently serving sentences, those on remand prior to sentencing and prior offenders.
### Table 1. Numbers of prisoners by jurisdiction, sex and Indigenous status, Australia, 30 June 2009 and 30 June 2012

<table>
<thead>
<tr>
<th>Sex</th>
<th>Indigenous status³</th>
<th>All people</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Males</td>
<td>Females</td>
</tr>
<tr>
<td>Australia</td>
<td>27,192</td>
<td>27,182</td>
</tr>
<tr>
<td>NSW</td>
<td>10,273</td>
<td>8,977</td>
</tr>
<tr>
<td>Vic</td>
<td>4,068</td>
<td>4,544</td>
</tr>
<tr>
<td>Qld</td>
<td>5,251</td>
<td>5,118</td>
</tr>
<tr>
<td>WA</td>
<td>4,078</td>
<td>4,518</td>
</tr>
<tr>
<td>SA</td>
<td>1,839</td>
<td>1,944</td>
</tr>
<tr>
<td>Tas</td>
<td>492</td>
<td>451</td>
</tr>
<tr>
<td>ACT</td>
<td>180</td>
<td>1,799</td>
</tr>
<tr>
<td>NT</td>
<td>1,011</td>
<td>1,331</td>
</tr>
</tbody>
</table>

Notes:
1. There were 377 prisoners in NSW with Indigenous status not recorded/reported
2. There were 128 prisoners in NSW and six in the ACT with Indigenous status not recorded/reported
3. Published numbers for the states and territories were not broken down by sex and Indigenous status
4. Percent change from 2009 to 2012
5. Total percent may total more than 100% due to rounding


### Table 2. Age-standardised imprisonment rates, by Indigenous status and jurisdiction, and Indigenous:non-Indigenous rate ratios, Australia, 2009 and 2012

<table>
<thead>
<tr>
<th>Indigenous status³</th>
<th>Rate Ratio</th>
<th>Total population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>1,891</td>
<td>1,914</td>
</tr>
<tr>
<td>NSW</td>
<td>2,153</td>
<td>1,883</td>
</tr>
<tr>
<td>Vic</td>
<td>968</td>
<td>1,444</td>
</tr>
<tr>
<td>Qld</td>
<td>1,427</td>
<td>1,359</td>
</tr>
<tr>
<td>WA</td>
<td>3,329</td>
<td>3,390</td>
</tr>
<tr>
<td>SA</td>
<td>2,072</td>
<td>2,180</td>
</tr>
<tr>
<td>Tas</td>
<td>471</td>
<td>485</td>
</tr>
<tr>
<td>ACT</td>
<td>760</td>
<td>1,246</td>
</tr>
<tr>
<td>NT</td>
<td>1,700</td>
<td>2,258</td>
</tr>
</tbody>
</table>

Notes:
1. There were 377 prisoners in NSW with Indigenous status not recorded/reported
2. There were 128 prisoners in NSW and six in the ACT with Indigenous status not recorded/reported
3. Rates per 100,000 population
4. Figures in bold indicate decrease from 2009 to 2012

Many individuals have ongoing contact with the criminal justice system. In 2012, 55% of adult prisoners in Australia had previously served a prison sentence in adult prison [6]. Among prisoners sentenced in the preceding 12 months, 60% had previously served a prison sentence. This percentage does not reflect the ‘flow population’, the number of people going in and out of prison over a year. As the majority of people incarcerated full-time spend less than 12 months in prison [7] the flow population is much larger than the census data reveal. Taking the flow population into consideration would show that the recidivism rate is even higher than the 56% suggested from the prison census population. A more accurate figure of re-imprisonment can be obtained when following a cohort of releases. This shows that within 10 years of their release, two in five people in a five-year release cohort had been re-imprisoned [9]. The rate of re-imprisonment increased relatively rapidly in the early years following release, and then leveled out over time.

Prisons provide an important, but overlooked, public health opportunity to engage with those who may not access health services while in the community. Previous research has found that Indigenous prisoners are more likely to use a range of health services when in prison than in the community [10]. Prisoners are often viewed as being isolated from the community, but this fails to recognise that all but a few return to the community after relatively short periods of incarceration. It is in everyone’s interest that they return in good physical and mental health.

As noted above, the offender population consists of more than sentenced prisoners detained in prisons and juvenile detention centres and those on remand. Information about the prison population is more readily available, and this is reflected in this review. However, where available, information about the broader offender population has been included.

**Historical factors**

The arrival of the First Fleet and the establishment of a penal settlement in Sydney Cove in 1788 heralded major changes for Australia’s Indigenous peoples. Indigenous people had their own laws and customs, but, after being declared subjects of the British Empire, they were subjected to a legal system which often ran counter to their own [11]. As European settlement spread across the country dispossessing Indigenous people of their land and its natural resources, police expeditions were mounted to protect the interests of the settlers. This involved enforcing laws of which the Indigenous population were largely unaware and which bore no relation to their own methods of social control [12]. This included rounding up and relocating large groups of people (for example, to Palm Island in Qld). In many instances, this relocation involved violence. During the period of ‘colonial’ expansion, Indigenous people were incarcerated across Australia for a variety of criminal offences. In Vic, for example, many Indigenous people were incarcerated for killing animals and stealing, and Indigenous incarceration in WA occurred for stealing flour, sheep and cattle, and for assault and murder [11]. ‘Aborigines of the time seem to have afforded little legitimacy to imprisonment as an appropriate form of punishment and the escape rate was extremely high’ [11 p.169]. In WA, the high escape rate led to the establishment of a prison on Rottnest Island, off the coast of Perth, and prisoners in the Kimberley region were fitted with neck chains. Many died in these prisons, from the inadequate and inappropriate diet, and introduced diseases [11].

A more liberal attitude emerged at the turn of the twentieth century, with the 1899 Royal Commission on Native Welfare acknowledging the incompatibility of British and Indigenous legal systems, and the futility of imprisoning Indigenous people [11]. Nevertheless high rates of imprisonment persisted. For example, in WA in 1949, Indigenous people were overrepresented in the prisoner population, making up 9% of male and 12% of female prison population [13]. This situation worsened in WA into the 1950s and 1960s with the prisoner population continuing to rise in the latter half of the 20th century. In 2007, Indigenous people comprised 43% of the prison population WA, when Indigenous people made up only 4% of the general population [14].

In the 1970s and 1980s, an important measure was taken to reduce the rate of incarceration - the decriminalisation of public drunkenness, initially in the NT (1974), followed by NSW (1979), South Australia (SA) (1984), WA (1990) and Tas (2003) [15]. In WA, the change in legislation was spurred on by a state inquiry into Aboriginal deaths in custody and then the Royal Commission into Aboriginal Deaths in Custody (RCIADC). The latter recommended that, in addition to decriminalisation, ‘alternative facilities for the care of intoxicated persons should be urgently established and maintained to meet demonstrated needs’ [16 p.31]. Sobering-up centres were subsequently established in Perth and a number of regional locations throughout the state. The number of people imprisoned for public drunkenness had already fallen prior to its decriminalisation in WA, as policy shifted toward a social welfare approach to the issue of public drunkenness. Indigenous people, in particular, benefitted from this change [15].

Understanding the historical interaction of Indigenous Australians with the colonial criminal justice system, and the wider processes of colonisation and dispossession, is essential to any interpretation of the current context of offender health [17]. The overrepresentation
of Indigenous people in contemporary justice institutions should be viewed ‘within a historical framework formed by processes of colonial dispossession, genocide and assimilation, and forms of resistance to these processes’ [17 p.1]. From this viewpoint, criminal justice institutions are conceived as ‘nodal points in a broader fabric of colonial relationships’ [17 p.2]. This is especially important when considering ways to ‘de-colonise’ the justice system and provide agency to Indigenous people in determining their own justice outcomes [17]. From a broader perspective, the overall poor health status of Indigenous people in Australia can be viewed as arising from the processes of colonisation and dispossession. Recognition of this history is essential for all health professionals, and is a necessary first step towards the de-colonisation of health service delivery related to Indigenous health [18].

The social context of health

The factors contributing to the poor health status of Indigenous people should be seen within the broad context of the ‘social determinants of health’ [19, 20]. These determinants, which are complex and interrelated, include income, education, employment, stress, social networks and support, social exclusion, working and living conditions, gender and behavioural aspects. Related to these are cultural factors, such as traditions, attitudes, beliefs, and customs. Together, these social and cultural factors have a major influence on a person’s behaviour.

Within the Indigenous population, it has been shown that certain social determinants affect imprisonment rates. Data from the 2002 National Aboriginal and Torres Strait Islander Social Survey (NATSISS) indicated that respondents to the survey were more likely to have been imprisoned if they had not completed Year 12 education, were unemployed, experienced financial stress, lived in crowded conditions, were a member or had a relative who was a member of the stolen generation, lived in more remote areas, or misused drugs or alcohol [21].

From 1997 to 2004, Indigenous people in NSW were nine times more likely than non-Indigenous people to appear in court, in particular for violent crimes. Indigenous people appeared in court 11 times more frequently than non-Indigenous people for sexual assault, 19 times more frequently for aggravated assault, and 17 times more frequently for robbery [22]. A 2006 study found no evidence to suggest that Indigenous people are more likely to be sent to prison due to racial bias in sentencing, rather that the high Indigenous imprisonment rates are due to the high rates of violent offences and re-offending. A wide range of research has taken place to either confirm or contest this conclusion, with varying results [23]. The most comprehensive study into sentencing disparity was completed in 2009 in South Australia using data from both District and Supreme Court case files [24]. In a matched sample of 148 Indigenous offenders and non-Indigenous offenders sentenced during the period 2005-2006, Indigenous offenders were less likely to receive a prison sentence than their matched non-Indigenous counterparts. When sentenced to prison, however, Indigenous offenders were sentenced to longer periods of imprisonment than were their non-Indigenous counterparts.

Findings regarding disparity in police diversion of young offenders stand in opposition to the research into adult sentencing outlined above. A 2010 study analysed an offender cohort of young people born in 1990 currently residing in Qld, including their contacts for formal police cautioning, police-referred conferencing and finalised juvenile court appearances [23]. This study reported that Indigenous young people were much less likely to receive diversionary outcomes and more likely than non-Indigenous young people to appear in court. As juvenile incarceration is a strong predictor for incarceration in adulthood, it is important to consider the impact that disparity in juvenile outcomes might have on later overrepresentation of Indigenous adults in the correctional system [25].

Children whose parents are incarcerated are at high risk of negative health outcomes and are at greater risk than other children of becoming offenders themselves [26]. In NSW in 2001 an estimated 14,500 children under 16 years experienced parental incarceration, and it was estimated that in that year there were 60,000 children in NSW who had ever experienced parental incarceration in their lifetime, including 4.3% of all children, and 20.1% of Indigenous children.

The key surveys of prisoner health have highlighted the social disadvantage of offenders. The 2009 NSW inmate health survey reported that, of 996 inmates surveyed, 52% of men and 45% of women had not finished year 10 of schooling [3]. Further, 11% had no fixed abode prior to their current incarceration, and 50% of men and 67% of women had been unemployed in the six months prior to their incarceration. The childhood experiences of incarcerated offenders showed similar disadvantage with 30% having a history of being placed in care before the age of 16 years, and around one-in-five having had a parent incarcerated during childhood. The health of Australia’s prisoners 2009 reported that, for the 549 prison entrants surveyed, 86% of Indigenous entrants and 71% of non-Indigenous reported year 10 or below as their highest level of schooling [10]. Results from the same entrants survey administered in 2010 saw this figure drop to 76% for Indigenous entrants and 64% for non-Indigenous entrants [2]. Despite this decrease, the gap between Indigenous and non-Indigenous entrants remains similar and considerable.

When considering Indigenous overrepresentation at all levels of

http://www.healthinfonet.ecu.edu.au/offender_health_review
contact with the criminal justice system, it is necessary to mention the contributing broader socio-legal and socio-political factors. The report of the Royal Commission into Aboriginal Deaths in Custody (RCIADC) highlighted racism as a fundamental problem, finding racism to be ‘institutionalised and systemic’ [27 p.124]. Commissioner Johnston concluded that ‘an institution, having significant dealings with Aboriginal people, which has rules, practices, habits which systematically discriminate against or in some way disadvantage Aboriginal people, is clearly engaging in institutional discrimination or racism’ [27 p.161]. Public drunkenness legislation is an often cited example of institutional discrimination. How institutional factors, such as racism, contribute to Indigenous offending and to offender health is a very complex and largely unexplained relationship, but is something that must be considered in concert with the interventionist history of colonialism when addressing the health of Indigenous offenders [28].

Provision of health services in prisons

Prisons throughout Australia are the responsibility of state or territory government departments of justice or corrective services. Prison health services are managed in different ways in the various jurisdictions. In NSW, Qld, SA, Tas and the ACT, prison health services are the responsibility of the health department. In WA, prison health services are the responsibility of the Department of Corrective Services, and they are contracted in Vic and the NT out to private companies. In Vic, this includes all primary, secondary, tertiary and mental health services. One company delivers primary health care services to adult facilities and juvenile detention centres. (The health of Australia’s prisoners 2010 [2] provides further details of health services provided throughout Australia.) At selected prisons across Australia certain community-controlled health services also deliver medical and other health-related services (for example, alcohol and other drug interventions) for Indigenous prisoners. Non-government organisations also deliver services to offenders in prison, post-release, and as part of diversion programs.

Many Australian prisons are at capacity, and overcrowding creates a range of issues around the maintenance of a safe and healthy environment for prisoners [29]. One consequence of overcrowding is the frequent movement of prisoners between facilities, making it difficult to maintain continuity of physical and mental health interventions. In many cases this also makes it very difficult for family members to visit prisoners. In overcrowded prisons, there is an elevated risk of transmission of airborne and respiratory infections, which can pose a danger to pregnant women and those who are Human immunodeficiency (HIV) positive.

Deaths in custody

The RCIADC was established in October 1987 as a result of growing public concern about a large number of Indigenous people having died in custody during the 1980s [30]. It was the death of John Pat in the Roebourne lock-up in regional WA in 1983 that triggered a campaign by Indigenous activists, which gained momentum as more such deaths occurred around the country. The initial brief of the commission was to thoroughly re-investigate each of these deaths, but the brief was extended to also try to ‘find larger social and economic factors to explain Aboriginal deaths in custody’ [31 p.2]. The RCIADC’s final report, completed in April 1991, contained 339 recommendations [31]. An analysis of the processes and outcomes of the RCIADC, using data from interviews conducted with 48 people associated with it, found it to have been flawed in a number of ways, but over half of those interviewed believe that the inquiry managed to achieve some positive outcomes. Many of these outcomes, however, are a reflection of the extent to which governments have implemented the recommendations made, rather than a reflection of the suitability of the investigative procedures [30 p.124].

Positive outcomes from the inquiry include some improvement in the treatment of Indigenous people when arrested and in detention, the establishment of Aboriginal visitor schemes in some jurisdictions, the establishment of RCIADC watch committees in some jurisdictions, and the ongoing monitoring of deaths occurring in custody by the Australian Institute of Criminology. The Indigenous people interviewed stated that the most important overarching outcome was that the recommendations support their requests for policy reforms [30]. The review of the processes and outcomes of the RCIADC concluded that despite its flaws, ‘the RCIADC remains the most comprehensive investigation ever undertaken into the deep disadvantage experienced by Indigenous people as a result of colonisation’ [30 p.125].

The RCIADC reviewed the rates of deaths in custody and found that the rate among Indigenous people was no higher than among the non-Indigenous population. It was not that they were more likely to die in custody than non-Indigenous Australians, rather that Indigenous people were significantly overrepresented in custody. The problem was simply ‘too many Aboriginal people are in custody too often’ [14 p.1].

Of the 74 deaths that occurred in custody in 2007 (45 in prison custody, 29 in police custody and custody-related operations), nine (12%) were Indigenous (five in prison custody, and four in police custody and custody-related operations) [14]. In the 27 year period from 1980 to 2007 there were 1,206 deaths in prison, 745 in police
custody and custody-related operations, and 17 deaths in juvenile detention centres. Indigenous people accounted for 19% of these deaths. Since the RCIADC, Indigenous people have increasingly been overrepresented in custody in all Australian states and territories while comprising less than 3% of the total Australian population [6, 14].

The health of Indigenous prisoners

General health issues

The general health status of offenders is poorer than that of the general population. This is reflected in the 2009 NSW inmate health survey, in which 966 inmates were sampled on their self-reported general health status; of these only 33% rated their overall health to be very good or excellent compared with 56% of the general population sampled in the National health survey (NHS) 2007-2009 and the Australian health survey 2011-2012 (AHS)[3, 32, 33].

The most comprehensive national picture of offender health is The health of Australia’s prisoners report series which reports on a number of national prisoner health indicators [2, 10]. The first report in this series was in 2009 and the second in 2010. The data in these reports come mostly from the National Prisoner Health Census. In 2010, detailed data were collected for 610 prison entrants, almost 6,000 prisoners in custody who visited a clinic, and over 5,500 prisoners who were taking prescribed medication in Qld, WA, SA, Tas, the ACT and the NT [2]. Of the prison entrants, 262 (43%) were Indigenous; this was a substantial increase from 26% in 2009 (part of this increase was due to the inclusion of the NT and the exclusion of Vic in 2010) [2, 10]. The general self-reported levels of chronic diseases in the 2010 survey tended to be lower than comparable national prevalences with few exceptions. Thirteen percent of Indigenous and 27% of non-Indigenous prison entrants reported currently having asthma in 2010 compared with 10% of the general public who reported asthma in the 2007-2008 NHS and 2011-2012 ANS [2, 32, 33]. Five percent of Indigenous and 13% of non-Indigenous entrants reported arthritis, a lower prevalence than the 15% of the general public reporting arthritis in the 2007-2008 NHS and 2011-2012 ANS3. Similarly, only 9% of Indigenous and 7% of non-Indigenous prisoners reported cardiovascular disease compared with 16% of the total population. The rate of diabetes was the same as national prevalence with 4% of prison entrants and the total population reporting having been diagnosed with diabetes. Cancer prevalence was reported by less than 1% of all

Of the 996 prisoners who participated in the 2009 NSW inmate health survey, approximately 26% identified as Indigenous men [3]. (The breakdown of the female prisoners by Indigenous status was not undertaken). Across all dimensions of self-assessed health measures, prisoners’ scores were lower than those of the general community. This disparity was more pronounced for women than men in almost all categories. For example, 13% of women had been told by a doctor they had kidney problems, but only 5% of men had. Overall, these data indicate high levels of chronic illness among prisoners, despite most being below the age of 40 years (62%), and 33% younger than 25 years. In another study of 740 prison entrants, 85% reported they were current tobacco smokers; the median age of first smoking was 14 years [34].

A study of prisoners in NSW found few differences between Indigenous and non-Indigenous prisoners with regard to a range of self-reported chronic health conditions [35]. Indigenous prisoners were found to be more likely to report seeing health professionals (doctors, dentists, drug and alcohol counsellors) while in prison than when in the community, highlighting the fact that, for many, prison offers an important opportunity to access treatment and engage with health professionals. Prisoners with intellectual disability (ID) were found in a recent study to have worse health outcomes than non-disabled prisoners [36]. In a study that interviewed 1,279 adult prisoners in Qld who were within six weeks of release from custody, 9% screened-positive for ID and 14% reported that they had been diagnosed with an ID. The odds of screened-positive prisoners being diagnosed with heart disease or having a hearing problem was more than doubled. The odds of being diagnosed with epilepsy were 1.9 times greater. The study also found that Indigenous prisoners were over-represented among prisoners screening positive for ID. An analysis of mental health also found few differences between Indigenous and non-Indigenous male prisoners, but Indigenous women had higher rates of some mental health conditions than non-Indigenous women [37].

The prevalence of chronic diseases among inmates of a regional prison in WA was undertaken using a cross-sectional audit of medical notes [38]. The records of 185 predominantly young prisoners were examined; 170 were male, and 84% were Indigenous. Fifty-three percent had at least one chronic disease and 19% two or more, with hypertension, psychiatric conditions and diabetes being the most prevalent.

In the Bridges and barriers: addressing Indigenous incarceration and health report, the National Indigenous Drug and Alcohol Committee (NIDAC) called for an improvement in the level of health services for Indigenous prisoners and juvenile detainees

3 Asthma and cardiovascular disease prevalence increase with age, this is one possible explanation for the differences found between the inmate population and the general population.
[39]. Specific recommendations for improvement included: the provision of comprehensive health screening on reception, encouraging acceptance of recommended treatments, and providing throughcare by allowing Indigenous health and other services access to Indigenous people during their incarceration. The report stated:

The provision of ‘one health service fits all’, as in the case for many corrections systems, creates a disjointed and unsuitable approach to addressing the complex issues of alcohol and other drug misuse among Indigenous offenders. Limited access currently exists for offenders to engage with Indigenous-specific alcohol and drug programs. In areas where there are Aboriginal community-controlled health services or Aboriginal alcohol and drug services, there are opportunities to involve these services in the health care of offenders and in their ongoing care post-release [39 p.9].

Mental health

Mental health is one of the most important issues affecting prisoner populations and impacting on the criminal justice system. There is an overrepresentation of mental health conditions in the prisoner population, with the rates of some psychiatric conditions being up to five times higher than those of the general community [40]. In 2001, there were approximately 15,000 people with major mental illnesses in Australian institutions (including psychiatric hospitals, prisons and gaols); of these, one-third were in prisons [41]. A review of epidemiologic data in 2003 found that 20% of female prisoners, and 14% of male prisoners reported having had a prior admission for a psychiatric illness [42]. These findings show the disproportionate impact of mental health issues on the prison population when compared with the general population, where only 0.8% of the population was hospitalised for mental health problems in 2003 [43]. There are a number of suggested factors that may have contributed to the higher prevalence of mental illness in the prison population, including de-institutionalisation of people with mental illnesses, the lack of capacity of community-based mental health services to meet their needs, and an increase in the use of drugs and alcohol among those experiencing mental health problems [40].

The 2007 National survey of mental health and wellbeing estimated that 41% of people who had ever been incarcerated had a mental disorder in the previous 12 months, compared with only 19% of people who had never been incarcerated [44]. This was striking for substance use disorders, including alcohol related disorders, among those who had been incarcerated (23%) compared with those who had never been incarcerated (4.7%). The health of Australia’s prisoners 2010 reported a similar prevalence of self-reported mental health disorders among prison entrants, with 38% of non-Indigenous and 23% of Indigenous prisoners reporting having been told by a medical professional at any time that they had a mental disorder [2]. Nineteen percent of non-Indigenous and 12% of Indigenous entrants reported currently taking medication for a mental health disorder.

The largest epidemiological survey of prisoner mental health, conducted in NSW prisons in 2004, found that 43% of prisoners screened were diagnosed with psychosis, anxiety disorder and/or affective disorders [45]. Of the female prisoners, 61% had some form of psychiatric illness, compared with 39% of the male prisoners. A more recent study, comparing the prevalence of 18 mental disorders among inmates of Sydney metropolitan area prisons with that of a sample from the general population, found a strong connection between being a prisoner and reporting symptoms of psychosis or post-traumatic stress disorder in the previous twelve months [46]. The most pronounced difference was in the prevalence of substance use disorders, being 66% among prisoners compared with 18% in the community sample.

Few quantitative studies have been conducted specifically on Indigenous prisoners’ mental health in Australia. The largest survey of Indigenous prisoners to date was carried out in Qld prisons where 419 Indigenous prisoners were part of a sample of 1,497 [47]. Of the 419, 347 were Indigenous men (representing 25% of all Indigenous men incarcerated) and 72 women (62% of all Indigenous women incarcerated). Compared with community estimates 12-month prevalence rates of mental disorder were found to be very high: 73% among men and 86% among women. With the exception of substance misuse disorders (66% men; 69% women), anxiety disorders were most prevalent (20% men; 51% women); followed by depressive disorders (11% men; 29% women); and psychotic disorders (8% men; 23% women).

In a survey of 1,470 NSW prisoners, 277 who were Indigenous, no significant difference was found among the male prisoners on the basis of Indigenous status, with the exception of depression, which was higher among non-Indigenous male prisoners [37]. Indigenous women prisoners, however, were ‘more likely to screen positive for symptoms of psychosis … and had higher psychological distress scores’ [37 p.429]. A systematic review of eight quantitative studies on the mental health of Indigenous prisoners in Australia concluded that the available literature suggests high rates of mental problems, and that the rates among women are of particular concern [48]. The authors called for more research that focuses on the emotional wellbeing of Indigenous people in custody, using culturally appropriate methods, including ‘culturally validated mental health research tools’ [48 p.49].

Co-occurring mental health and substance use is common among the offender population. According to the Human Rights and
Around 87% of injecting drug users interviewed had injected drugs at some time in their lives; and of those who had injected, 56% had injected in the previous month [55]. Of the 873 prison entrants screened across Australia as part of the 2009-10 national prison entrants bloodborne virus survey, 44% had injected drugs at some time in their lives; and of those who had injected, 56% had injected in the previous month [55]. Injecting drug use was more common for non-Indigenous entrants (47%) than for Indigenous entrants (36%), and for female entrants (56%) than for male entrants (42%). The most common last drug to be injected was amphetamine (58%), followed by heroin (25%). Around 87% of injecting drug users interviewed had injected for more than three years, which suggests that the prisoner population has a higher concentration of serious, long-term drug users than does the general community. Amphetamine was the most frequently reported drug last injected by those entering prison, highlighting the importance of staff receiving ‘training in recognising and managing amphetamine withdrawal on entry to prison’ [55 p.11]. Tobacco smoking has also been found to be very common among offenders, with 74% of Indigenous entrants and 75% of non-Indigenous entrants being daily smokers [2].

There is a well-established link between alcohol and offending behaviour, with the prisoner population often characterised by high rates of risky drinking [56]. The health of Australia’s prisoners 2010 highlighted this, finding that 73% of Indigenous entrants and 48% of non-Indigenous entrants reported consumption of alcohol at harmful levels in the previous 12 months [2]. Drug use monitoring in Australia: 2007 annual report on drug use among police detainees reported the lowest rates of ‘hard drug’ use (heroin, methamphetamine) in Alice Springs and Darwin, and the highest rates of detainees reporting having drunk alcohol prior to their arrest in Alice Springs (77%) and Darwin (69%) [57]. These statistics are interesting, in view of the high concentration of Indigenous residents in both Alice Springs and Darwin regions [58]. Across Australia, 45% of the 2009-10 participants believed their substance use had contributed to their having committed the offence for which they were being detained, the highest proportions being in Kings Cross (59%) and Darwin (58%) [54]. Indigenous offenders were more likely than non-Indigenous offenders to report being under the influence of alcohol at the time of an offence or arrest [50]. Similarly, Indigenous male detainees were significantly more likely than non-Indigenous male detainees to report being dependent on alcohol (25% and 17% respectively) [59]. ‘There is a great deal of evidence to suggest that alcohol plays a major role in much of the offending by Indigenous people,’ and that more than one-half of the incidents of violent and serious assaults involved alcohol [50 p.10].

A study examining the prevalence and correlates of alcohol dependence among 274 Indigenous and 881 non-Indigenous prisoners in Qld, found that Indigenous prisoners were significantly more likely than non-Indigenous prisoners to report patterns of alcohol consumption consistent with dependence: 45% of Indigenous and 22% non-Indigenous prisoners were classified as dependent [60]. Alcohol dependence was assessed using the Alcohol Use Disorders Identification Test (AUDIT), whereby scores ≥ 20 marked dependence. Multivariate analyses revealed different independent correlates of dependence according to Indigenous status. Significant independent correlates of dependence among Indigenous prisoners included income below the poverty line and daily cannabis use before incarceration. Significant correlates

**Substance use**

Substance use represents a distinct and substantial issue in offender health with people reporting having been incarcerated over five times as likely to have a substance use disorder than people who had never been incarcerated [44]. The high level of co-morbidity between mental health and substance use disorders is emphasised in the National drug strategy: Australia’s integrated framework 2004-2009 [51]. Indeed, the strategy identified the need for specialised services for people within the criminal justice system to coordinate the need for closer ties between mental health and substance use services. Overwhelming evidence exists that substance misuse is responsible for a considerable proportion of offending behaviour. A study conducted in NSW in 2001 found that 55% of prisoners had an ICD-10 [52] substance use diagnosis [53]. Drug use monitoring in Australia: 2009-10 annual report on drug use among police detainees reported that approximately 66% of Indigenous adults who were tested while detained by the police had positive results for at least one drug [54]. Approximately 47% of people arrested across Australia said they had consumed alcohol within the 48 hours prior to their arrest. Australia-wide, female detainees were more likely than male detainees to test positive to amphetamines, opiates and benzodiazepines; males were slightly more likely than females to test positive for cannabis.

Of the 873 prison entrants screened across Australia as part of the 2010 national prison entrants bloodborne virus survey, 44% had injected drugs at some time in their lives; and of those who had injected, 56% had injected in the previous month [55]. Injecting drug use was more common for non-Indigenous entrants (47%) than for Indigenous entrants (36%), and for female entrants (56%) than for male entrants (42%). The most common last drug to be injected was amphetamine (58%), followed by heroin (25%). Around 87% of injecting drug users interviewed had injected

http://www.healthinfonet.ecu.edu.au/offender_health_review
among non-Indigenous prisoners included history of mental illness or self-harm, and daily tobacco or cannabis use before incarceration. The authors conclude that such figures indicate that separate culturally appropriate interventions to reduce alcohol-related harm for Indigenous prisoners may be required.

One of the key recommendations in the NIDAC report *Bridges and barriers: addressing Indigenous incarceration and health* is to ensure ‘access to a full range of effective drug and alcohol treatments, as well as mental health services, which are well suited to treating Indigenous offenders (and their families), as are available to the wider community’ [39 p.11]. A more recent NIDAC report titled *An economic analysis for Aboriginal and Torres Strait Islander offenders: prison vs residential treatment* highlights the financial savings and health and mortality improvements associated with the diversion of Indigenous offenders into community residential drug and alcohol rehabilitation services instead of incarceration [61].

There is strong evidence that enabling Indigenous communities to restrict the sale of alcohol reduces alcohol-related crime, but at the same time investing in alcohol treatment for Indigenous people should not be neglected [62]. In WA, in a written submission to a parliamentary inquiry into the adequacy and appropriateness of prevention and treatment services for alcohol and illicit drug problems, the Western Australia Network of Alcohol and other Drug Agencies (WANADA) wrote:

WANADA member agencies state that the workload associated with Department of Corrective Services clients is significantly higher than for clients in the general community with drug-related problems. WANADA is concerned that the Department of Corrective Service client workload is impacting on the availability of services to non-mandated clients. This must be a concern to state and commonwealth agencies involved in funding alcohol and other drug services in Western Australia … If the funding shortfall is not addressed, access to services is likely to decline further and the prospects of meeting the already significant and clearly demonstrated unmet need … will be negligible [63 p.7-8].

**Blood-borne viruses**

Estimates suggest that between 7,500 and 10,000 prisoners in 2005 were hepatitis C (HCV) antibody positive [64]. Transmission of HCV in prison has been documented, but few prisoners receive treatment for this virus [65, 66]. Additionally, high-risk behaviours for blood-borne virus (BBV) transmission, such as injecting drug use, tattooing, physical violence, body piercing and unprotected sex, are more common in prisons than in the wider community [65]. The *National prison entrants’ bloodborne virus surveys* are conducted among offenders to assess the prevalence of bloodborne viruses and their associated risk factors [34, 55, 65]. The 2004 survey was conducted among offenders as they were entering seven prisons in NSW, Qld, WA, and Tas [65]. Blood test results revealed that less than 1% of the sample was HIV positive, whereas 34% were positive for HCV. Levels of HCV were higher among injecting drug users in the sample (56%), particularly among female injecting drug users (83% compared with 54% for male injecting drug users). The proportions of Indigenous and non-Indigenous participants with HCV were similar (37% and 34% respectively). These levels are well above those for the general population and place those not infected with HCV at great risk of becoming infected while in prison. The 2007 survey was conducted in all jurisdictions except the NT and covered 17 sentinel sites [34]. HIV prevalence was low in both men and women (less than 1%). The overall prevalence of HCV was 35%; prevalence was much higher among prisoners with a history of injecting drug use (IDU) than among non-injectors (60% compared with 4%). The prevalence of HBV core-antibody was highest in NSW and WA (27% and 28%) and lowest in Qld and Tas (both 9%).

The 2010 *national prison entrants’ bloodborne virus and risk behaviour survey* included all jurisdictions and covered 29 reception centres across Australia [55]. There were no cases of HIV detected in 2010, representing a small decrease from 2004 and 2007. The prevalence of HCV was 22%, being highest in the ACT and Vic (40% and 33%), and lowest in the NT (4%). The prevalence of HCV was much higher (51%) among those with a history of injecting drug use than among non-injectors (1%). Women who had injected had higher levels than did male injectors (68% compared with 49%). The prevalence of HBV core-antibody was highest in the NT (39%) and lowest in SA (9%). The authors noted that ‘Nationally, around 40% of all prison entrants were unimmunized against hepatitis B and were therefore vulnerable to infection. This group should be vaccinated as a matter of priority’ [55 p.10].

The 2010 *national prison entrants’ bloodborne virus and risk behaviour survey* reported that 18% of Indigenous prison entrants tested positive for HCV antibody, compared with 23% of non-Indigenous entrants [55]. More Indigenous females tested positive for HCV antibody than Indigenous males (35% and 17%, respectively). Around 27% of Indigenous prison entrants tested positive for the HBV core-antibody compared with 15% of non-Indigenous entrants. The authors noted that ‘In previous surveys, the prevalence of hepatitis B core-antibody and hepatitis C antibody among Indigenous drug users has been high (48% and 64% in 2007). However in 2010 there were significant drops for both hepatitis B (18%) and hepatitis C (52%) suggesting that programs targeting Indigenous IDU may be effective’ [55 p.10]. They recommended culturally appropriate treatment programs targeting HCV among Indigenous prisoners.
Male and female prisoners entering SA prisons over eleven months in 2004-05 were tested for HCV infection and completed a survey in order to determine the prevalence of infection and identify risky behaviours [67]. Of the 662 participants, 10% were women, and 17% were Indigenous, 42% were HCV positive, and 64% had a history of injecting drug use. There was a significant association between being HCV positive and being female, being older, Indigenous status, and having a history of previous imprisonment. Prison injecting and tattooing were both associated with significantly higher risk than among those not reporting these behaviours. Those who were HCV positive were more likely to have commenced injecting when in prison, and to have shared needles that ‘will almost certainly be contaminated with HCV, which has serious implications for prison staff and also for susceptible prisoners’ [67 p.207].

An audit of medical records in a regional prison in WA was undertaken to evaluate the coverage of public health interventions, including testing for hepatitis C [38]. Seventy-nine percent had been tested for HIV, 84% for hepatitis B and 82% for hepatitis C. Of those tested, seven Indigenous prisoners and six non-Indigenous inmates were HCV positive. Eight of the HCV positive prisoners had a history of injecting drug use. Five of the six hepatitis B positive prisoners were Indigenous. The audit also found that vaccination rates were low, with only 36% being vaccinated against influenza, and 12% against pneumococcal disease. The authors concluded that ongoing monitoring is critical in order to take advantage of the opportunity prison presents for improving public health interventions, including BBV screening and vaccination.

Research in NSW on the prevalence of, and risk factors for HCV in Indigenous and non-Indigenous adolescent offenders (12 to 19 years) was conducted using a physical and mental health survey and blood testing [68]. Of the 1,042 participants, 25% identified as Indigenous. The Indigenous participants had higher levels of hepatitis B (9.6%) than the non-Indigenous adolescents (5.2%). For both groups, HCV levels were quite high (7.3% and 5.3% respectively), but knowledge about its transmission was very poor. The Indigenous participants were younger, more likely to be in detention, more frequently had a parent in custody, and more likely to have been placed in care. The levels of drug use were similar, but non-Indigenous participants were more likely to drink alcohol at hazardous levels. This is in contrast with what is found with the general (non-prison) population, where hazardous alcohol consumption is more common among Indigenous people than among non-Indigenous people (even though the overall proportion of people consuming alcohol is lower for Indigenous people than for non-Indigenous people) [69]. Adolescents currently serving custodial sentences had two times the prevalence of HCV of those on community orders [68]. This means that Indigenous adolescents, who are over-represented in the youth offender population and in detention centres, are particularly at risk. The authors conclude that alternatives to custodial sentences should be considered whenever feasible, and that there is an urgent need for prevention, education and treatment programs.

A retrospective audit of prisoner medical records from the beginning of 2005 to the end of 2007 was carried out to determine the extent and results of testing for blood-borne viruses on admission to correctional facilities in WA [70]. The cohort of 946 people included 544 (58%) Indigenous detainees. Of the 286 prisoners tested for hepatitis B, 4.5% had positive results. All of these were adults, 92% of whom were male. One-quarter (25%) of the 330 people tested for HCV returned a positive result, with the level being much higher for non-Indigenous prisoners (38%) than for Indigenous prisoners (15%). Twenty-six percent of adults tested positive for HCV compared with 11% of juveniles. Prison location was also significantly associated with positive HCV results, with Indigenous prisoners released from regional prisons having much lower levels than those in metropolitan prisons (4% compared with 34%). Among the 314 people tested, only two people (0.6%) were HIV positive.

Given the high rate of prisoners testing positive for HCV, significant numbers of unexposed are at risk due to engagement in risk behaviours in prison (see above). Giving HCV positive prisoners access to treatment (such as interferon) is a public health intervention that not only addresses their health needs but, given the high rates of HCV transmission among those in custody, also reduces the risk of infection for other inmates, and for the wider community after their release [71].

**Sexual health**

Sexual behaviour in prisons is a sensitive and controversial subject, as prisons are ‘deeply moralistic environments characterised by power relationships and low interpersonal trust’ [29 p.69]. There are a number of key issues of concern with respect to the sexual health of prisoners, including prisons being used as an opportunity to screen for and treat sexually transmitted infections (STIs), the provision of condoms to prevent the transmission of STIs between prisoners, conjugal visits, sexual assault and related victim trauma. Conjugal visits are allowed to a limited extent in some prisons in Vic and Tas [29].

**Sexually transmitted infections**

Prisoners are a high-risk group for sexual ill-health [4, 72], which can have consequences for the health of the wider community. This population group is characterised by engagement in a range of risk-taking behaviours, such as substance abuse, alcohol
consumption, tobacco smoking, and being involved in acts of violence [34]. Prisoners are generally drawn from the most disadvantaged groups in the community, which are recognised as having poor sexual health [73]. High rates of STIs, such as syphilis, HIV, hepatitis B, and herpes simplex virus type-2, have been reported in the prisoner population [74-76].

As part of a cross-sectional audit of medical records in a regional prison in WA, patient records were scrutinised for patient treatment for STIs [38]. Less than one-half (44%) of the 185 predominantly Indigenous participants had been screened for chlamydia and gonorrhoea during the first month of their incarceration, but 71% had been tested by the end of the first year. Eight people, all Indigenous, were positive for chlamydia. Six people, five of whom were Indigenous, tested positive for gonorrhoea. In addition, four Indigenous prisoners had a medical record note that they had previously had syphilis.

Again in WA, a study was conducted on the testing and prevalence of sexually transmitted infections among people being admitted into correctional facilities [70]. A retrospective audit of medical records from the beginning of 2005 to the end of 2007 was conducted, including 946 individuals of whom 58% were Indigenous. Fifty percent had been tested for chlamydia and gonorrhoea, with significantly higher levels of testing among the juveniles (84%), and among Indigenous adult prisoners (58%) than non-Indigenous prisoners (40%). Of the 466 tested, 7% had tested positive for chlamydia, with juvenile females having a significantly higher level (20%) than juvenile males (2%). Indigenous females had approximately twice the level of non-Indigenous females, while non-Indigenous males had a higher level than Indigenous males.

The 2005-2007 audit in WA found that less than one-half of the adults being admitted to prison during this three-year period had undergone STI and BBV testing, but a significantly higher percentage of juveniles had been tested [70]. Only a small percentage of those not tested had refused to be screened. Given that most prisoners serve short sentences of twelve months or less, ‘deficiencies in prisoner health assessment practices represent missed opportunities to improve disease control in prisoners and in the wider population’ [70 p.8]. Standardised assessment and referral for treatment on admission to a correctional facility is an important strategy for improving the provision of health care for the high-risk prison population.

Condom use

Condoms are available in prisons in all jurisdictions except Qld and the NT, and can be accessed anonymously across jurisdictions except in Vic where they are available only on request [2, 10]. Those opposed to condoms being made available to prisoners were worried it would encourage prisoners to have sex, lead to sexual assault, would be used to conceal drugs, and would be used as weapons [77]. Legal action was taken against the NSW Government in 1993 by 52 Indigenous prisoners for denying them access to condoms. Being advised that the prisoners had a strong case, the NSW Department of Corrective Services piloted the distribution of condoms in three men’s prisons. A full condom distribution program was implemented in November 1997, and evaluated the following year [78]. All male prisoners in NSW were sent a reply-paid postal survey about sexual behaviour and condom use, and, while the response rate was only 9%, the 556 responses were representative of the prison population with respect to age, offence and length of sentence. Eighty-four percent of the respondents were in favour of condoms being provided. A small percentage (14%) thought that the availability of condoms would increase the incidence of rape, but 72% did not believe that it would ‘mainly due to the opportunistic nature of prison rape’ [78 p.126].

To assess whether the availability of condoms increased sexual assaults, data from the NSW inmate health surveys undertaken in 1996 and 2001, and reports from the NSW Department of Corrective Services, were examined [77]. The data from the two NSW inmate health surveys show a decrease in non-consensual and consensual sex for both men and women (Table 3) [3, 4, 79]. In terms of condoms being used as weapons:

> only three incidents of condoms being used against prison officers were recorded between 1996 and 2005, which were mostly of a mischievous nature [77 p.221].

In 2006-2007, 1,118 male and 199 female prisoners in NSW participated in a computer-assisted telephone survey about their sexual attitudes, behaviours and health [80]. Eighteen percent of the men, and 25% of the women were Indigenous. Prior to being detained, the majority of both men and women (80% and 70%) had been in a relationship with someone of the opposite sex, but only a minority (42% men, 29% women) had been using contraception. Participants were asked about their use of condoms while in prison and most men (94%) said they had access to a condom machine. Only one-half of participants reported having taken a condom packet from a machine, and only 2% reported having used one for sex in prison. Similarly, women had access to dental dams, but only 4% reported having used one for sex in prison. Thirty-seven men reported having had anal intercourse with an inmate, and 25 had used a condom at least once for anal sex. Male prisoners also reported using condoms for masturbation. In a study comparing data collected from the NSW telephone survey and its Qld equivalent (condoms are not available in Qld prisons), found no evidence that condom provision increased consensual
and non-consensual sex in prison. The study also found that when available condoms were much more likely to be used during anal sex. The study concluded that ‘condoms should be made available to prisoners as a basic human-right’ [81 p.1].

Sexual assault

Sexual assault in prison is a complex issue. One researcher and magistrate explained that:

Sexual assault in prison is not about sex, sexual frustration or latent homosexuality - it is about power. Rigid hierarchical stratifications develop within the closed environment of a prison, and the penis is a weapon of control, ownership and domination [82 p.287].

In the short-term, sexual assault negatively effects prisoners’ psychological state, including increasing suicidal tendencies [82]. In the long-term, it may result in increased drug use, ‘sexual violence and an inability to form lasting relationships’; thereby increasing the likelihood of re-offending and re-imprisonment [82 p.287]. The increasing rate of imprisonment over time is an issue for concern, given that overcrowding in prisons increases the frequency of sexual assault [82].

Estimates of sexual assault in prisons vary. For example, using a combination of probability and nonprobability sampling a 1995-96 NSW-based survey of 300 male prisoners aged 18-25 years, found that 77 (26%) had been sexually assaulted at some time while in prison, and even more had been threatened with sexual assault or violence [82]. Fifty percent reported having been physically but not sexually assaulted. In the 2006-2007 NSW and 2007-2008 Qld prisoner telephone sex survey, participants were asked whether they were afraid of or had experienced sexual assault or coercion while in prison [80, 83]. Of the male prisoners interviewed, 7.3% (NSW) and 6.9% (Qld) said they were concerned about being sexually assaulted, 5.7% (NSW) and 8.3% (Qld) said that they had been threatened with sexual assault, and 2.4% (NSW) and 2.9% (Qld) reported having been sexually assaulted or coerced into sex while in prison. Fear of sexual assault among the women prisoners was slightly lower at 6.5% (NSW) and 6.7% (Qld), but 7% (NSW) and 8.3% (Qld) reported having been threatened with, and 4% (NSW) and 3.8% (Qld) actually having been sexually assaulted or frightened into having sex. Physical assault was more common: 34% (NSW) and 33% (Qld) of men and 27% (NSW) and 20% (Qld) of women reported having been physically assaulted while in prison [80, 83].

The department’s records showed that reported incidents of sexual assault in prisons in NSW decreased slightly between 1996 (0.3/100) and 2001 (0.2/100). Rates reported in the NSW inmate health survey for 1996, 2001 and 2009 illustrate a decline in non-consensual sex among men and women prisoners (Table 3) [3, 4, 79]. A similar finding is reported concerning sexual assaults in NSW prisons between 1996 and 2009 in an article based on evidence from population-based surveys [84].

Methodological difficulties and differences inform variations in sexual assault estimates and arise due to different sampling procedures as well as different definitions and understandings of what constitutes sexual assault and consent.

<table>
<thead>
<tr>
<th>Year</th>
<th>Men Consensual sex</th>
<th>Men Non-consensual sex</th>
<th>Women Consensual sex</th>
<th>Women Non-consensual sex</th>
</tr>
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<td>6.3</td>
<td>2.6</td>
<td>15.2</td>
<td>1.5</td>
</tr>
<tr>
<td>2001</td>
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<td>20.4</td>
<td>1</td>
</tr>
<tr>
<td>2009</td>
<td>2.1</td>
<td>&lt;.01</td>
<td>12.0</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Note: There were 538 males and 132 females interviewed in 1996, 747 and 167 in 2001, and 780 and 184 in 2009

A more recent WA study involved in-depth interviews with a convenience sample of 150 ex-prisoners and some prison officers to explore the issues around sexual assault in prisons [85]. All participants were male, 22% identified themselves as Indigenous, and 9% as gay. Fifty-four percent of participants said they knew of sexual assaults taking place in WA prisons, 23% had been under pressure to take part in unwanted sexual acts, and 14% said they had been sexually assaulted. The majority said they were aware of sexual assaults taking place in WA prisons, but 5% said they were unsure whether this was true, and 3% said that it did not occur. Ninety percent of those interviewed thought that sexual assault in prison is ‘grossly under-reported’ [85 p.26]. As the author of the NSW study explains, ‘it leaves no visible bruises or scars; and shame, fear and a culture of silence mean that it is easily hidden from or denied by authorities’ [82 p.287].

Many of the participants who identified themselves as victims of sexual assault in the WA study said they had been 'targeted and abused by others over a prolonged period' [85 p.29]. In many cases, the experience 'appeared to challenge their personal identity and reduce the likelihood of them coping with future close relationships' [85 p.29]. Victims said they had received little or no support, and were often left in situations where known sexual predators had access to them. The gay men interviewed felt particularly vulnerable in prison. They were often considered 'fair game' by predators, and they tried to conceal their sexual orientation. Those most at risk were young men (aged 18 to 30

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Women prisoners

According to the June 2012 prison census, there were 2,199 female prisoners in Australia (Table 1) [6]. The imprisonment rate for females was much less than the rate for males: 25 female prisoners per 100,000 female adults, compared with 315 prisoners per 100,000 male adults. National imprisonment rates for women have greatly increased in the last decade; between 2002 and 2012 the imprisonment rate for females increased from 19 per 100,000 to 25 per 100,000. The increase in female incarceration rates occurred in all states and territories except the ACT. The NT had the highest increase, with rates increasing from 31 to 99 female prisoners per 100,000 adult females. The rate increased by 84% in WA from 26 to 48 per 100,000.

The overall rate of imprisonment for Indigenous females in Australia in 2012 was 405 per 100,000 population, almost 25 times the rate of 17 per 100,000 for non-Indigenous females [6]. The Indigenous:non-Indigenous rate ratio for imprisonment of females was highest for those aged 18 years. This highlights the fact that Indigenous female prisoners tend to be younger than non-Indigenous female prisoners. The median age of non-Indigenous female prisoners was 36.8 years, 5.4 years older than the median age of 31.4 years for Indigenous female prisoners. The median age for all male prisoners was 33.9 years. In The health of Australia’s prisoners 2010, the mean age of first pregnancy for Indigenous entrants was 18 years compared with 20 years for non-Indigenous entrants [2]. The age-standardised imprisonment rate for Indigenous females increased steadily between 1999 and 2009 while the rate for non-Indigenous females was relatively stable [7, 86-92].

The patterns of the most serious offence or charge were similar for Indigenous male and female prisoners in 2012: for males the highest proportion was for acts intended to cause injury (34%), followed by unlawful entry with intent (16%) and sexual assault (10%), and for females it was for acts intended to cause injury (33%), followed by unlawful entry with intent (15%) and offences against justice procedures, government security and operations (9.4%) [6]. Interestingly, the most serious offence/charge for Indigenous and non-Indigenous female prisoners differed in 2012. Contrasting with the proportions provided above for Indigenous female prisoners, the highest proportions for non-Indigenous female prisoners were for illicit drug offences (25%), fraud, deception and related offences (14%), and homicide and related offences (12%).

Female prison entrants differed from male prison entrants on a variety of health indicators in 2010 [2]. More female entrants reported a history of mental health problems (41%) than did male entrants (30%), but the same proportions of female and male entrants were currently on medication for mental health disorders (16%). Female entrants reported higher levels of high or very high psychological distress (42%) than did male entrants (27%). This is reflected in a history of self-harm, which was present for almost one-third of female entrants (29%) and 19% of male entrants; Indigenous females were less likely to have a history of self-harm than non-Indigenous females (26% and 33%, respectively) or thoughts of self-harm (14% and 23%, respectively).

The health of Australia’s prisoners 2010 reported that female entrants had higher rates of most chronic diseases than male entrants [2]. For asthma, 25% of female entrants reported the condition, compared with 20% of male entrants. Arthritis was reported by 11% of female prison entrants compared with 9% of male entrants. Around twice as many male as female entrants reported cardiovascular disease (8% and 4%). Diabetes was similar among the two populations.

The health of Australia’s prisoners 2010 also assessed the two-year participation rate in a cervical screening program, finding that only 51% of Indigenous entrants and 48% of non-Indigenous entrants had been screened, significantly lower than the level of screening in the general population (60%) [2].

Female prisoners had a higher prevalence of HCV (34%) than did male prisoners (21%) in 2010; 35% of Indigenous female prisoners tested positive for HCV [55]. Similar prevalences of HBV core-antibody were found among female and male prisoners (18% and 19%, respectively) but prevalences were much higher among Indigenous females (25%) than among non-Indigenous females (14%).

A Women prisoners’ health survey was conducted in all three Qld correctional facilities for women in 2002 [93]. The survey was based on the in-depth survey used in the NSW Inmate Health Surveys in 1996 and 2001. There were 212 participants, 25% of whom were Indigenous. This was relatively representative of the female
Indigenous prison population in Qld in 2002, when Indigenous women made up 29% of the female prison population in that state. (Indigenous people made up 3.5% of the Qld population in 2002). The survey found that 57% of all the participants reported having been diagnosed at some time with a mental illness, 39% had suffered from depression, and 69% had scores on the Beck Depression Inventory that were consistent with mild to severe depression. Participants reported high levels of substance use, more than one-half had a history of injecting drug use, 38% had been drinking at harmful levels prior to being imprisoned, and 83% were tobacco smokers. Harmful levels of drinking were most prevalent among Indigenous women incarcerated in the north of the state (71%). Harmful levels of drinking were much less prevalent among non-Indigenous women in northern prisons (12%) and among both Indigenous (33%) and non-Indigenous (14%) women in southern prisons. Cannabis was the most common illicit drug used in the year prior to incarceration (36%), followed by amphetamines (35%) and opiates (33%). Of the 43% who tested positive for HCV, 92% were or had been injecting drug users.

Qld women prisoners reported high levels of behaviours which put their health at risk [93]. Poor nutrition, little exercise, high levels of being overweight or obese, high rates of smoking and harmful levels of alcohol consumption put them at increased risk of chronic and acute diseases. Many women (43%) reported having been coerced into sexual activities before the age of 16 years, and 38% had been physically or emotionally abused before that age. Other risk factors reported were needle sharing, unprotected sex and unplanned pregnancies.

It is important to consider the short duration of imprisonment and high rates of repeat offences for the majority of women incarcerated in Qld. The health status of these women is not merely a reflection of the health care they receive in prison, but is a continuing manifestation of their on-going health status both within the community and in prison [93 p.iii].

A study on anger and differences among prisoners was conducted with male and female inmates of seven prisons in SA and WA [94]. Fifty women and 121 men participated; 30% of the women and 29% of the men were Indigenous. A demographic questionnaire and two measures were used - the State Trait Anger Expression Inventory (STAXI) and the Novaco Anger Scale (NAS). The former assesses state or intensity of anger (how they feel right now), trait anger (how they generally feel), and reactions when angered (expression of anger). The NAS measures cognitive, physiological and behavioural anger (including deficits in anger-regulation), and individual anger patterns.

The results indicated a significant difference between women and men in both the way they experience and express anger [94]. On the NAS, women scored higher than men on anger arousal, cognitions and behaviours, and a significant difference was found with respect to triggers. Women prisoners’ scores were higher than men prisoners’ on the ‘unfair treatment’ sub-scale, and they tended to be angrier in nature than the male prisoners. The authors believe this is possibly due to their having had traumatic experiences which ‘created a sense of inequality … Such resentment toward unfairness and injustice may be understandable in light of the social disadvantages’ the majority of female prisoners have experienced (94 p.1095). The implication of this research for correctional service providers is that interventions which have been developed for male prisoners will not necessarily be appropriate for women offenders. Their needs in the area of anger expression (including self-harm) will not be the same as those of male prisoners, and so gender-specific interventions and management strategies need to be developed and implemented to effectively address this area of need of women in Australian prisons.

**Juvenile offenders**

The overrepresentation in the criminal justice system of Indigenous youth is even more pronounced than of Indigenous adults. Only about 5% of young Australians are Indigenous, but 54% of young people in juvenile detention are Indigenous [14]. During 2007-08, WA had the highest Indigenous youth detention rate in Australia at 880 per 100,000 persons aged 10-17 years, followed by NSW at 585 per 100,000 and SA at 442 per 100,000 [8]*. In NSW data from 2004 indicated that Indigenous young people are more likely than their non-Indigenous peers to be taken to court (64% compared with 48%), and less likely to receive a caution from police (14% compared with 28%) [95]. An examination of the 2006-2007 data from all Australian jurisdictions found that a disproportionally high number of Indigenous young people came into contact with the police, and that Indigenous juveniles were less likely to be dealt with using diversionary measures rather than proceeding to court than their non-Indigenous peers [96].

On an average day in 2007-08, 40% of juveniles under supervision (that is, on a community supervision order or the like) were Indigenous, as were over one-half of those in detention and 60% of those who were in remand yet to be sentenced [97]. In the same year, Indigenous juveniles were 29 times more likely than non-Indigenous juveniles to be detained, and 15 times more likely to be under community-based supervision.

Indigenous offenders are more likely than their non-Indigenous

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4 Jurisdictional comparisons must be treated with caution, as some states and territories have very low Indigenous populations where small number effects can introduce extreme statistical variations. For this reason the ACT was not reported.
peers to begin regularly offending at younger ages, to commit a property or violent offence at an earlier age, and are therefore significantly more likely to have a history of juvenile detention and incarceration as an adult [50]. It is for these reasons that NIDAC recently recommended that amendments be made to the current eligibility criteria of jurisdictional diversion programs so as to provide:

A greater incentive for the justice system and Indigenous people to participate by accepting Indigenous people (including those who have received advice to plead not guilty to avert a criminal record) into diversion programs [39 p.11].

There is some evidence that, due to compounding factors of social disadvantage, there is a higher prevalence of cognitive disability among Indigenous youth than among non-Indigenous youth [98]. Cognitive disability is often cited as a factor in offending behaviour, so this disparity has been highlighted as a primary reason for addressing young Indigenous offenders through diversionary measures.

A cross-sectional survey of young offenders’ physical and mental health in NSW juvenile detention centres was conducted in 2003 using interviews conducted by health professionals [99]. Nineteen female and 223 male young offenders participated. Overall 40% identified as Indigenous, with 63% of the female participants doing so. None tested positive for HIV, 9% tested positive for HCV and 11% for hepatitis B. The indicators of social disadvantage were pronounced among these young offenders, with 28% having been placed in care, and 43% having experienced parental incarceration. The Indigenous adolescents who participated in this survey were three times more likely than their non-Indigenous peers to have had a parent in prison. The authors concluded that the contact these marginalised groups of young people have with the criminal justice system should be seen as an opportunity to screen and treat them while in detention, and to encourage them to access health services when they return to their communities.

Another study of 179 male Indigenous adolescents and 530 male non-Indigenous adolescents in custody or serving community orders in NSW between 2002 and 2005 also reported high levels of HCV [68]. Indigenous adolescents had significantly higher levels of hepatitis B did than non-Indigenous adolescents. Indigenous adolescents were also more than twice as likely as non-Indigenous adolescents to have had a parent ever be incarcerated and over 1.5 times as likely to have ever been placed in care.

These findings are similar to those of an analysis of cultural group differences in social disadvantage and psychopathology in incarcerated juvenile offenders in NSW using data from the 2002 Young people in custody health survey [100]. The analysis compared three groups of juveniles, 102 Indigenous, 40 from culturally and linguistically diverse backgrounds and 102 non-Indigenous from an English-speaking background. Indigenous juveniles significantly differed from other juveniles in social disadvantage only on measures of parents’ marital status and history of parental imprisonment. Levels of substance use were similarly high for Indigenous juveniles and non-Indigenous juveniles from an English-speaking background, and significantly higher than those for juveniles from culturally and linguistically diverse background. In terms of psychopathology, Indigenous juveniles had significantly higher scores than non-Indigenous juveniles from English-speaking or culturally diverse backgrounds on culturally appropriate scales assessing conduct disorder and substance use.

Incarcerated juvenile offenders have been found to have a similar mental health burden to adult incarcerated offenders. A study comparing 159, 13-17 year olds remanded in SA, with the 1,283 13-17 year olds who participated in the child and adolescent component of Mental health and well-being in Australia survey, and the 1,100, 13-17 year olds who participated in the Western Australian Aboriginal child health survey, found adolescents on remand had significantly worse health-related quality of life on several measures than adolescents in the community, even after adjusting for differences in the demographics of the groups [101]. Troublingly 19.1% of adolescents on remand reported making a suicide attempt during the previous 12 months compared with 4.3% of adolescents in the community. This study further highlighted the disparity in the social determinants of health experienced by adolescent offenders, with those on remand more likely to have greater family adversity and poorer school attendance than those in the community. Similarly in a study of 402 adolescent (212 Indigenous and 190 non-Indigenous) admitted into detention in Qld 82% of Indigenous and 75% of non-Indigenous adolescents scored above the clinical cut-off for at least one scale of the Massachusetts Youth Screening Instrument Version 2 [102].

Post-release

International and Australian research has consistently found the immediate post-release period to be a time of vulnerability to recidivism, suicide and overdose. A systematic review of the evidence in North America of ‘what works’ in facilitating the re-entry of prisoners into the community after release concluded that the most effective programs are those which include vocational training and work release programs, halfway houses, and drug treatment programs (intensive plus aftercare) [103]. Numerous studies carried out since 1990 in the United States and Canada also demonstrated the link between good education programs in prisons and lower rates of recidivism [104]. Effective counselling programs are those that take place ‘mostly in the community rather than in institutional settings, that are intensive (at least six months
long); focus on high-risk offenders, use cognitive behavioural
treatment, and match therapists and programs to the specific
learning styles and characteristics of individual offenders [103 p.6].
In a best-practice intervention:

Positive reinforcers would outweigh negative reinforcers in all
program components. Every program begun in jail would have
an intensive and mandatory aftercare component [103 p.6-7].

In a study on the effect of housing on social reintegration in NSW
and Vic, prisoners were interviewed prior to release, and then
three, six and nine months after release [105]. Participants (194
in NSW, 145 in Vic) were asked questions about their housing and
social experiences, why they thought things had gone as they
had, and asked to comment on any other aspect of their post-
release situation. Seventy percent of participants were retained
to completion of the study and 50% had moved two or more
times between post-release interviews. Being highly transient
was found, using logistic regression, to be a predictor of return
to prison. Increasing problematic use of heroin post-release was
also found to be a predictor of return to prison [105 p.1]. There was
a significant association between staying out of prison and not
moving at all, or only once in the three months between interviews,
and living with a partner, parents, or close family. Many participants
made comments about not meeting the criteria of housing
agencies and not being able to find accommodation they could
afford without assistance. Commenting on the policy implications
of their findings, the authors suggest that every prisoner needs ‘a
trained case-worker for housing, personal and advocacy support
prior to and post-release,’ and that a multi-agency team approach
is required [105 p.iii].

Another review of the literature on best practice for strategies
to prevent re-offending similarly found that programs need to
be sufficiently intense if they are to have a positive impact on
offending rates: ‘Canadian researchers recommend that programs
should be at least 100 hours and take place over a minimum of 3-4
months’ [106 p.20]. They also argue that prison-based programs
should be integrated with community services, particular in the
immediate post-release period. The review cited a New Zealand
study [107], which found that recidivists reported experiencing
more difficulties and poorer skills for dealing with these difficulties.
They also had poorer strategies for managing anger, anxiety and
depression than those who had not re-offended.

It was estimated that among all people released from prison in
Australia between 2007 and 2008, over 450 died within 12 months
and between 68 and 138 died within 4 weeks of release [108]. A
study investigated the overall and cause specific mortality of a
cohort of all Indigenous men (N=7,980) and women (N=1,373)
aged 18 years and older who had been imprisoned fulltime in NSW
between 1988 and 2002. During a median follow-up period of 8.3
years, 485 men and 73 women died, representing an mortality
rate of 733 and 755 deaths per 100,000 person-years. The risk of
death in men was 4.8 times and among women 12.6 times that
of the general NSW community. The leading cause of death was
cardiovascular disease in men (23%) and mental and behavioural
disorders (23%) in women. The risk of death was found to be
greatest following release from prison [109]. A study of the risk of
death after release from prison in Wa found Indigenous prisoners
have a significantly lower survival rate than did non-Indigenous
releasees [110]. The cohort included all prisoners released between
January 1994 and December 1999, numbering 9,381 individuals,
of whom 326 had died since being released. Indigenous women
prisoners aged 20-40 years were 3.4 times more likely to die
than other WA Indigenous women in the same age group, and
Indigenous male prisoners (20-40 years) were 2.9 times more likely
to die than other WA Indigenous men in the same age group.
Non-Indigenous women in the same age range released from prison
were 115.9 times more likely to die than their non-Indigenous
women counterparts in WA due to alcohol and other drug-related
causes. The main causes of death overall were related to drug and/
or alcohol use. Among Indigenous men aged 20-40 years, there
was an elevated risk of death by suicide or motor vehicle accident
compared with non-Indigenous men. The authors suggested that
addressing this situation will require coordinated programs, both
pre- and post-release from prison.

In a study reviewing the Australian National Coronial Information
System, 388 ex-prisoner records with ICD-10 ‘cause of death’ codes
were found and examined [111]. Forty five per cent of these
were coded as accidental drug-related deaths (36% ‘accidental
drug overdose’ and 9% ‘mental and behavioural disorders due to
psychoactive substance use’). Opioids, particularly heroin and/
or morphine, were identified in 82% of cases and 72% involved
a combination of alcohol and/or other drugs. Of the deaths not
classified as accidental drug-related, 30% were coded as suicide;
12% injury due to external causes; 9% chronic/infectious disease;
2% poisoning; 2% unknown causes. Statistical analysis revealed
that accidental drug-related causes on average were found among
younger prisoners who were less likely to be Indigenous, born in
Australia, married, or living alone at or around the time of death,
compared with those who died from all other reportable causes.
The authors state that these findings highlight the need to consider
drug overdose within the wider context of ex-prisoner experiences
so that preventative programmes can be appropriately structured
and targeted.

The key theme that emerged from a study on mortality and
morbidity in prisoners after release in WA between 1995 and 2003
was the inter-relationship between social disadvantage, mental

http://www.healthinfonet.ecu.edu.au/offender_health_review
health problems and the poor physical health of many prisoners [112]. It was found that women prisoners were at higher risk of mental disorders than male prisoners, and that Indigenous prisoners often had multiple, long-standing health issues, including those linked to alcohol and drug use. The authors argued there is a need to resource multiple and specific services in and out of the prison system to address these health problems. In order to do so, there needs to be closer cooperation between mental health and prison health services to ensure continuity of treatment of prisoners after their release, and effective discharge planning to ensure community linkage and continuity of care, especially for prisoners with multiple problems [110].

A study in Qld explored the health experiences post-release of 160 prisoners (108 male, 52 female) by conducting interviews prior to release, and again on two occasions after their release [113]. Within five weeks of release 37% of the women, and 64% of the male participants reported having used illicit drugs, in particular cannabis and amphetamines. They also reported significant levels of risky alcohol consumption. Mental health was assessed using the Kessler Psychological Distress Scale: prior to being released, approximately 50% had moderate or high scores. A higher proportion of males had high or very high levels of distress when first interviewed post-release, but distress levels declined for both men and women by the time of the second follow-up interview. A decline in physical health after leaving prison was reported by both men and women, but the decline was not statistically significant. The author pointed out that there are pre-release programs in prisons to assist people making the transition back into the community, and in some jurisdictions post-release support services exist, but ‘the few programs for ex-prisoners in Australia are fragmented, often under-funded and usually based on limited evidence’ [113 p.5].

The concept of ‘throughcare’ - a model where interventions begin while an offender is in custody, and continue after their release - has been widely accepted as the best approach to reducing recidivism in Europe, North America and Australia [114]. Implementation of the throughcare model in prisons and service agencies around Australia was assessed in 2005 by the Australian Government Office of the Attorney General. It was found that a variety of interventions were being implemented, and that ‘a throughcare ethos dominates in terms of the stated policy of Australian adult correctional authorities, although this is not necessarily the manner in which all programs are delivered’ [114 p.111]. Despite this, there was still strong evidence that at least ‘a lynchpin of throughcare delivery - collaborative partnerships between government and non-government providers - is employed’ [114 p.111].

Concluding comments

Almost two decades have passed since the RCIADC first highlighted the overrepresentation of Indigenous people at all levels of the criminal justice system. However, the rate of Indigenous imprisonment has increased and the proportion of Indigenous deaths in custody has remained unchanged in these two decades. In fact, the situation in some aspects appears to be worsening. For example, the number of Indigenous juveniles in detention in Australia increased by 65% between 2001 and 2007; the number of non-Indigenous juveniles in detention increased by only 1.3% in the same period [115]. It is clear from the evidence presented in this review that Indigenous offenders represent a growing marginalised population within the wider community.

The offender population is characterised by poor health outcomes across nearly all health indicators. Offenders have been shown to have higher rates of chronic disease, mental illness, communicable diseases, and substance use than those in the community [2, 55]. Within the prison population, Indigenous offenders are at a further disadvantage, entering prison with poorer health than non-Indigenous offenders, and leaving prison to face poorer health outcomes and life expectancies than their non-Indigenous counterparts [112]. This is shaped by the wider socio-economic context, with those exposed to the criminal justice system typically poorly educated, unemployed, socially isolated, and financially dependent [2]. Indigenous offenders are at a substantial disadvantage compared with their non-Indigenous counterparts across all these areas.

Contact with the criminal justice system presents an opportunity to identify and treat the physical and mental health problems of a population that is predominantly economically disadvantaged and socially marginalised. But, prison health services still largely operate without a rehabilitative focus, with the rehabilitation that is offered often under-funded and poorly designed [116]. Further, the health services offered often fail to account for the specific needs of Indigenous offenders, despite the large proportion of Indigenous offenders within the criminal justice system. There are, however, some good signposts on how to proceed in updating the prison health services. The development of national prison health indicators provides an increasing evidence base on which to base interventions, while the Inspection standards for Aboriginal Prisoners, for example, outline exemplarily how custodial facilities should be adapted to meet the specific needs of Indigenous offenders. These standards acknowledge the holistic nature of the Indigenous concept of health and provide practical recommendations on how correctional facilities can recognise this, for example recommendation A7 which states that culturally appropriate criteria for leave to attend family funerals should be
established and implemented for Aboriginal prisoners’ [116 p.10].

There is a clear need to embrace more diversionary measures when dealing with Indigenous offenders, a fact which is entrenched in the RCIADC’s finding that prison should always be a last resort [117]. A new approach to dealing with high rates of offending in some Indigenous communities has been advocated by the Aboriginal and Torres Strait Islander Social Justice Commissioner of the Australian Human Rights Commission [118]. ‘Justice reinvestment’ is an approach to reducing rates of incarceration (and the enormous associated financial costs). Here, a political decision not to build new prisons is taken, so that a portion of those funds projected to be spent on building new prisons is diverted to local communities that have a high concentration of offenders, to be spent on programs and services that address the underlying causes of crime.

Despite reported success in the United States [119] what is missing in Australia is evidence to support a Justice Reinvestment approach beyond the appealing rhetoric. However, there are efforts emerging to address this paucity. Following two national forums, co-hosted by the National Centre for Indigenous Studies (NCIS) and the Indigenous Offender Health Research Capacity Building Group (IOHR-CBG), examining the feasibility of Justice Reinvestment in Australia, a three year Justice Reinvestment research project based at NCIS commenced. Using a case study approach, the research is exploring the conditions, governance and cultural appropriateness of reinvesting resources otherwise spent on incarceration, into services to enhance juvenile offenders’ ability to remain in their community [120, 121]. Also, the Australian Justice Reinvestment Project based at the University of NSW examines Justice Reinvestment models from overseas in order to provide a sound theoretical and practical foundation for the future development of Justice Reinvestment strategies in Australia. The investigators claim that the project will be of significance for both scholars and policy makers [122].

Diversion for young offenders into programs that help build their knowledge, skills and resilience, address any AoD and mental health issues, and prevent them entering a cycle of recidivism, is likely to be crucial to reducing the hugely disproportionate Indigenous incarceration rate in Australia.

The importance of Closing the gap

At the beginning of this review, the holistic nature of the Indigenous concept of health was explained. The solutions to bettering the health and other outcomes of Indigenous offenders must also be viewed holistically. Indigenous offenders are part of an Indigenous population that has vastly lower health outcomes and life expectancies than the wider Australian community. This vast gap was highlighted in the Social Justice Report 2005, which called on Australian governments to commit to achieving Indigenous health equality within 25 years [123]. In 2006, the National Indigenous Health Equality Campaign (which used ‘close the gap’ for its public awareness campaign) was organised by the National Aboriginal Community Controlled Health Organisation (NACCHO), Australians for Native Title and Reconciliation (ANTAR) and Oxfam Australia, among others. The campaign mobilised citizens and communities and united the voices of over 40 organisations to urge all Australian governments to commit to closing the life expectancy gap between Indigenous and other Australians within a generation.

In 2007, Australian governments, through the Council of Australian Governments (COAG) committed to ‘closing the gaps’ in disadvantage between Indigenous and other Australians [124]. COAG agreed on a number of specific targets for reducing Indigenous disadvantage in the areas of education, early childhood development, health and employment. The targets are to:

- halve the gap in employment outcomes between Indigenous and non-Indigenous Australians within a decade [125].

For these targets to be monitored and met, COAG identified a number of building blocks that need to be addressed: early childhood, schooling, health, economic participation, healthy homes, safe communities and governance and leadership [124].

COAG initially committed $4.6 billion over four years across early childhood development, health, housing, economic participation and remote service delivery, and has also achieved a number of supportive commitments by the corporate and community sectors [125]. Of these funds, $1.57 billion was allocated to the National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes (Indigenous Health NPA) to implement a program for achieving health equality. Agreement was also reached on the establishment of a new national Indigenous representative body, which would lead to the formation of the National Congress of Australia’s First Peoples (Congress) in 2010.

The 2007 COAG commitment was the first time that such high level of commitments had been made by the Australian, state and territory governments and others, and raised the prospects...
of real improvements in the health of Indigenous people, including Indigenous offenders. However, missing among these commitments were specific commitments to reducing Indigenous disadvantage through eradicating the overrepresentation of Indigenous people at all levels of the criminal justice system. In 2013 the completion and implementation of a National Aboriginal and Torres Strait Islander Health Plan (Health Plan) and renewal of Indigenous Health NPA will occur. According to the Close the Gap Campaign Steering Committee, these are two critical developments that are likely to determine whether Aboriginal and Torres Strait Islander health equality is achieved by 2030. In their 2013-14 pre-Federal Budget submission, ANTaR recommended that priority funding go towards a National Partnership Agreement (NPA) dedicated to the Safe Communities building block for inclusion in the Closing the Gap strategy. Currently this building block is the only Closing the Gap building block without a NPA. This recommendation is echoed by the Congress through their National Justice Policy, which also includes a recommendation for government commitment to justice targets attached the Safe Communities building block:

The Commonwealth Government and State and Territory Governments commit to Justice Targets as part of the Closing the Gap strategy, funded by a Safe Communities National Partnership Agreement. This commitment should be incorporated into the National Indigenous Reform Agreement and supported by significant improvements to data collection regarding Aboriginal and Torres Strait Islander people within the justice system [126 p.4].

Reforms undertaken and underway in the criminal justice system also need to be thoroughly implemented, monitored and evaluated, and further work needs to be undertaken to address the burdens that corrective health services currently face across Australia.

The gaps between Indigenous and other Australians will only be closed when all aspects of Indigenous disadvantage are addressed, and this includes tackling the specific health issues of Indigenous offenders.

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AUSTRALIAN INDIGENOUS HEALTH REVIEWS NO.12

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The Australian Indigenous HealthInfoNet is an innovative Internet resource that contributes to ‘closing the gap’ in health between Indigenous and other Australians by informing practice and policy in Indigenous health.

Two concepts underpin the HealthInfoNet’s work. The first is evidence-informed decision-making, whereby practitioners and policy-makers have access to the best available research and other information. This concept is linked with that of translational research (TR), which involves making research and other information available in a form that has immediate, practical utility. Implementation of these two concepts involves synthesis, exchange and ethical application of knowledge through ongoing interaction with key stakeholders.

The HealthInfoNet’s work in TR at a population-health level, in which it is at the forefront internationally, addresses the knowledge needs of a wide range of potential users, including policy-makers, health service providers, program managers, clinicians, Indigenous health workers, and other health professionals. The HealthInfoNet also provides easy-to-read and summarised material for students and the general community.

The HealthInfoNet encourages and supports information-sharing among practitioners, policy-makers and others working to improve Indigenous health – its free online yarning places enable people across the country to share information, knowledge and experience. The HealthInfoNet is funded mainly by the Australian Department of Health and Ageing. Its award-winning web resource (www.healthinfonet.ecu.edu.au) is free and available to everyone.