NSW Young People on Community Orders Health Survey 2003-2006

Key Findings Report

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ABBREVIATIONS

| USYD | The University of Sydney |
|----------------|---|
| DJJ | NSW Department of Juvenile Justice |
| JH (CHS) | Justice Health NSW (formerly Corrections Health Service) |
| YPiCHS | Young People in Custody Health Survey |
| YPoCOHS | Young People on Community Orders Health Survey |
| 'young people' | Those young people on community orders who participated in the health survey |
| ESB | English speaking background |
| CALD | Culturally and linguistically diverse |
| FSIQ | Full scale intelligent quotient |
| PIQ | Performance IQ |
| VIQ | Verbal IQ |
| BBV | Blood borne viruses |
| STI | Sexually transmissible infection |

FOREWORD

The Department of Juvenile Justice and NSW Health - Justice Health Division have responsibilities for the health and welfare of young offenders. A key responsibility of the NSW Department of Juvenile Justice is to offer constructive interventions in the lives of young offenders to help them choose positive alternatives to offending behaviour. These interventions may occur while young people are detained in custody, during youth justice conferences, or during periods of supervision conducted by the Department for young people serving community orders. To do this work it is essential to understand the characteristics and health needs of this group.

In 2003, a collaborative team comprising the NSW Department of Juvenile Justice, NSW Health - Justice Health Division, and the University of Sydney undertook an extensive health survey of young people in custody, which found that this group had significant physical and mental health needs. Since the majority of young offenders are placed on community orders rather than in custody, the need to examine the health and wellbeing of the young people on community orders was identified.

The University of Sydney and the two government departments formed another partnership and were successful in receiving an Australian Research Council Linkage Grant; to conduct the first comprehensive survey of the physical and mental health of young people serving community orders.

This report presents the key findings of this groundbreaking study. They provide compelling evidence that young people on community orders have wide-ranging health and welfare needs. Across a range of health indicators, there were significant commonalities between young offenders in custody and those serving community orders. Both groups experienced severely disadvantaged backgrounds characterised by poor physical and mental health, limited educational attainment, disrupted and dysfunctional families, abuse of alcohol and other drugs, risky sex and other risk-taking behaviours. Young offenders on community orders also experienced higher levels of infectious diseases, physical ailments, and poorer mental health than the wider adolescent population.

This collaborative project exemplifies the way in which university and industry partners can work together to investigate complex social issues, providing a strong evidence base for future policy and service developments to improve health and social outcomes for this group.

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EXECUTIVE SUMMARY

Young people serving community orders with the NSW Department of Juvenile Justice are a vulnerable and disadvantaged group of young people, as indicated by their disadvantaged social and family background, low intellectual functioning and poor educational achievement, high frequency of physical and mental health problems and engagement in risk behaviours. On most of the factors assessed, they did not differ substantially from young people in custody.

Social and Family Background

- 27% young people had one or more parents who had been imprisoned, and 5% had a parent who was currently incarcerated.
- 64% young people were living in the family home; 11% were in unsettled accommodation.
- 6% young people were parents of one or more children.
- Young people minimised and denied experiences of abuse and neglect; nevertheless, 31% reported low, moderate or severe levels of physical abuse, 46% emotional abuse; 14% sexual abuse, 50% emotional neglect; and 37% physical neglect.

Intellectual Functioning and Educational Achievement

- The mean WASI Full Scale IQ score (IQ=83) was in the low average range (80-89).
- 12% had culture-fair IQ scores (using FSIQ for ESB and PIQ scores only for CALD and Aboriginal and Torres Strait Islander young people) consistent with a possible intellectual disability.
- 15% had WASI Full-Scale IQ scores consistent with a possible intellectual disability.
- 11% met both IQ and adaptive behaviour deficits consistent with DSM-IV criteria for (possible) intellectual disability (8% based on a culture fair assessment).
- 56% had left school before commencing Year 10; 60% had not attended school regularly (skipped school more than twice per week), and 89% had been suspended from school.
- 62% could read at a low average level or better; 62% could spell at a low average level or better. The reading skills of 21% and arithmetic skills of 64% were equivalent to

those expected of people with intellectual disabilities.

Physical Health

- Most males (78%) and females (79%) rated their health as 'good', 'very good' or 'excellent'.
- Asthma had been diagnosed in 33% males and 35% females.
- Ear infections had been diagnosed in 26% males and 40% females.
- Sleeping problems (39%) and energy loss or fatigue (39%) were the most common recent symptomatic complaints.
- 5% males and 11% females tested positive for Chlamydia.
- 23% males and 25% females either never used condoms or used them less than half of the time when they had penetrative sex with casual partners.
- 3% males and 12% females were hepatitis C antibody positive.
- 7% males and 17% females and had injected drugs in the twelve months prior to completing the survey.
- 81% were smokers; 25% smoked more than 20 cigarettes a day.
- 89% had used cannabis; 47% used cannabis at least weekly.
- Most (91%) had been drunk; 31% engaged in binge drinking at least weekly (>6 standard drinks for males and >4 standard drinks for females).

Mental Health

- 40% reported severe symptoms on the Adolescent Psychopathology Scale consistent with a clinical disorder.
- Conduct Disorder (19%) and Substance Abuse Disorder (26%) were the two most prevalent disorders.
- 25% had 'high' or 'very high' distress scores on the Kessler Psychological Distress Scale, suggestive of a depressive or anxietyrelated disorder.
- 15% males and 28% females had intentionally hurt or injured themselves.
- 14% males and 32% females had considered attempting suicide.
- 8% males and 18% females had attempted suicide.

Young people on community orders were characterised by their disadvantaged backgrounds, low intellectual functioning and poor educational achievement, high frequency of physical and mental health problems and engagement in risk behaviours.

BACKGROUND

During the transition from adolescence to young adulthood, some young people will have an encounter with the criminal justice system. A number will also be affected as a victim. Risk factors for involvement in juvenile crime include family factors, intellectual functioning and school performance, truancy, influence of delinquent peers, poverty, unemployment and substance misuse¹. Young perpetrators of crime are commonly already suffering from, or are at risk from poor health outcomes as a result of their offending².

Studies on the physical health of young offenders indicate an early engagement in health risk behaviours affecting physical and mental health, particularly among females. There is also a high prevalence of trauma, suicide attempts and self-harm. A recent study conducted in Victoria found that the standardised mortality rate was 9.4 for young male offenders and 41 for young female offenders. Young offender deaths accounted for 12% of all drug-related deaths in Victoria³. To date, most of the studies on adolescent offenders' health have been conducted in the USA. However, Australian data on which policy and practice can be based is now available.

In 2002, a population survey of 242 young offenders in custody was undertaken by the NSW Department of Juvenile Justice (DJJ), Justice Health NSW and The University of Sydney⁴. This study provided valuable information on the physical and mental health needs, intellectual functioning and educational achievements of incarcerated young people that subsequently resulted in an improvement in service delivery targeted to areas of greatest need. Recent policies within government and DJJ have emphasised the need to divert young offenders from custody. Placement on community orders is one of the major diversionary strategies employed. A community order is a courtdirected supervision by DJJ of young offenders placed on good behaviour bonds, probation, community service or parole orders.

Although young offenders serving community orders comprise approximately 80% of the clientele of the NSW DJJ, no comprehensive profiling of the physical and mental health needs of this group had been undertaken in Australia. Accordingly, this study satisfies an important need to those government departments responsible for the care and rehabilitation of this group of young offenders.

As part of its ongoing efforts to provide appropriately targeted services to young offenders on community orders in NSW, The University of Sydney, NSW Department of Juvenile Justice and Justice Health NSW collaborated on an Australia Research Council (ARC) Linkage Grant:

BREAKING THE JUVENILE CRIME CYCLE: REHABILITATING HIGH-RISK JUVENILE OFFENDERS (Project LP0347017)

to conduct a comprehensive study of young people serving community orders with the NSW Department of Juvenile Justice.

This report, Young People on Community Orders Health Survey (YPoCOHS), presents the findings, together with comparative data from the Young People in Custody Health Survey (YPiCHS), and where possible, community based comparisons. It examines the physical and mental health needs of young people on community orders using a broad definition of health, including social and demographic factors, physical and mental health, risk behaviours, and intellectual and educational achievement. Specifically, this report:

- Identifies physical health status and needs, including blood-borne viruses and sexually transmissible infections
- Identifies mental health status and needs, including intellectual disability and psychological disorders
- Identifies risk behaviours
- Explores health service utilisation and needs, and
- Informs policy development and service provision.

METHOD

Participants

All young people on supervised community orders in NSW between October 2003 and December 2005 were eligible for inclusion in the survey. Parental consent was obtained for participants under the age of 14 years (n=61).

Measures

Demographic and criminogenic characteristics, educational background, employment history, living arrangements, parental characteristics, and family history were recorded.

A **health questionnaire** was developed to collect information on self-reported health status, disability, recent symptoms, medication, injury, and health service use. The questionnaire was modelled on the Young People in Custody Health Survey (YPiCHS) to allow direct comparisons between custody and community based offenders. Information was also collected on:

Health behaviours, including health education, physical activity, sun protection, nutrition and health service utilisation (including treatment for alcohol and substance abuse); and risk behaviours, including drug and alcohol use, sexual health, smoking, gambling, tattooing and body piercing.

A **standardised physical assessment** was conducted. Blood pressure, body mass index and visual acuity were measured. Serology specimens were collected to test for: HIV, hepatitis A, hepatitis B, hepatitis C, , herpes simplex virus type-2, syphilis, cholesterol, liver function tests and creatinine (not reported). Urine specimens were collected to test for Chlamydia and gonorrhoea.

Standardised psychological tests assessed cognitive functioning (Wechsler Abbreviated Scale of Intelligence)⁵, validity of cognitive test administration (Guide to Assessment of Test Session Behaviour)⁶, educational achievement (Wechsler Individual Achievement Test II-Abbreviated)⁷, psychopathology (Adolescent Psychopathology Scale–Short Form)⁸, childhood trauma (Childhood Trauma Questionnaire)⁹, and psychological distress (Kessler Psychological Distress Scale)¹⁰.

Further details regarding the measures used in this survey are contained in the Appendix.

Interviewers

Registered nurses from Justice Health NSW conducted the health interviews and assessments after undergoing training in the test protocol.

Registered psychologists and final year students from the Forensic Psychology Masters program (University of New South Wales and University of Western Sydney) conducted the psychological assessments under supervision from the team's clinical and forensic psychologist (Dr Chris Lennings).

Reporting of results

Data from (YPiCHS)¹ for the young people in custody are presented, where appropriate, alongside the results for community based participants. Some questions in the YPiCHS related to young people's experiences before entering custody and others while in custody and are indicated in the text as follows: [YPiCHS: before custody] and [YPiCHS: in custody]. While the females in custody sample represented almost all young women in detention at the time of the survey, the total number was only 19. Comparisons between in custody and community females must be made with caution.

Percentages in tables are given to the nearest whole number. Due to rounding artefacts, columns and rows in some tables may not sum exactly to 100. Percentage calculations in the tables are based on complete data sets for the factor reported. These numbers are indicated below each table.

Reliable comparisons between custody and community samples could not be made for some factors (eg substance use) because of the controlled environment in custody (as indicated by the text [YPiCHS: controlled environment]), insufficient numbers (indicated by [YPiCHS: low N]), or because parallel data were not recorded (n/r).

Where appropriate, comparisons with population-based surveys conducted in the community are included.

Ethics

Ethics approval was independently granted by: University of Sydney Human Research Ethics Committee, Research Applications Subcommittee of DJJ Collaborative Research Unit, Justice Health Human Research & Ethics Committee (formerly Corrections Health), and the Aboriginal Health and Medical Research Council. Written consent was required as a condition of participation. Parental consent was required for participants under the age of 14 years.

RESULTS

Sample

Approximately 1,900 young people were eligible for inclusion in the survey. Of this group, 400 refused to participate. 600 were uncontactable or failed to respond despite repeated efforts to contact them. 100 (90 males and 10 females) were excluded because of: serious mental health problems, substance withdrawal, considered to be too violent or disruptive by DJJ staff, and court appearances or being admitted to custody on the day of the survey. These exclusions may have resulted in an underestimation of the prevalence of certain conditions, particularly mental health indicators, substance abuse, offence profile and violence characteristics.

The sample comprised 802 young people, 683 (85%) males and 119 (15%) females. These proportions are comparable to the total population on community orders during the study period. The mean age of the sample was 16 years 6 months (range: 12 to 21 years), 16 years 7 months (range: 12 to 21 years) for males and 16 years 2 months (range: 13 to 20 years) for females (Figure 1).



The sample included 153 (20%) [YPiCHS 40%] young Aboriginal and Torres Strait Islander people who were under represented in our sample. They comprised 34% of young offenders in the total population of young offenders on community orders during the study period. The other major ethnic groups are presented in Table 1.

| Table 1: Region of Birth (%) | | | | | | | | | | |
|------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|--|--|--|
| | | | | | | | | | | |
| Region of birth | Male | s | Femal | es | Total | | | | | |
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | | | | |
| Australia | 83 | 84 | 85 | 95 | 84 | 85 | | | | |
| Other Oceania | 8 | 7 | 13 | 0 | 9 | 6 | | | | |
| Europe | <1 | 1 | 0 | 0 | <1 | 1 | | | | |
| Middle East | 2 | 2 | 0 | 0 | 2 | 2 | | | | |
| Asia | 4 | 5 | 3 | 5 | 3 | 5 | | | | |
| Americas | <1 | 1 | 0 | 0 | <1 | 1 | | | | |
| Africa | <1 | <1 | 0 | 0 | <1 | <1 | | | | |

a Males = 673; Females = 118; Total = 801 b Males = 223; Females = 19; Total = 242 The sample comprised 802 young people (683 males and 119 females). The sample included 153 young Aboriginal and Torres Strait Islander people.

Mean age was 16.5 years. The most serious current offence for young people at the time of interview is presented in Table 2.

| Most serious offence | Males | | Females | | Total | |
|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Other assault | 25 | 17 | 49 | 16 | 28 | 17 |
| Robbery | 23 | 27 | 14 | 32 | 22 | 28 |
| Aggravated assault | 15 | 7 | 13 | 0 | 15 | 6 |
| Other | 14 | 6 | 7 | 16 | 13 | 7 |
| Car and other theft | 10 | 9 | 15 | 26 | 11 | 10 |
| Break and enter | 10 | 22 | 3 | 5 | 9 | 21 |
| Sexual assault | 2 | 7 | 0 | 0 | 1 | 7 |
| Homicide | <1 | 5 | 0 | 5 | <1 | 5 |

Table 2: Offence category (%)

a Males = 595; Females = 102; Total = 697 b Males = 223; Females = 19; Total = 242

14% (102) young people [YPiCHS 65%] estimated that they had spent six months or more in custody during their lifetime (Table 3).

Table 3: Self-reported total time spent in custody in lifetime (%)

| Time | Males | | Female | S | Total | | |
|--------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | |
| No time | 10 | 0 | 10 | 0 | 10 | 0 | |
| Less than 6 months | 76 | 35 | 80 | 37 | 77 | 35 | |
| 6 months to 1 year | 8 | 29 | 4 | 32 | 8 | 29 | |
| 1 to 2 years | 3 | 19 | 3 | 32 | 3 | 20 | |
| 2 to 5 years | 3 | 16 | 3 | 0 | 3 | 15 | |
| 5 to 10 years | 0 | 1 | 0 | 0 | 0 | 1 | |

a Males = 660; Females = 116; Total = 776 b Males = 223; Females = 19; Total = 242

62% (475) young people estimated that they had spent six months or more on community orders during their lifetime (Table 4).

Table 4: Self-reported total time spent on community orders in lifetime (%)*

| Time | Males | Females | Total |
|-------------------------|-------|---------|-------|
| Order not yet commenced | 4 | 5 | 4 |
| Less than 6 months | 35 | 31 | 35 |
| 6 months to 1 year | 20 | 33 | 22 |
| 1 to 2 years | 22 | 18 | 22 |
| 2 to 5 years | 18 | 10 | 16 |
| 5 to 10 years | 2 | 3 | 2 |

* Data not recorded for YPiCHS

Males = 655; Females = 116; Total = 771

14% young people estimated that they had spent six months or more in custody during their lifetime. 62% estimated

that they had spent six months or more on community orders during their lifetime.

Social Background

Across several indicators linked to social inequity, many young people on community orders had characteristics indicating highly unstable backgrounds (Table 5). Of particular concern was the proportion of young women not living in the family home and those with a history of care. A significantly higher proportion of those in custody had a parental history of imprisonment and reported that they had no close friends to talk to compared with those in the community.

Table 5: Social indicators (%)

| Indicators | Males | | Females | | Total | |
|---|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Deceased parent | 10 | 10 | 6 | 4 | 10 | 9 |
| History of parental/step-parental imprisonment | 25 | 42 | 38 | 50 | 27 | 43 |
| Parent currently in prison | 4 | 10 | 7 | 22 | 5 | 11 |
| Not living in the family home* | 34 | 35 | 46 | 17 | 36 | 33 |
| History of care | 21 | 28 | 36 | 39 | 24 | 28 |
| Parent of child/children | 5 | 11 | 10 | 6 | 6 | 10 |
| Has no close friends to talk to | 7 | 30 | 9 | 18 | 7 | 29 |
| Lives with person with a physical or mental health problem affecting their daily life | 20 | 19 | 30 | 17 | 21 | 19 |

* [YPiCHS: before custody]

^a Males (range) = 659-673; Females (range) = 114-118; Total (range) = 774-791

^b Males (range) = 198-209; Females (range) = 17-18; Total (range) = 215-227

Across several indicators linked to social inequity, many young people on community orders had characteristics indicating highly unstable backgrounds.

- 27% had parents with a history of imprisonment.
- 24% had a history of having been placed in care.
- 48 young people were parents of one or more children.

PHYSICAL HEALTH

Self-reported health status

The 12-item Short-Form Health Survey (SF-12) was used to examine general physical and mental well-being and role limitations due to physical and mental health problems in the 4 weeks prior to assessment¹¹. Two summary scales, the physical health summary scale (PCS-12) and the mental health summary scale (MCS-12) are derived from the SF-12; low scores indicate poor functioning.

The mean PCS and MCS scores were 53 and 51 [YPiCHS: 54 and 47], indicating similar views of their physical and mental health to those of the US standardisation sample. Females and males had equivalent scores on the PCS: males 53 and females 52 [YPiCHS both males and females 54], and MCS: males 52 and females 48 [YPiCHS males 48 and females 43]. Question one of the SF-12 asks the person to rate their own health on a scale ranging from 'poor' to 'excellent' (Figure 2). Self-rated health status has been found to agree with objective measures of health¹². Most males (78%) [YPiCHS 91%] and females (79%) rated their health as 'good', 'very good' or 'excellent'.

Given the poor health detected objectively in this group, it appears that young people in this survey may have an unrealistic view of their health.

In the National Health Survey (2004-2005)¹³, 82% of young Australians aged 15-17 years rated their health as excellent or very good. A further 13% reported that their health was good. 4% reported their health as either fair or poor.

78% young people rated their health as good, very good or excellent, similar to the general adolescent population.

Community prevalence of Hepatitis B and C was low and there were no reports of HIV, which accorded with the serological screening.



Health conditions

We asked participants to report if they had ever been diagnosed by a health professional with a range of health problems (Table 6). Reported prevalence of Hepatitis A, B and C was low and there were no reports of HIV, which accords with the results of the serological screening (see Table 9 below).

| Health conditions* | Male | s | Females | | Total | |
|-------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Chicken pox | 60 | 55 | 64 | 44 | 61 | 54 |
| Asthma | 33 | 28 | 35 | 56 | 33 | 30 |
| Mental / behavioural problem^ | 34 | 43 | 29 | 35 | 32 | 43 |
| Ear infections | 26 | 28 | 40 | 39 | 28 | 29 |
| Tonsillitis | 23 | 27 | 36 | 39 | 25 | 28 |
| Chest infections | 20 | 15 | 30 | 17 | 22 | 15 |
| Back problems | 17 | 20 | 19 | 33 | 17 | 21 |
| Allergy | 15 | 11 | 15 | 11 | 15 | 11 |
| Skin infection | 12 | 11 | 19 | 17 | 13 | 11 |
| Measles | 11 | 12 | 9 | 17 | 10 | 13 |
| Parasitic infestations | 8 | 6 | 16 | 0 | 9 | 6 |
| Gastroenteritis | 9 | 10 | 8 | 11 | 8 | 10 |
| Whooping cough | 8 | 4 | 9 | 6 | 8 | 4 |
| Glandular fever | 7 | 4 | 10 | 6 | 7 | 4 |
| Hepatitis A | <1 | <1 | 0 | <1 | <1 | <1 |
| Hepatitis B | <1 | <1 | 0 | <1 | <1 | <1 |
| Hepatitis C | <1 | <1 | 6 | <1 | 2 | <1 |
| German measles/Rubella | 2 | 2 | 6 | 6 | 3 | 3 |
| Mumps | 3 | 3 | 3 | 6 | 3 | 3 |
| Heart problems | 2 | 5 | 3 | 6 | 2 | 5 |
| Epilepsy | 1 | 2 | 4 | 6 | 2 | 2 |
| Cancer/tumours | 1 | 1 | 1 | 0 | 1 | 1 |
| Meningitis | 0 | <1 | 0 | 0 | 0 | <1 |
| Diabetes | <1 | 0 | 0 | 11 | <1 | 1 |
| HIV | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6: Conditions most frequently reported to be diagnosed by a health professional (%)

* multiple responses permitted

a Males = 674; Females = 118; Total = 792

b Males = 173; Females = 18; Total = 191

Visual Acuity

Participants were tested for distance visual acuity using the Snellen eyesight chart. 3% of young people (17/623) had visual acuity below the normal limits suggesting they required referral for further examination. This proportion is lower than a community comparison group. According to the Australian Bureau of Statistics (2001), 11% of young men (15-24 years) and 22% of young women are short-sighted¹⁴. The ABS (2006)¹³ reported that 18% of young people aged 15-24 years were short-sighted.

Asthma

Asthma is a common disease in Australia and is characterised by recurrent episodes of wheeze, shortness of breath, and sometimes a cough. Asthma is of unknown cause, tends to run in families, and is closely linked to allergies. In the majority of people, asthma can be effectively controlled by a combination of the regular use of medications that reduce the symptoms and avoidance of, or controlling trigger factors.

^ Males = 670; Females = 117; Total = 787
 ^ Males = 203; Females = 17; Total = 220

33% (223) males and 35% (41) females reported having been diagnosed with asthma at some time. The 2001 National Health Survey¹⁴ (also based on self-report) indicated that 34% of young men aged 12-17 years and 29% of young women had been diagnosed with asthma. The NHS¹³ reported that 12% of young people aged 15-24 years had been diagnosed with asthma.

58% (139) of those who could recall when they last had an asthma attack had their last attack over one year ago; 17% (40) had an attack in the one month prior to interview. 43% (104) of those with asthma had been hospitalised for the condition. 31% (30) of those who had attended hospital for asthma had done so only once; 16% (16) [YPiCHS 54%] had over five hospital visits for asthma.

Shortness of breath (16% males, 25% females), persistent cough (15% males, 24% females), and wheezing (9% males, 8% females) were reported in the four weeks prior to interview (see Table 7).

One third of males and females reported having been diagnosed with asthma.

- 17% had an attack in the one month prior to interview.
- 16% had over five hospital visits for asthma in the one month prior to interview.

Recent symptoms and health complaints

A symptom checklist noted recent health complaints (those occurring in the past four weeks)¹⁵. Recentailments and symptoms covering cardio-respiratory, genito-urinary, psychological

and neurological, gastrointestinal, injection related, general and women's health issues were recorded. Sleep problems and energy loss/fatigue were the most common recent complaints in both males and females (see Table 7).

| Symptoms / complaints* | Males | | Females | | Total | |
|-------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Trouble sleeping | 38 | 40 | 47 | 67 | 39 | 42 |
| Tiredness/energy loss | 36 | 34 | 51 | 33 | 39 | 34 |
| Forgetting things | 31 | 25 | 36 | 33 | 32 | 26 |
| Headaches | 26 | 23 | 39 | 39 | 28 | 24 |
| Poor appetite | 25 | 17 | 25 | 17 | 25 | 17 |
| Sore throat | 18 | 18 | 25 | 17 | 19 | 18 |
| Weight loss/underweight | 17 | 10 | 20 | 11 | 18 | 10 |
| Shortness of breath | 16 | 12 | 25 | 22 | 18 | 12 |
| Night sweats | 17 | 22 | 19 | 28 | 17 | 12 |
| Teeth problems | 15 | 21 | 30 | 28 | 17 | 21 |
| Dizziness | 15 | 11 | 25 | 17 | 17 | 11 |
| Persistent cough | 15 | 7 | 24 | 0 | 16 | 6 |
| Muscle pain | 14 | 20 | 18 | 17 | 15 | 20 |
| Chest pain | 12 | 12 | 19 | 11 | 13 | 12 |
| Stomach/abdominal pains | 10 | 8 | 26 | 6 | 12 | 8 |
| Joint pains/stiffness | 10 | 7 | 10 | 6 | 10 | 7 |
| Swollen glands | 8 | 7 | 20 | 11 | 10 | 7 |
| Wheezing | 9 | 7 | 18 | 6 | 10 | 7 |
| Vision troubles | 8 | 11 | 13 | 17 | 9 | 11 |
| Ear problems | 4 | 11 | 5 | 17 | 4 | 11 |
| No symptoms reported | 17 | 21 | 10 | 6 | 16 | 20 |

| Table 7: Most common recent symptoms and heal | th complaints occurring in p | oast 4 weeks (%) |
|---|------------------------------|------------------|
|---|------------------------------|------------------|

*multiple responses permitted

a Males = 674; Females = 118; Total = 792

b Males (range) = 208-209; Females = 18; Total (range) = 226-227

Table 8: Most common recent symptoms and health complaints by drug use in the past 4 weeks (%)

| Symptoms / complaints* | No drugs | Cannabis | Amphetamine | Polydrug use |
|------------------------|----------|----------|-------------|--------------|
| Tiredness/energy loss | 33 | 41 | 50 | 52 |
| Poor appetite | 15 | 31 | 42 | 43 |
| Trouble sleeping | 32 | 44 | 51 | 56 |
| Headaches | 27 | 28 | 37 | 37 |
| Forgetting things | 25 | 73 | 37 | 33 |
| Pain^ | 29 | 33 | 37 | 44 |

*multiple responses permitted

^ chest, stomach, joint and/or muscular pain Total (range) = 104-445

Amphetamine and polydrug use were associated with more frequently reported symptoms and health complaints than no drug use or Cannabis use. Cannabis use was most strongly associated with forgetfulness.

Sexual health

The legal age of consent for sexual intercourse in Australia for males and females is 16 years. The median age of first vaginal intercourse in this sample was 14 years for both males (range: 6 to 18) and females (range: 7 to 17). Of the 119 young women in the sample, 29% (35) had been pregnant (12 were mothers of one or more children, 16 reported having had at least one miscarriage, and 12 reported terminations of pregnancy).



89% (699) young people screened had engaged in sexual intercourse (including vaginal, anal, or oral sex). A survey of Australian secondary students¹⁶ found that 25% of year 10 students reported they had sexual intercourse, and by year 12 almost fifty percent reported having had sexual intercourse.

According to this survey, most sexually active students in year 10 and year 12 had only one sexual partner in the previous year. While not directly comparable, most young people screened in our survey had three or more sexual partners (Figure 3).

Of the 562 males and 99 females who had had a regular partner, 42% (236) males and 60% (59) females either never used condoms or used them less than half the time when they engaged in penetrative sex with regular partners. Of the 557 males and 92 females who had had a casual partner, 23% (128) males [YPiCHS 33%] and 25% (23) females either never used condoms or used them less than half the time when they had penetrative sex with casual partners.

3% (21) young people had engaged in sex in order to obtain drugs or money.

Blood-Borne Viruses and Sexually Transmissible Infections

Risk behaviours such as injecting drug use, sharing contaminated injecting equipment, unsafe tattooing and body piercing, and unprotected sex have been linked to increased exposure to blood borne viruses and sexually transmitted infections. Adult offender populations have a high prevalence of blood borne viruses such as hepatitis C and HIV, and sexually transmitted infections such as syphilis, Chlamydia, and genital herpes.

Hepatitis B is an infrequent occurrence in Australians, except for those born overseas. The most usual route of transmission is vertical (from mother to child) and through the use of non-sterile medical practices in the countries of origin. Tables 9 and 10 present the serology results for hepatitis B, and infection and immunity rates in the sample.

Prevalence for Hepatitis C in the general adult community is 0.5% and is strongly associated with injecting drug use. In this sample, 71% (17/24) of those with HCV (Hepatitis C virus) had injected drugs in the past, 54% within the past 12 months. Table 9 shows that prevalence 89% young people had engaged in sexual intercourse. Median age of first vaginal intercourse

was 14 years. Most young people had three or more sexual partners.

29% young women had been pregnant:

- 12 were mothers,
- 16 had at least one miscarriage,
- 12 had at least one termination of pregnancy.

rates for HCV in young offenders on community orders is 10 times higher than in the general community; for young people in custody, the rate is 18 times higher than in the general community.

Chlamydia is one of the most prevalent of all STIs. Males are more likely than females to have symptoms of Chlamydia, but up to 75% of persons with Chlamydia show no symptoms. Chlamydia is acquired during oral, vaginal, or anal sexual contact with an infected sexual partner. It is a curable STI. In 2001 Chlamydia notifications for young people (12-24 years) represented sixty percent of all notifications for Chlamydia.

Hepatitis A, although not a blood borne virus, was also tested. None of those screened were positive for hepatitis A antibody. This finding is consistent with community standards where Hepatitis A is almost zero for young people.

| Markers | Males | | Females | | Total | |
|---|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Hepatitis B Core Antibody (cAb) | 4 | 11 | 4 | 18 | 4 | 11 |
| Hepatitis B Surface Antigen (sAg) | <1 | 3 | 1 | 12 | <1 | 4 |
| Hepatitis B Surface Antibody (sAb) | 23 | n/r | 33 | n/r | 24 | n/r |
| Hepatitis C Antibody | 3 | 8 | 12 | 18 | 5 | 9 |
| HIV antibody | 0 | 0 | 0 | 0 | 0 | 0 |
| Herpes Simplex Virus Type 2 | 7 | 6 | 9 | 18 | 7 | 7 |
| Chlamydia | 5 | 6 | 11 | 7 | 6 | 6 |
| Gonorrhoea | <1 | 2 | 1 | 0 | <1 | 2 |
| Any sexually transmitted infection ^c | 13 | 13 | 22 | 19 | 15 | 13 |
| Any blood borne virus ^d | 4 | 12 | 14 | 29 | 5 | 13 |

Table 9: Blood-borne viruses and sexually transmitted infections (%)*

* Details of pathology tests are given in Appendix 1.

a Males (range) = 431-449; Females (range) = 72-80; Total (range) = 507-529

b Males (range) = 162-181; Females (range) = 14-17; Total (range) = 178-197

c HSV-2, chlamydia, gonorrhoea. YPoCOHS Males = 373; Females = 67; Total= 440. YPiCHS Males = 158; Females = 16; Total= 174

d Hepatitis B, hepatitis C, HIV. YPoCOHS Males = 430; Females = 73; Total= 503. YPiCHS Males = 180; Females = 17; Total= 187



Figure 4: Herpes Simplex Virus Type 2 by lifetime number of sexual partners (%)

15% had a sexually transmissible infection;

 5% had a blood borne virus;

> 6% tested positive for Chlamydia.

Prevalence rates (5%) for Hepatitis C virus in young offenders on community orders was 10 times higher than in the general community.

> No-one tested positive for hepatitis A antibody or HIV.

Table 10 provides additional interpretation of the hepatitis B results¹⁷. Criteria for susceptibility to Hepatitis B infection are that one does not have a current nor has had a previous infection. Immunity due to vaccination occurs when sAb is positive and cAb is negative. Immunity or natural infection occurs when both sAb and cAb are positive. Acute or chronic infection is indicated by a positive sAg. Blood test results from the majority of both male and female young people on community orders indicated they were likely to be susceptible to hepatitis B infection with only about one third of males and females having evidence of immunity from hepatitis

may be appropriate for this vulnerable population.

17% (4) of those testing positive for hepatitis C antibody (n = 21) had a history of injecting drug use only, 26% (6) tattooing/body piercing only, and 52% (12) a history of both injecting and tattooing/body piercing.

Tattooing and Body Piercing

Tattooing in custody has been linked with hepatitis C transmission¹⁸. 27% males and females (total n = 207) had at least one tattoo. Of those with a tattoo, 51% males [YPiCHS 66%] and 71% females (total n = 207)

Table 10: Interpretation of hepatitis B results (%)*

| Interpretation | Males | Females | Total |
|---------------------------------|-------|---------|-------|
| Susceptible to infection | 70 | 62 | 69 |
| Immune due to vaccination | 26 | 34 | 27 |
| Immune due to natural infection | 3 | 1 | 3 |
| Acute or chronic infection | <1 | 0 | <1 |
| Indeterminate | 1 | 3 | 1 |

* Data not recorded for YPiCHS

Males (range) = 431; Females (range) = 73; Total (range) = 504

B vaccination. Among both sexes, a small proportion showed evidence of immunity to hepatitis B infection acquired from a previous hepatitis B infection. Active hepatitis B infection was detected amongst a very small proportion of males. These findings suggest that hepatitis B vaccination, including accelerated schedules, 113) had been tattooed by a non-professional. 37% males and 83% females (total n = 442) had one or more body piercings. Nonprofessionals had performed the procedure on 39% males and 17% females (total n = 111) who had a piercing. Table 11 summarises setting and location of tattooing and body piercing. Most males and females were likely to be susceptible to hepatitis B infection with only about one third having evidence of immunity from hepatitis B vaccination.

Table 11: Setting where tattooing and body piercing was carried out (%)

| Setting | Males | | Femal | es | Total | | | |
|------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|--|
| Tattooing | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | | |
| In the community | 93 | 78 | 93 | 89 | 93 | 79 | | |
| In custody | 2 | 14 | 0 | 0 | 1 | 12 | | |
| In the community and custody | 5 | 8 | 7 | 11 | 5 | 9 | | |
| Body Piercing | | | | | | | | |
| In the community | 98 | 90 | 100 | 93 | 99 | 90 | | |
| In custody | 0 | 7 | 0 | 0 | 0 | 6 | | |
| In the community and custody | 2 | 3 | 0 | 7 | 1 | 4 | | |

Tattooing: Body Piercing: ^a Males = 241; Females = 94; Total = 335 a Males = 178; Females = 29; Total = 207 ^b Males = 73; Females = 9; Total = 82 b Males = 59; Females = 14; Total = 73

Diet, Nutrition and Physical Activity

In a longitudinal study of more than 10,000 9-14 year olds, increase in BMI was found to be larger in those who reported more time playing TV/videos/games and in those who increased their caloric intakes. Cumulative effects during the adolescent years produced substantial gains in body weight¹⁹. Prevention of overweight and obesity at an early age is essential. One third of obese preschool children become obese adults, as do half of obese school-aged children. Remission rates are low (<1% per year) and decline with age.

Young people were asked about their regular eating habits (Table 12).

Body Mass Index (BMI) is calculated by the algorithm [weight in kilograms divided by (height in metres²)] for all ages. It is used to classify individuals as underweight, of acceptable weight, overweight and obese against age-specific population norms. For people under 18 years of age, BMI cut-off curves for overweight and obesity are defined to pass through the standard adult cut-offs of 25 kg/m² for overweight and 30 kg/m² for obesity. Substantial data link these cut-off points with disease risk in children and adults²⁰.

For people 18 years of age or older, a BMI of less than 18.5 kg/m² may be used to classify underweight; for this survey, cut-offs on a curve passing through this value were used to identify underweight people under 18 years of age²¹. 4% young people (3% males and 4% females) were underweight.

Comparison data were taken from the Schools Physical Activity and Nutrition Survey (SPANS)²², a study of overweight and obesity in schoolattending adolescents. Data for 14-16 year olds are included in the table for comparison with young offender data.

Table 13 reports BMI results for young people on community orders; 34% were either overweight or obese.

Table 12: Dietary/nutritional behaviour (%)

| Food | | M | lales | | | Fema | ales | | |
|---|-------|-----------------|-----------------|--------------|-------|-----------------|-----------------|--------------|--|
| How often do you normally eat: | Never | 1-2 per week | 3-4 per week | Every day | Never | 1-2 per week | 3-4 per week | Every day | |
| Community ^a | | | | | | | | | |
| Breakfast | 22 | 25 | 20 | 33 | 34 | 25 | 21 | 21 | |
| Fresh fruit | 14 | 39 | 20 | 26 | 15 | 39 | 20 | 26 | |
| Fresh vegetables | 15 | 26 | 27 | 32 | 16 | 23 | 19 | 42 | |
| Pies, burgers, hot dogs | 4 | 32 | 33 | 30 | 10 | 50 | 24 | 16 | |
| Chips or crisps | 11 | 39 | 30 | 20 | 10 | 44 | 31 | 15 | |
| Biscuits/chocolate/donuts/cake | 13 | 43 | 25 | 18 | 12 | 43 | 24 | 21 | |
| Takeaway food | 6 | 41 | 32 | 20 | 11 | 55 | 19 | 15 | |
| Custody ^b [YPiCHS: before custody] | | | | | | | | | |
| Breakfast | 35 | 12 | 13 | 40 | 41 | 24 | 6 | 29 | |
| Fresh fruit | 20 | 33 | 19 | 29 | 24 | 59 | 0 | 18 | |
| Fresh vegetables | 15 | 27 | 22 | 36 | 18 | 18 | 18 | 47 | |
| Pies, burgers, hot dogs | 8 | 38 | 26 | 28 | 12 | 41 | 12 | 35 | |
| Chips or crisps | 10 | 45 | 23 | 22 | 18 | 29 | 18 | 35 | |
| Biscuits/chocolate/donuts/cake | 10 | 41 | 20 | 29 | 12 | 53 | 0 | 35 | |
| Takeaway food | 9 | 42 | 26 | 22 | 6 | 53 | 6 | 35 | |

a Males (range) = 669-670, Females (range) = 115-119, Total (range) = 784-789 b Males = 205; Females = 17; Total = 222

 30% young men ate pies, burgers or hot dogs every day.

- 15% sample ate other takeaway food every day.
- 34% young people were either overweight or obese.

• 4% were underweight.

Table 13: Body Mass Index (%)

| Classification / age group | | Males | | Females | | | Total | | |
|---------------------------------|--------|----------------------|-------|---------|----------------------|-------|--------|----------------------|--|
| Obese | Comm.ª | Custody ^b | SPANS | Comm.ª | Custody ^b | SPANS | Comm.ª | Custody ^b | |
| 14 years and under ⁱ | 10 | 6 | 10 | 9 | 0 | 4 | 10 | 6 | |
| 15 years ⁱⁱ | 11 | 5 | 7 | 4 | 50 | 4 | 10 | 8 | |
| 16 years ⁱⁱⁱ | 23 | 11 | 3 | 13 | 0 | 0 | 21 | 11 | |
| 17 years ^{iv} | 12 | 13 | _ | 19 | 0 | _ | 13 | 12 | |
| 18 years ^v | 12 | 10 | - | 21 | 0 | _ | 12 | 9 | |
| 19 years and over ^{vi} | 14 | 30 | - | 0 | 0 | - | 12 | 30 | |
| Total ^{vii} | 14 | 11 | - | 13 | 11 | - | 14 | 11 | |
| Overweight | | | | | | | | | |
| 14 years and under ⁱ | 26 | 18 | 22 | 9 | 0 | 19 | 23 | 18 | |
| 15 years ⁱⁱ | 15 | 14 | 18 | 25 | 0 | 13 | 17 | 13 | |
| 16 years ⁱⁱⁱ | 13 | 28 | 24 | 37 | 0 | 12 | 18 | 28 | |
| 17 years [™] | 19 | 19 | - | 16 | 0 | - | 19 | 18 | |
| 18 years ^v | 26 | 23 | - | 7 | 0 | - | 24 | 21 | |
| 19 years and over ^{vi} | 37 | 15 | _ | 50 | 0 | _ | 38 | 15 | |
| Total ^{vii} | 20 | 21 | _ | 22 | 0 | _ | 20 | 20 | |

a i Males = 48; Females = 12; Total = 60

ii Males = 91; Females = 25; Total = 116

iii Males = 143; Females = 30; Total = 173

iv Males = 224; Females = 33; Total = 257 v Males = 139; Females = 14; Total = 153

v Males = 139; Females = 14; Total = 15
 vi Males = 22; Females = 4; Total = 26

vii Males = 67; Females = 118; Total = 785

b i Males = 17; Females = 0; Total = 17 ii Males = 22; Females = 2; Total = 24

iii Males = 46; Females = 1; Total = 47

iv Males = 70; Females = 3; Total = 73

v Males = 31; Females = 3; Total = 34

vi Males = 13; Females = 0; Total = 13

vii Males = 199; Females = 9; Total = 208

Obesity was most prevalent among 16 year olds (21%).

Overweight was highest amongst the 19 years and older group (38%).

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COGNITIVE ABILITY

Intelligence tests were administered to estimate reasoning ability and academic potential. The Wechsler Abbreviated Scale of Intelligence (WASI) scores are measured against a normative sample with an average score of 100 and a standard deviation (SD) of 15, shown in the graph by the normal distribution taken from the standardisation sample⁵.

Many young people scored in the borderline

ability to solve non-verbal problems) is close to that of the normative group for the tests used. 62% (484) could read at a low average or better standard; 62% [YPiCHS 50%] were able to spell at a low average or better standard, but only 15% (116) could perform numerical operations at a low average standard or better.

The average WASI Full Scale IQ (FSIQ) score for young people on community orders was 83



Full Scale IQ

or below average ranges on both the cognitive and academic tests. The pattern of results suggests that compared to other adolescents, many young people on community orders may have difficulty comprehending, communicating and problem solving using language or numbers. Conversely, their practical reasoning (fluid intelligence skills or

(SD: 13, range: 52 to 128). 72% scored below the average range, compared to 25% from the standardisation sample. 'Culture fair' IQs were calculated using the Full Scale IQs of young people from an English-speaking background, and the Performance IQs of Aboriginal and Torres Strait Islander and CALD young people (Figure 6).

Many young people scored in the borderline or below average ranges on both the cognitive and academic tests, indicating difficulties with comprehending, communicating and problem solving using language or numbers.



Figure 6: WASI Culture Fair IQ scores and the WASI normative sample scores (%)

Comparison of Verbal IQ (VIQ), Performance IQ (PIQ) and Full Scale IQ (FSIQ) scores

Overall, the mean FSIQ score of 83 fell within

the Low Average range. The mean VIQ score of

79 fell in the Borderline range. The mean PIQ score of 91 fell in the Average range. Means for the custody sample fell in the same ranges [YPiCHS: FSIQ = 82, VIQ = 76, PIQ = 91] (see Figure 7).





Males (range) = 671-674; Females (range) = 114-116; Total (range) = 785-790

The mean FSIQ fell within the low average range.

The mean verbal IQ fell in the borderline range.

The mean PIQ fell in the average range.

EDUCATIONAL ACHIEVEMENT

Educational history

The young people assessed by the survey indicated a high level of disengagement with the educational environment from an early age Academic Achievement

The Composite Standard Score on the Wechsler Individual Achievement Test-II-Abbreviated (WIAT-II-A) is an estimate of overall academic

| | Male | es | Femal | es | Total | |
|--|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| [YPiCHS: before custody] | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Mean age left school (years) | 15.0 | 14.5 | 14.5 | 14.6 | 14.9 | 14.5 |
| Not attending school | 82 | 81 | 84 | 83 | 82 | 82 |
| – left school before Year 7* | 2 | 1 | 1 | 0 | 2 | 1 |
| – left school in Year 7* | 7 | 16 | 6 | 20 | 7 | 16 |
| – left school in Year 8* | 15 | 24 | 16 | 33 | 15 | 25 |
| – left school in Year 9* | 31 | 34 | 43 | 20 | 32 | 33 |
| left school in Year 10* | 30 | 16 | 27 | 27 | 30 | 17 |
| – left school in Year 11* | 11 | 8 | 4 | 0 | 10 | 7 |
| – left school in Year 12* | 5 | 1 | 3 | 0 | 5 | 1 |
| Skip/skipped school regularly | 59 | n/r | 69 | n/r | 60 | n/r |
| Suspended from school | 90 | 90 | 85 | 100 | 89 | 91 |
| Special education^ | 37 | 39 | 32 | 50 | 36 | 40 |
| Victim of bullying at school | 29 | 19 | 37 | 29 | 30 | 20 |
| Perpetrator of bullying | 55 | 50 | 61 | 59 | 56 | 51 |
| Victim and perpetrator of bullying | 20 | 12 | 28 | 29 | 22 | 13 |

Table 14: Educational history (%)

• Ever attended a special school, tutorial centre, special class in mainstream school, or alternative community based program

a Males = 673; Females = 118; Total = 791 *(Males = 551; Females = 97; Total = 648)

b Males (range) = 156-209; Females (range) = 12-18; Total (range) = 168-227

(Table 14). A high proportion had left school without achieving a minimal qualification; had not regularly attended school, and many had been suspended on numerous occasions.

achievement in reading, spelling and mathematics⁷. The WIAT-II-A is based on a normative sample with an average score of 100 and standard deviation of 15.



Figure 8: WIAT-II-A Composite Standard Scores and normative sample scores (%)

Young people showed a high level of disengagement with the educational environment from an early age. Mean school leaving age was 14 years, 9 months.

- 60% truanted regularly
- 89% had been suspended

• 36% had received special education

• 56% were perpetrators of bullying

• 30% were victims of bullying.

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The average WIAT-II-A composite standard score was 77 (range 46 to 118), indicating that young people on community orders fell well below (1.5 standard deviations, on average) the expected norms in terms of their overall academic achievement.

Comparison of reading, spelling and arithmetic with overall academic achievement

The following percentages of young people attained scores, listed below, consistent with performance in the intellectually disabled range: 30% (235) Composite Standard Scores (CSS); 64% (502) scores on the numerical operations subscale;

21% (168) scores on the word reading subscale;

21% (163) scores on the spelling subscale.

The average overall academic performance fell within the borderline range, with most scores equivalent to those expected of people with intellectual disabilities (Figure 8).

Figures 9, 10, and 11 show the distribution of scores on each of the subscales with the normative curve from the standardisation sample for comparison.



Overall academic performance fell within the borderline range, with

- 30% CSS
- 64% Numercial operations
- 21% Word reading
- 21% Spelling

achieving scores equivalent to those expected of people with an intellectual disability.

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11%may have an intellectual disability.

The culture fair estimate of intellectual disability was 8%.

Intellectual disability estimates

For a diagnosis of intellectual disability to be made, tests of cognitive and adaptive functioning must be considered. The WASI assesses cognitive functioning, and the WIAT-II-A assesses one area of adaptive functioning, that of functional academic skills (two areas of adaptive functioning are required for a formal diagnosis - only one was available for this study). 15% (119) of the young people's WASI Full Scale IQ scores fell into the range consistent with intellectual disability (i.e., less than 70). 11% (87) young people scored below 70 on both the WASI Full Scale IQ and the WIAT-II-A Composite Standard Score (WIAT-CSS). This indicates that 11% young people on community orders may have an intellectual disability, at least in relation to their adaptation to mainstream Anglo-Australian society.

To understand a person's educational and adaptive needs, the normative standards of the dominant cultural group are important²³. However, to diagnose intellectual disability in a culture-fair manner, it is important to compare IQ and adaptive behaviour with those of a person's cultural group. With 19% (148) of the WASI and WIAT-II-A sample from Aboriginal and Torres Strait Islander backgrounds and 15% (112) from Culturally and Linguistically Diverse backgrounds (CALD: in YPoCOHS, CALD is coded for those with a language other than English mainly spoken in the home), these results require careful interpretation. These young people would be expected to have lower verbal scores than those from an Englishspeaking background (ESB).

Aboriginal and Torres Strait Islanders' performance on the non-verbal (Performance) scales on IQ tests are comparable to available Australian norms, particularly for those raised in urban areas²³. One 'culture fair' estimate of IQ could be based on numbers of Aboriginal and Torres Strait Islander and CALD young people scoring less than 70 on the WASI Performance IQ Scale, and the number of ESB young people with a WASI Full Scale IQ below 70.24 Aboriginal and Torres Strait Islander young people and 7 CALD young people scored less than 70 on the Performance IQ Scale, and 64 non-Aboriginal and Torres Strait Islander young people from an English-speaking background scored below 70 on the WASI Full Scale IQ. Hence, 12% (95) young people have culture fair IQ scores below 70.

Two thirds (64) of those young people with culture-fair IQ scores (i.e WASI PIQ for CALD/ Aboriginal and Torres Strait Islander groups) below 70 also had WIAT-CSS scores below 70. This combined assessment of adaptive functioning and culture fair IQ provides a valid culture fair measure of intellectual disability: 8% (64).

Several clients who refused to continue on the WASI may have done so to avoid the anxiety and perceived shame of being unable to complete the required tasks. This would suggest that 8% may be an underestimate of the true level of intellectual disability in this group.

MENTAL HEALTH

Mental health is not simply the absence of mental illness; it is a "state of emotional and psychological well-being in which an individual is able to use his or her cognitive and emotional capabilities, function in society, and meet the ordinary demands of everyday life"²⁴. The World Health Organization acknowledges that theoretical and cultural differences in definition exist. For this report, we adopted an operational definition of mental health that was assessed by a series of norm-referenced psychological tests.

The Adolescent Psychopathology Scale – Short Form (APS-SF) generates 14 scales to describe a range of psychological and psychiatric symptoms warranting possible referral or intervention⁸. These scales are based on DSM-IV criteria for psychiatric, personality and psychosocial problems²⁵. The APS-SF provides an indication of possible disorders, not a formal diagnosis, and does not describe personality disorders.

Table 15 compares custody and community samples on scales that assess the same or similar clinical dimensions. (Note that the YPiCHS used the APS and some of those scales are not included in the APS-SF).

40% (311) (40% males, 38% females) [YPiCHS males 48%, females 61%] reported severe symptoms consistent with a clinical disorder on at least one subscale. 19% (147) reported symptoms of Conduct Disorder in the severe range; 26% (207) reported symptoms of Substance Abuse Disorder in the severe range; 4% (27) reported symptoms for Academic Problems in the severe range.

13% (101) reported symptoms (in the severe range) for two or more clinical disorders [YPiCHS 26%]. The most commonly co-occurring disorders (in the severe range) were Substance Abuse Disorder and Conduct Disorder (8%, n = 62). Scores on the Substance Abuse Disorder and Conduct Disorder scales were the most prevalent disorders occurring in the severe range (Table 15).

52% males and 54% females scored in the normal range for Substance Abuse Disorder; 49% males and 57% females scored in the normal range for Conduct Disorder on the APS-SF scales.

| APS-SF scales | M | Mild Mode | | erate | SEVERE | |
|-----------------------------------|-------|-----------|-------|---------|--------|---------|
| Community ^a | Males | Females | Males | Females | Males | Females |
| Substance Abuse Disorder | 9 | 8 | 13 | 9 | 26 | 29 |
| Conduct Disorder | 9 | 8 | 23 | 17 | 19 | 18 |
| Academic problems (ADP)* | 11 | 10 | 13 | 12 | 3 | 6 |
| Anger / Violence Problems (AVP) | 12 | 14 | 14 | 23 | 3 | 5 |
| Posttraumatic Stress Disorder | 7 | 13 | 7 | 14 | 2 | 4 |
| Suicide (ideation and behaviours) | 3 | 2 | 4 | 10 | 1 | 4 |
| Oppositional Defiant Disorder | 9 | 12 | 7 | 9 | 1 | 5 |
| Interpersonal Problems | 7 | 15 | 4 | 11 | 1 | 1 |
| Major Depression | 5 | 9 | 3 | 12 | 1 | 3 |
| Self-concept Problems | 6 | 8 | 3 | 3 | <1 | 3 |
| Eating disorders (EAD) | 3 | 11 | 3 | 9 | <1 | 3 |
| Generalised Anxiety Disorder | 1 | 9 | 2 | 7 | <1 | 3 |

Table 15: APS-SF disorders (%)

40% reported severe symptoms consistent with a clinical disorder on at least one subscale.

- 19% reported symptoms of Conduct Disorder in the severe range;
- 26% reported symptoms of Substance Abuse Disorder in the severe range;

Only 4% reported symptoms for Academic Problems in the severe range, which did not accord with psychometric testing.

| APS scales | М | ild | Mod | erate | SEV | /ERE |
|--|-------|---------|-------|---------|-------|---------|
| Custody ^b | Males | Females | Males | Females | Males | Females |
| Substance Abuse Disorder | 14 | 11 | 19 | 22 | 27 | 44 |
| Conduct Disorder | 4 | 0 | 32 | 50 | 24 | 22 |
| Attention-Deficit Hyperactivity Disorder [cf ADP] | 13 | 22 | 14 | 22 | 1 | 6 |
| Anger [cf AVP] | 8 | 6 | 14 | 33 | 3 | 6 |
| Aggression [cf AVP] | 22 | 28 | 14 | 17 | 11 | 11 |
| Posttraumatic Stress Disorder | 8 | 17 | 9 | 28 | 0 | 0 |
| Suicide | 3 | 11 | 1 | 0 | 5 | 6 |
| Oppositional Defiant Disorder | 8 | 17 | 12 | 22 | 3 | 0 |
| Interpersonal Problems | 26 | 33 | 12 | 17 | 4 | 17 |
| Major Depression | 9 | 11 | 3 | 11 | 1 | 0 |
| Self-concept | 11 | 6 | 3 | 6 | 0 | 0 |
| Bulimia Nervosa [cf EAD] | 1 | 17 | 3 | 11 | 1 | 11 |
| Anorexia Nervosa [cf EAD] | 1 | 11 | 1 | 6 | 0 | 0 |
| Generalised Anxiety Disorder | 3 | 17 | 5 | 17 | 1 | 0 |

Table 15 (Continued): APS-SF disorders (%)

a Males = 666-668; Females = 117; Total = 783-785 (* Males = 607; Females = 108; Total = 715) b Males = 161; Females = 18; Total = 179

Table 16 shows the percentages of young people who had been told by a health professional that they had a mental health problem and the percentages and numbers of young people who had received treatment for that problem.

Table 16: Self-reported mental health and report of treatment (n)^a

| Problem | % with disorder | %(n) treated total |
|--|-----------------|--------------------|
| Anxiety Disorders | 2 | 1(15) |
| ADHD, ADD, Hyperactivity (Attention Deficit Hyperactivity Disorders) | 19 | 17(144) |
| Conduct Disorder, Oppositional Defiant Disorder | 2 | 2(16) |
| Depression | 6 | 5(48) |
| Other mood disorder (non-depressive, elevated mood) | 1 | 1(10) |
| Intellectual Disability, Learning Difficulties | 1 | <1(9) |
| Schizophrenia, psychotic disorder | 3 | 2(24) |
| Acute Stress Disorder, Post-Traumatic Stress Disorder | 1 | <1(8) |
| Anger Management problems | 4 | 3(29) |
| Other | 1 | 1(9) |
| Any disorder above | 33 | |

* only those with a history of incarceration

a Males = 665-669; Females = 117; Total = 783-786

Attention Deficit Hyperactivity Disorder (19%) was the most frequently reported mental health diagnosis. However, only 1% males and 6% females scored in the severe range on the ADHD subscale on the APS-SF. The Kessler Psychological Distress Scale (K-10 LM) is a 10-item questionnaire yielding a global measure of psychosocial distress¹⁰. The questions examine the level of anxiety and depressive symptoms experienced in the previous four weeks. Scores range from 10 (no distress) to 50 (severe distress) and are categorised into four groups: low (10 to 15), moderate (16 to 21), high (22-29) and very high (over 30). Scores in the very high range are associated with a high probability of having an anxiety or depressive disorder²⁶.

Based on these data, 25% (193) community sample had high or very high psychological distress, consistent with a greater than 50% chance of having an anxiety or depressive disorder; 7% (56) had an almost 80% chance of having an anxiety or depressive disorder (6% (42) males and 12% (7) females [YPiCHS 8% (15) males, (n=199); 13% (2) (n=16) females]).

Population norms suggest that between 11% and 12% of the general population have high to very high scores on the K-10.



On the K-10, 25% had high or very high psychological distress, consistent with a greater than 50% chance of having an anxiety or depressive disorder.

Suicide and Self-harm

Suicidal ideation was lower and self-harm was higher than adolescent population estimates.

• 9% young people had

months.

attempted suicide; 5% in the past 12

 17% had selfharmed; 9% in the past 12 months. Studies over the last 25 years reveal increasing rates of self harm in adolescents. Lifetime suicidal ideation in the general adolescent population has been estimated at 29.9%²⁷. Approximatly 5% report having attempted suicide. Rates of self harm in the general adolescent population vary from 6.2% to

12.4%²⁸. The age specific suicide rate for 15-19 year olds is 8.3 per 100,000 persons (12.7 for males; 3.6 for females) (ABS, 2005). In Australian young offenders, suicide has been identified as the leading cause of mortality behind drug-related deaths³.

Table 17 summarises the suicide and self-harm information for males and females.

| | Male | es | Fema | les | Total | |
|------------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| Suicide Ideation | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Considered suicide (ever) | 14 (92) | 19 (38) | 32 (37) | 20 (4) | 17 (129) | 19 (42) |
| Considered suicide (past 12m) | 7(47) | 15 (30) | 14 (16) | 12 (2) | 8 (63) | 15 (32) |
| Made suicide plan (ever) | 9 (59) | 10 (19) | 13 (15) | 6 (1) | 10 (74) | 12 (20) |
| Made suicide plan (past 12m) | 5 (32) | 7 (14) | 8 (9) | 0 (0) | 5 (41) | 6 (14) |
| Self-harm Ideation | | | | | | |
| Considered self-harm (ever) | 19 (125) | 18 (37) | 40 (46) | 18 (3) | 22 (171) | 18 (40) |
| Considered self-harm (past 12m) | 10 (66) | 12 (25) | 27 (31) | 12 (2) | 12 (97) | 12 (27) |
| Made plan to self-harm (past 12m) | 4 (26) | 7 (14) | 13 (15) | 0 (0) | 5 (41) | 6 (14) |
| Self-harm ideation decreased* | 7 (43) | 50 (17) | 18 (21) | 50 (1) | 8 (64) | 50 (18) |
| Self-harm ideation increased* | 1 (9) | 34 (12) | 3 (3) | 0 (0) | 2 (12) | 32 (12) |
| Suicide Attempts | | | | | | |
| Attempted suicide (ever) | 8 (52) | n/r | 18 (21) | n/r | 9 (73) | n/r |
| Attempted suicide (past 12m) | 4 (27) | 8 (16) | 9 (10) | 12 (2) | 5 (37) | 8 (18) |
| One suicide attempt (past 12m) | 2 (13) | 3 (6) | 2 (2) | 12 (2) | 2 (15) | 4 (8) |
| 2-3 suicide attempts (past 12m) | 2 (12) | 4 (7) | 4 (4) | 0 (0) | 2 (16) | 3 (7) |
| >3 suicide attempts (past 12 m) | <1 (2) | 2 (3) | 4 (4) | 0 (0) | <1 (6) | 1 (3) |
| Self Harm Attempts | | | | | | |
| Self-harm (ever) | 15 (98) | 13 (26) | 28 (32) | 6 (1) | 17 (140) | 12 (27) |
| Self-harm (past 12m) | 7 (49) | 9 (19) | 16 (18) | 6 (1) | 9 (67) | 9 (20) |
| 1 self-harm incident (past 12m) | 2 (16) | 3 (6) | 2 (2) | 6 (1) | 2 (18) | 3 (7) |
| 2-3 self-harm incidents (past 12m) | 3 (20) | 3 (6) | 7 (8) | 0 (0) | 4 (28) | 3 (6) |
| >3 self-harm incidents (past 12m) | 2 (12) | 3 (7) | 4 (5) | 0 (0) | 2 (17) | 3 (7) |

 Table 17: Percentages (numbers) of young people with suicidal and self-harm

 ideation and behaviour

*YPoCOHS in past 12 months; YPiCHS since coming into custody

a Males = 665-667; Females = 114-116; Total = 779-783

Tables 18 and 19 show the suicide and self-harm methods for the subset reporting suicide attempts in the past 12 months.

| Methods* | Males | | Fema | les | Total | |
|----------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Attempted hanging | 42 | 56 | 24 | 50 | 37 | 56 |
| Slashing wrists/ body parts | 18 | 33 | 67 | 50 | 32 | 33 |
| Overdose (pills and other) | 26 | 19 | 39 | 0 | 30 | 17 |
| Attempted overdose (pills) | 14 | 19 | 24 | 0 | 17 | 17 |
| Attempted overdose (other) | 14 | 0 | 19 | 0 | 15 | 0 |
| Jumping in front of (train, car) | 10 | 6 | 0 | 0 | 7 | 6 |
| Swallowing poisons | 2 | 0 | 19 | 0 | 7 | 0 |
| Asphyxiation | 6 | 25 | 0 | 0 | 7 | 22 |
| Jumping from a height | 10 | 6 | 0 | 0 | 7 | 6 |
| Car accident | 4 | 0 | 14 | 0 | 7 | 0 |
| Stabbing self | 4 | 6 | 10 | 0 | 6 | 6 |
| Punch/kick things repeatedly | 2 | 0 | 5 | 0 | 3 | 0 |
| Attempted overdose (alcohol) | 4 | 6 | 0 | 0 | 3 | 6 |
| Attempted overdose (heroin) | 4 | 0 | 0 | 0 | 3 | 0 |
| Eating foreign objects | 0 | 0 | 0 | 0 | 0 | 0 |
| Banging head | 0 | 13 | 0 | 0 | 0 | 11 |
| Self-immolation | 0 | 13 | 0 | 0 | 0 | 11 |
| Drowning | 0 | 6 | 0 | 0 | 0 | 6 |
| Firearm/ gunshot | 0 | 0 | 0 | 0 | 0 | 0 |

Table 18: Most frequently reported methods of attempting suicidein past 12 months (%)

*multiple responses permitted

a Males = 50; Females = 21; Total = 71

b Males = 16; Females = 2; Total = 18 [YPiCHS: low n]

Table 19: Most frequently reported methods for self-harm (%) in the last 12 months

| Methods* | Male | es | Fema | les | Total | | |
|----------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | |
| Slashing | 58 | 42 | 0 | 0 | 65 | 41 | |
| Punching/kicking (inc. fighting) | 29 | 12 | 11 | 0 | 24 | 11 | |
| Banging/smashing head | 13 | 15 | 11 | 0 | 12 | 15 | |
| Burning self (e.g. with lighter) | 15 | 4 | 83 | 0 | 11 | 4 | |
| Blunt force (e.g. vehicle crash) | 9 | _ | 0 | _ | 9 | _ | |
| Stabbing self | 8 | 0 | 11 | 0 | 9 | 0 | |
| Overdose | 8 | 4 | 11 | 0 | 9 | 4 | |
| Attempting to cut off oxygen | 4 | 19 | 11 | 0 | 6 | 19 | |
| Eating foreign objects | 2 | 4 | 0 | 0 | 2 | 4 | |
| Biting of skin | 0 | 4 | 11 | 0 | 0 | 4 | |

*multiple responses permitted

a Males = 48; Females = 18; Total = 66

b Males = 26; Females = 1; Total = 27 [YPiCHS: low n]

16% (117) stated that a school peer had committed suicide.

28% (212) said that they knew someone who had committed suicide.

Attempted hanging, slashing wrists or body parts and overdose were the three most frequent methods of attempting suicide.

Cutting, punching, kicking and banging head were the three most frequent methods of selfharm.

Experience of abuse and neglect

The Childhood Trauma Questionnaire (CTQ) examines experiences of physical, emotional and sexual abuse and assesses the degree to which people minimise or deny experiences of abuse or trauma⁹. Scores are classified as low, moderate, or severe depending on the level of abuse.

72% young people had experienced some form of abuse or neglect in their childhood (low, moderate, or severe abuse or neglect).

40% (270) males and 29% (35) females endorsed items on the Minimisation/Denial Scale of the CTQ, suggesting substantial under-reporting of abuse, neglect or trauma.

| CTQ scales | Low | | Moderate | | Severe | | |
|--|------------------------------------|--|--|--|---|--|--|
| Community ^a | Males | Females | Males | Females | Males | Females | |
| Emotional Abuse | 24 | 30 | 10 | 14 | 9 | 20 | |
| Physical Abuse | 17 | 16 | 5 | 11 | 8 | 14 | |
| Sexual Abuse | 3 | 8 | 4 | 19 | 2 | 11 | |
| Emotional Neglect | 29 | 28 | 11 | 6 | 9 | 23 | |
| Physical Neglect | 17 | 11 | 11 | 18 | 8 | 16 | |
| Any abuse (above) | 59 | 58 | 32 | 45 | 23 | 38 | |
| | Mild | | | | | vere | |
| CTQ scales | М | ild | Mod | erate | Sev | ere | |
| CTQ scales Custody ^b | M Males | ild Females | Mode Males | e <mark>rate</mark> Females | Sev Males | ere Females | |
| CTQ scales Custody ^b Emotional Abuse | M Males 20 | ild Females 33 | Mode Males 9 | erate Females 6 | Sev Males 7 | rere Females 11 | |
| CTQ scales Custody ^b Emotional Abuse Physical Abuse | M Males 20 12 | ild Females 33 17 | Mode Males 9 14 | Females 6 28 | Sev Males 7 15 | Females | |
| CTQ scales Custody ^b Emotional Abuse Physical Abuse Sexual Abuse | Males 20 12 4 | ild Females 33 17 11 | Mode Males 9 14 3 | Females 6 28 6 | Sev Males 7 15 2 | Females 11 11 22 | |
| CTQ scales Custody ^b Emotional Abuse Physical Abuse Sexual Abuse Emotional Neglect | Males 20 12 4 22 | ild Females 33 17 11 22 | Mode Males 9 14 3 6 | Females 6 28 6 6 6 | Sev Males 7 15 2 11 | Females 11 11 22 6 | |
| CTQ scales Custody ^b Emotional Abuse Physical Abuse Sexual Abuse Emotional Neglect Physical Neglect | Males 20 12 4 22 18 | ild Females 33 17 11 22 17 | Mode Males 9 14 3 6 11 | Females 6 28 6 6 6 0 | Sev Males 7 15 2 11 8 | rere Females 11 11 22 6 6 6 | |

Table 20: Childhood Trauma Questionnaire scale score classifications (%)

a Males = 678; Females = 119; Total = 797 b Males = 198; Females = 18; Total = 216





Across all categories of abuse, this population report levels of abuse consistent with an adolescent psychiatric population.

72% had experienced some form of abuse or neglect. Females (38%) reported more severe abuse and neglect than males (23%). Emotional abuse and neglect were the most frequently reported forms of abuse for both males and females.

ALCOHOL, TOBACCO AND OTHER DRUG USE

Alcohol use

Alcohol abuse and alcohol dependence affects a significant number of adolescents and young adults between the ages of 12 and 20. Adolescents who begin drinking before age 15 are four times more likely to develop alcohol dependence than those who begin drinking at age 21.

Early age of drinking onset is also associated with alcohol-related violence. The three leading causes of death for 15- to 24-year-olds are automobile crashes, homicides and suicide – alcohol is a leading factor in all three²⁹. Community data indicate that the mean age of alcohol initiation (drinking a full glass) among young people aged 14-24 years is 14.6 years for males and 14.8 years for females. NSW Health estimates that 22% boys and 18% girls aged between 12-16 years drink on a weekly basis; 40% of 16-17 year olds binge drink at least occasionally.

Almost all young people on community orders had consumed alcohol and been drunk at some time in the past (Table 21). The average age of first consuming alcohol was 13 years for both males (range: 5 to 18) and females (range: 5 to 18). Young men were, on average, aged 14 years (range: 5 to 19) and young women were, on average, aged 13 years (range: 5 to 18) when they first got drunk.

27% (182) males and 23% (27) females reported being drunk at least weekly in the twelve months prior to completing the survey. Young people who drank more than six standard drinks (males) or four standard drinks (females) on any one occasion, or those who drank every day were classified as risky drinkers³⁰; 84% males (568) and females (98) drank at risky levels.

Binge drinking, defined as consuming six or more standard drinks on any one occasion³⁰, was common – 30% males [YPiCHS 46%] and 36% females (combined n = 244) had engaged in binge drinking on a weekly basis prior to completing the survey.

A higher proportion of those who had received custodial sentences as opposed to a community order displayed patterns of drinking consistent with alcohol dependence.

Typical indicators of alcohol dependence are reported in Table 22.

| Alcohol use | Males | | Femal | les | Total | | |
|-----------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | |
| Ever tried alcohol | 97 | 96 | 98 | 100 | 97 | 96 | |
| Had a full serve of alcohol | 95 | 93 | 97 | 100 | 95 | 94 | |
| Ever been drunk | 91 | 84 | 91 | 100 | 91 | 85 | |
| Been drunk before age 16 | 73 | 80 | 78 | 78 | 73 | 80 | |

Table 21: Alcohol use among young people on community orders (%)

a Males = 674; Females = 116; Total = 790

b Males (range) = 172-208; Females = 18; Total (range) = 190-226

More than 90% young people had consumed alcohol and been drunk. The average age of first consuming alcohol and getting drunk was 13-14 years for both sexes.

- 27% males and 23% females reported being drunk at least weekly in the twelve months prior to completing the survey.
- 84% males (568) and females (98) drank at risky levels. 30% males and 36% females were binge drinking on a weekly basis prior to completing the survey.

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| | | | _ | _ | | | | | |
|---|------------------------|----------------------|------------------------|----------|------------------------|----------|--|--|--|
| Indicators | Male | s | Fema | les | Tota | l | | | |
| | Community ^a | Custody ^b | Community ^a | Custody⁵ | Community ^a | Custody⁵ | | | |
| Unable to stop drinking once started | k | | | | | | | | |
| At least weekly: | 8 | 18 | 6 | 35 | 7 | 19 | | | |
| Fortnightly or monthly: | 7 | 4 | 9 | 12 | 8 | 5 | | | |
| Failed to do what was normally expe | ected because of | drinking | | | | | | | |
| At least weekly: | 6 | 18 | 7 | 25 | 6 | 18 | | | |
| Fortnightly or monthly: | 12 | 5 | 15 | 13 | 13 | 6 | | | |
| Needed an alcoholic drink in the morning to get going | | | | | | | | | |
| At least weekly: | 3 | 6 | 2 | 12 | 2 | 7 | | | |
| Fortnightly or monthly: | 1 | 1 | 3 | 6 | 2 | 1 | | | |

Table 22: Indicators of alcohol dependency (%)

a Males (range) = 635-672; Females (range) = 111-114; Total (range) = 746-786

b Males (range) = 204-206; Females (range) = 16-17; Total (range) = 221-222 [YPiCHS: before custody]

53% (396) young people indicated that they had been under the influence of alcohol, drugs

or both at the time of their offence [YPiCHS 54% (131)].

Table 23: Offending behaviour and alcohol and other drug use (%)

| Behaviour | | Males Fem | | Fema | les | Total | | |
|--|----------|------------------------|----------------------|------------------------|----------|------------------------|----------------------|--|
| | | Community ^a | Custody ^b | Community ^a | Custody⁵ | Community ^a | Custody ^b | |
| Ever committed crime drugs or alcohol | e to get | 44 | 61 | 48 | 76 | 44 | 62 | |
| Affected by drugs | at time | 33 | 47 | 33 | 47 | 33 | 47 | |
| Affected by alcohol | of last | 35 | 37 | 36 | 41 | 36 | 38 | |
| Affected by either | offence | 52 | 59 | 53 | 59 | 52 | 59 | |

a Males = 641; Females = 113; Total = 754

b Males (range) = 204-206; Females (range) = 17; Total (range) = 221-223

Tobacco use

The 2004 National Drug Strategy Household Survey assessed the tobacco and illicit substance use of 30,000 people aged 12 years and over. 96% of 12- to 15-year-olds reported having never smoked a cigarette. Fewer than 1 in 12 persons aged 12-19 years reported smoking daily. Females aged between 16 and 17 years were almost twice as likely as males to smoke daily. Young people who do less well academically and who have a lower self-image are also more likely to smoke than other young people. According to the AIHW (2003), the mean age of initiation into tobacco smoking among young people aged between 14-24 years was 14.5 years for males and 14.2 years for females. 16% young people (12-17 year olds) identified themselves as smokers.

In this sample of young people on community orders, the average age for commencing smoking was 12 years for both males and females, with 27% (199) reporting they had commenced smoking at ten years of age or younger. 81% (545) males and 81% (95) females were current smokers. 93% (597) smoked daily or almost daily; 36% males and 53% females smoked 10 or fewer cigarettes on the days that they smoked; 25% (156) young people felt that they required assistance to quit smoking.

53% young people indicated that they had been under the influence of alcohol, drugs or both at the time of their offence.

> Average age for commencing smoking was 12 years for both sexes.

 27% commenced smoking at 10 years of age or younger.

• 81% (545) males and 81% (95) females were current smokers.

> • 93% (597) smoked daily or almost daily.

Substance use

In 2004, researchers from the Murdoch Children's Research Institute surveyed 2,900 Victorian children in Years 5, 7 and 9 for their substance use. One in 50 Australian teenagers in Years 7 and 9 reported using cannabis weekly. Figures on substance use in young offenders are compared with substance use in young people aged 16-24 years taken from the Premier's Drug Prevention Council (PDPC)(2003)³¹ in the tables below. In a 2001 community sample of young people aged 14-24 years, Cannabis and inhalants were first used at mean age less than 16 years for both males and females, compared to amphetamines and speed, which were first used at 18 years for males and 17 years for females. The mean age of initiation into injecting drug use was 17 years for males and 18 years for females (Source: AIHW NDSHS 2001). Young offenders initiated illicit substance use on average two years earlier than community samples of young people as indicated in Table 25.

Females Drug type* Males **Total Community**^a Custody^b PDPC^ Community^a Custody^b PDPC^ Community^a Custody^b 89 88 57 89 89 88 Cannabis 88 49 44 46 57 47 Amphetamine 17 59 14 46 Ecstasy/ other 38 34 21 45 35 18 39 34 amphetamine 17 20 23 29 18 21 Cocaine _ _ 13 17 20 47 14 20 Heroin _ _ 12 12 13 12 Benzodiazepines 11 _ 26 _ Other (steroid/ 14 11 17 35 12 15 opiate/anaesthetic) Hallucinogens 11 13 13 18 11 13 --Solvents or 7 7 10 5 10 29 3 12 inhalants Any drug (above) 88 90 87 100 88 91

Table 24: Drugs ever used (other than alcohol or tobacco) (%)

a Males (range) = 671-673; Females (range) = 114-115; Total (range) = 677-678

b Males = 186; Females = 17; Total = 203

* multiple responses permitted

^ Premiers Drug Prevention Council

* PDPC does not include methamphetamine

Cannabis (89%), amphetamine (46%) and ecstasy (39%) were the three most commonly used substances. 'Ever used' percentages were 1.5 times (Cannabis), 2.7 times (amphetamine) and 1.9 times (ecstasy) higher than substance use in the PDPC sample of 16-24 vear olds.

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| Drug type | | Male | Males | | Females | | Total | |
|--------------------------|-----|------------|----------------------|------------|----------------------|------------|----------------------|--|
| | Na | Community | Custody ^b | Community | Custody ^b | Community | Custody ^b | |
| Tobacco | 748 | 12.0 (2.7) | 11.9 (2.5) | 11.6 (2.6) | 12.4 (1.1) | 11.9 (2.7) | 12.0 (2.5) | |
| Alcohol | 749 | 13.2 (2.5) | 13.3 (2.6) | 13.0 (2.1) | 13.8 (1.3) | 13.1 (2.4) | 13.4 (2.5) | |
| Cannabis | 701 | 13.2 (2.3) | 12.7 (2.5) | 12.9 (2.1) | 12.9 (1.7) | 13.1 (2.3) | 12.7 (2.5) | |
| Amphetamine | 363 | 15.0 (1.7) | 15.0 (1.5) | 14.0 (1.4) | 15.0 (1.3) | 14.8 (1.7) | 15.0 (1.4) | |
| Other amphetamines (e) | 307 | 15.3 (1.5) | 15.4 (1.3) | 14.6 (1.4) | 14.8 (0.8) | 15.2 (1.5) | 15.4 (1.2) | |
| Cocaine | 141 | 15.4 (1.8) | 15.7 (1.1) | 14.1 (1.4) | 15.8 (0.8) | 15.2 (1.8) | 15.7 (1.1) | |
| Heroin | 110 | 15.2 (1.6) | 14.8 (1.6) | 13.5 (2.3) | 15.0 (1.7) | 14.9 (1.9) | 14.8 (1.6) | |
| Benzodiazepines | 105 | 14.9 (1.7) | 15.1 (1.4) | 14.1 (1.3) | 14.5 (2.1) | 14.6 (1.6) | 15.1 (1.4) | |
| Hallucinogens | 86 | 14.8 (1.9) | 14.9 (1.3) | 14.4 (1.1) | 14.3 (1.2) | 14.8 (1.8) | 14.9 (1.2) | |
| Solvents/inhalants | 58 | 13.2 (2.3) | 15.6 (1.0) | 12.7 (1.8) | 0 | 13.1 (2.2) | 15.6 (1.0) | |
| Other opiates | 40 | 15.4 (2.0) | 16.0 (.00) | 14.7 (1.8) | 17.0 (0.0) | 15.2 (1.9) | 16.5 (0.7) | |
| Painkillers | 36 | 14.8 (2.3) | 14.3 (1.3) | 14.3 (2.1) | 16.0 (2.8) | 14.6 (2.2) | 14.8 (1.8) | |
| Non-prescribed methadone | 22 | 15.4 (1.9) | 15.3 (1.3) | 13.8 (2.2) | 14.6 (1.3) | 15.1 (2.0) | 15.2 (1.3) | |
| Other (specify) | 13 | 15.3 (2.0) | 12.4 (3.3) | 15.0 (0.0) | 15.5 (0.6) | 15.3 (1.9) | 13.0 (3.2) | |
| Prescribed methadone | 5 | 16.7 (0.6) | 16.5 (1.3) | 16.0 (1.4) | 15.5 (0.7) | 16.4 (0.9) | 16.2 (1.2) | |
| Steroids | 5 | 16.5 (1.3) | 16.0 (2.0) | 13.0 (0.0) | 0 | 15.8 (1.9) | 16.0 (2.0) | |

Table 25: Mean age of initiation/onset of drug use (Standard Deviation)

a Numbers in the community sample

b Males (range) = 1-183; Females (range) = 2-15; Total (range) = 1-198

12% (81) young people on community orders (10% males [YPiCHS 26%] and 18% females) used two or more illicit substances on a weekly or more frequent basis.

Injecting drug use and sharing contaminated injecting equipment pose additional risks to health such as exposure to blood borne viruses. Adult prisoner populations, particularly female prisoners, report high rates of injecting drug use.

Overall, 8% (64) (7% males, 17% females) [YPiCHS 19% combined] had injected drugs in the twelve months prior to the survey. Heroin and amphetamine (45% and 19% of injectors) were the two most commonly injected drugs.

Amphetamine (19%) (67) [YPiCHS 35%] and

heroin/amphetamine users, 45% (50) heroin users, and 14% (19) [YPiCHS 32%] cocaine users reported injection as the route of administration.

8% (7) young people with histories of injecting drug use (N = 86) had shared needles or injecting equipment in the previous month. 3% (3) [YPiCHS 29%] had shared injecting equipment between one and six months prior to interview, with 6% (7) [YPiCHS 33%] sharing injecting equipment between 6 months and 2 years ago.

The three main substances of choice were tobacco, cannabis, and alcohol. Table 26 presents self-reported preferences for substances.

Young offenders initiated illicit substance use on average two years earlier than comparable community samples for whom the mean age of initiation into injecting drug use was 17-18 years.

8% (7% males, 17% females) had injected drugs in the twelve months prior to the survey. Heroin and amphetamine were the two most commonly injected drugs.

8% young people with histories of injecting drug use had shared needles or injecting equipment in the previous month.

Table 26: Self-reported substances of choice (%)

| Drug type | Males | | Femal | es | Total | | |
|------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|--|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b | |
| Tobacco | 33 | 28 | 44 | 41 | 34 | 29 | |
| Cannabis | 32 | 46 | 26 | 29 | 31 | 44 | |
| Alcohol | 24 | 17 | 13 | 12 | 22 | 16 | |
| Ecstasy/Designer Drugs | 4 | 2 | 5 | 0 | 4 | 1 | |
| Amphetamine | 3 | 4 | 3 | 0 | 3 | 4 | |
| Heroin | 2 | 2 | 6 | 18 | 3 | 3 | |

a Males = 632; Females = 110; Total = 742

b Males = 191; Females = 17; Total = 208

Young people were asked about the factors that had influenced their decision to use illicit drugs (Table 27).

Table 27: Factors influencing decision to first use illicit drugs (%)

| Influencing factors* | Males Females | | Tota | I | | |
|---------------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Curiosity | 70 | 59 | 73 | 53 | 69 | 58 |
| Friends used/ offered drugs | 53 | 41 | 46 | 35 | 52 | 40 |
| To do something exciting | 17 | 10 | 16 | 6 | 17 | 10 |
| Feel better / stop feeling unhappy | 11 | 11 | 21 | 18 | 12 | 11 |
| To take a risk | 10 | 5 | 12 | 0 | 10 | 5 |
| Family problems | 7 | 8 | 9 | 6 | 7 | 8 |
| Work/school/relationship probs | 5 | 3 | 8 | 0 | 5 | 3 |
| Don't know | 3 | 2 | 4 | 6 | 3 | 3 |
| Traumatic experience | 4 | 2 | 8 | 0 | 5 | 2 |
| To lose or gain weight | 1 | 0 | 4 | 6 | 2 | 1 |
| To relax or chill out | 2 | n/r | 1 | n/r | 2 | n/r |
| Family complicity | 3 | 1 | 3 | 0 | 3 | 1 |

The three main substances of choice were tobacco, cannabis, and alcohol.

Curiosity and peer influence were the strongest influencing factors in illicit substance use initiation.

* multiple responses permitted

a Males = 576; Females = 101; Total = 677

b Males = 181; Females = 17; Total = 198

Table 28 examines relationships between three commonly reported symptoms (in the past month) and compares those who report no illicit drug use (i.e. excluding alcohol or tobacco) in the past month, with those who have used some of the main drug classes (in the past month). Because polydrug use is common and carries additional risks compared to the use of one substance, Table 29 presents the same three commonly reported symptoms and compares those who report no illicit drug use with those who have used one illicit drug class and those who have used two or more illicit drug classes (i.e. polydrug users).

Table 28 Relationship between drug use and symptoms (in the past month) (%)

| Drug use in past month ^a | n | Tiredness/energy loss ^b | Poor appetite ^c | Trouble sleeping ^d |
|-------------------------------------|-----|------------------------------------|----------------------------|-------------------------------|
| No drug use | 303 | 33 | 15 | 32 |
| Cannabis | 445 | 41 | 31 | 44 |
| Amphetamine | 104 | 50 | 42 | 51 |
| Cocaine | 29 | 38 | 35 | 59 |
| Other amphetamine | 93 | 44 | 38 | 52 |
| Heroin | 25 | 52 | 44 | 48 |
| Benzodiazepines | 18 | 89 | 61 | 72 |
| Stimulants | 154 | 51 | 41 | 53 |

a N = 792; b N = 301; c N = 197; d N = 308

Table 29: Relationship between no, single and polydrug use and symptoms(in the past month) (%)

| Drug use in past month ^a | n | Tiredness/energy loss ^b | Poor appetite ^c | Trouble sleeping ^d | |
|-------------------------------------|-----|------------------------------------|----------------------------|-------------------------------|--|
| No drug use | 303 | 33 | 15 | 32 | |
| One drug class | 330 | 36 | 26 | 38 | |
| Two or more drug classes | 155 | 52 | 43 | 56 | |

a N = 792; b N = 301; c N = 197; d N = 308

Gambling

8% (54) males and 4% (5) females were classified as 'problem gamblers according to the DSM-IV-J

juvenile gambling screen developed by Fisher (based on DSM-IV criteria)^{32,33}. Table 30 presents problems associated with gambling in the past 12 months.

Table 30: Problems/behaviours associated with gambling in past 12 months (%)

| Problems/ behaviours | Ma | ales | Females | | Total | |
|--|------------------|-------|------------------|-------|------------------|-------|
| | Com ^a | Cust⁵ | Com ^a | Cust⁵ | Com ^a | Cust⁵ |
| Spent more money than planned on gambling | 11 | 19 | 5 | 24 | 10 | 20 |
| Felt bad or fed up when tried to stop gambling | 5 | 7 | 2 | 18 | 5 | 8 |
| Led to arguments with friends | 4 | 8 | 10 | 12 | 4 | 8 |
| Taken money from outside the family for gambling | 3 | 8 | 1 | 0 | 2 | 8 |
| Led to arguments with family | 2 | 5 | 3 | 12 | 2 | 6 |
| Taken money from family for gambling | 2 | 4 | 2 | 6 | 2 | 4 |
| Used school money/fare for gambling | 2 | 3 | 2 | 6 | 2 | 3 |
| Led to missing school | 1 | 4 | 0 | 12 | 1 | 4 |

a Males = 673; Females = 118; Total = 791

b Males (range) = 202-204; Females (range) = 17; Total (range) = 219-221

Polydrug users were 1.5 times more likely to report tiredness/ loss of energy; 2.9 times more likely to have poor appetite; 1.8 times more likely to have trouble sleeping than nondrug users.

Injury

Injury accounts for a substantial proportion of the global burden of disease and is the third most common cause of overall mortality in developed countries. In 1999, injury and poisonings were the sixth leading cause of death and the fourth leading cause of hospitalisation in NSW. Seventy per cent of all injury deaths and 56% of all injury hospitalisations in NSW between 1995 and 1999 occurred in males. Injury mortality and morbidity tends to be high among disadvantaged young men, who constitute the majority of incarcerated populations.

78% (523) males and 58% (68) females had sustained an injury at some time in the past

requiring them to see a doctor or nurse or to attend hospital. The three leading causes of injuries for males were: being struck by an object or person (a euphemism for assault) (21%), low falls (less than one metre) (20%), and cutting, piercing, stabbing (17%). The leading causes of injuries for females were low falls (23%), being struck by object or person (22%), and cutting, piercing, stabbing (20%). 20% males [YPiCHS 34%] and 30% females (combined n = 158) who had an injury said it caused a lasting disability. 28% also reported persisting pain as a result of their injury.

2% (18) young people had received injuries inflicted by partners (boyfriends and girlfriends).

| Table 31: Persons | causing in | jury in the | past 12 | months (%) |
|-------------------|------------|-------------|---------|------------|
|-------------------|------------|-------------|---------|------------|

| Persons causing injury* | Males | | Females | | Total | |
|-------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody⁵ |
| Stranger | 13 | 2 | 6 | 0 | 12 | 2 |
| Other known person | 10 | 3 | 6 | 0 | 10 | 3 |
| Police | 3 | 2 | 1 | 0 | 3 | 1 |
| Partner | 1 | 15 | 8 | 13 | 2 | 15 |
| Other family member | 2 | 5 | 4 | 13 | 2 | 5 |
| Detainee | 2 | 68 | 0 | 69 | 2 | 68 |
| Mother | 1 | 2 | 0 | 6 | 1 | 2 |
| Father | <1 | 10 | 1 | 0 | <1 | 9 |
| No injury reported | 31 | n/r | 25 | n/r | 21 | n/r |

*multiple responses permitted

a Males (range) = 643-646; Females = 116; Total (range) = 759-772.

b Males = 196; Females = 16; Total = 212

Head Injury

A number of studies suggest a link between traumatic brain injury (TBI) and offending behaviour. A recent study of incarcerated young offenders showed a significant relationship between head injury and the severity of head injury and severe violent offending.⁴⁴ In an important retrospective cohort study using data linkage, Timonen found that TBI before age 15 was associated with an increased risk of criminality, but among individuals who had both a past TBI and a psychiatric history (including personality disorder), the risk of criminal activity was four-fold.⁴⁵ 41% (275) males and 29% (34) females had sustained a head injury in which they had become unconscious or "blacked out". Most were the result of being struck by an object or person (including fights) (50%), striking another object or person (12%), or low falls (19%).

Headaches (5%) [YPiCHS 25%], memory loss (4%) [YPiCHS 19%] and poor concentration (4%) [YPiCHS 18%] were the most common unresolved side effects of the head injuries. [YPiCHS: low N]. Proportions of sequelae from head injury were higher for young people in custody.

78% males and 58% females had sustained an injury at some time in the past requiring them to see a doctor or nurse or to attend hospital.

41% males and 29% females had sustained a head injury in which they had become unconscious or "blacked out".

Health service utilisation

20% [YPiCHS 38%] young people (22% males [YPiCHS 43%] and 11% females) had not seen a doctor in the community in the last twelve months. [YPiCHS: controlled environment] A small proportion of young people had never visited a doctor in the community (1% males; 0% females).

| Health professionals | Males | | Females | | Total | | |
|---------------------------------|------------------------|----------------------|------------------------|----------|------------------------|----------|--|
| | Community ^a | Custody ^b | Community ^a | Custody⁵ | Community ^a | Custody⁵ | |
| Doctor | 99 | 80 | 99 | 81 | 99 | 80 | |
| Nurse | 48 | 98 | 52 | 100 | 49 | 98 | |
| Alcohol & other drug counsellor | 37 | 47 | 32 | 63 | 37 | 48 | |
| Psychiatrist | 34 | 22 | 29 | 19 | 33 | 22 | |
| Psychologist | 27 | 61 | 28 | 50 | 27 | 60 | |
| Sexual health worker | 9 | 21 | 17 | 6 | 10 | 20 | |
| Dentist / dental therapist | n/r | 40 | n/r | 25 | n/r | 39 | |
| Any health service (above) | 99 | 99 | 99 | 100 | 99 | 99 | |

Table 32: Health service use (%)

21% believed they had a medical problem in the last twelve months but did not seek treatment.

a Males (range) = 626- 666; Females (range) = 108-117; Total (range) = 725-783 b Males = 202; Females = 16; Total = 218

21% (141) males and 20% (24) females believed they had a medical problem in the last twelve months but did not seek treatment. These young people reported a number of factors they perceived to be barriers to accessing medical treatment in the community (Table 33). Of this group, 40% (66) [YPiCHS 55%] believed that their health problem had worsened due to lack of medical treatment.

| Barriers* | Males | | Females | | Total | |
|--------------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Thought problem would go away | 33 | 27 | 29 | 20 | 32 | 26 |
| Didn't want /couldn't be bothered | 30 | 12 | 21 | 0 | 28 | 10 |
| Didn't have time | 13 | 15 | 8 | 20 | 12 | 15 |
| Afraid of what Dr would say/do | 9 | 12 | 17 | 40 | 10 | 15 |
| Couldn't pay | 5 | 6 | 25 | 0 | 8 | 5 |
| Didn't think Dr could help | 7 | 12 | 13 | 0 | 7 | 10 |
| Transportation problems | 4 | 6 | 8 | 20 | 5 | 8 |
| Difficult to make appointment | 4 | 3 | 13 | 20 | 5 | 5 |
| Too embarrassed | 3 | 3 | 8 | 20 | 4 | 5 |
| Didn't know who to go and see | 4 | 6 | 0 | 0 | 3 | 5 |
| Didn't want parents to know | 2 | 0 | 4 | 0 | 3 | 0 |
| No one available to go along | 1 | 3 | 4 | 20 | 2 | 8 |
| Parent would not go with you | 2 | 9 | 0 | 0 | 2 | 8 |
| Thought Dr would tell authorities | 1 | 9 | 4 | 0 | 1 | 8 |

Table 33: Barriers to seeking medical treatment in the community (%)

*multiple responses permitted

a Males = 138; Females = 24; Total = 162

b Males = 34; Females = 5; Total = 39

Most of those who had accessed health providers were satisfied with the service they received (Table 34)

| Health professionals | Males | | Females | | Total | |
|---------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Nurse | 97 | 93 | 96 | 94 | 97 | 93 |
| Sexual health worker | 98 | 95 | 94 | 100 | 97 | 95 |
| Doctor | 95 | 93 | 93 | 100 | 95 | 94 |
| Alcohol & other drug counsellor | 93 | 95 | 94 | 100 | 93 | 95 |
| Psychologist | 87 | 93 | 66 | 100 | 84 | 94 |
| Psychiatrist | 81 | 84 | 64 | 100 | 79 | 85 |
| Dentist / dental therapist | n/r | 94 | n/r | 100 | n/r | 94 |

Table 34: Satisfaction with service provided at last visit (visit rated 'good' or 'OK') (%)

a Males (range) = 56-639; Females (range) = 18-115; Total (range) = 74-754 b Males (range) = 40-197; Females (range) = 1-16; Total (range) = 41-213

Young people reported awareness of telephone-based help lines; however only a small percentage of young people on community orders reported using these (Table 35).

Table 35: Percentages of young people who are aware of (use) help lines available to young people

| Help lines* | Males | | Females | | Total | |
|---------------------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| | Community ^a | Custody ^b | Community ^a | Custody ^b | Community ^a | Custody ^b |
| Kids Help line | 90 (9) | 84 (9) | 98 (21) | 84 (9) | 91 (10) | 84 (9) |
| Alcohol & Drug Information Service | 70 (2) | 56 (2) | 77 (5) | 56 (2) | 71 (3) | 56 (2) |
| Family Support | 54 (1) | 61 (2) | 72 (3) | 61 (2) | 56 (1) | 61 (2) |
| Life Line | 52 (2) | 51 (2) | 59 (3) | 51 (2) | 53 (2) | 51 (2) |
| G Line | 30 (1) | 31 (3) | 44 (3) | 31 (3) | 32 (1) | 31 (3) |
| Salvo's Line | 20 (<1) | 16 (<1) | 29 (0) | 16 (<1) | 21 (<1) | 16 (<1) |
| Quit Line | 20 (<1) | 15 (<1) | 20 (0) | 15 (<1) | 20 (<1) | 15 (<1) |
| 1800 Mental Health Line^ | 13 (<1) | 18 (<1) | 21 (0) | 18 (<1) | 15 (<1) | 18 (<1) |
| Internet Help lines | 15 (1) | 23 (<1) | 18 (2) | 23 (<1) | 15 (1) | 23 (<1) |
| Hep C Help line | 13 (<1) | 18 (2) | 20 (0) | 18 (2) | 14 (<1) | 18 (2) |

* multiple responses permitted

^ Only available to custodial clients

a Males (range) = 647-665; Females (range) = 114-117; Total (range) = 763-782

b Males = 200; Females = 16; Total = 216

Most of those who had accessed health providers were satisfied with the service they received. Young people reported awareness of

telephonebased help lines; however, only a very small percentage reported using

these.

APPENDIX: MEASURES USED

1. Physical assessment

- Blood Pressure (Sitting), (mmHg)
- Waist Measurement (cm)
- Body Mass Index (Quetelet's Index: BMI=kg/ m²)
- Visual Acuity (Snellen chart)

2. Blood and urine testing

- Hepatitis A antibody, hepatitis B core antibody, hepatitis B surface antigen, hepatitis C antibody
- Human Immunodeficiency Virus: HIV antibody
- Sexually Transmitted Infections: Syphilis, herpes simplex virus type 2
- General health: Cholesterol, creatinine, liver function tests (not presented in this report)

3. Physical health questionnaire and risk behaviours

The physical health questionnaire was modelled on a number of adolescent health surveys addressing health care needs, risk behaviours and service utilisation. So as to understand unique characteristics of this group of people, the steering committee adapted and added to some of the items. The instrument included questions from the Youth Risk Behaviour Questionnaire (YRBQ)³⁴, Youth Risk Behavior Survey³⁵, Kessler Psychological Distress Scale (K-10)¹⁰, Western Australian Child Health Survey³⁶, National Longitudinal Survey of Children and Youth³⁷, Young Offender Risk and Protective Factor Survey³⁸, NSW Corrections Health's Inmate Health Surveys (1996³⁹ and 2001⁴⁰), National Household Drug Use Survey⁴¹, Adolescent Health and Wellbeing Survey⁴², Hepatitis Prevalence Study⁴³, Experience of Care and Health Outcomes Survey⁴⁴, The National Longitudinal Study of Adolescent Health⁴⁵, and the Child Use of Dental Health Services Study⁴⁶.

The questionnaire's 32 sections included: demographics; education/occupation; living environment; family history; health status; disability health problem; symptom checklist; medication; asthma; dental health; physical injury; head injury; SF-12 version one⁴⁷; smoking; alcohol; drug use; drug treatment; sexual health; women's health; gambling; tattooing and body piercing; health education; physical activity; sun protection; nutrition; lifestyle; body image; mental health; K-10; suicide and self-harm; community health services, and health services appraisal.

4. Mental health

- The Kessler Psychological Distress Scale (K-10)¹⁰ was used to assess general psychological distress.
- The Childhood Trauma Questionnaire (CTQ)⁹ assessed experience of childhood trauma and self-report of neglect and abuse history. The CTQ generates classification scales relating to five areas of maltreatment: emotional, physical and sexual abuse, and emotional and physical neglect. The CTQ also generates a Minimisation/Denial scale, for the detection of false-negative reports regarding trauma.
- The Adolescent Psychopathology Scale

 Short Form (APS-SF)⁸ assesses a range of psychological and psychiatric symptoms warranting possible referral or intervention. The APS-SF, while not a diagnostic tool, is based on DSM-IV criteria. The 14 scales generated by the APS-SF are classified into five symptom levels: no symptoms; subclinical; mild; moderate; and severe. The APS-SF calculates 12 Clinical Scale scores based on DSM-IV Axis I Disorders (which incorporate all psychiatric or mental disorders except schizophrenia, personality disorders and developmental disorders/

delay). The scales correlate closely, but not exactly, with those from the Adolescent Psychopathology Scale (APS) used in the YPiCHS.

5. Cognitive functioning and intellectual ability

A battery of tests was administered to assess cognitive functioning, validity of cognitive test administration and educational achievement:

- Wechsler Abbreviated Scale of Intelligence (WASI)⁵ The WASI is a standard, brief and reliable test of verbal and non-verbal intelligence for individuals aged 6 to 89 years.
- Guide to Assessment of Test Session Behaviour (GATSB)⁶. The GATSB assesses participants' motivation and compliance with the testing process. This was applied to the WASI to determine whether participants' test session behaviour was valid.
- Wechsler Individual Achievement Test II -Abbreviated (WIAT-II-A)⁷. The WIAT-II-A was used to assess basic literacy and numeracy skills. The WASI and WIAT-II-A together provide a brief, reliable assessment of achievement and cognitive functioning.

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